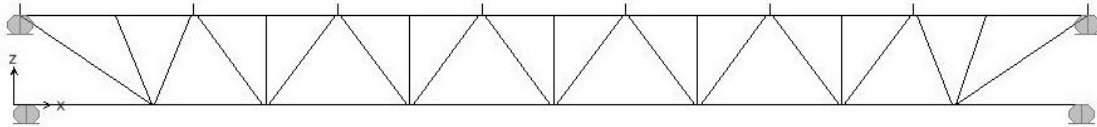


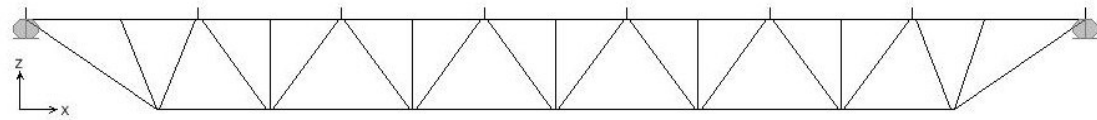
APPENDIX D
MODAL TEST RESULTS- SINGLE SPAN FOOTBRIDGE

APPENDIX D

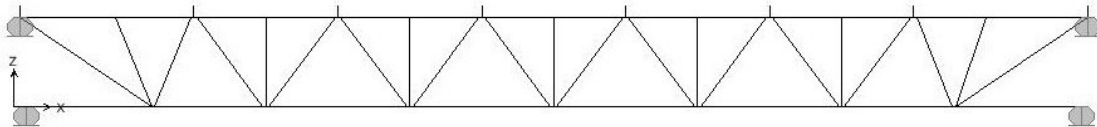
MODAL TEST RESULTS- SINGLE SPAN FOOTBRIDGE



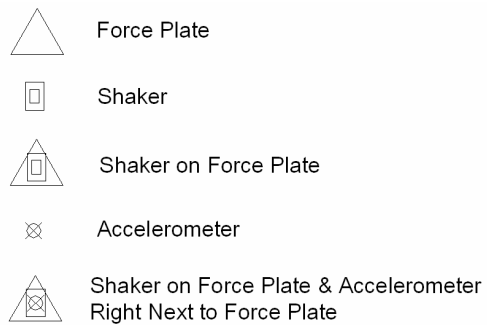
Stage 1: Bottom Chord Extensions In Place



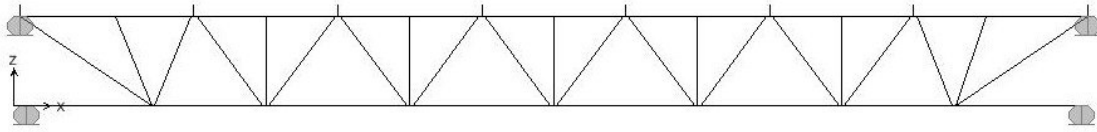
Stage 2: Bottom Chord Extensions Removed



Stage 3: Bottom Chord Extensions Re-installed

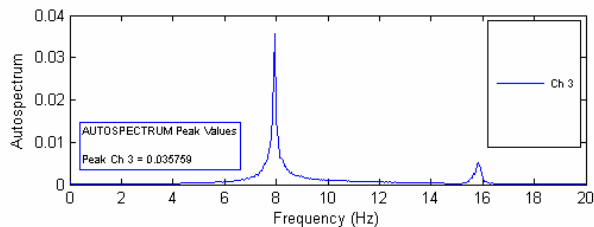
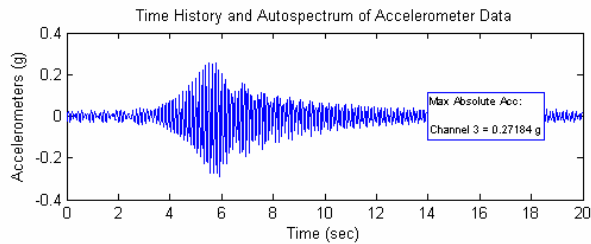
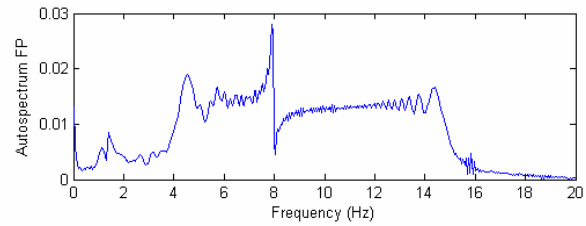
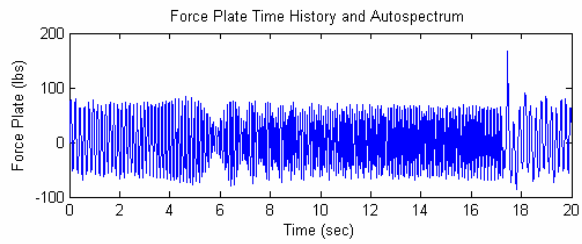
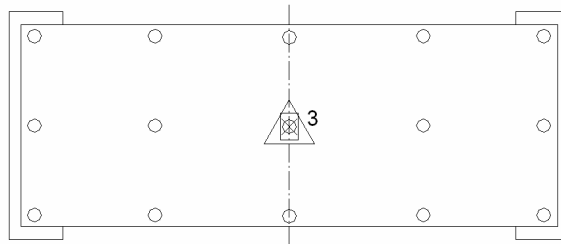


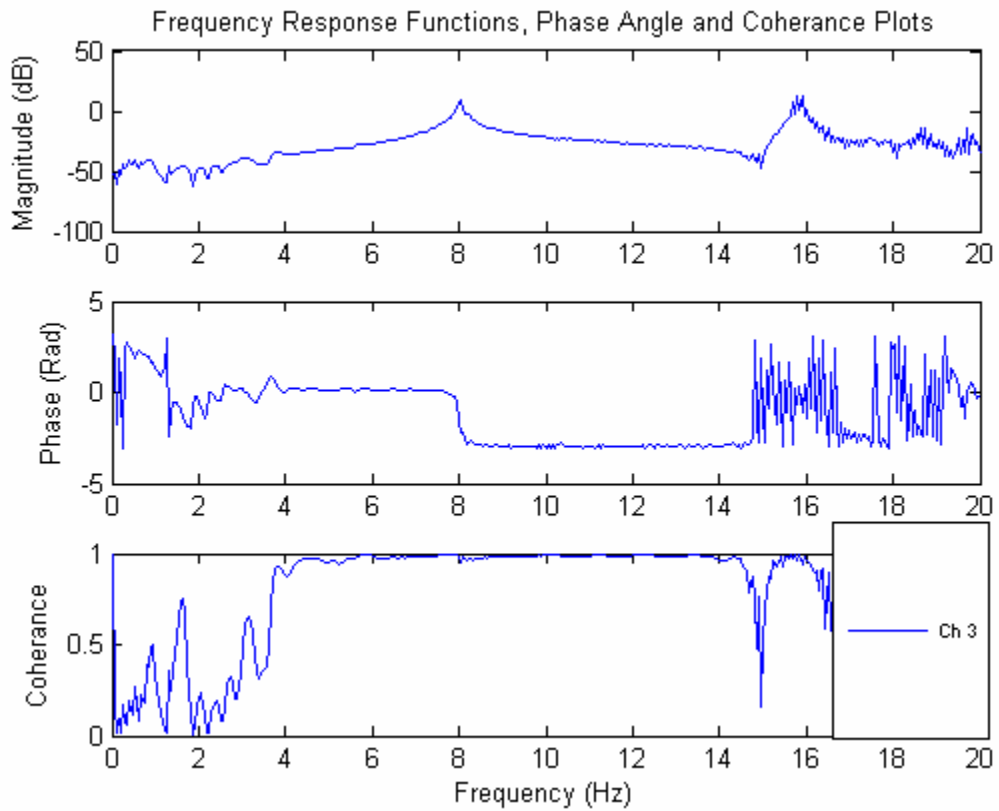
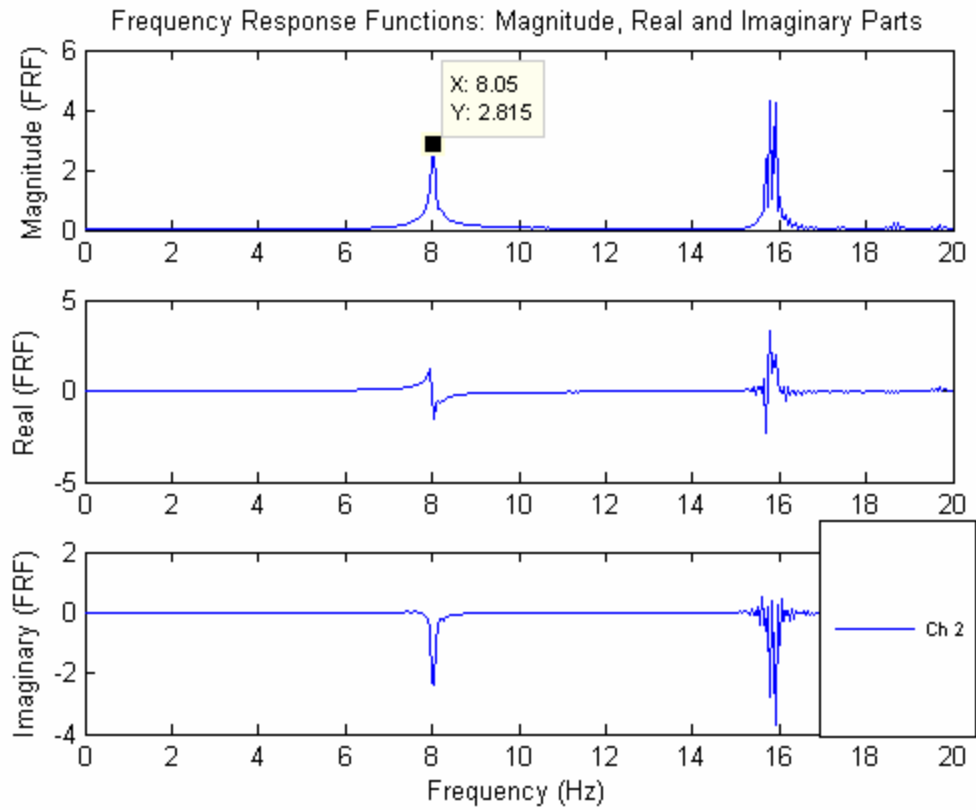
Stage 1: Bottom Chord Extensions in Place



Single Span Floor- Stage 1- Bottom Chord Extensions in Place

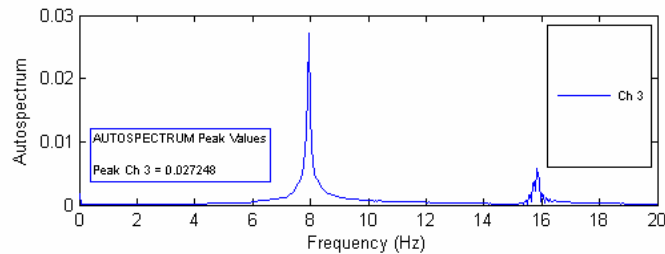
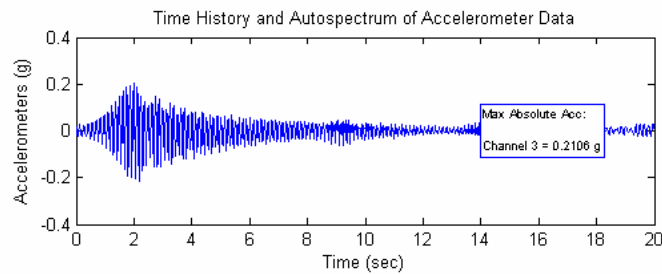
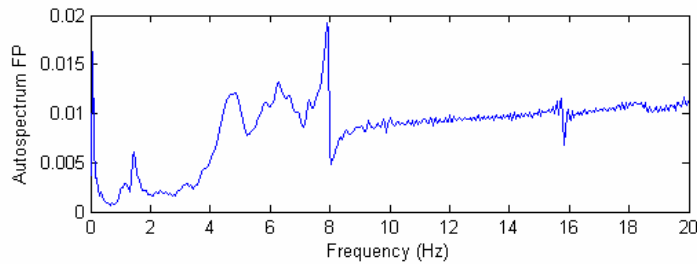
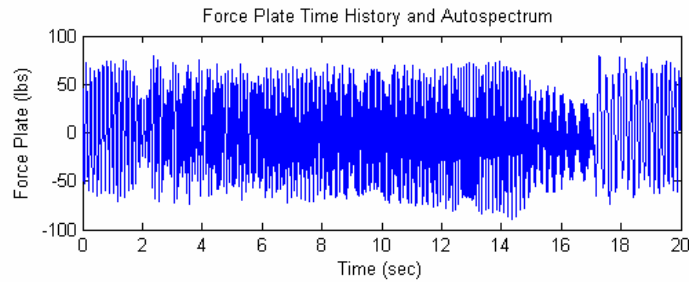
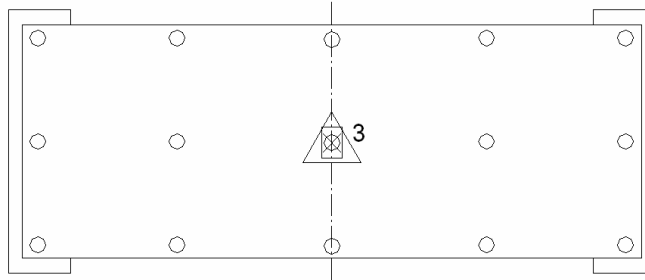
Test Date	Test No	Excitation	First Bending Mode Frequency	First Bending Mode Damping Ratio (Half power Method)
3/2/2004	1	Chirp	fn=8.00-8.05Hz	$\beta_1 = 0.49\%$

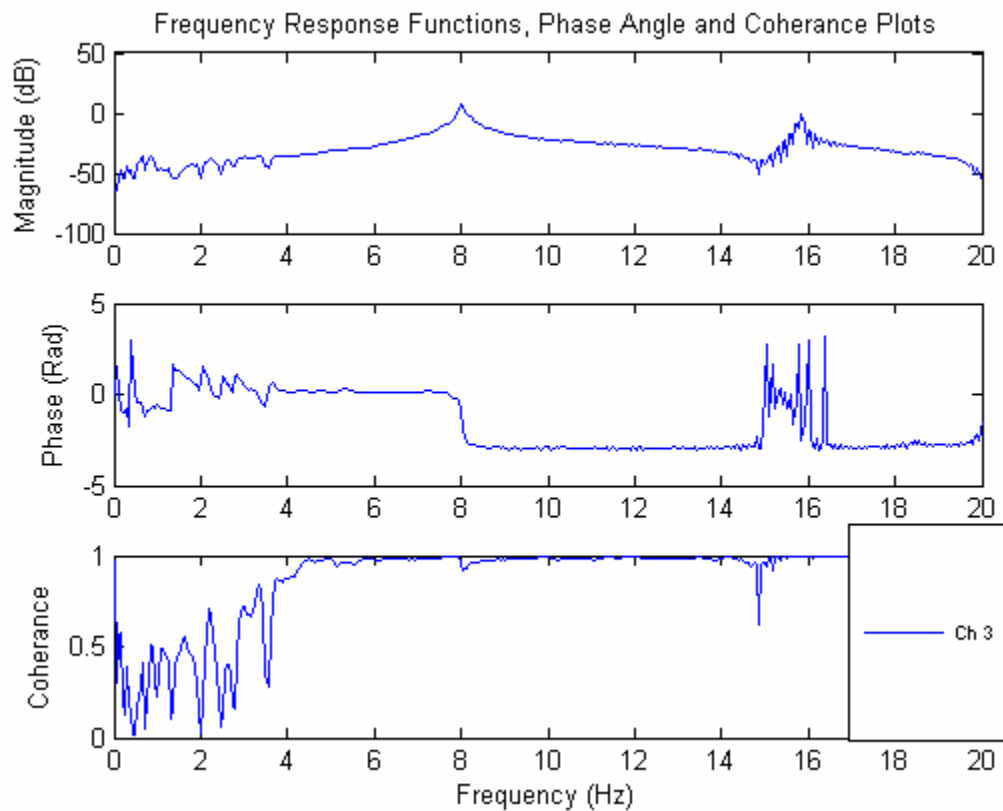
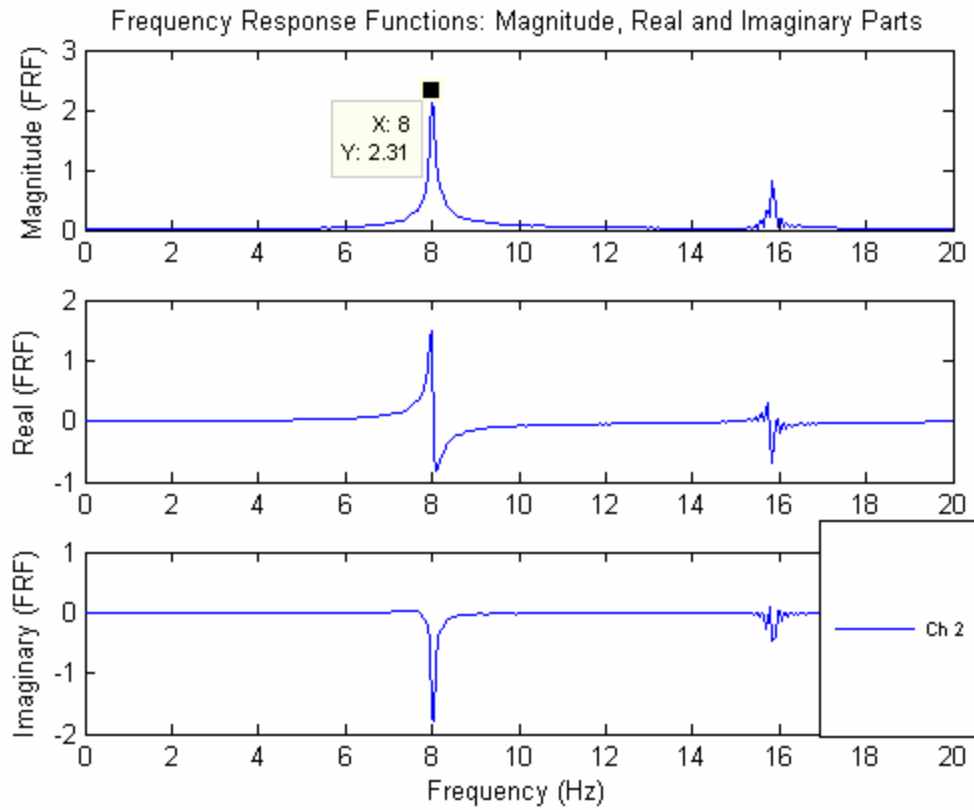




Single Span Floor- Stage 1- Bottom Chord Extensions in Place

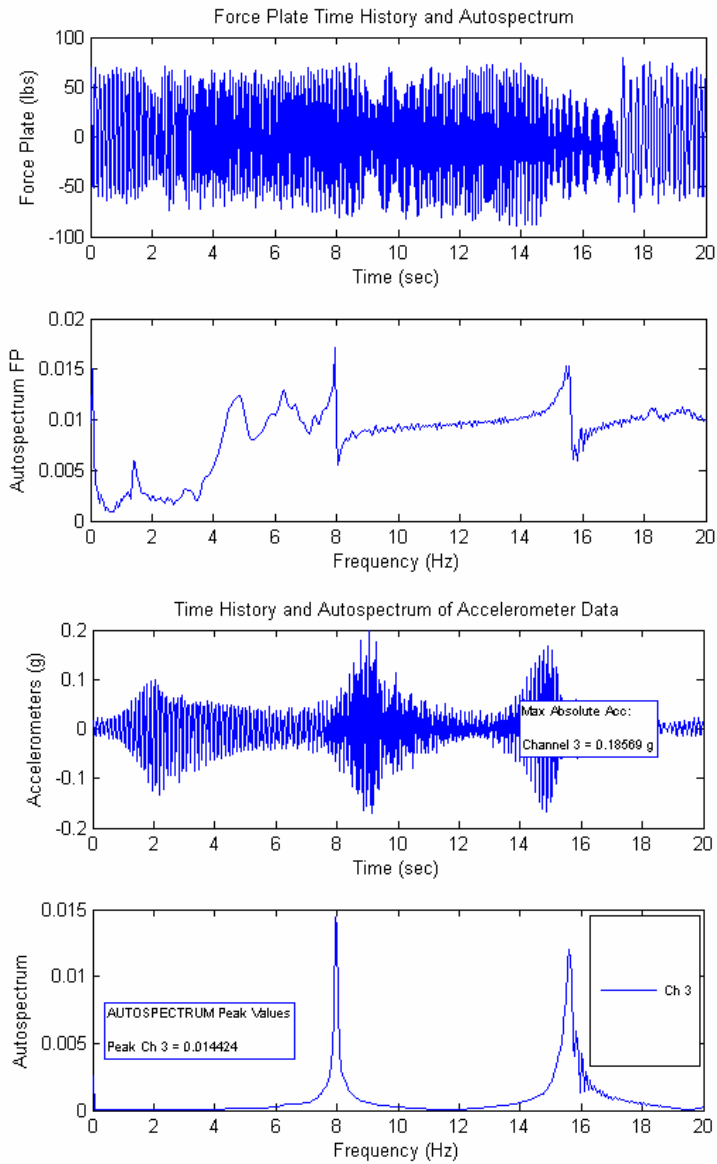
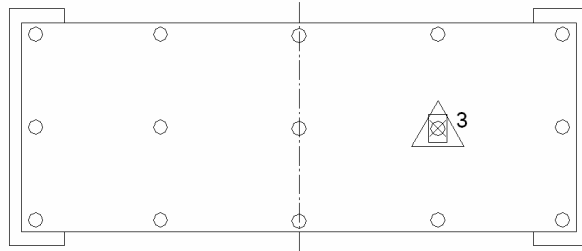
Test Date	Test No	Excitation	First Bending Mode Frequency	First Bending Mode Damping Ratio (Half power Method)
3/2/2004	2	Chirp	fn=8.00-8.05Hz	$\beta_1 = 0.59\%$

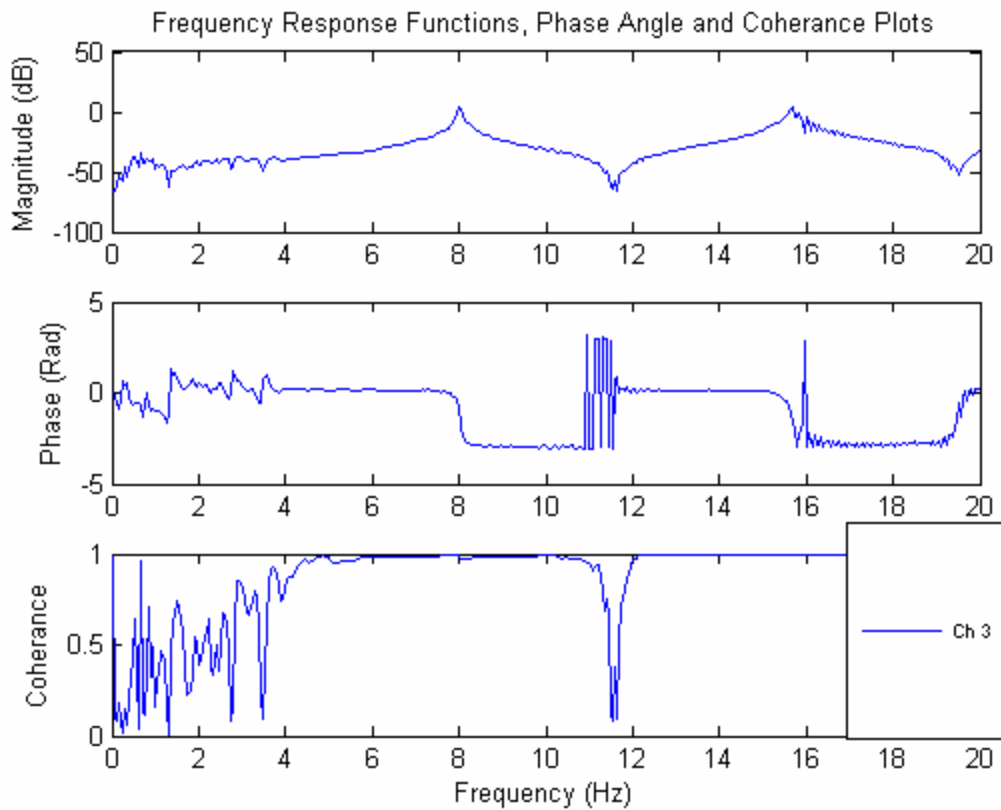
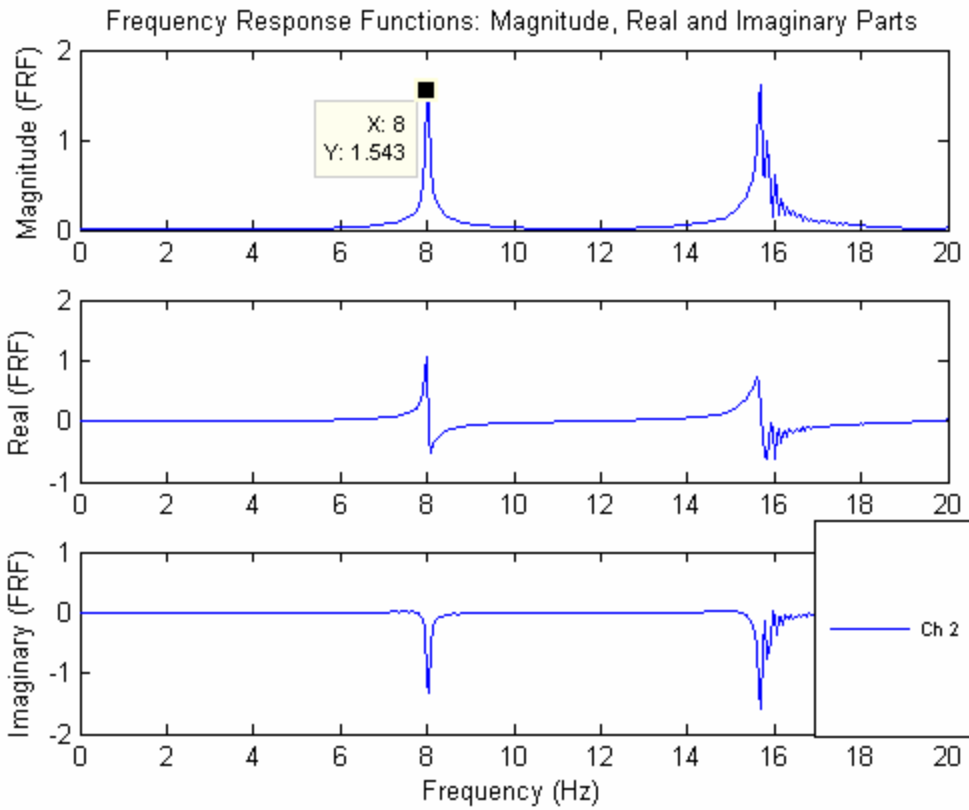




Single Span Floor- Stage 1- Bottom Chord Extensions in Place

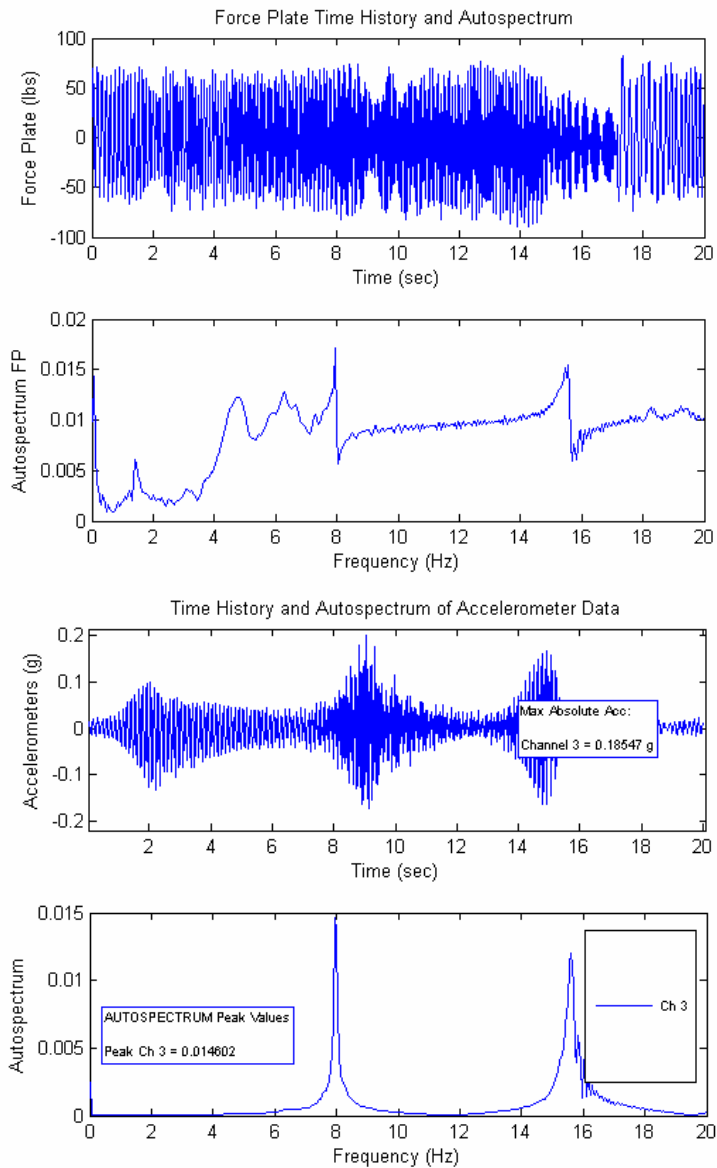
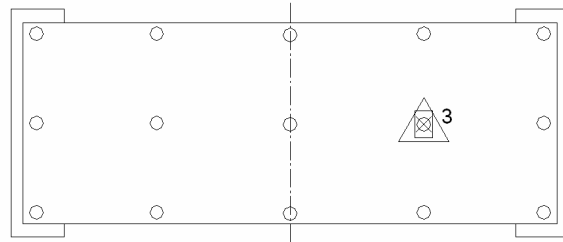
Test Date	Test No	Excitation	First Bending Mode Frequency	First Bending Mode Damping Ratio (Half power Method)	Second Bending Mode Frequency	Second Bending Mode Damping Ratio (Half power Method)
3/2/2004	3	Chirp	fn=8.00-8.05Hz	$\beta_1 = 0.64\%$	fn=15.70Hz	$\beta_2 = 0.33\%$

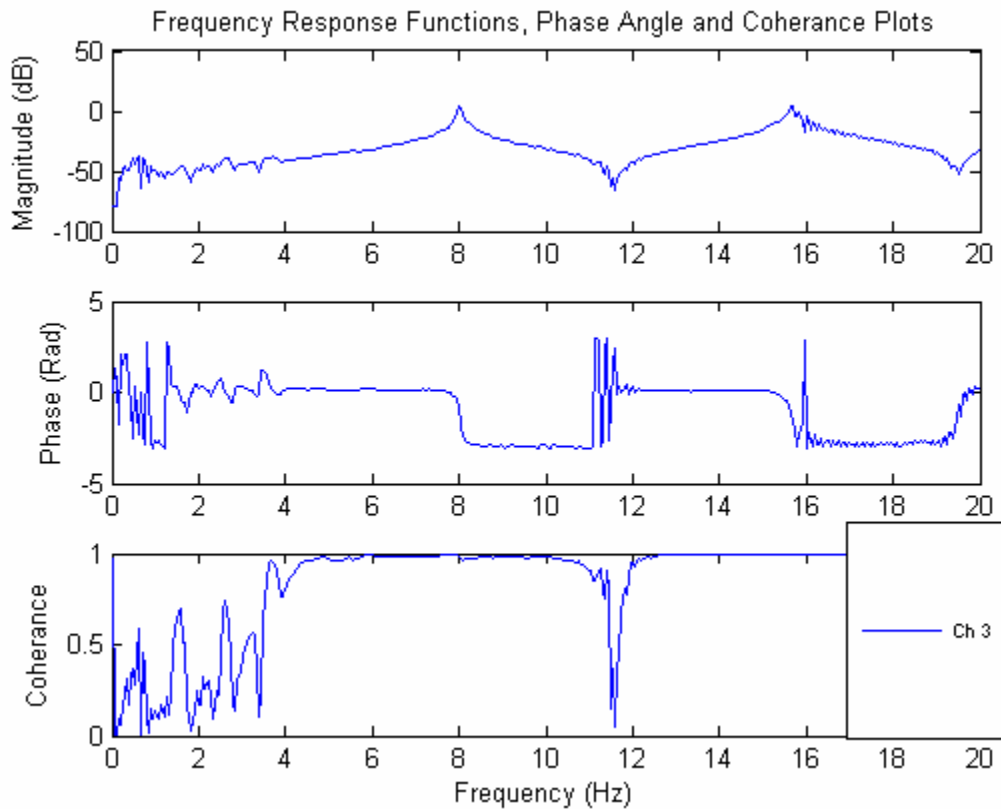
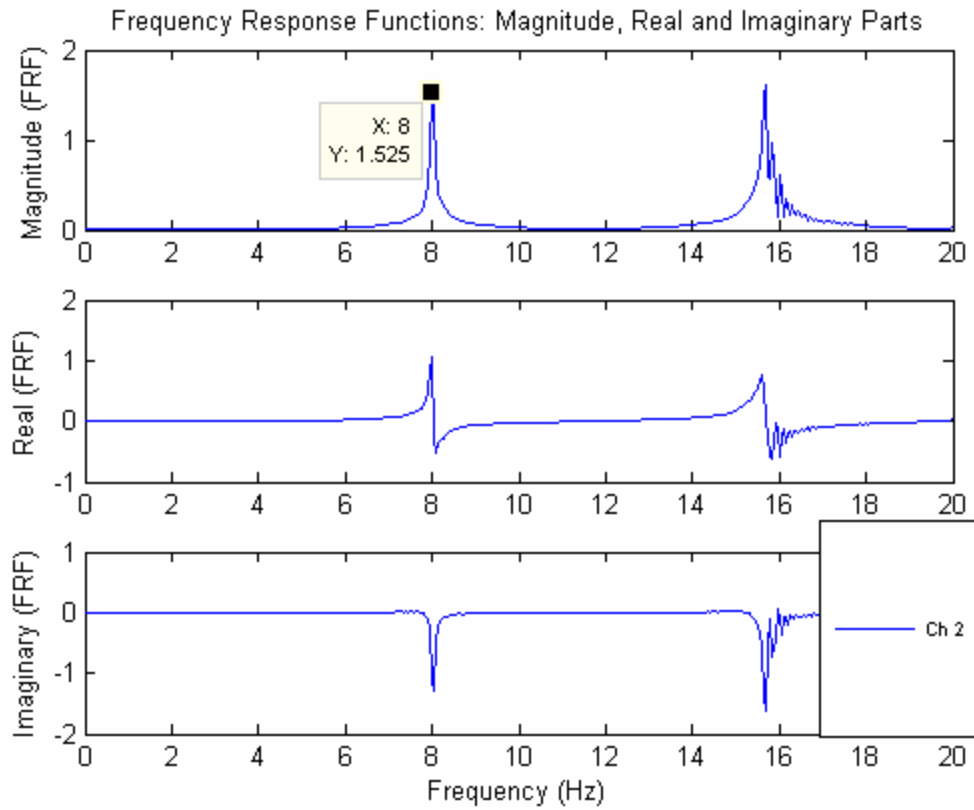




Single Span Floor- Stage 1- Bottom Chord Extensions in Place

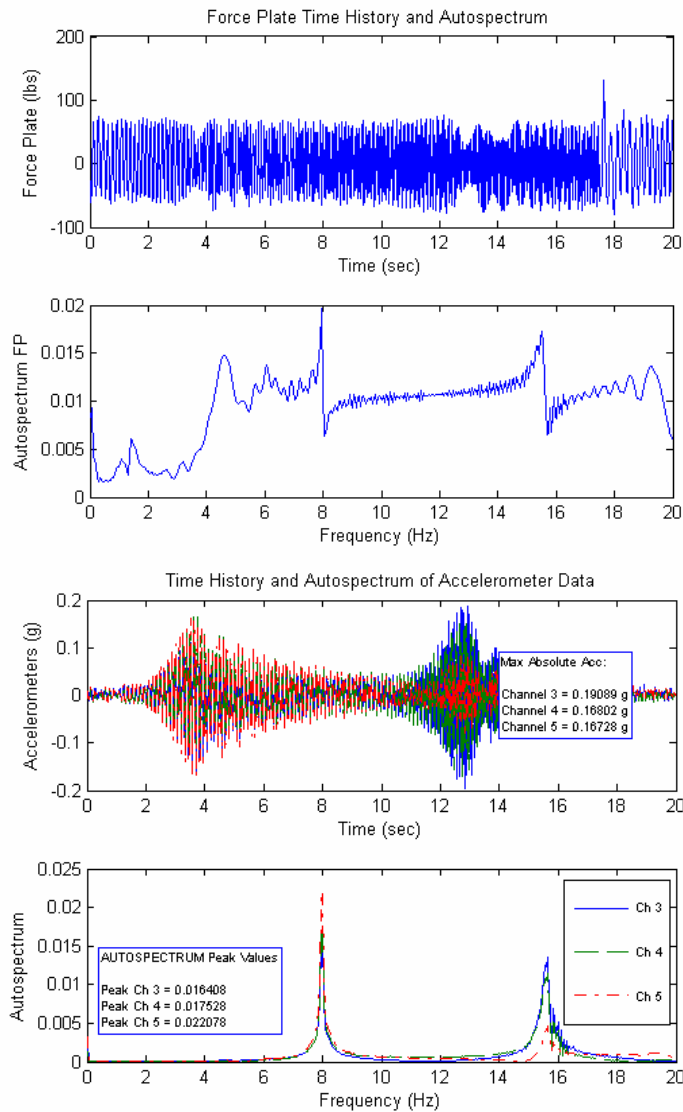
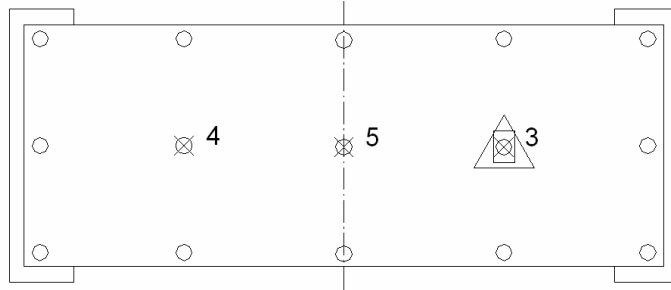
Test Date	Test No	Excitation	First Bending Mode Frequency	First Bending Mode Damping Ratio (Half power Method)	Second Bending Mode Frequency	Second Bending Mode Damping Ratio (Half power Method)
3/2/2004	4	Chirp	fn=8.00-8.05Hz	$\beta_1 = 0.64\%$	fn=15.70Hz	$\beta_2 = 0.33\%$

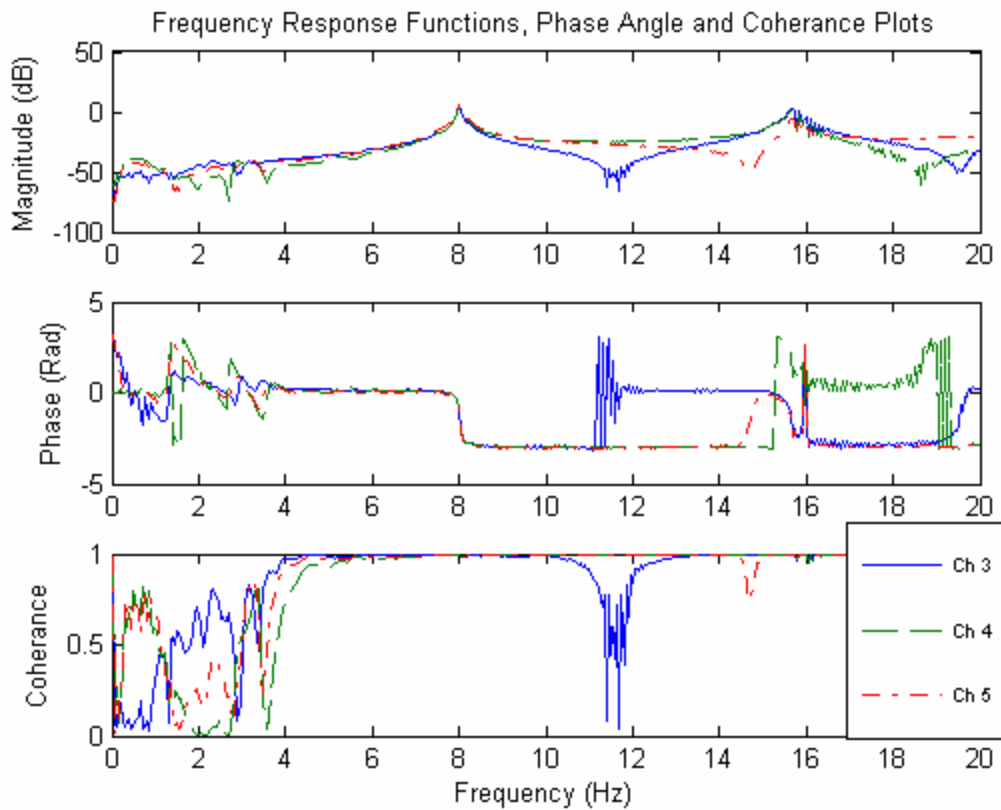
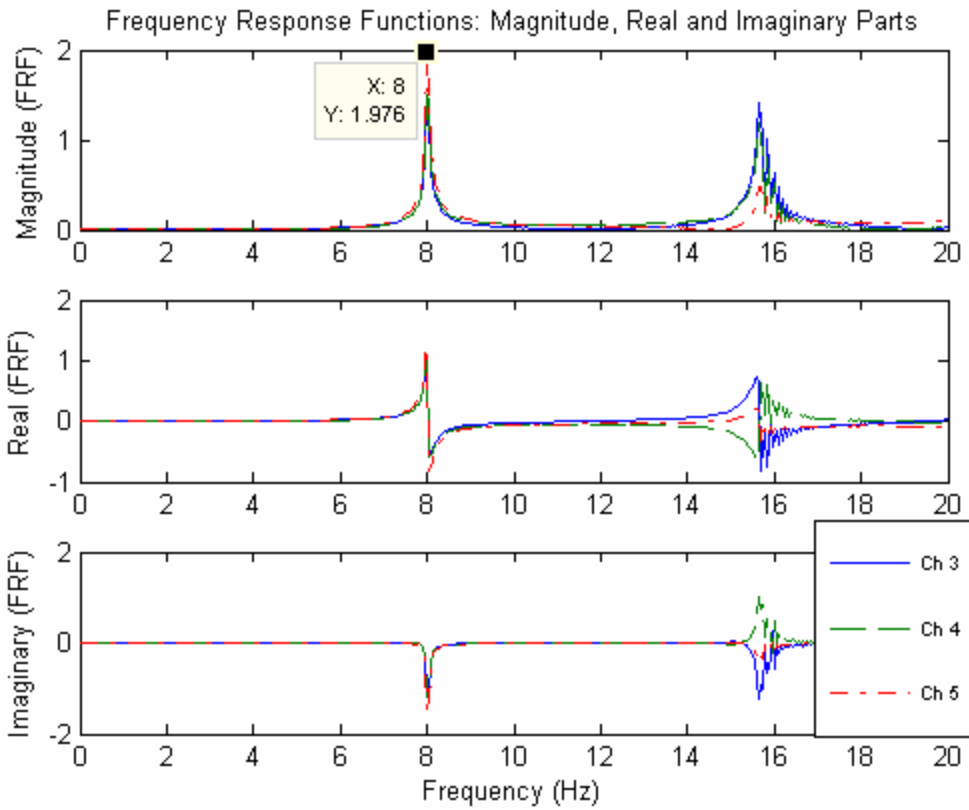




Single Span Floor- Stage 1- Bottom Chord Extensions in Place

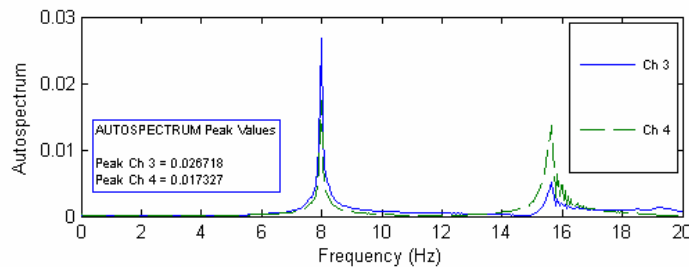
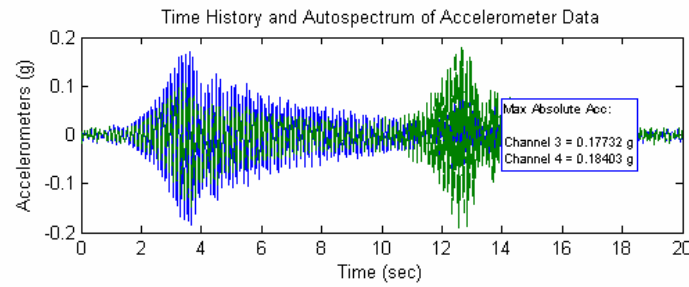
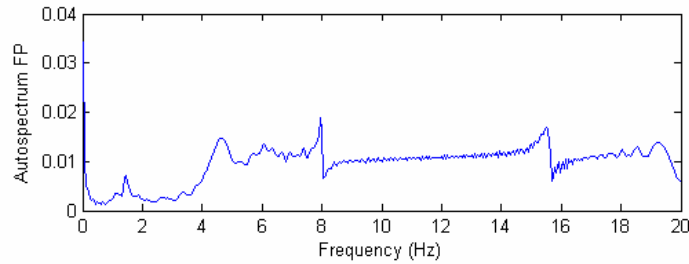
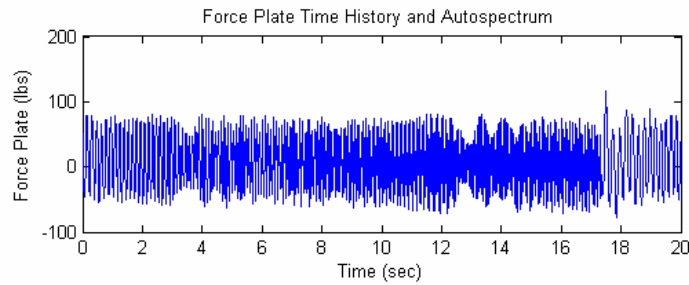
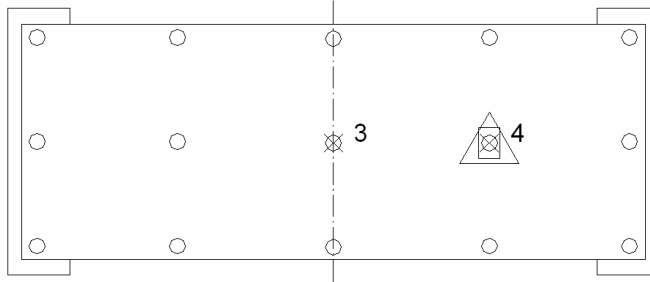
Test Date	Test No	Excitation	First Bending Mode Frequency	First Bending Mode Damping Ratio (Half power Method)	Second Bending Mode Frequency	Second Bending Mode Damping Ratio (Half power Method)
3/2/2004	5	Chirp	fn=8.00-8.05Hz	$\beta_1 = 0.63\%$	fn=15.65Hz	$\beta_2 = 0.55\%$

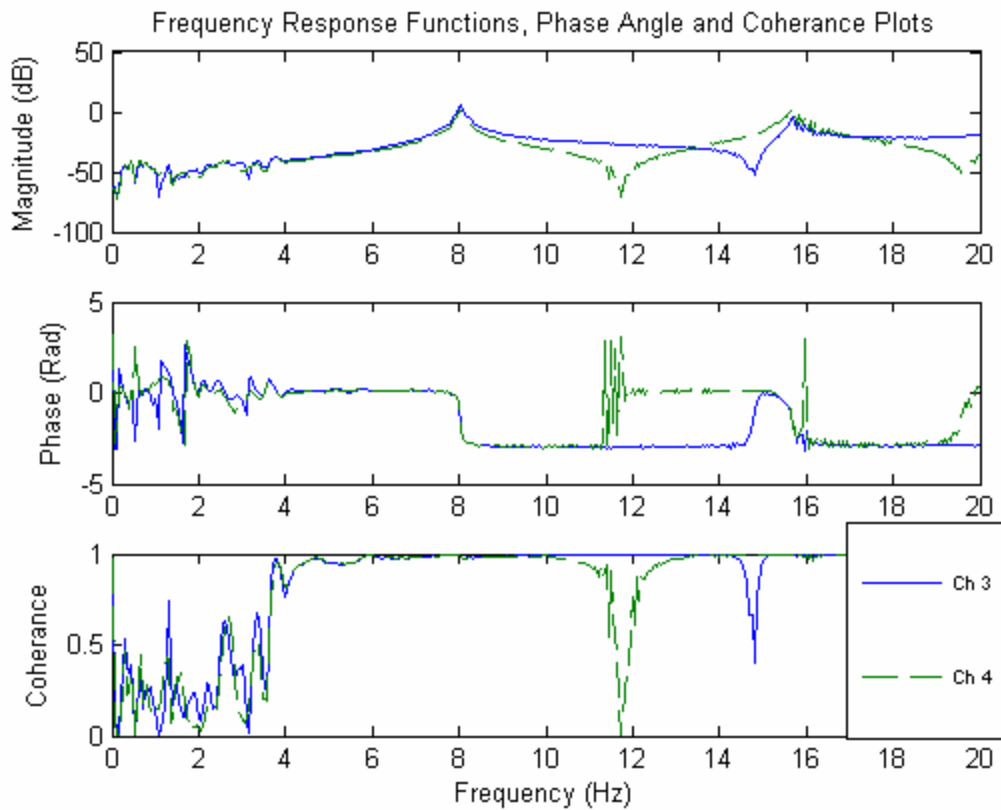
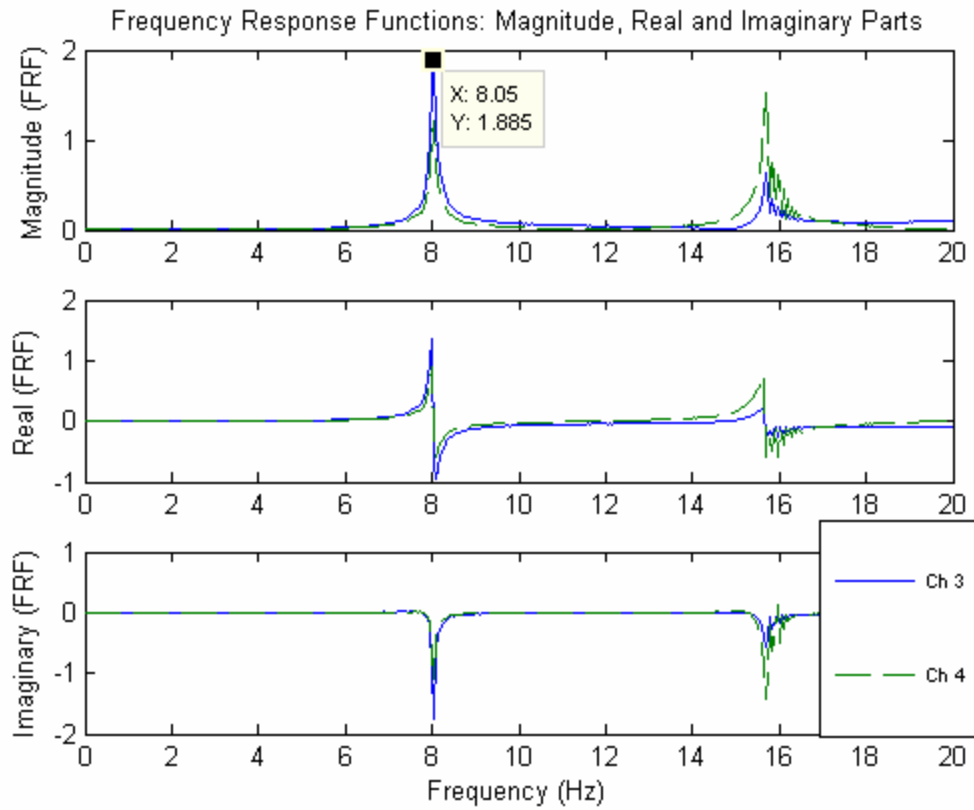




Single Span Floor- Stage 1- Bottom Chord Extensions in Place

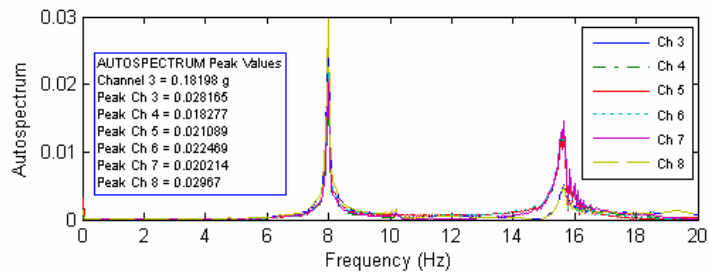
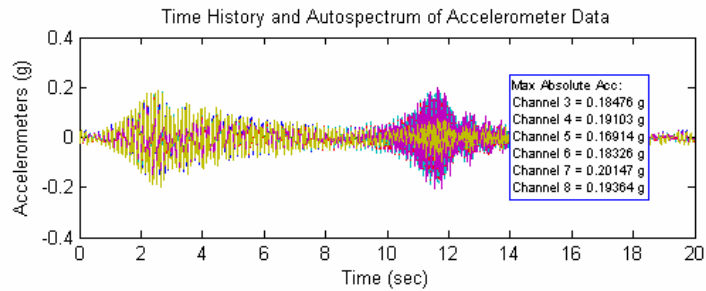
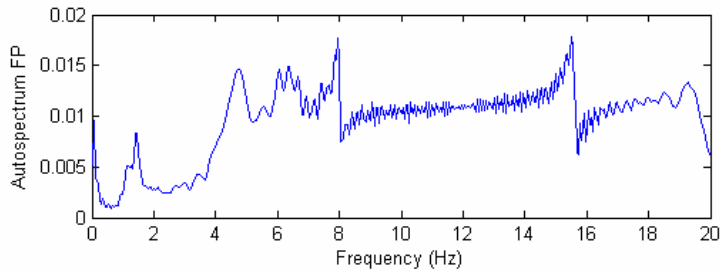
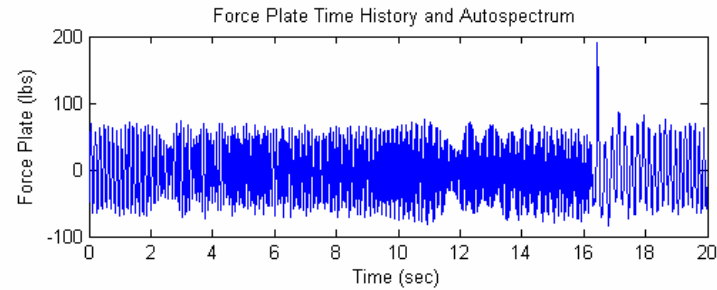
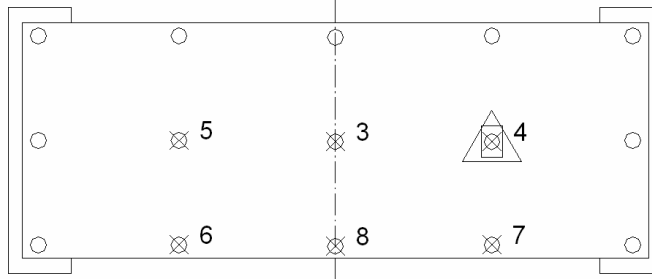
Test Date	Test No	Excitation	First Bending Mode Frequency	First Bending Mode Damping Ratio (Half power Method)	Second Bending Mode Frequency	Second Bending Mode Damping Ratio (Half power Method)
3/3/2004	1	Chirp	fn=8.00-8.05Hz	$\beta_1 = 0.68\%$	fn=15.70Hz	$\beta_2 = 0.373\%$

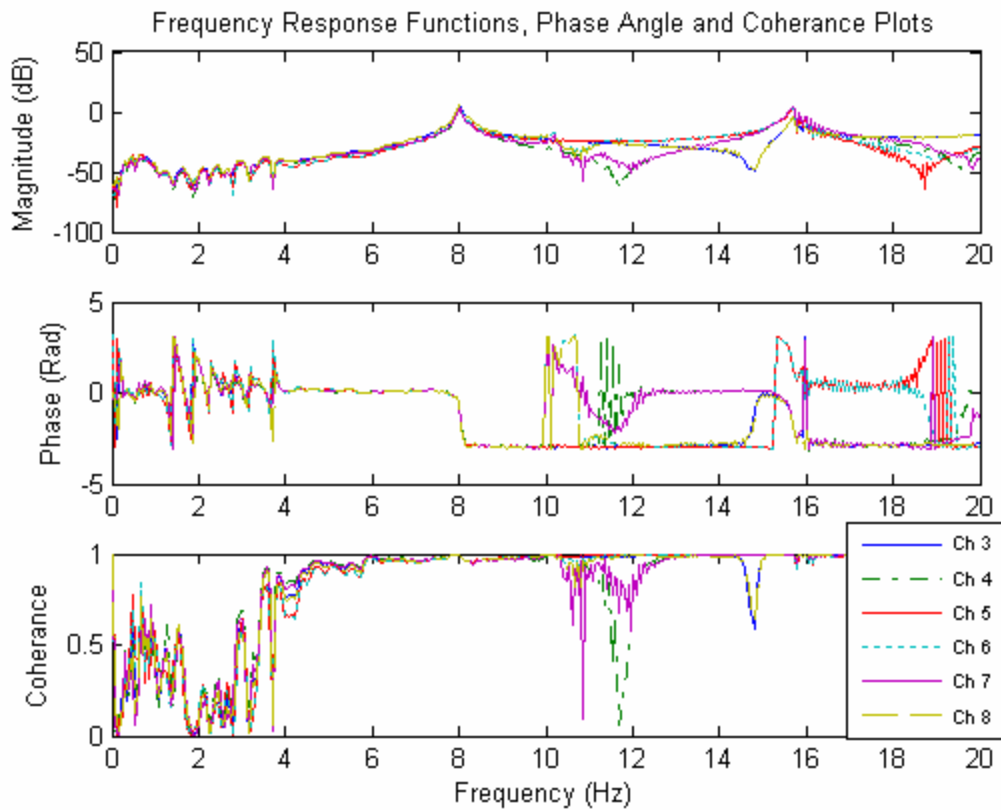
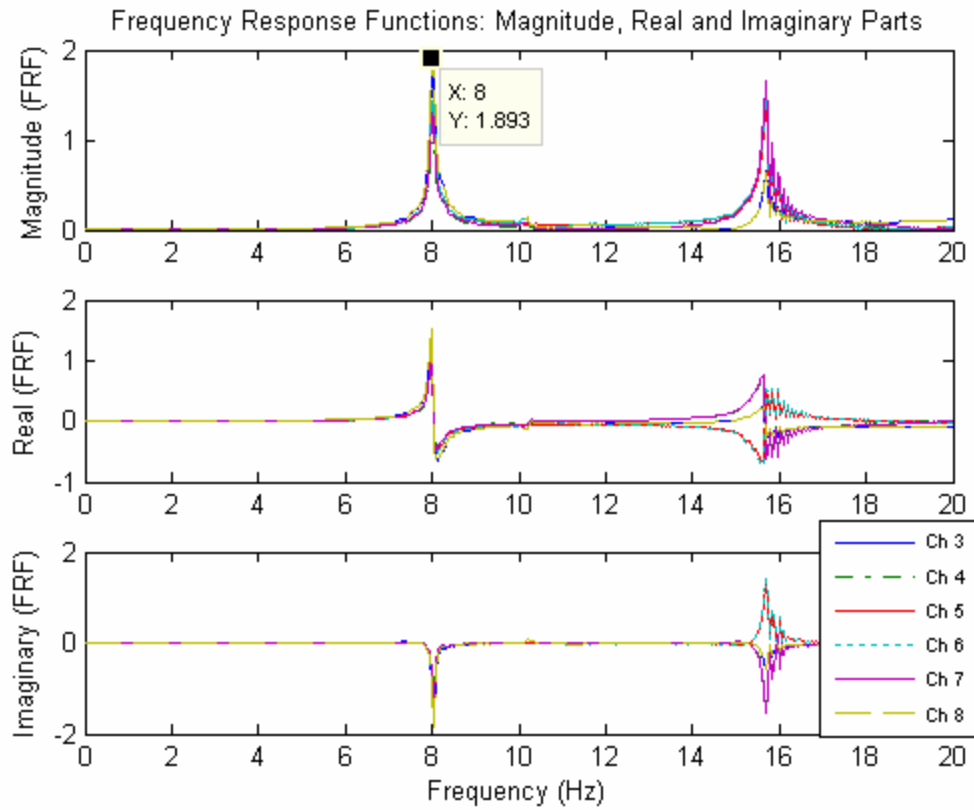




Single Span Floor- Stage 1- Bottom Chord Extensions in Place

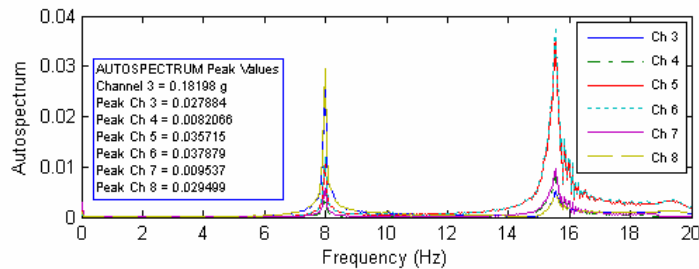
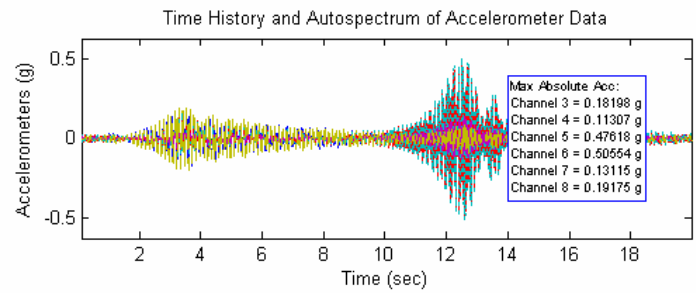
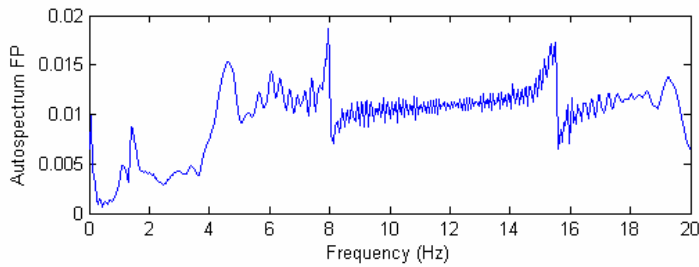
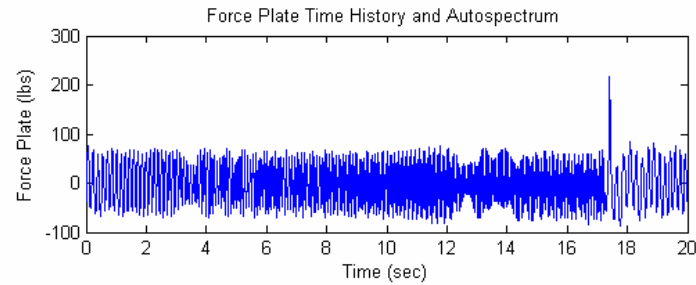
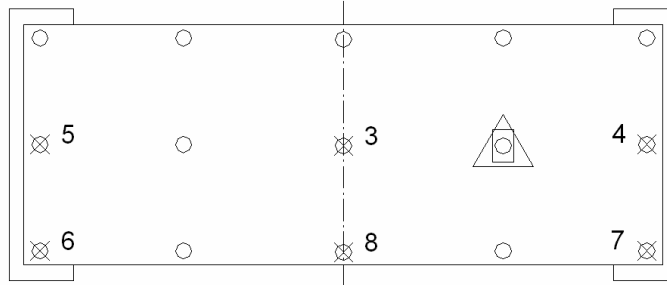
Test Date	Test No	Excitation	First Bending Mode Frequency	First Bending Mode Damping Ratio (Half power Method)	Second Bending Mode Frequency	Second Bending Mode Damping Ratio (Half power Method)
3/3/2004	2	Chirp	fn=8.00-8.05Hz	$\beta_1 = 0.511\%$	fn=15.70Hz	$\beta_2 = 0.404\%$

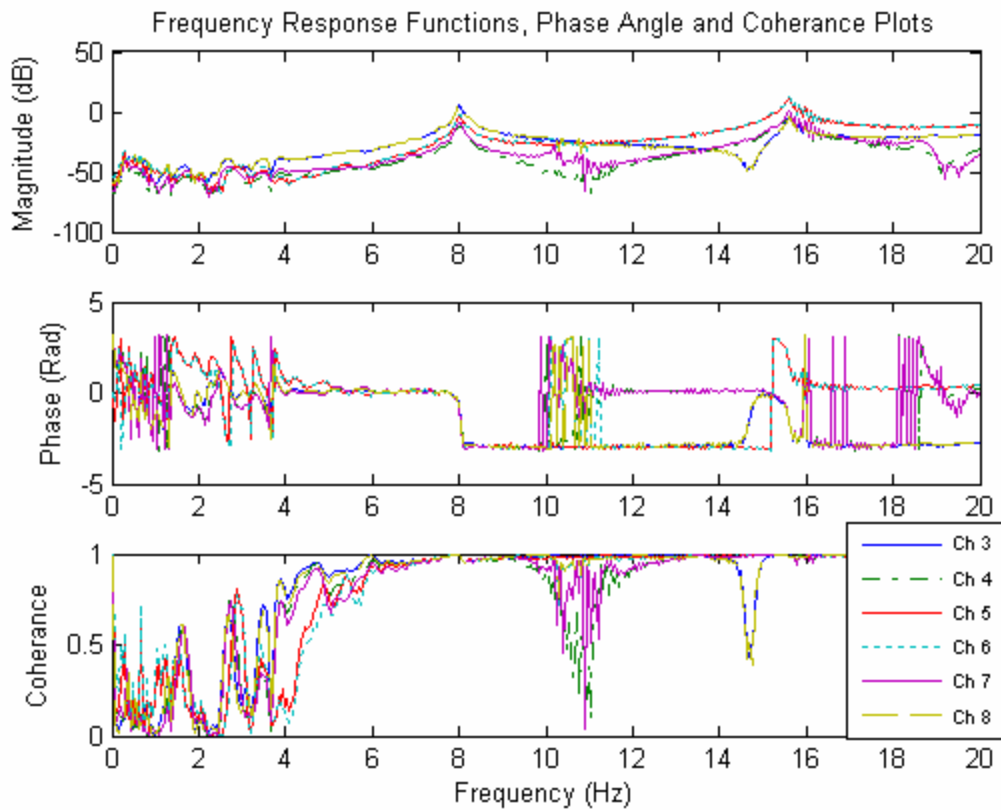
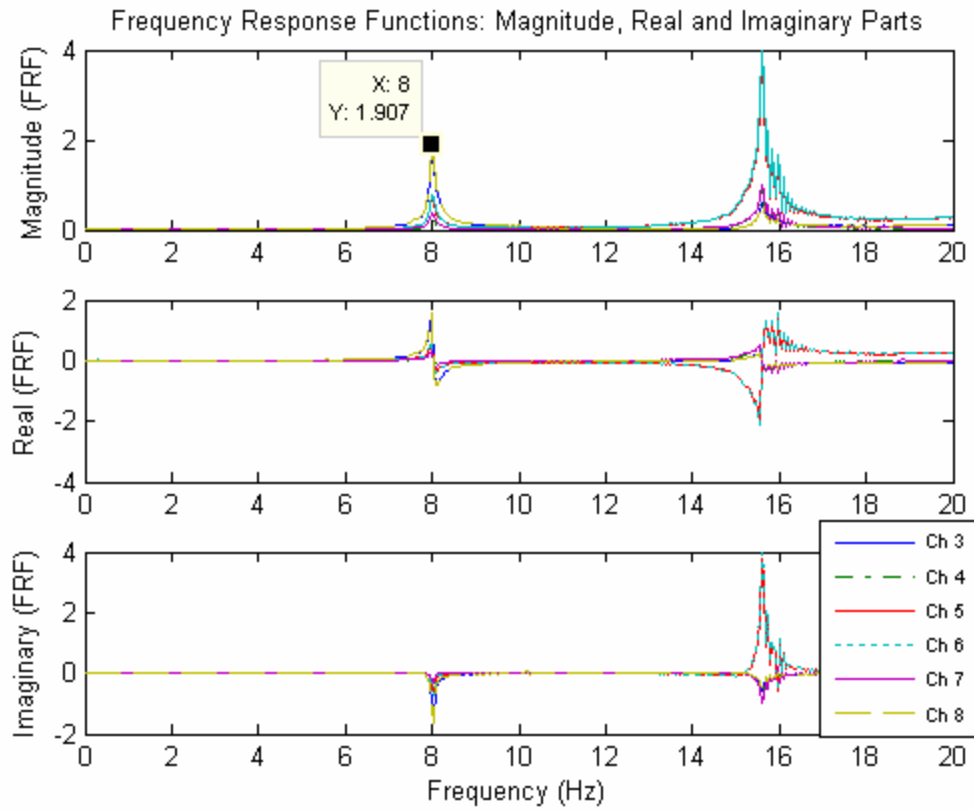




Single Span Floor- Stage 1- Bottom Chord Extensions in Place

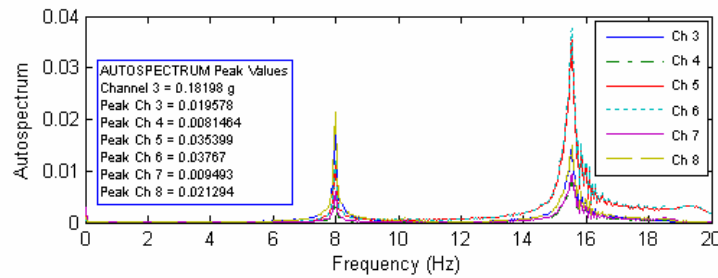
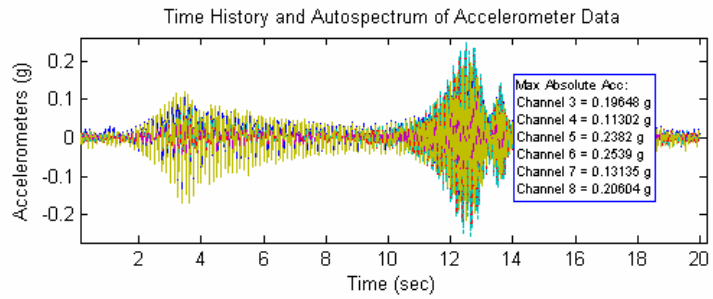
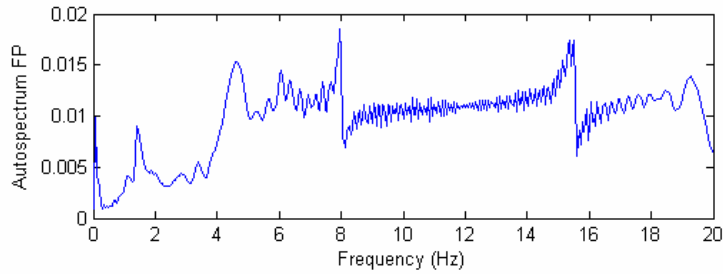
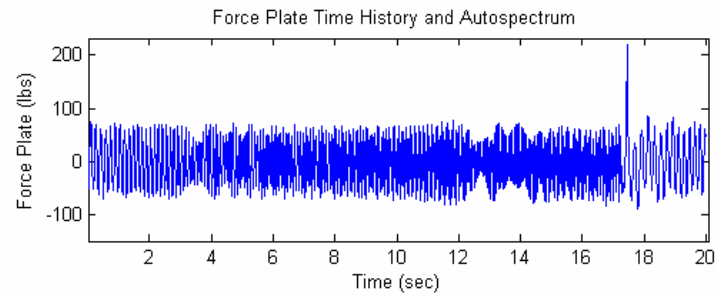
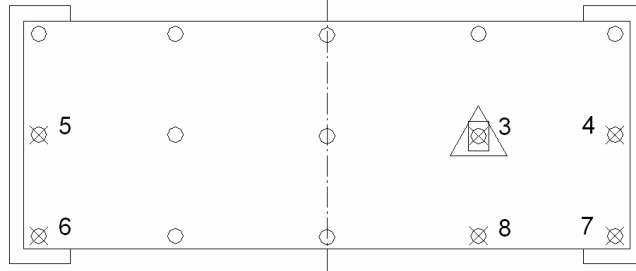
Test Date	Test No	Excitation	First Bending Mode Frequency	First Bending Mode Damping Ratio (Half power Method)	Second Bending Mode Frequency	Second Bending Mode Damping Ratio (Half power Method)
3/3/2004	3	Chirp	fn=8.00-8.05Hz	$\beta_1 = 0.549\%$	fn=15.50-15.55Hz	$\beta_2 = 0.308\%$

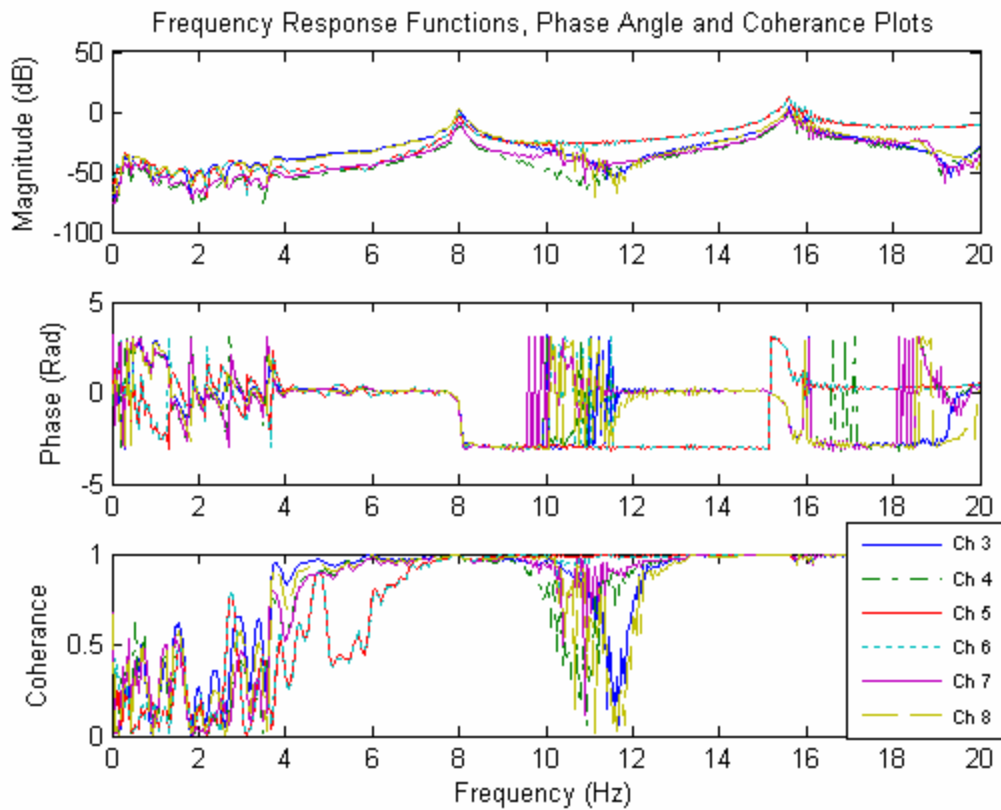
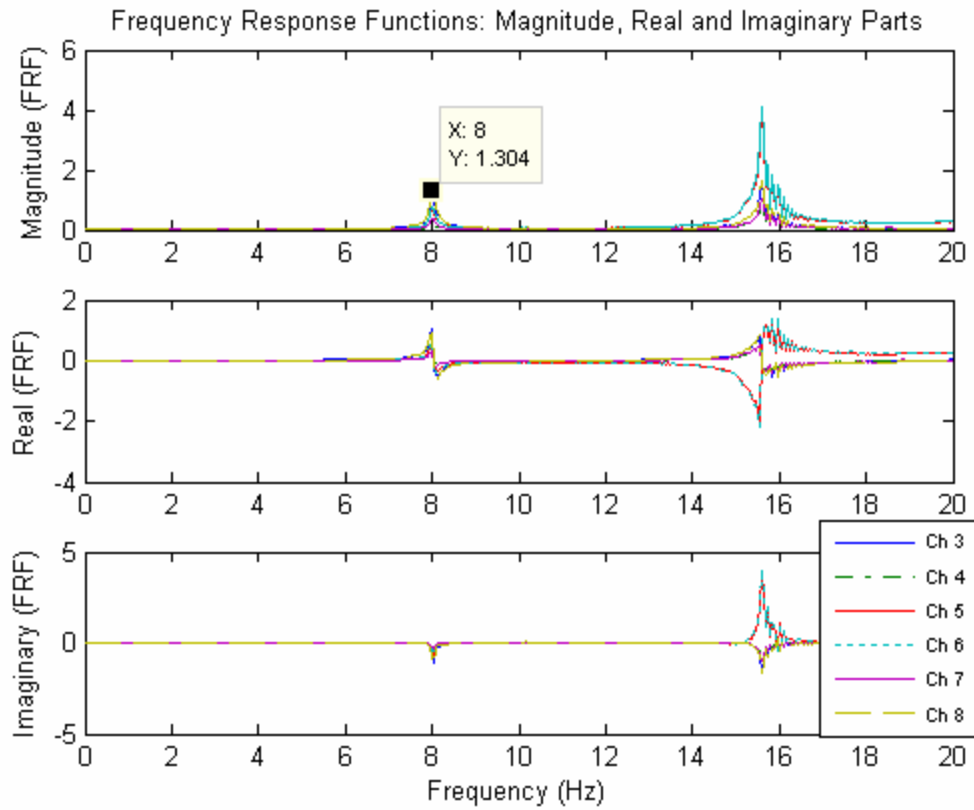




Single Span Floor- Stage 1- Bottom Chord Extensions in Place

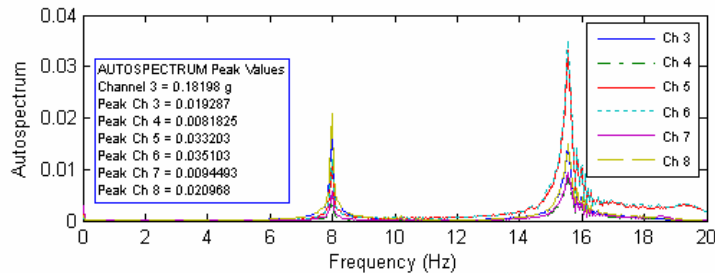
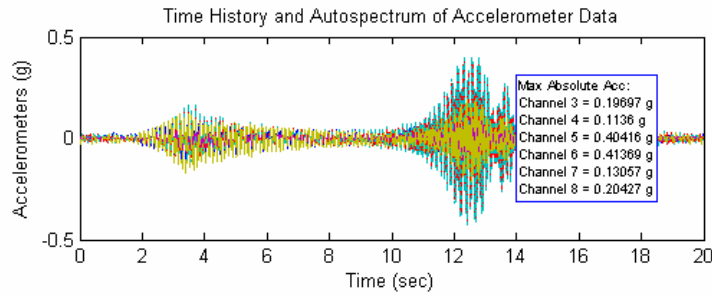
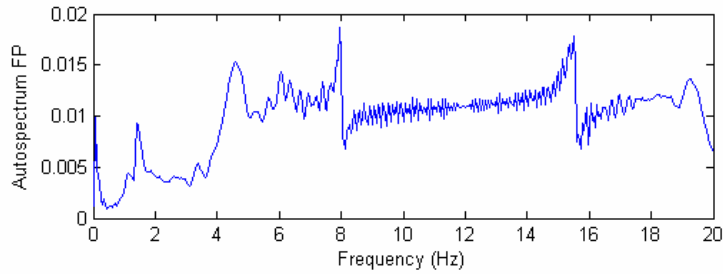
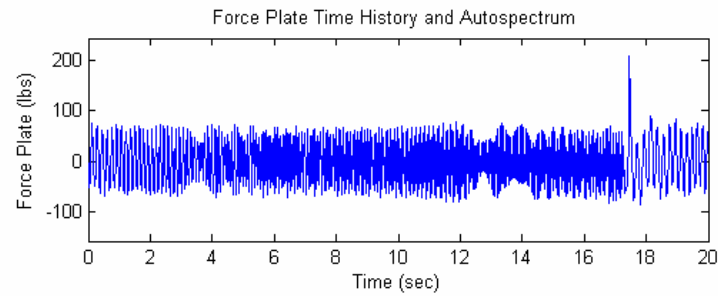
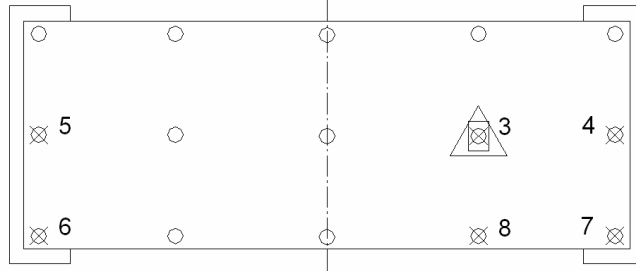
Test Date	Test No	Excitation	First Bending Mode Frequency	First Bending Mode Damping Ratio (Half power Method)	Second Bending Mode Frequency	Second Bending Mode Damping Ratio (Half power Method)
3/3/2004	4	Chirp	fn=8.00-8.05Hz	$\beta_1 = 0.561\%$	fn=15.60Hz	$\beta_2 = 0.349\%$

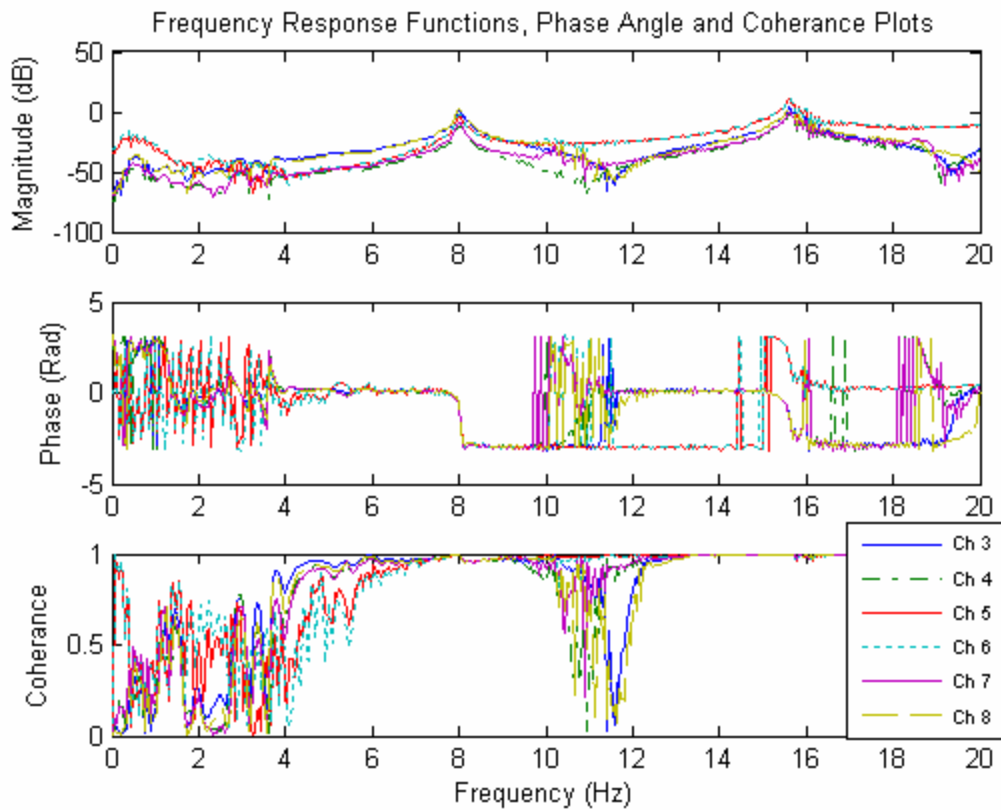
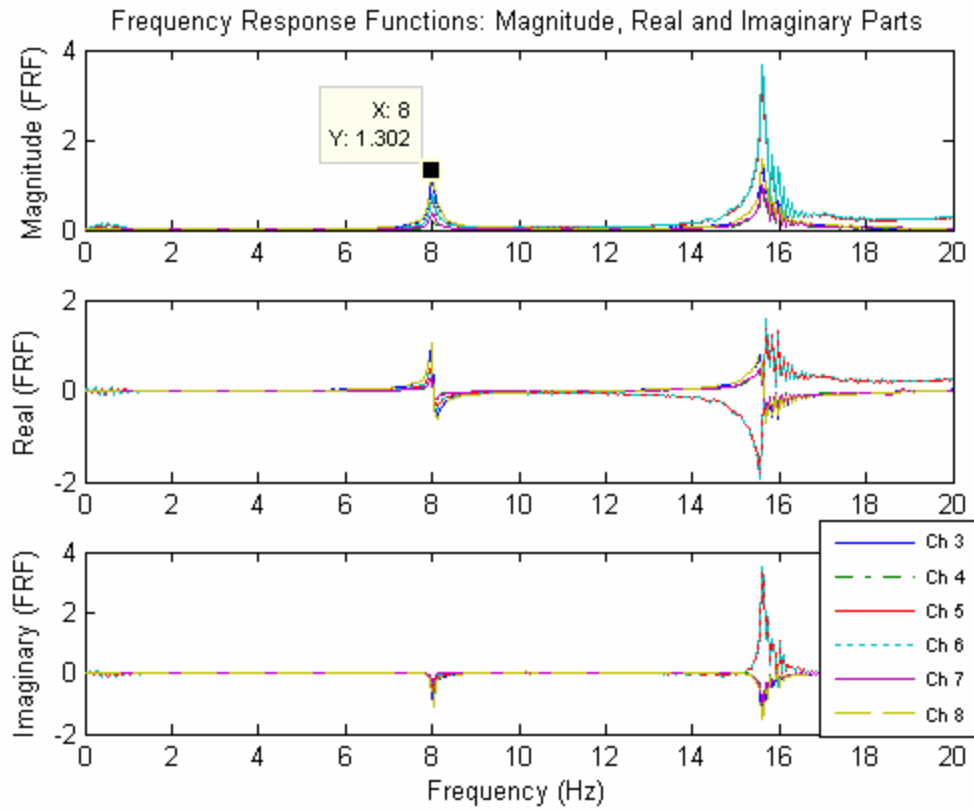




Single Span Floor- Stage 1- Bottom Chord Extensions in Place

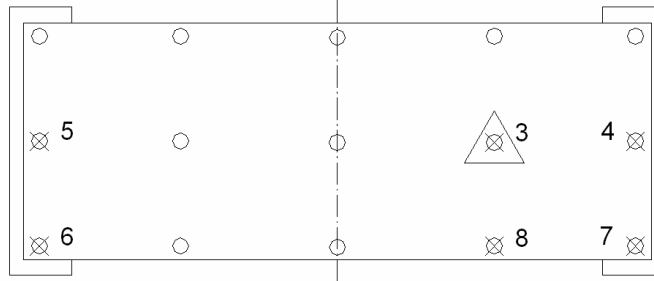
Test Date	Test No	Excitation	First Bending Mode Frequency	First Bending Mode Damping Ratio (Half power Method)	Second Bending Mode Frequency	Second Bending Mode Damping Ratio (Half power Method)
3/3/2004	4b	Chirp	fn=8.00-8.05Hz	$\beta_1 = 0.574\%$	fn=15.60-15.62Hz	$\beta_2 = 0.372\%$



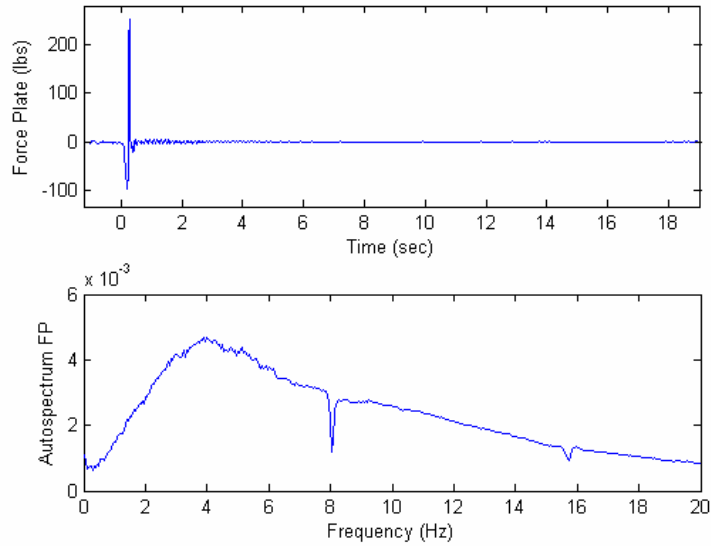


Single Span Floor- Stage 1- Bottom Chord Extensions in Place

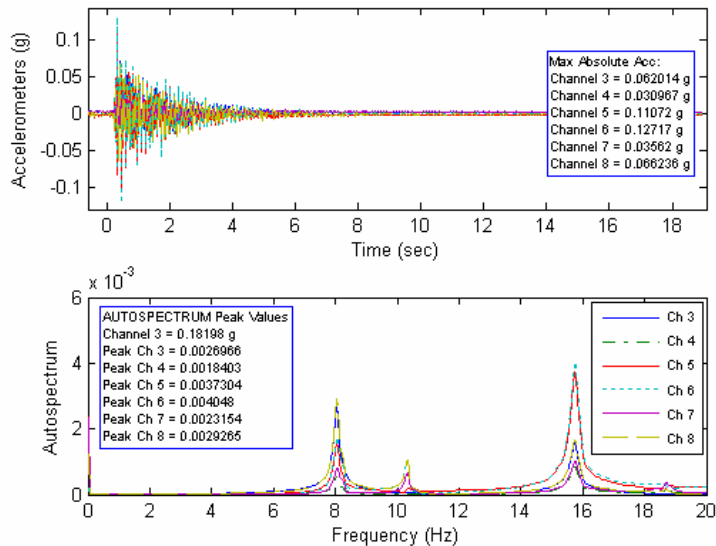
Test Date	Test No	Excitation	First Bending Mode Frequency	First Bending Mode Damping Ratio (Half power Method)	Second Bending Mode Frequency	Second Bending Mode Damping Ratio (Half power Method)	First Torsional Mode Frequency
3/3/2004	5	Heeldrops	fn=8.00-8.05Hz	$\beta_1 = 0.453\%$	fn=15.75Hz	$\beta_2 = 0.521\%$	10.35Hz

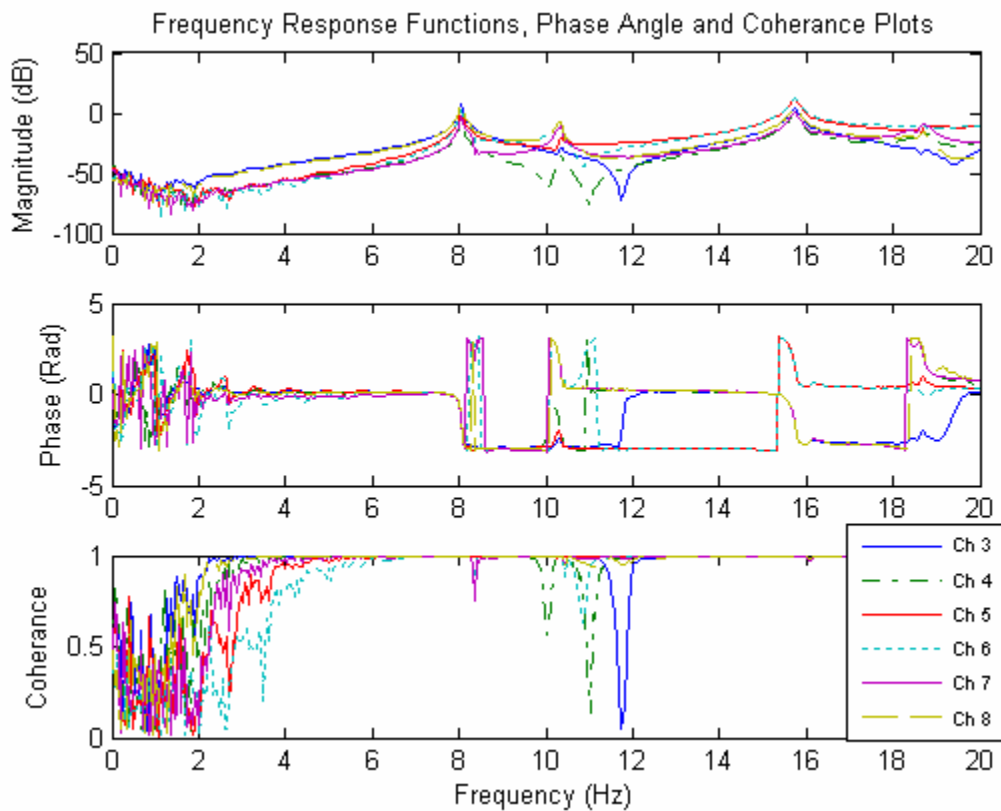
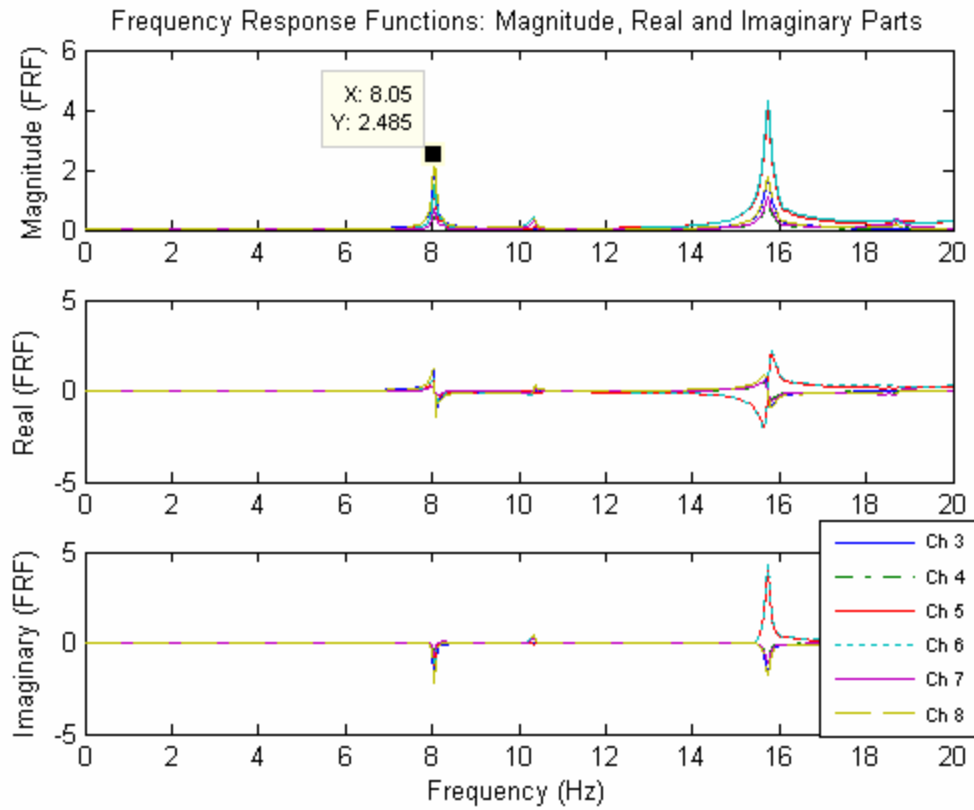


Force Plate Time History and Autospectrum



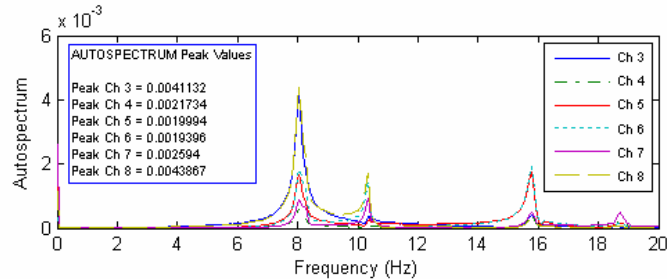
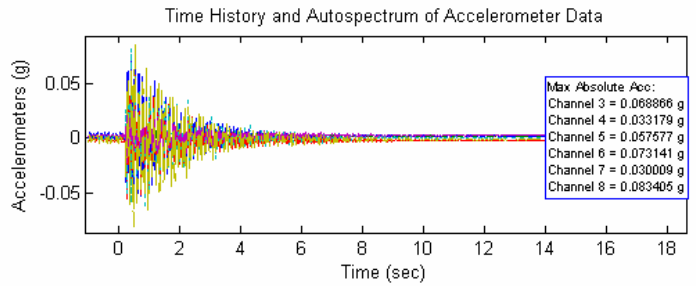
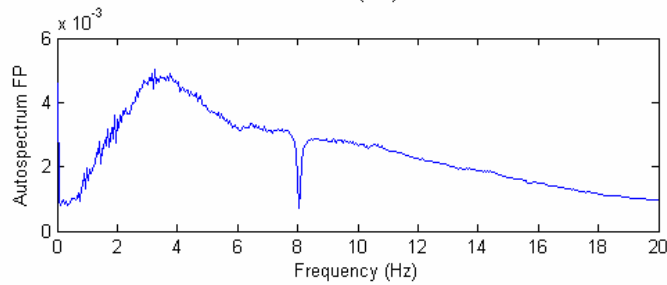
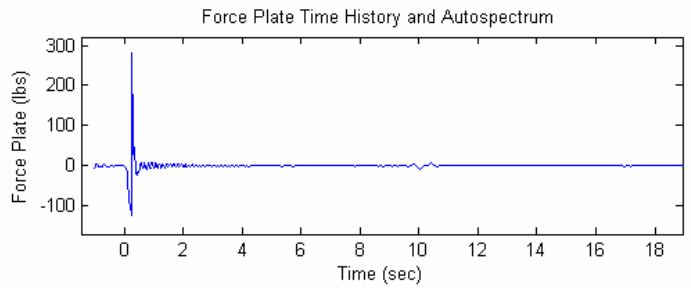
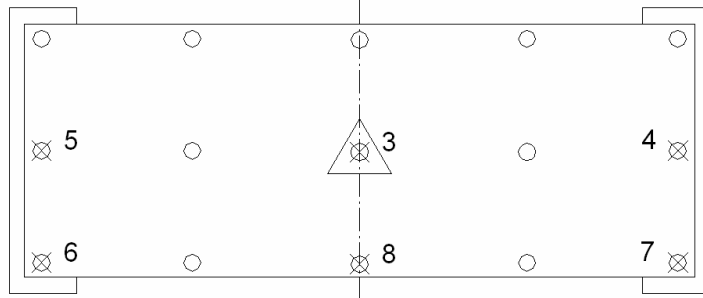
Time History and Autospectrum of Accelerometer Data

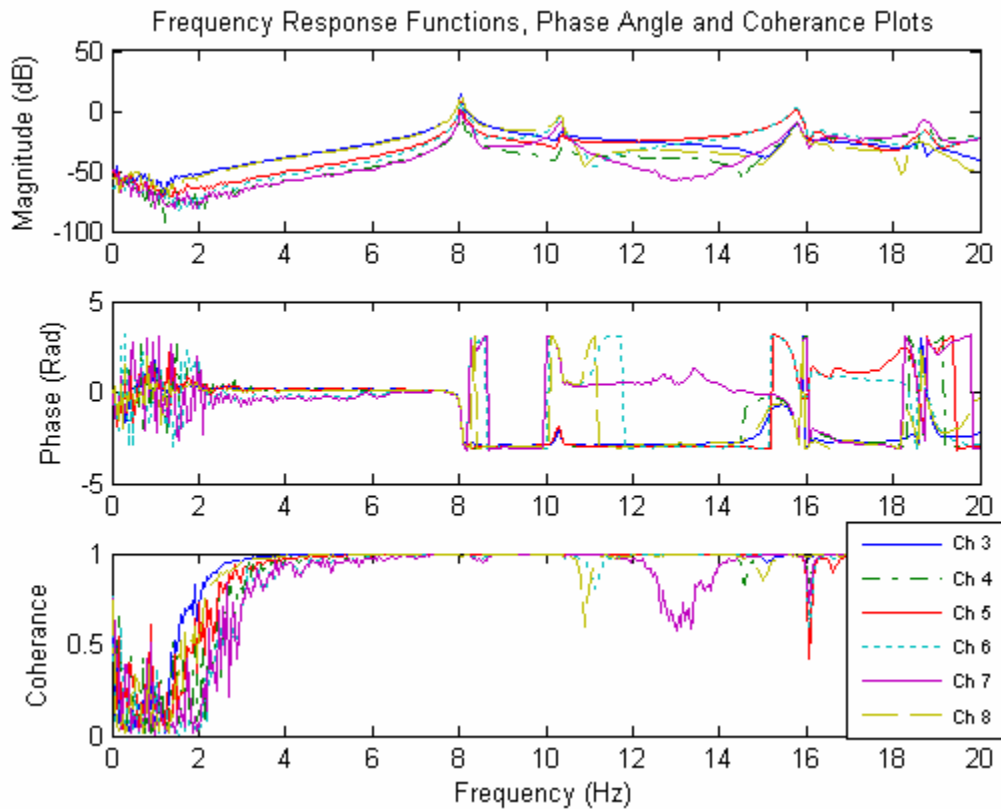
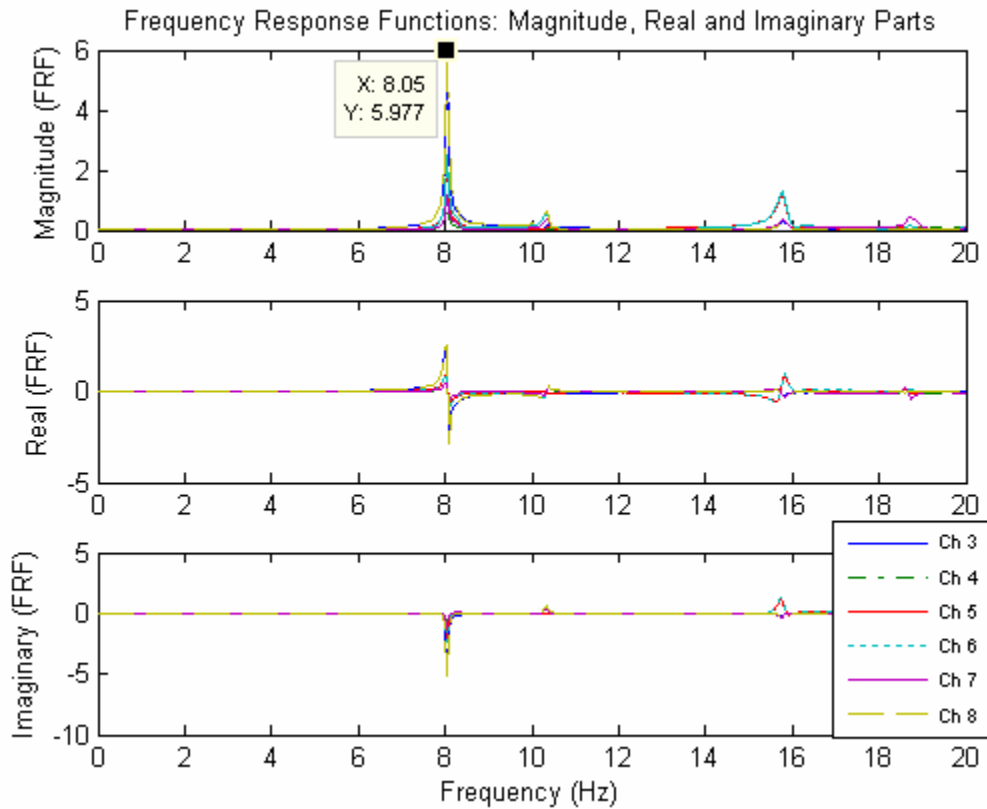




Single Span Floor- Stage 1- Bottom Chord Extensions in Place

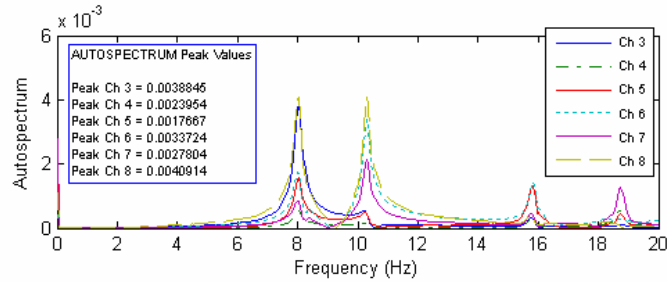
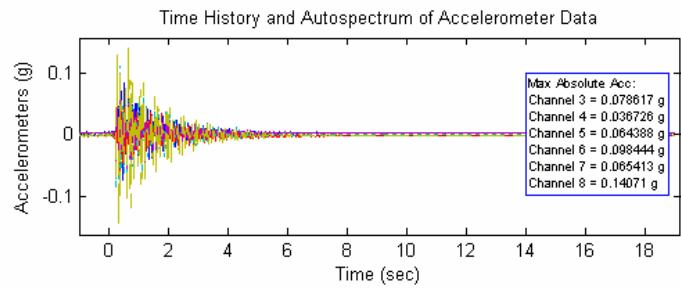
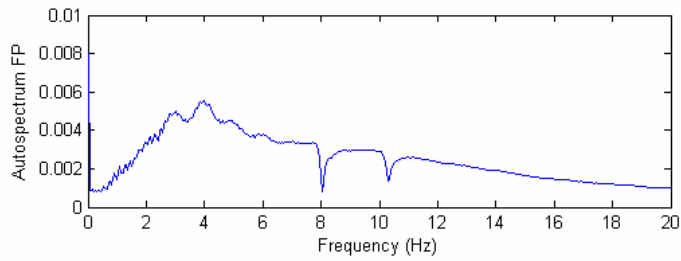
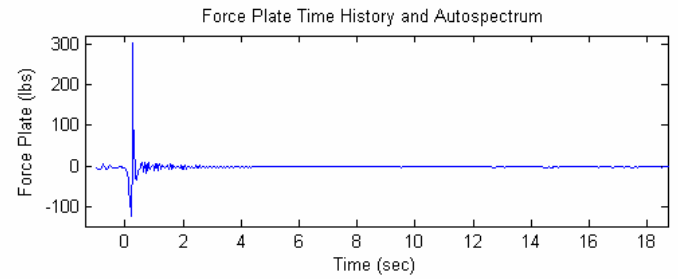
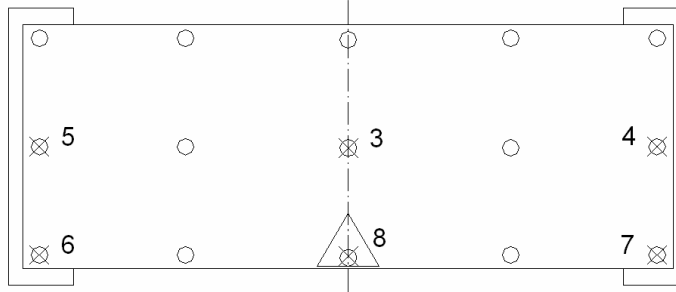
Test Date	Test No	Excitation	First Bending Mode Frequency	First Bending Mode Damping Ratio (Half power Method)	Second Bending Mode Frequency	Second Bending Mode Damping Ratio (Half power Method)	First Torsional Mode Frequency	Second Torsional Mode Frequency
3/3/2004	6	Heeldrops	fn=8.00-8.05Hz	$\beta_1 = 0.348\%$	fn=15.75-15.80Hz	$\beta_2 = 0.564\%$	10.35Hz	18.75Hz

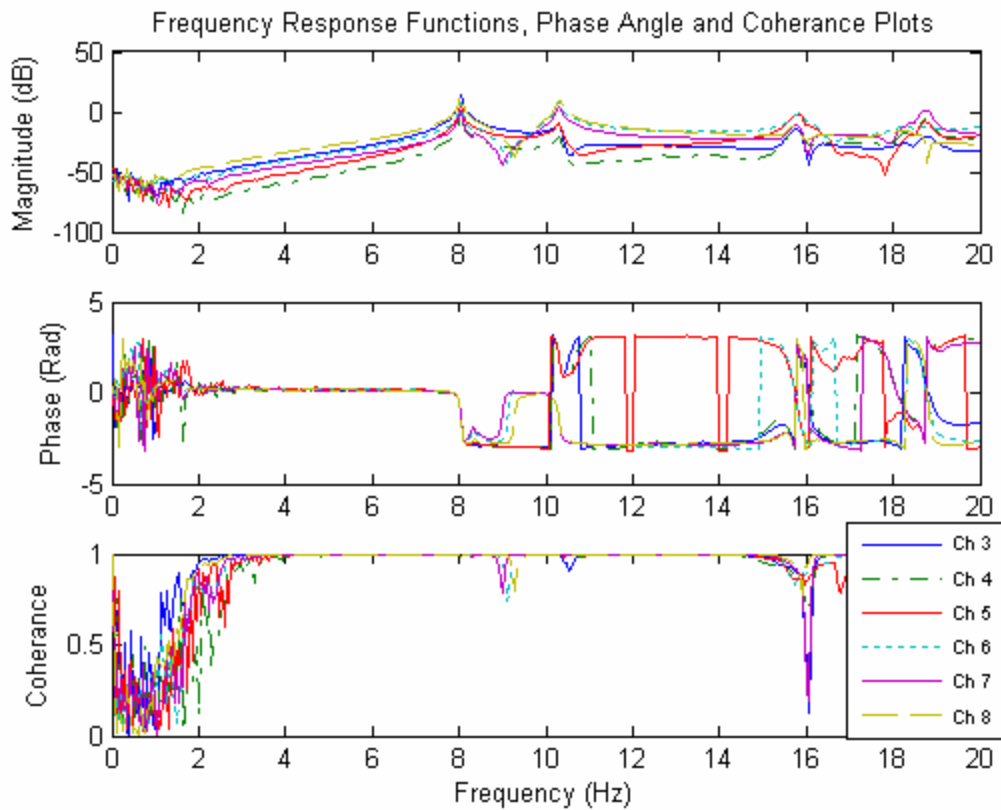
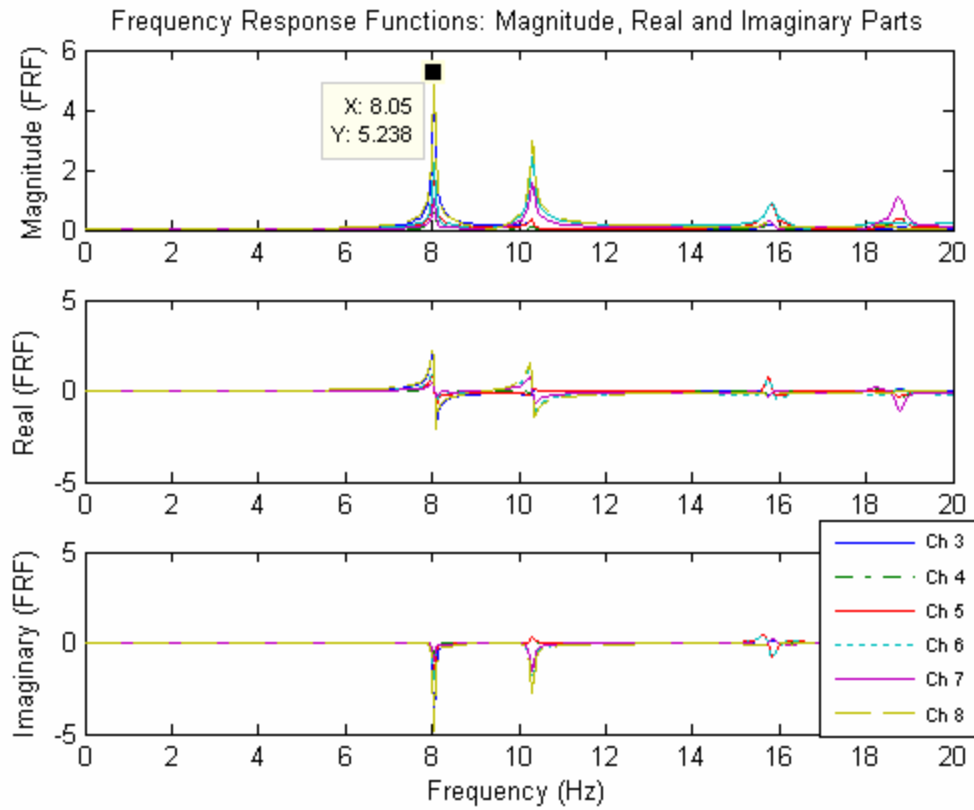




Single Span Floor- Stage 1- Bottom Chord Extensions in Place

Test Date	Test No	Excitation	First Bending Mode Frequency	First Bending Mode Damping Ratio (Half power Method)	Second Bending Mode Frequency	Second Bending Mode Damping Ratio (Half power Method)	First Torsional Mode Frequency	First Torsional Mode Damping Ratio (Half power Method)	Second Torsional Mode Frequency	Second Torsional Mode Damping Ratio (Half power Method)
3/3/2004	7	Heeldrops	fn=8.00-8.05Hz	$\beta_1 = 0.366\%$	fn=15.75-15.80Hz	$\beta_2 = 0.508\%$	10.35Hz	0.62%	18.75Hz	0.57%

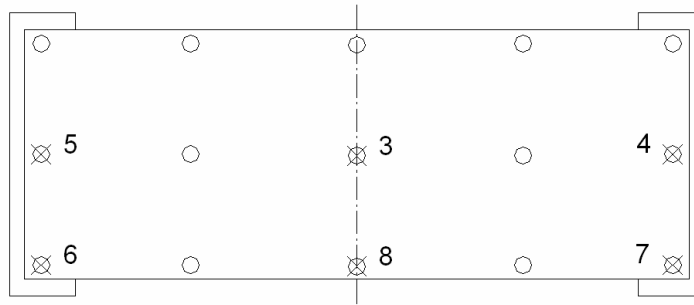




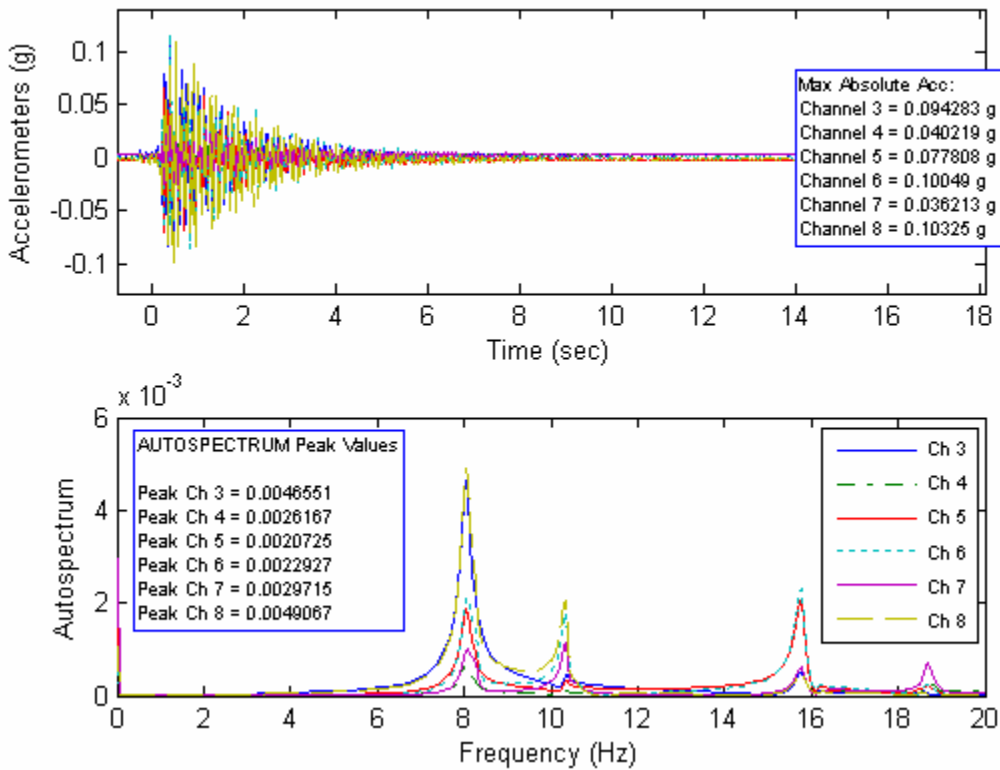
Single Span Floor- Stage 1- Bottom Chord Extensions in Place

Test Date	Test No	Excitation	First Bending Mode Frequency	First Bending Mode Damping Ratio (Half power Method)	Second Bending Mode Frequency	Second Bending Mode Damping Ratio (Half power Method)	First Torsional Mode Frequency	Second Torsional Mode Frequency
3/3/2004	8	Heeldrops	fn=8.05-8.10Hz	No Force Plate, No FRF	fn=15.75-15.80Hz	NO FRF	10.35Hz	18.75Hz

Heeldrops performed without a force plate, so there is NO transfer function for this test.



Time History and Autospectrum of Accelerometer Data

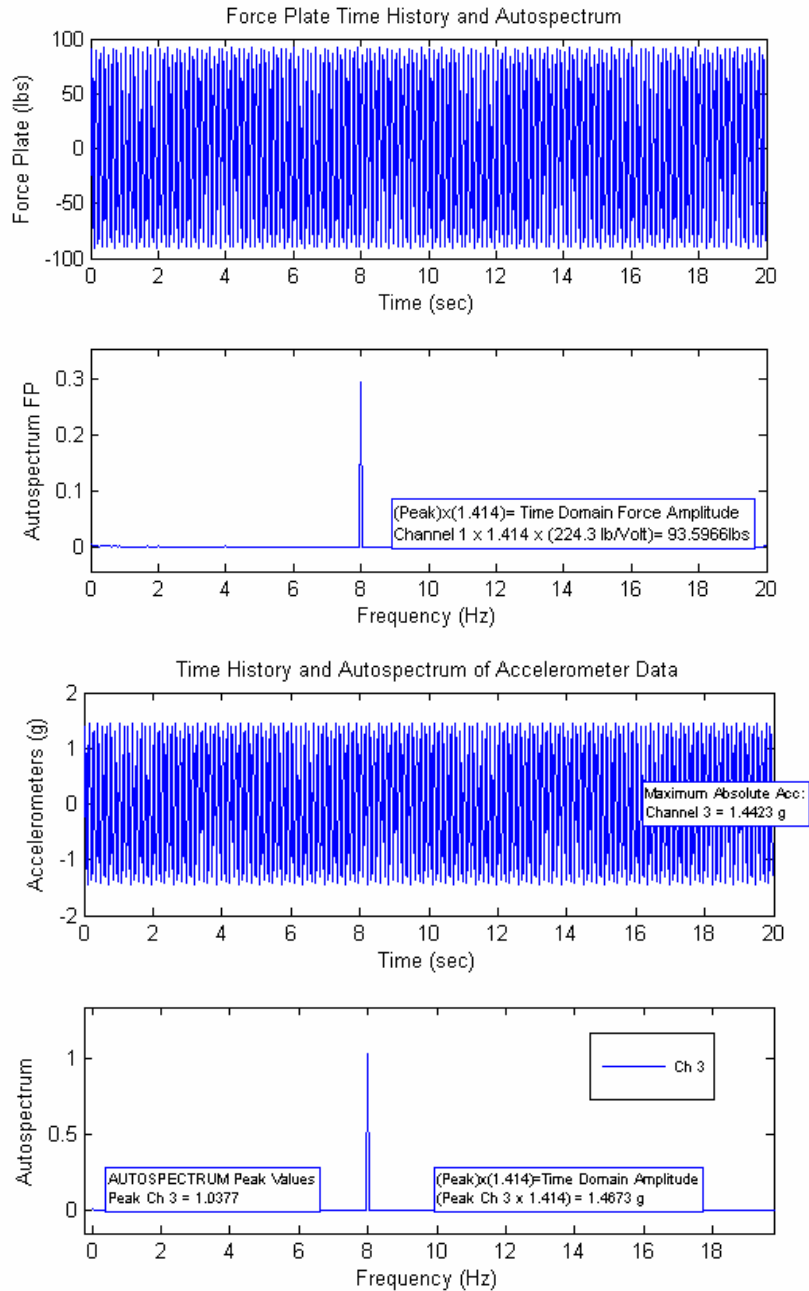


Single Span Floor- Stage 1- Bottom Chord Extensions in Place

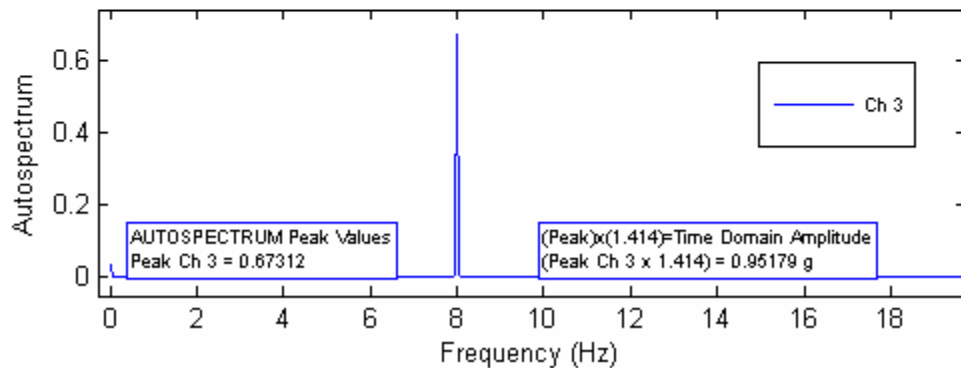
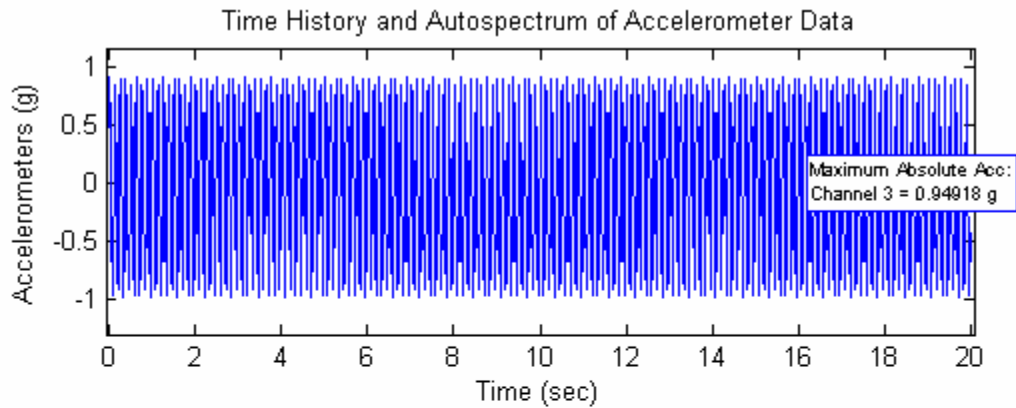
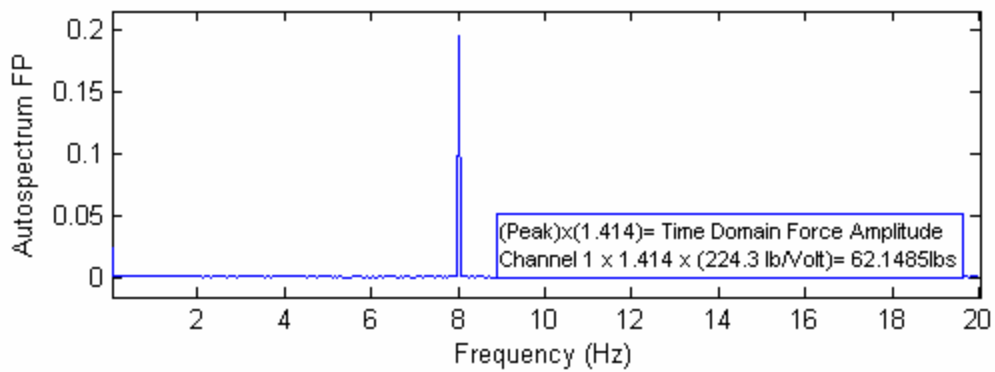
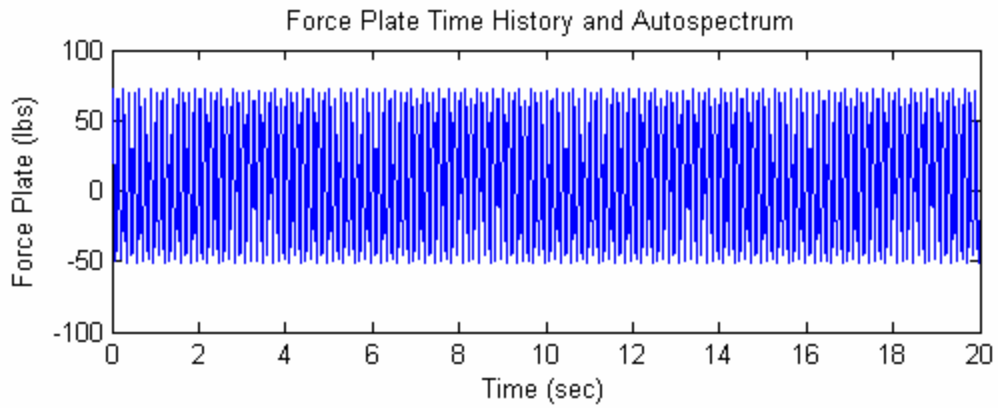
Test Date	Test No	Excitation	Force Plate Sine Wave Amplitude	Peak Autospectrum Value	Peak Autospectrum Value x 1.414	Remarks
3/10/2004	1	Sine Fnc/ Calibration of the Shaker on the Ground	0.412 Volts	0.2951 Volts	0.2951*1.4142=0.417 Volts	OK
3/10/2004	2	Sine Fnc/ Calibration of the Shaker on the Ground	(0.32+0.23)/2=0.275 Volts	0.19595 Volts	0.19595*1.4142=0.277 Volts	OK
3/10/2004	3	Sine Fnc/ Calibration of the Shaker on the Ground	(0.13+0.155)/2=0.1425 Volts	0.1014 Volts	0.1014*1.4142=0.143 Volts	OK
3/10/2004	4	Sine Fnc/ Calibration of the Shaker on the Ground	(0.41+0.405)/2=0.4075 Volts	0.295 Volts	0.2951*1.4142=0.417 Volts	OK

Tests 1-4: Calibration of the Shaker on the Ground

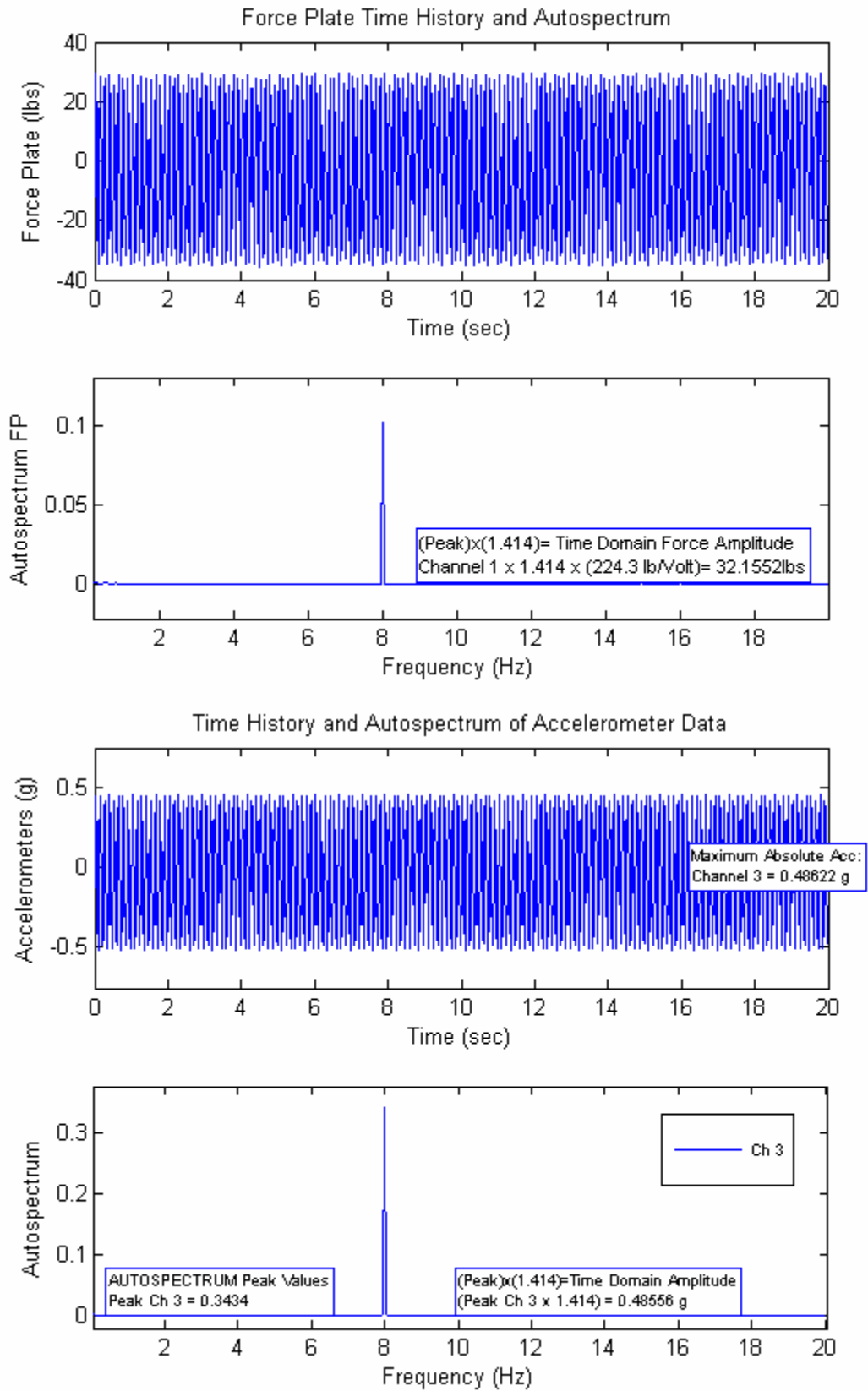
Calibration 1



Calibration 2

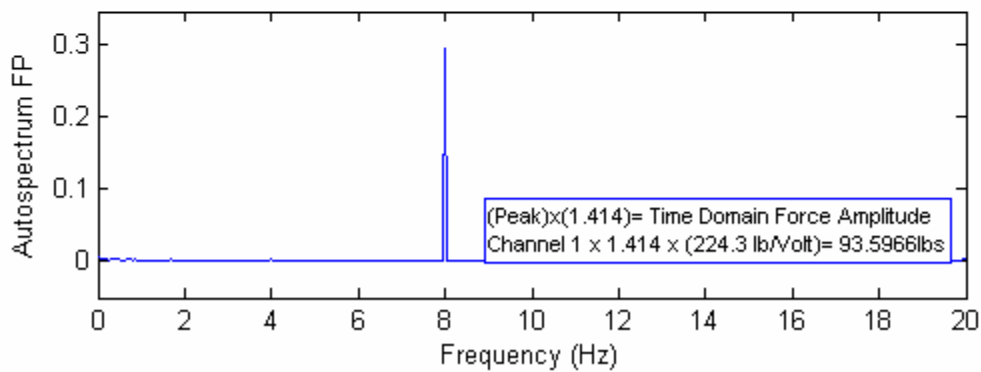
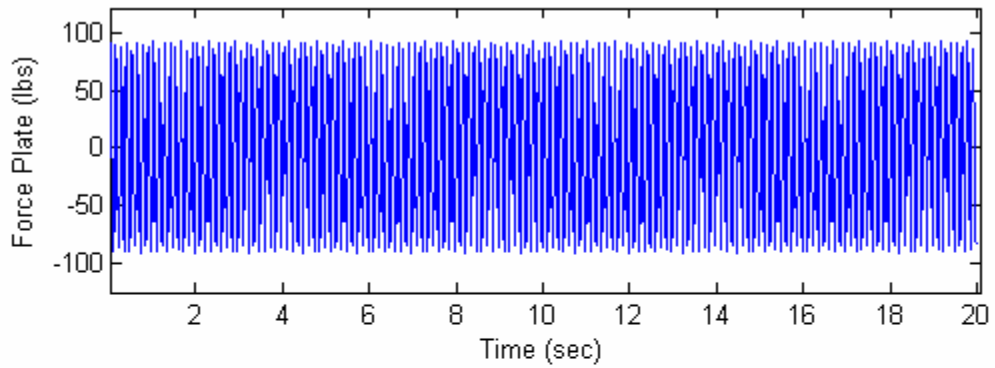


Calibration 3

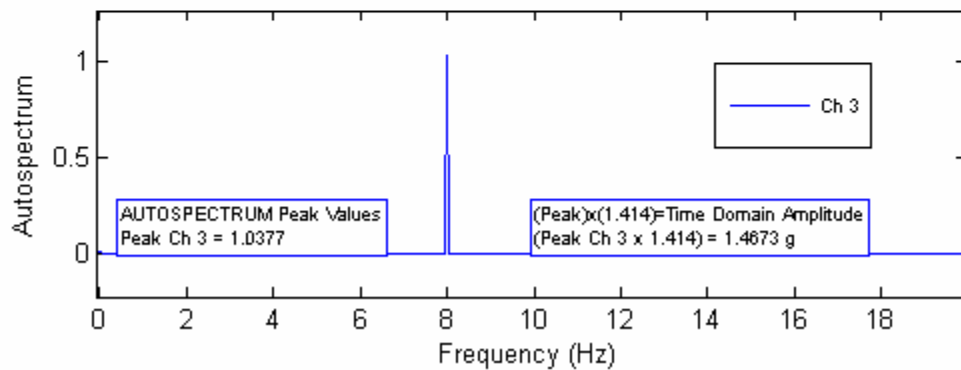
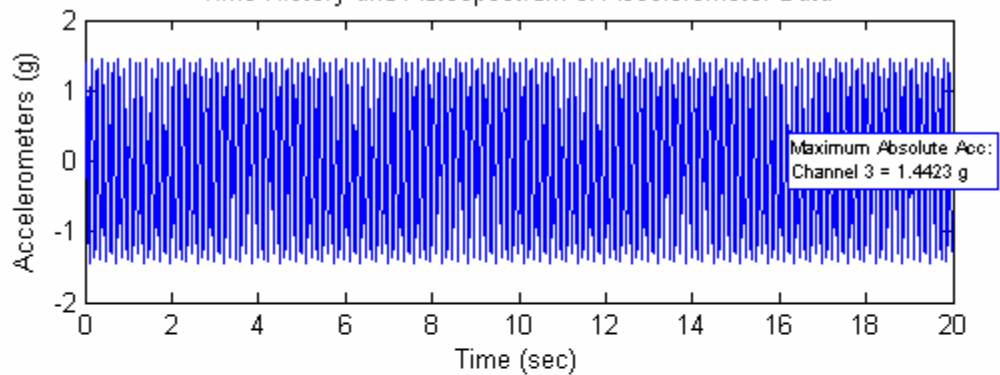


Calibration 4

Force Plate Time History and Autospectrum

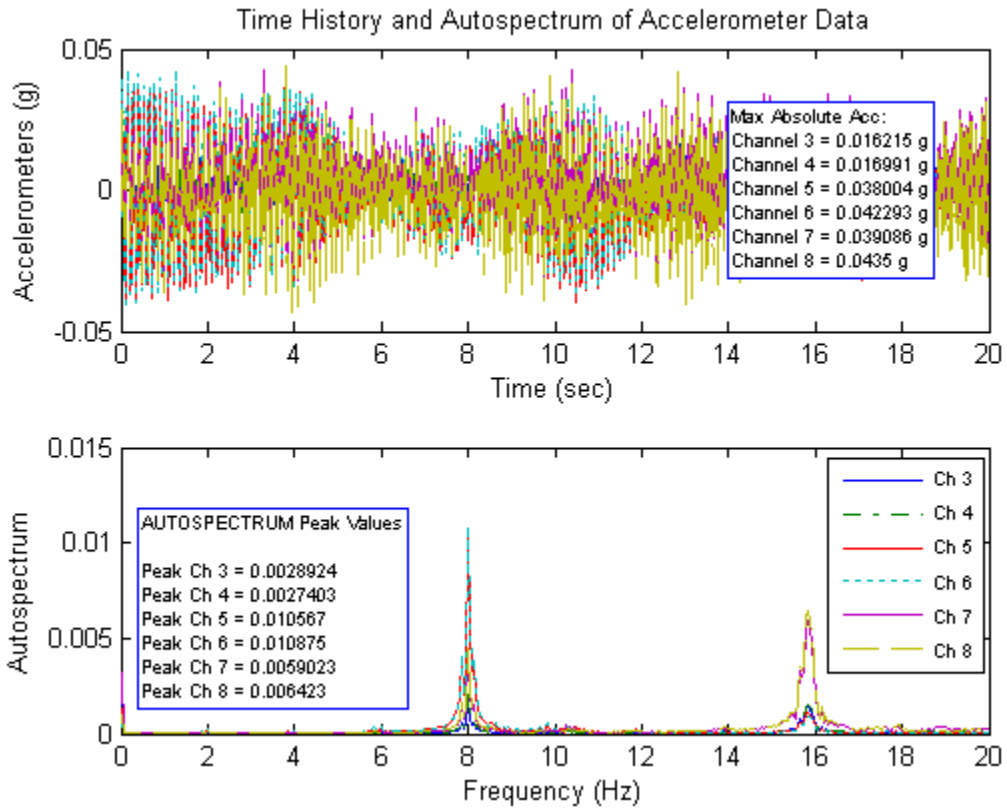
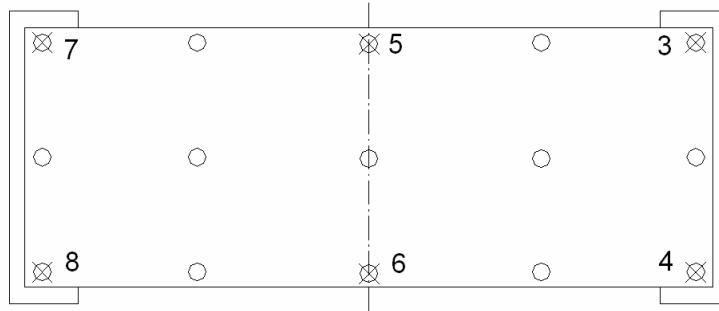


Time History and Autospectrum of Accelerometer Data



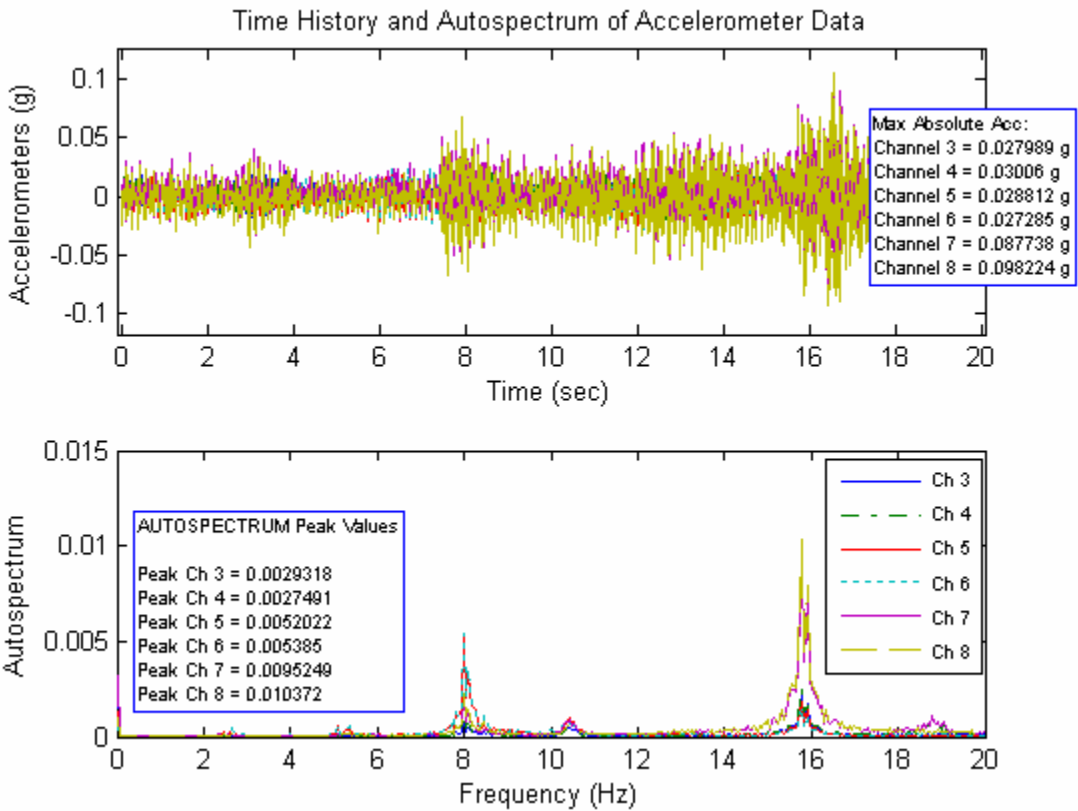
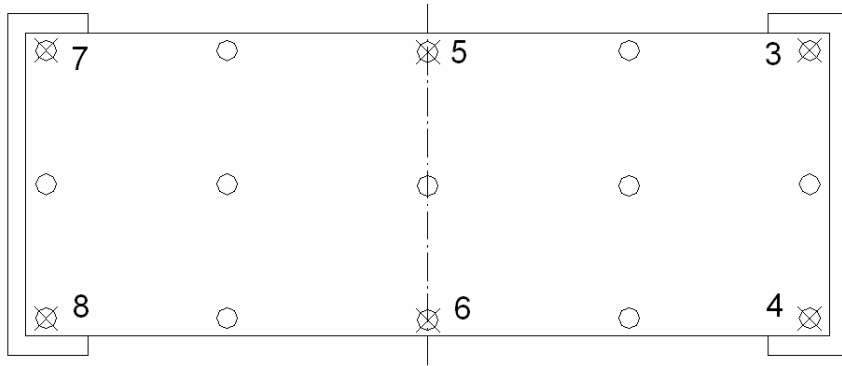
Single Span Floor- Stage 1- Bottom Chord Extensions in Place

Test Date	Test No	Excitation	Weight of the Pedestrian
3/10/2004	5	One Pedestrian Walking @ 2 Hz (120 BPM)	162 lbs



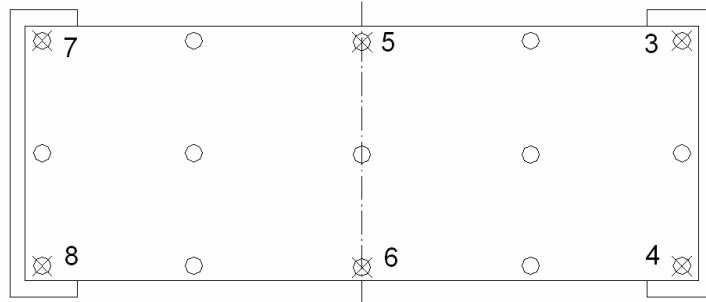
Single Span Floor- Stage 1- Bottom Chord Extensions in Place

Test Date	Test No	Excitation	Weight of the Pedestrian
3/10/2004	6	One Pedestrian Walking @ 2.67 Hz (160 BPM)	162 lbs

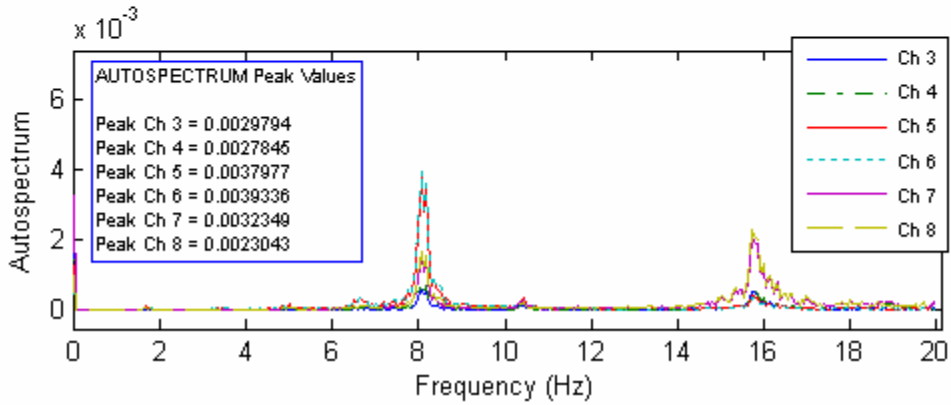
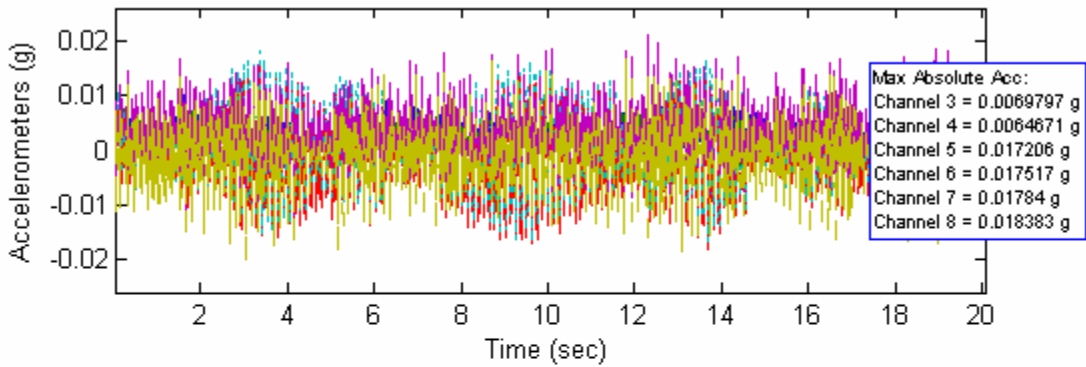


Single Span Floor- Stage 1- Bottom Chord Extensions in Place

Test Date	Test No	Excitation	Weight of the Pedestrian
3/10/2004	7	One Pedestrian Walking @ 1.70 Hz (100 BPM)	162 lbs

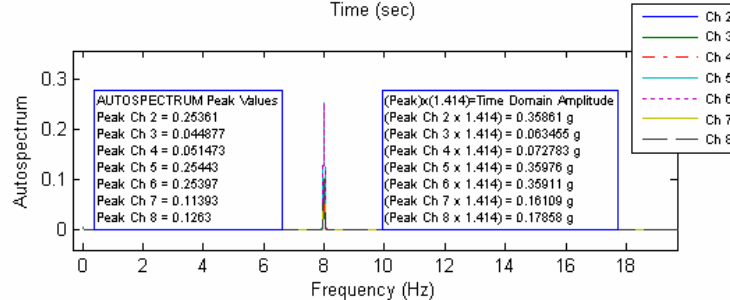
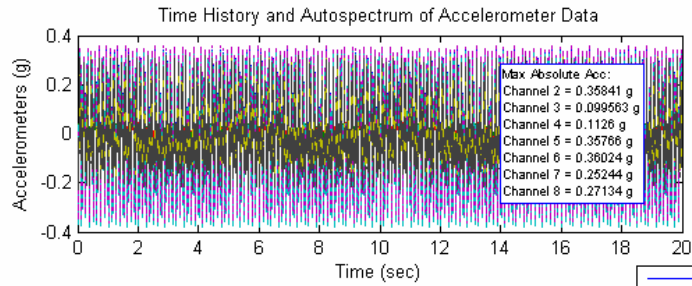
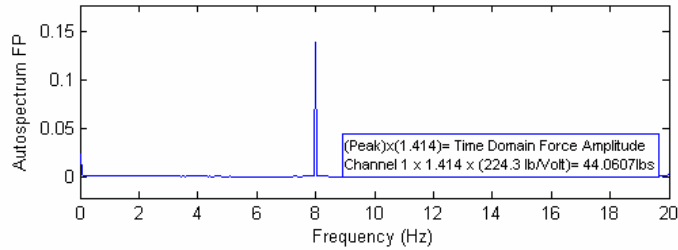
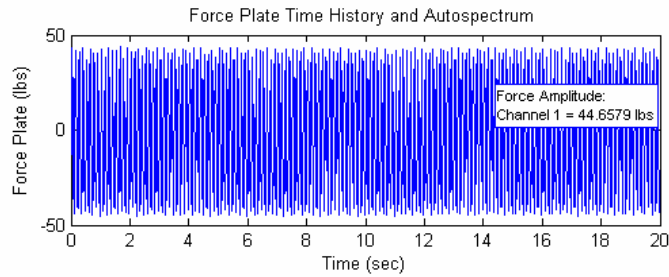
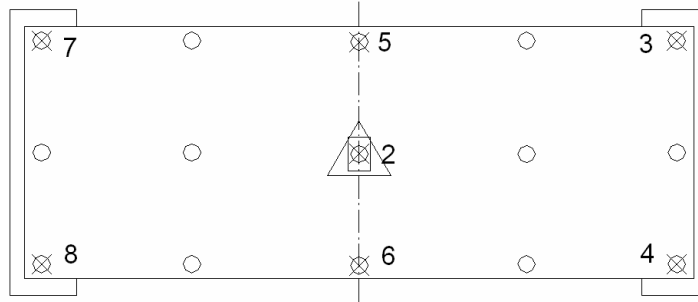


Time History and Autospectrum of Accelerometer Data



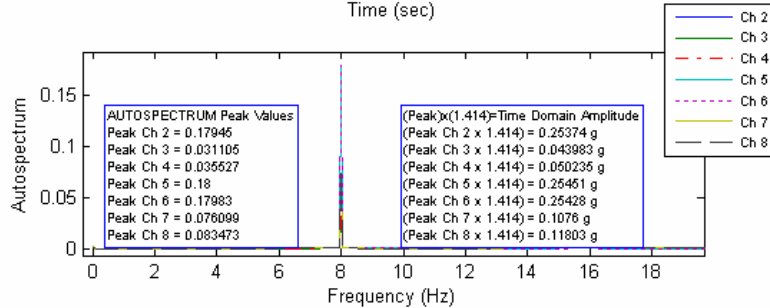
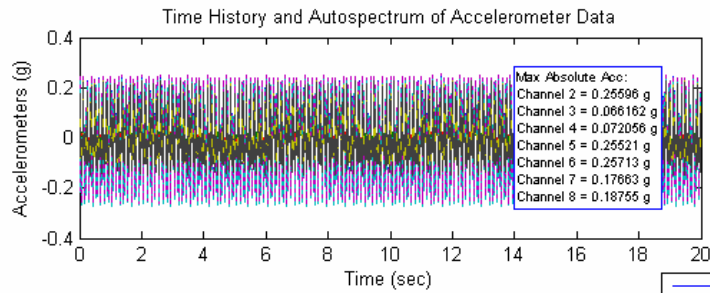
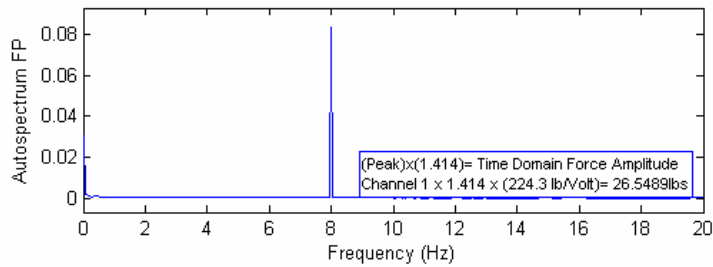
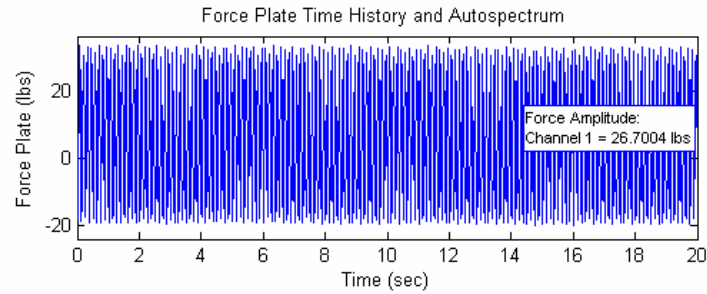
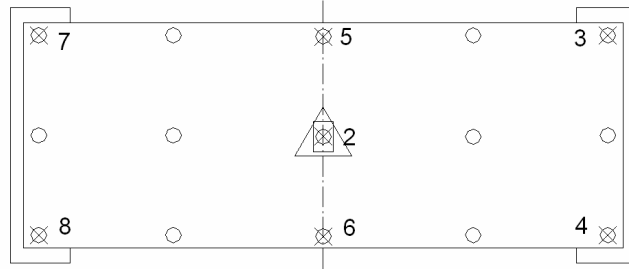
Single Span Floor- Stage 1- Bottom Chord Extensions in Place

Test Date	Test No	Excitation
3/10/2004	8	Sine Wave @ 8.00 Hz



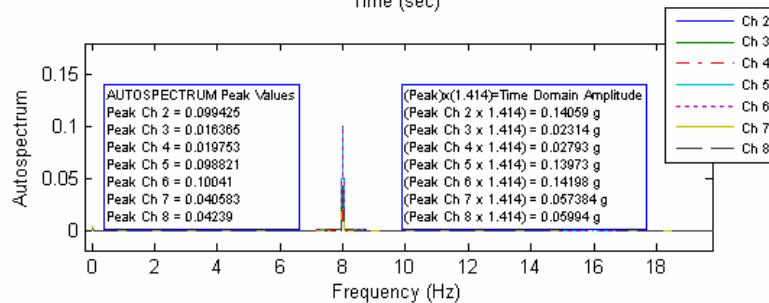
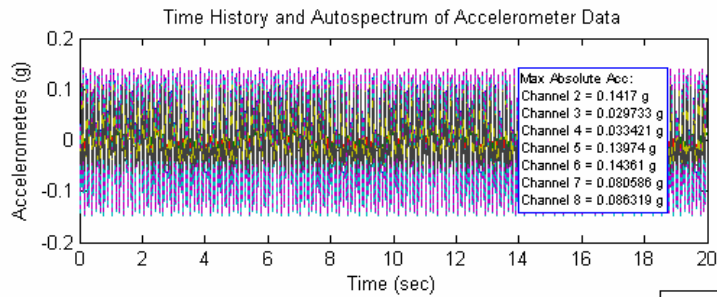
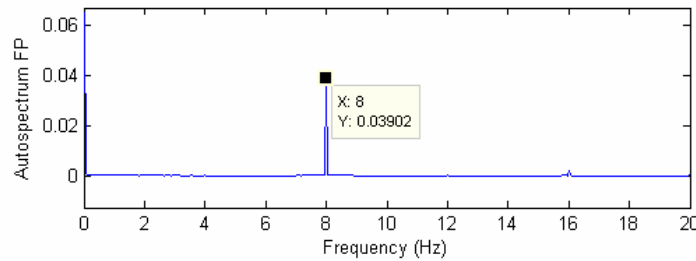
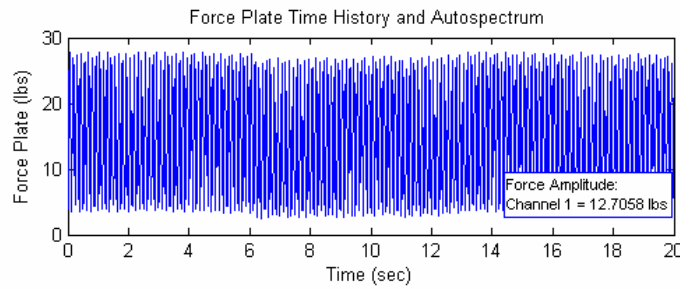
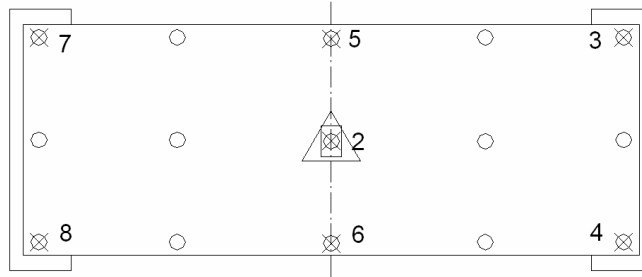
Single Span Floor- Stage 1- Bottom Chord Extensions in Place

Test Date	Test No	Excitation
3/10/2004	9	Sine Wave @ 8.00 Hz



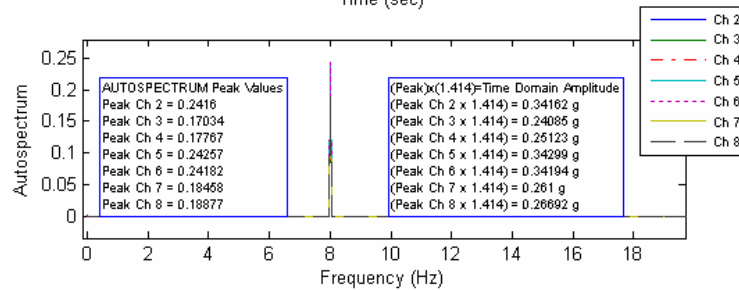
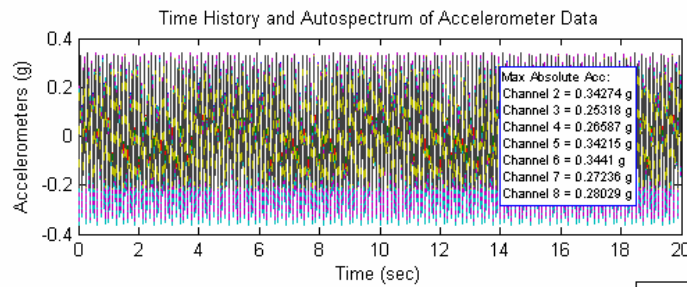
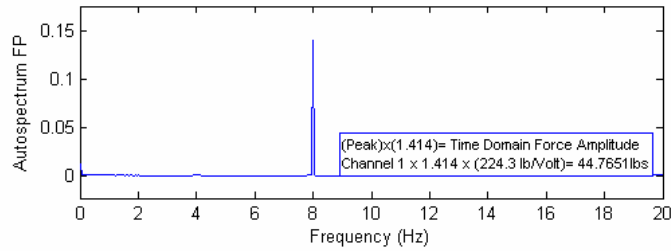
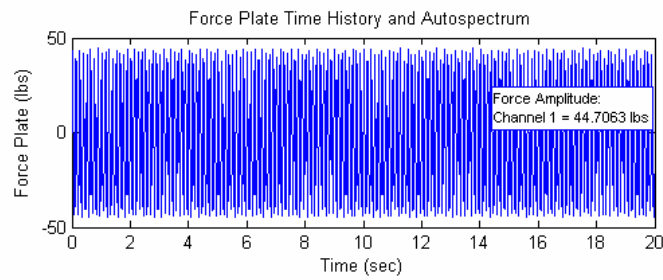
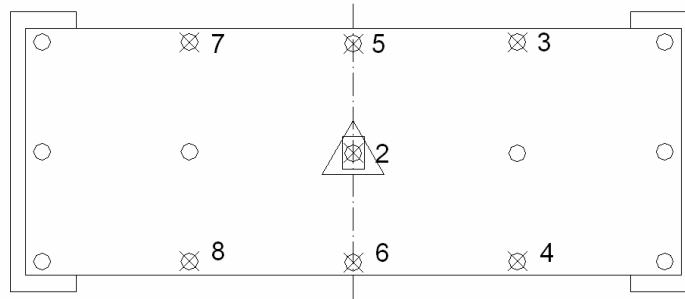
Single Span Floor- Stage 1- Bottom Chord Extensions in Place

Test Date	Test No	Excitation
3/10/2004	10	Sine Wave @ 8.00 Hz



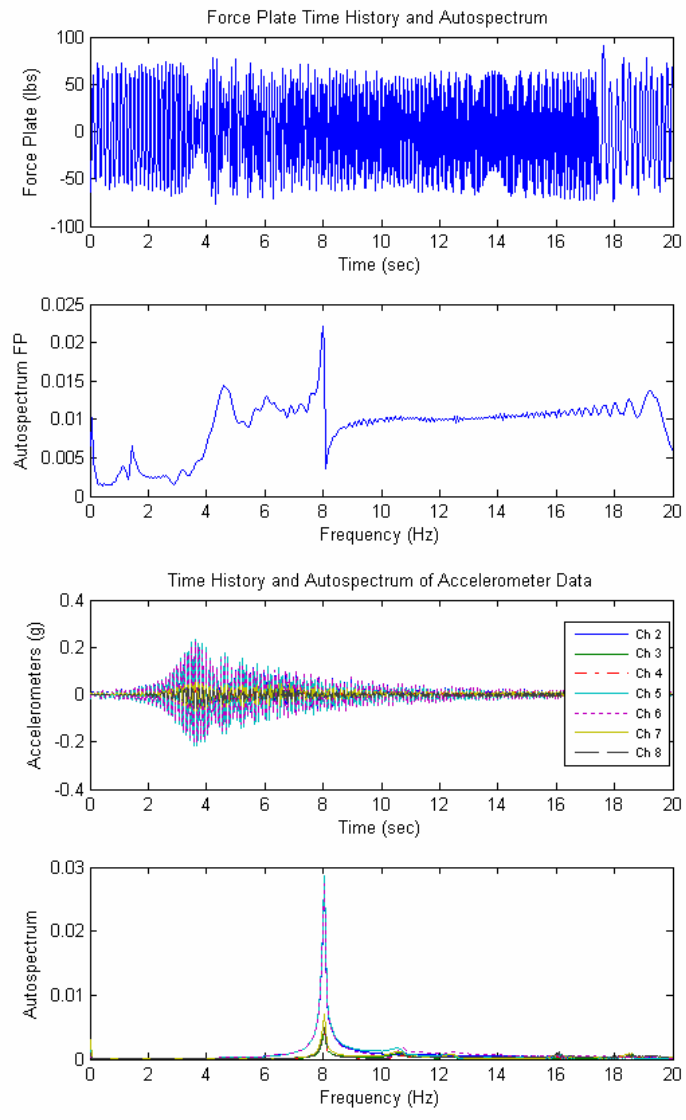
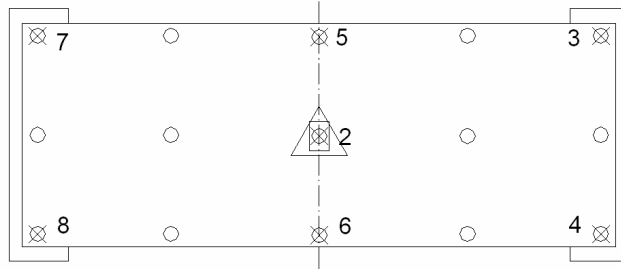
Single Span Floor- Stage 1- Bottom Chord Extensions in Place

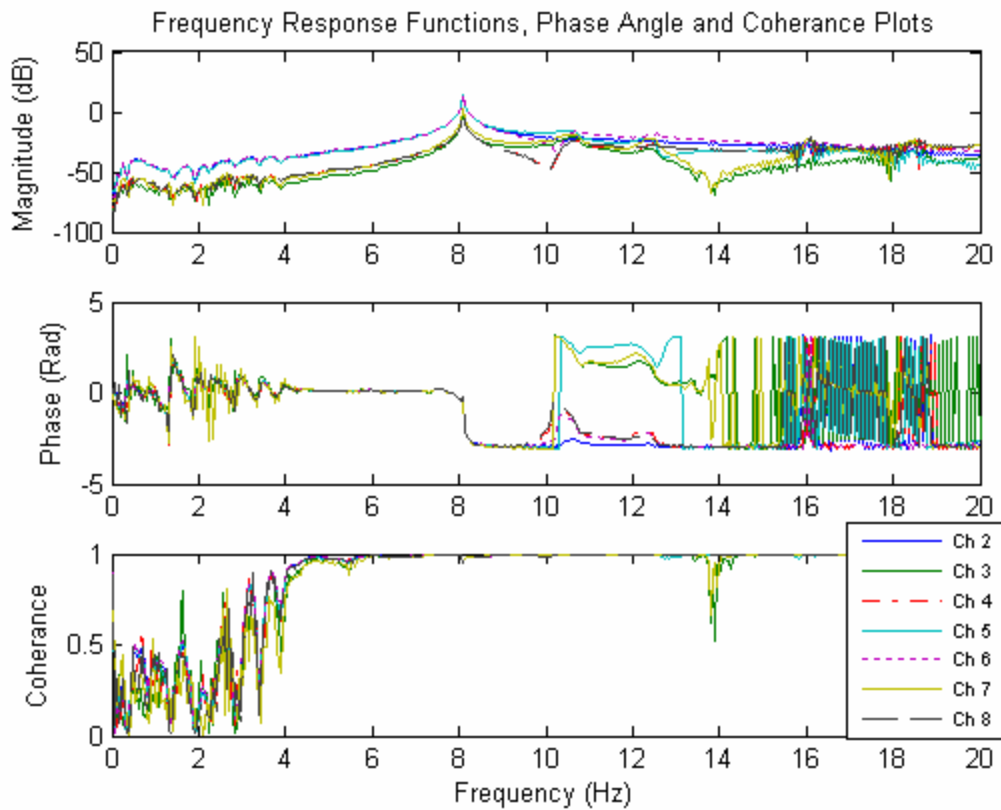
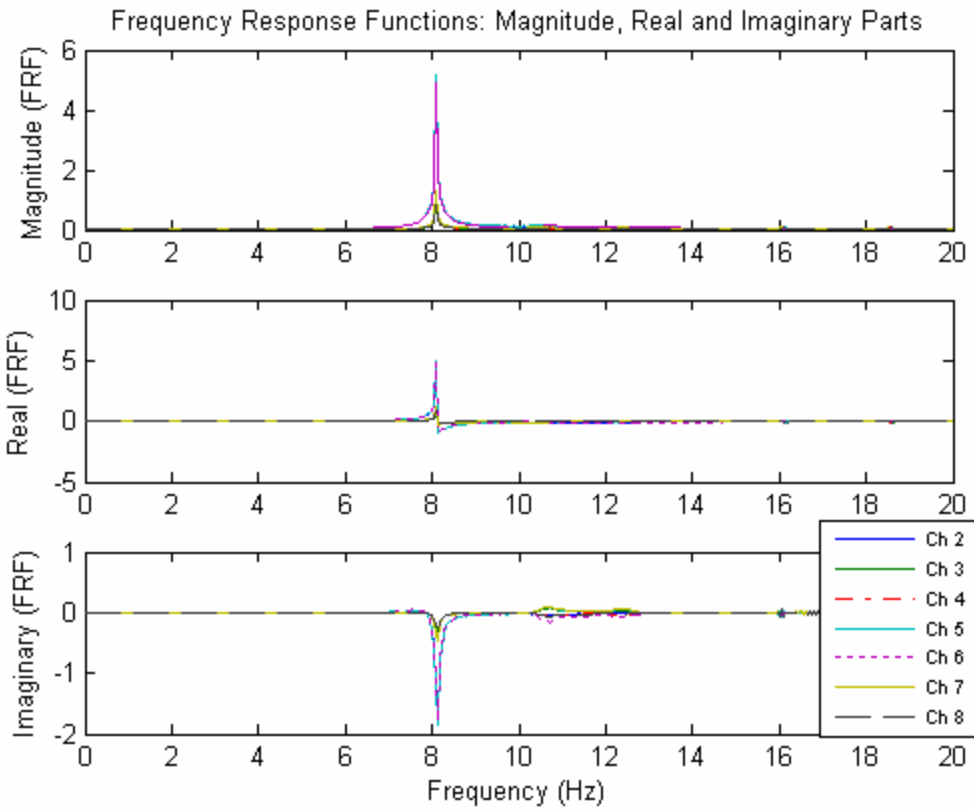
Test Date	Test No	Excitation
3/10/2004	11	Sine Wave @ 8.00 Hz



Single Span Floor- Stage 1- Bottom Chord Extensions in Place

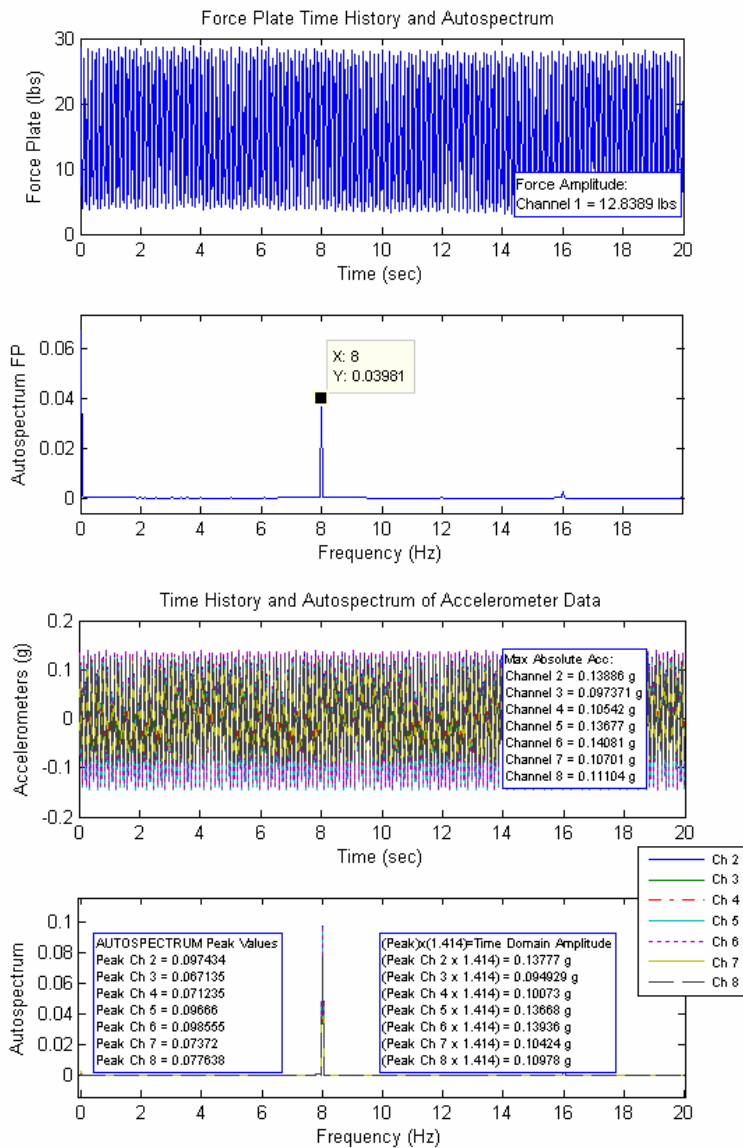
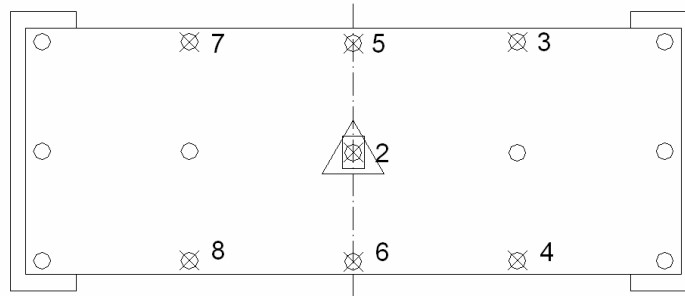
Test Date	Test No	Excitation	First Bending Mode Frequency	First Bending Mode Damping Ratio (Half power Method)
3/10/2004	12	Chirp	fn=8.10Hz	$\beta_1 = 0.277\%$





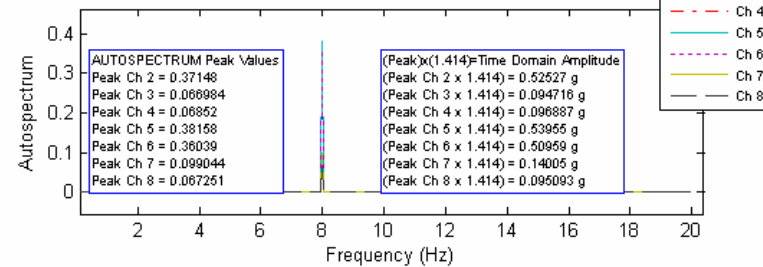
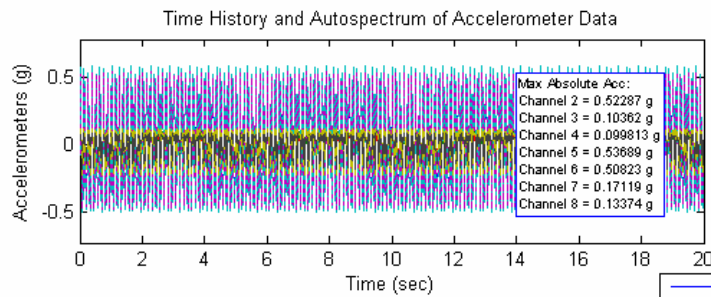
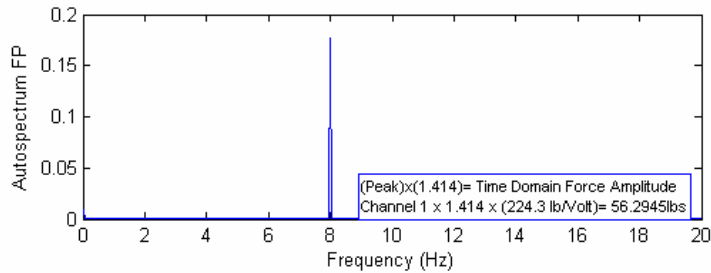
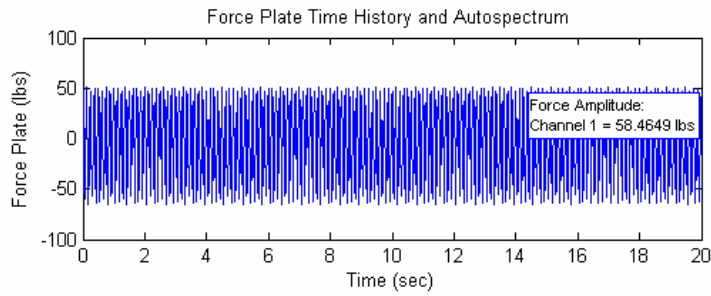
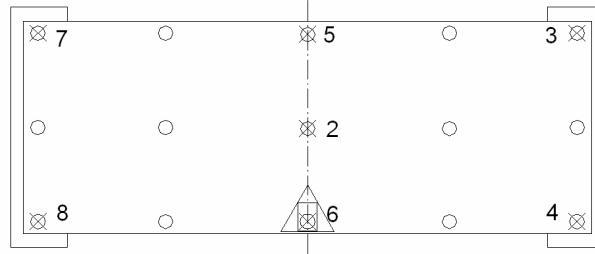
Single Span Floor- Stage 1- Bottom Chord Extensions in Place

Test Date	Test No	Excitation
3/10/2004	13	Sine Wave @ 8.00 Hz



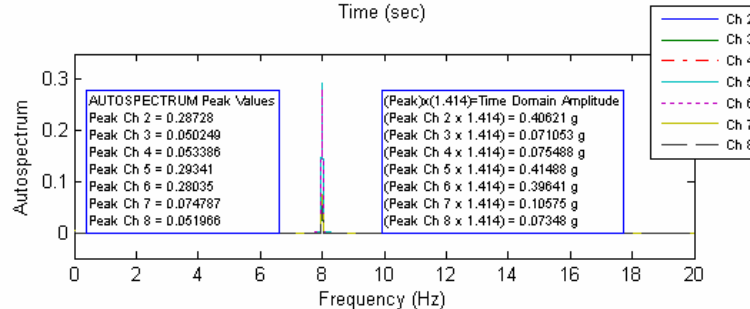
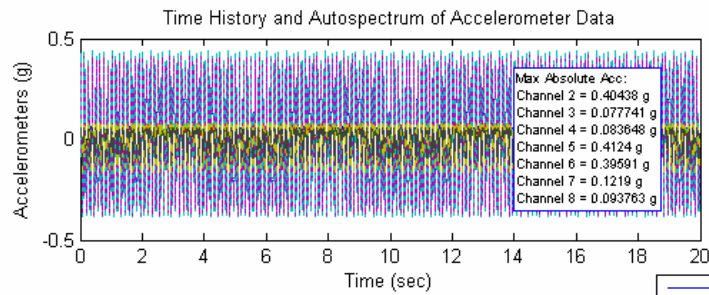
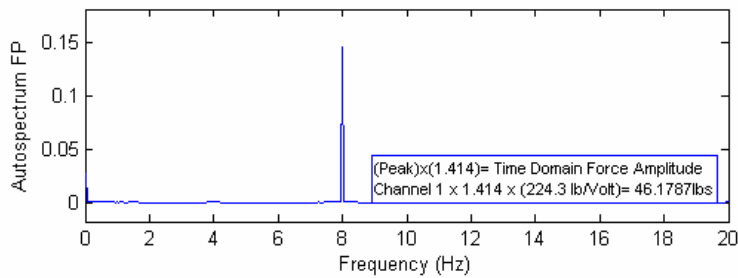
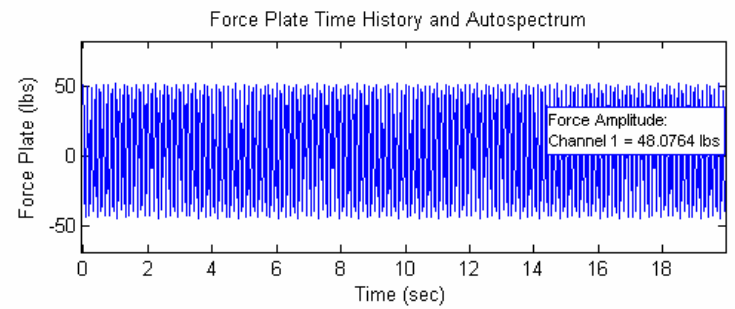
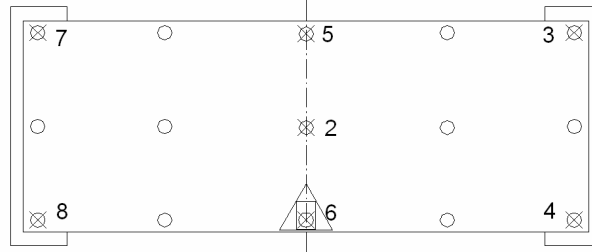
Single Span Floor- Stage 1- Bottom Chord Extensions in Place

Test Date	Test No	Excitation
3/10/2004	14	Sine Wave @ 8.00 Hz



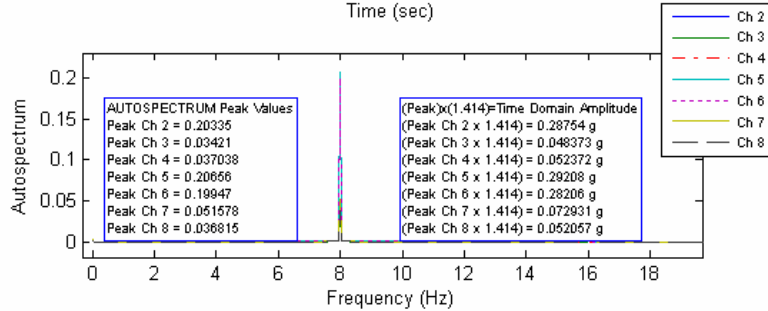
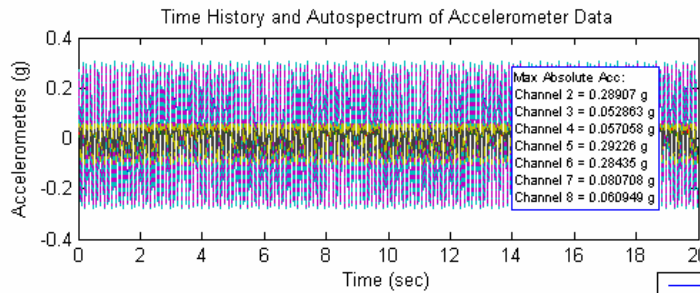
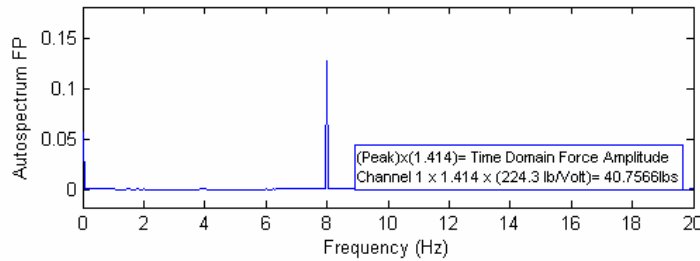
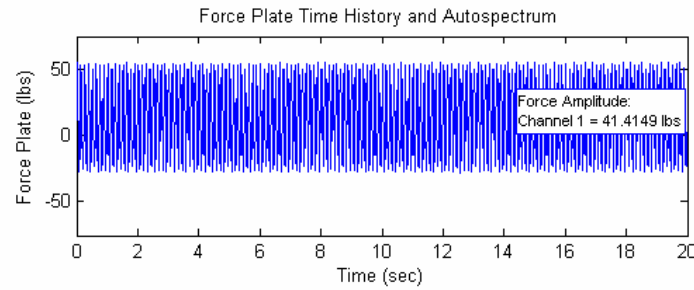
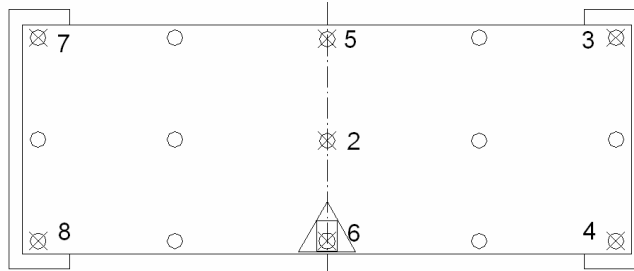
Single Span Floor- Stage 1- Bottom Chord Extensions in Place

Test Date	Test No	Excitation
3/10/2004	15	Sine Wave @ 8.00 Hz



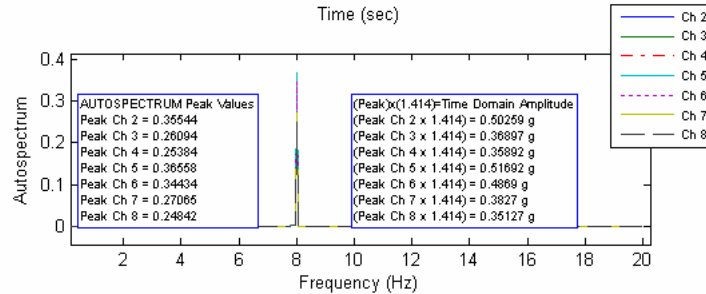
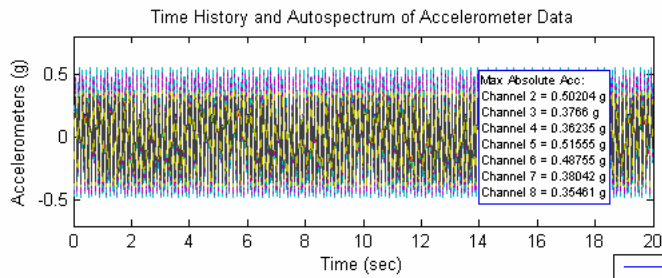
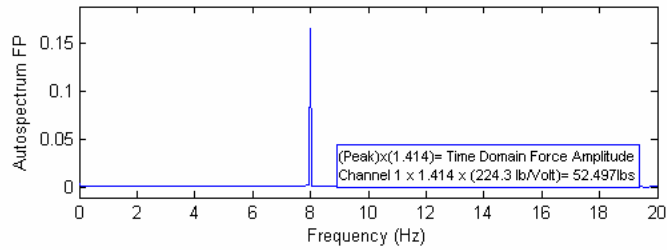
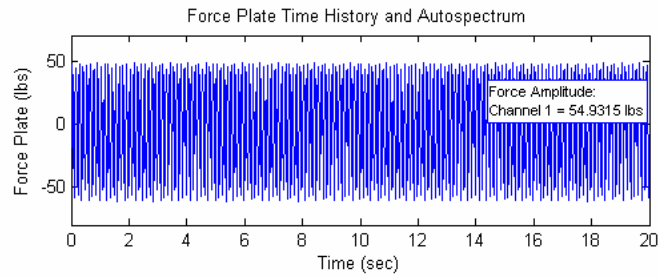
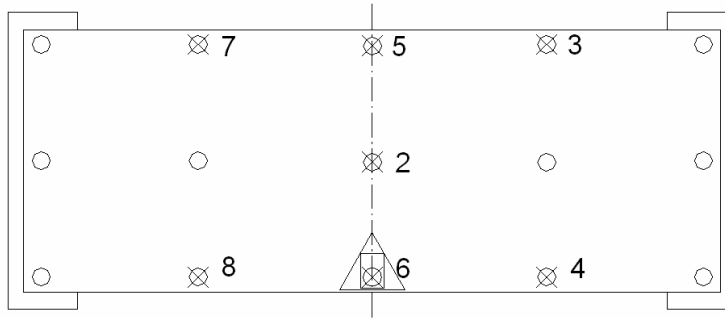
Single Span Floor- Stage 1- Bottom Chord Extensions in Place

Test Date	Test No	Excitation
3/10/2004	16	Sine Wave @ 8.00 Hz



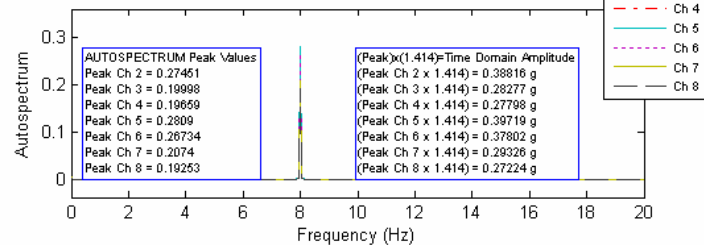
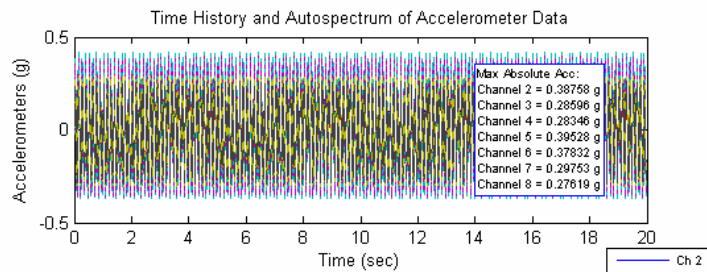
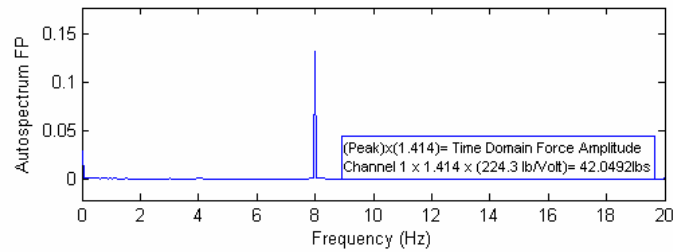
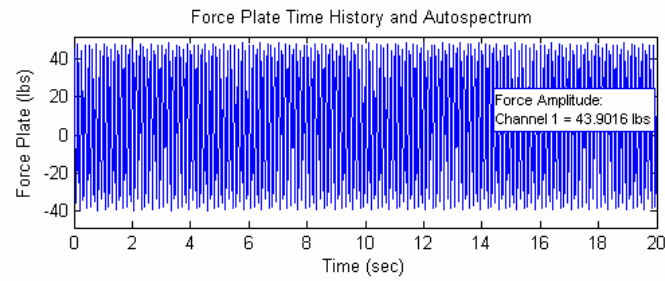
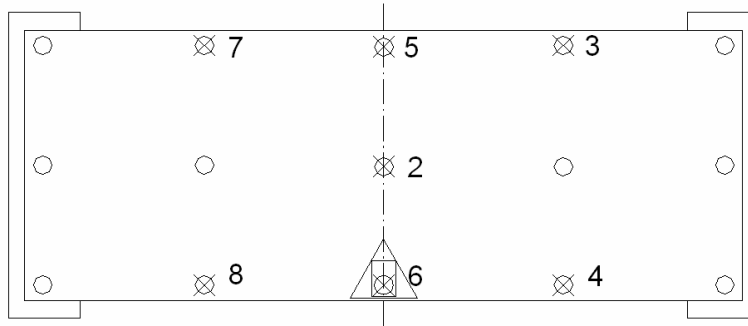
Single Span Floor- Stage 1- Bottom Chord Extensions in Place

Test Date	Test No	Excitation
3/10/2004	17	Sine Wave @ 8.00 Hz



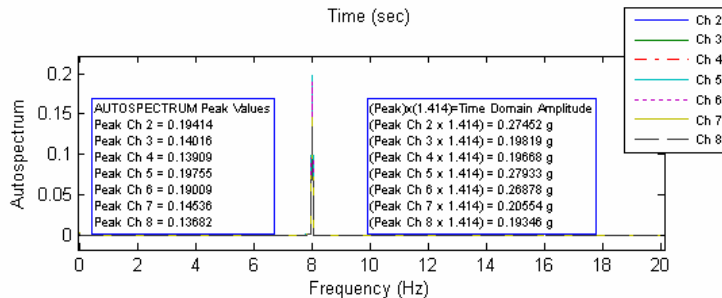
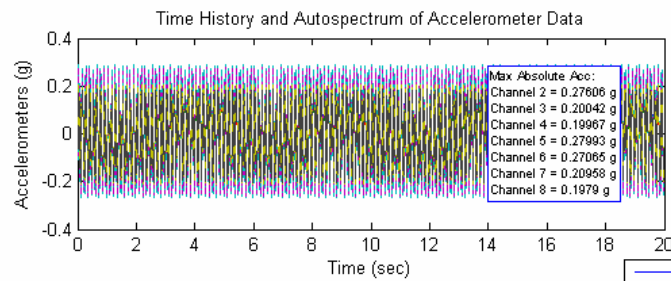
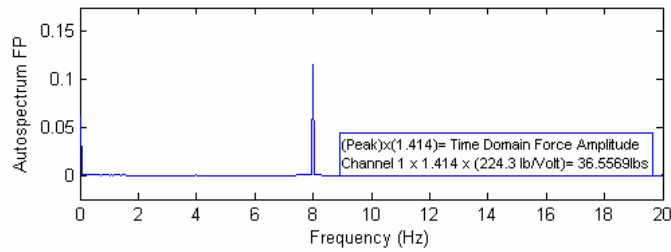
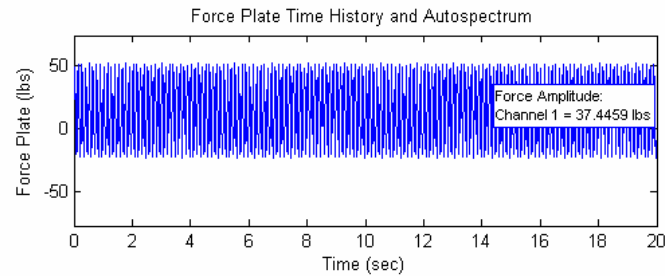
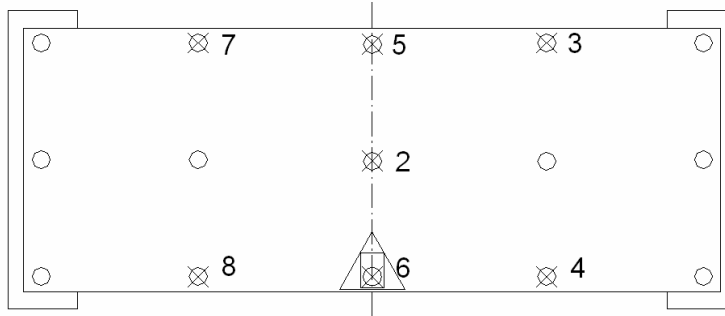
Single Span Floor- Stage 1- Bottom Chord Extensions in Place

Test Date	Test No	Excitation
3/10/2004	18	Sine Wave @ 8.00 Hz



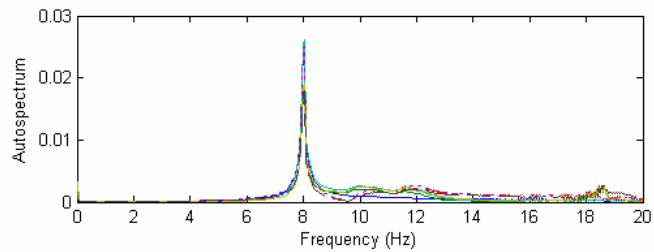
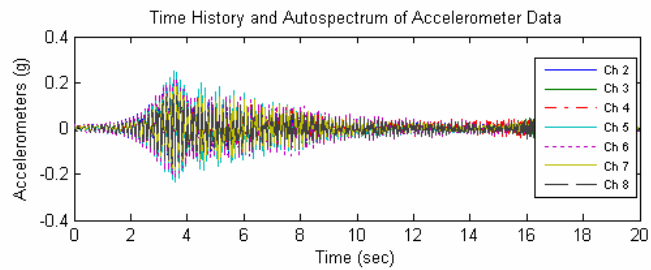
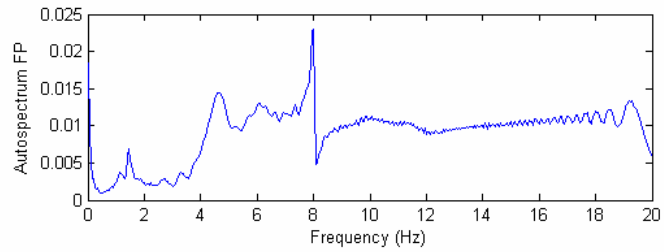
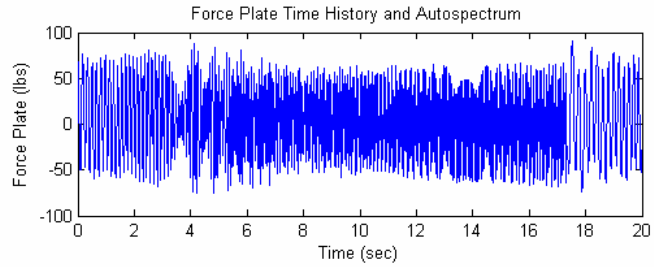
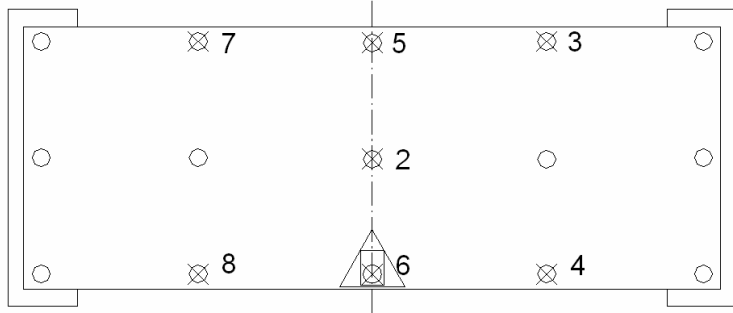
Single Span Floor- Stage 1- Bottom Chord Extensions in Place

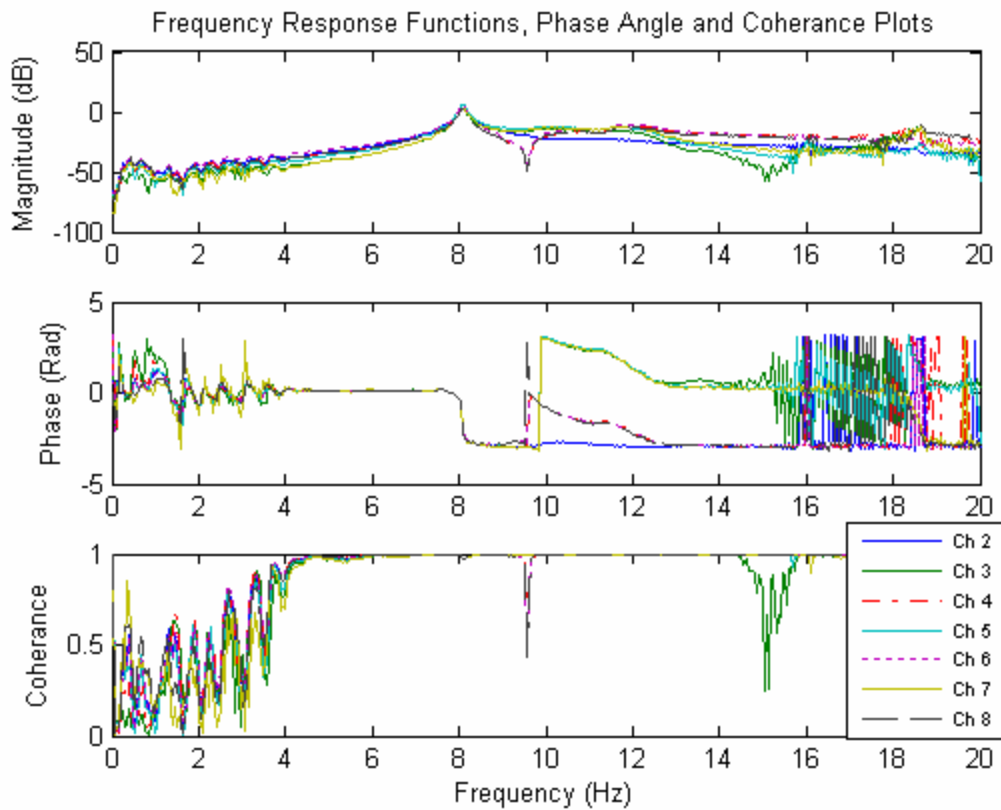
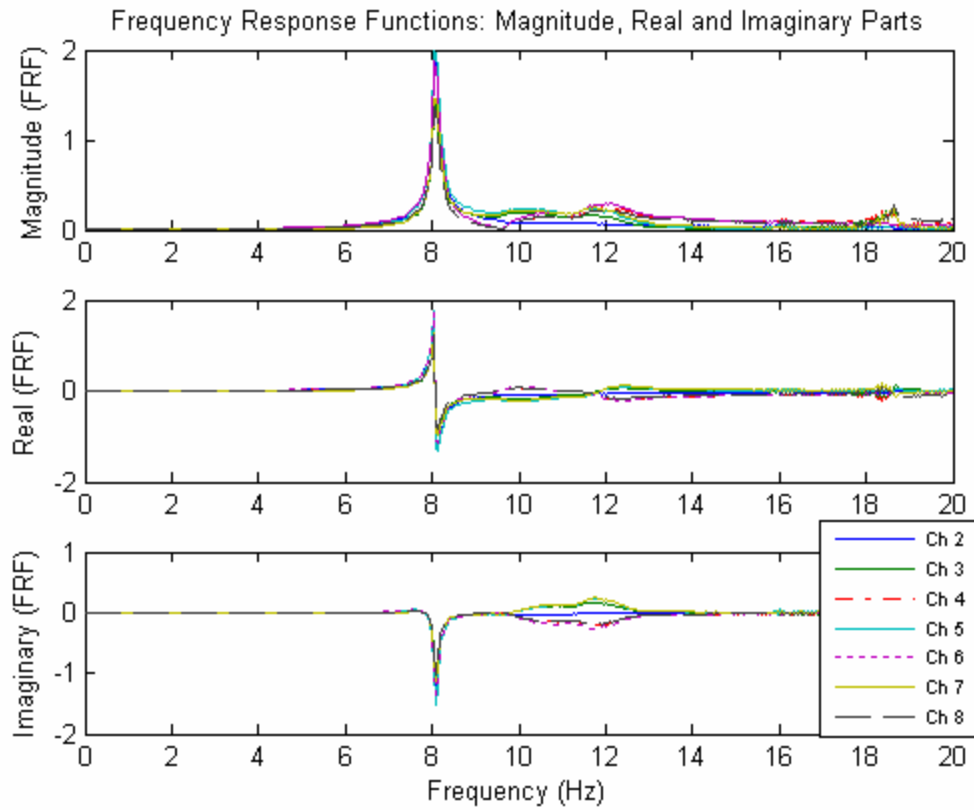
Test Date	Test No	Excitation
3/10/2004	19	Sine Wave @ 8.00 Hz



Single Span Floor- Stage 1- Bottom Chord Extensions in Place

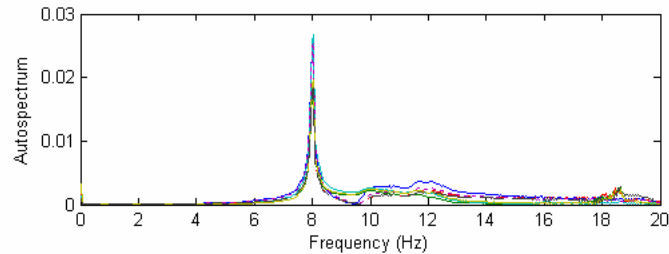
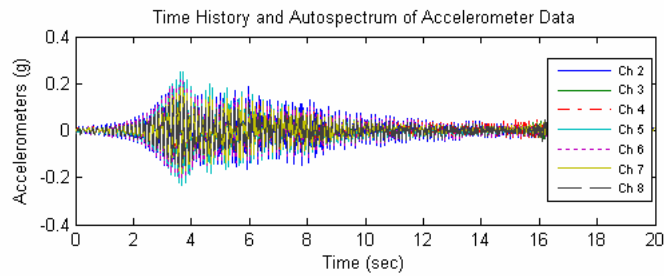
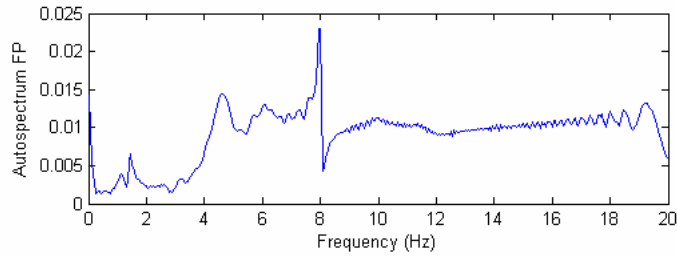
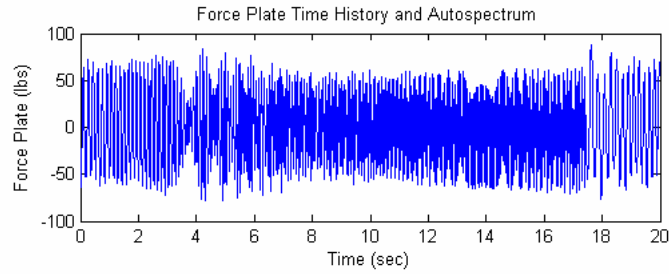
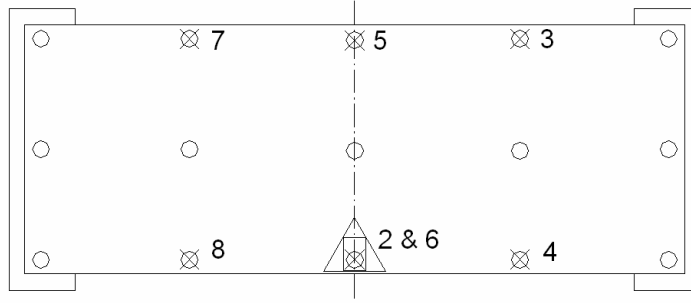
Test Date	Test No	Excitation	First Bending Mode Frequency	First Bending Mode Damping Ratio (Half power Method)
3/10/2004	20	Chirp for Torsion	fn=8.05-8.10Hz	$\beta_1 = 0.63\%$

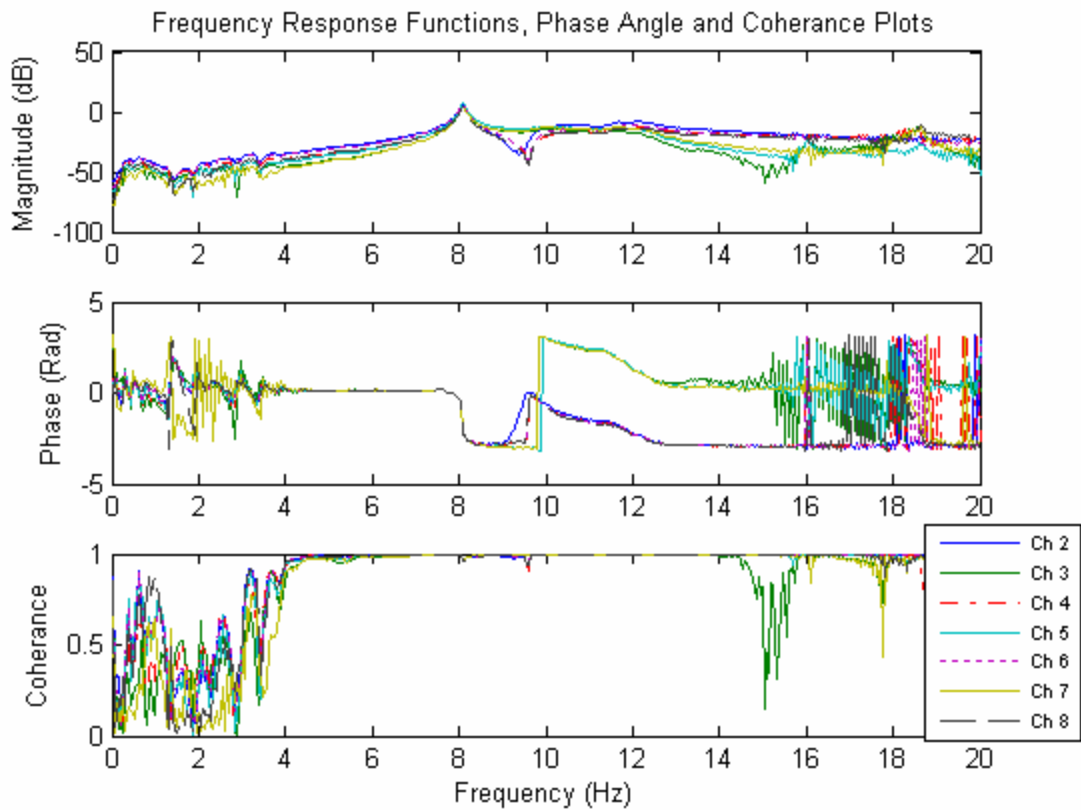
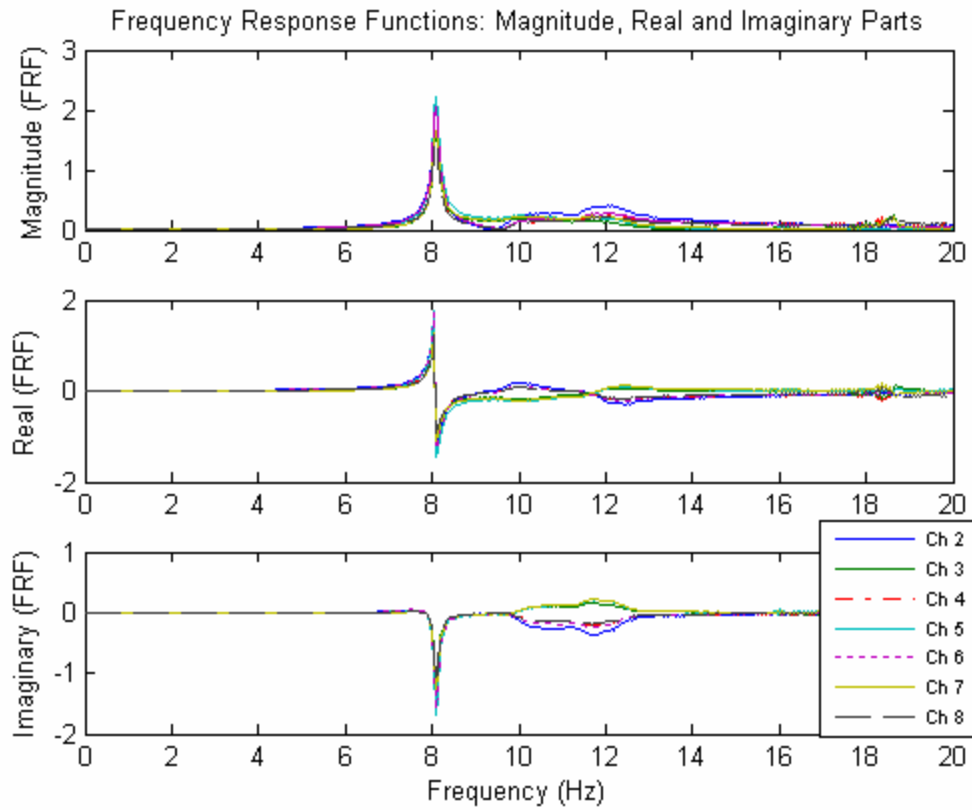




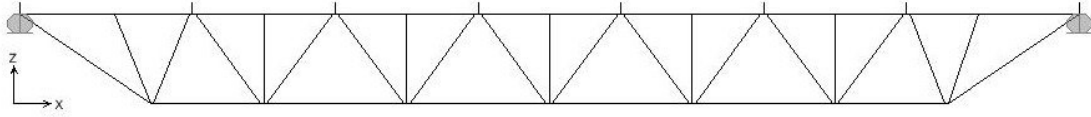
Single Span Floor- Stage 1- Bottom Chord Extensions in Place

Test Date	Test No	Excitation	First Bending Mode Frequency	First Bending Mode Damping Ratio (Half power Method)
3/10/2004	21	Chirp for Torsion	fn=8.05-8.15Hz	$\beta_1 = 0.63\%$

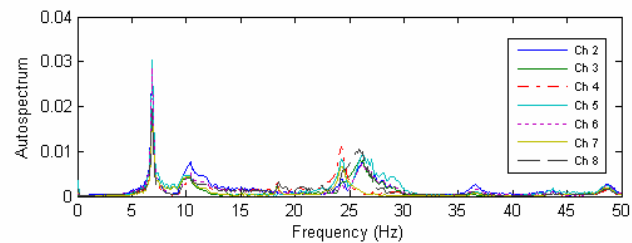
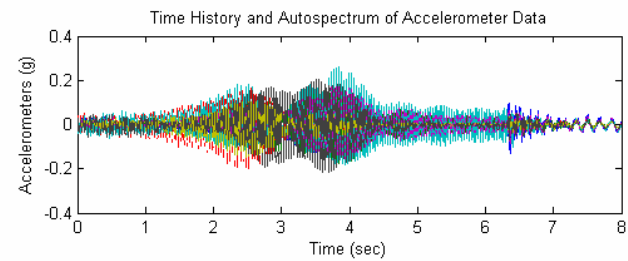
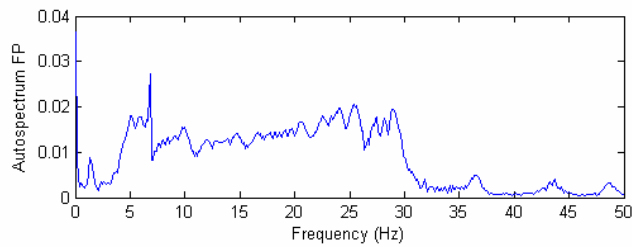
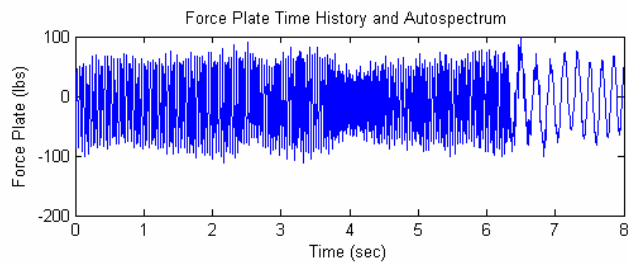
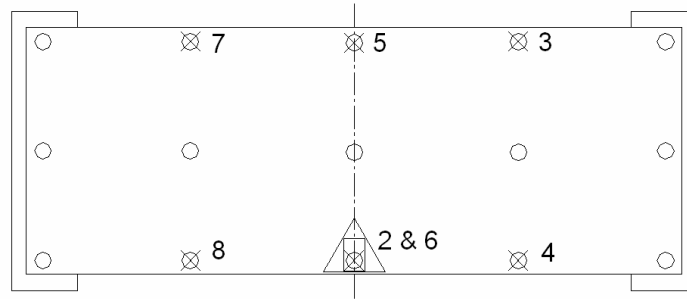


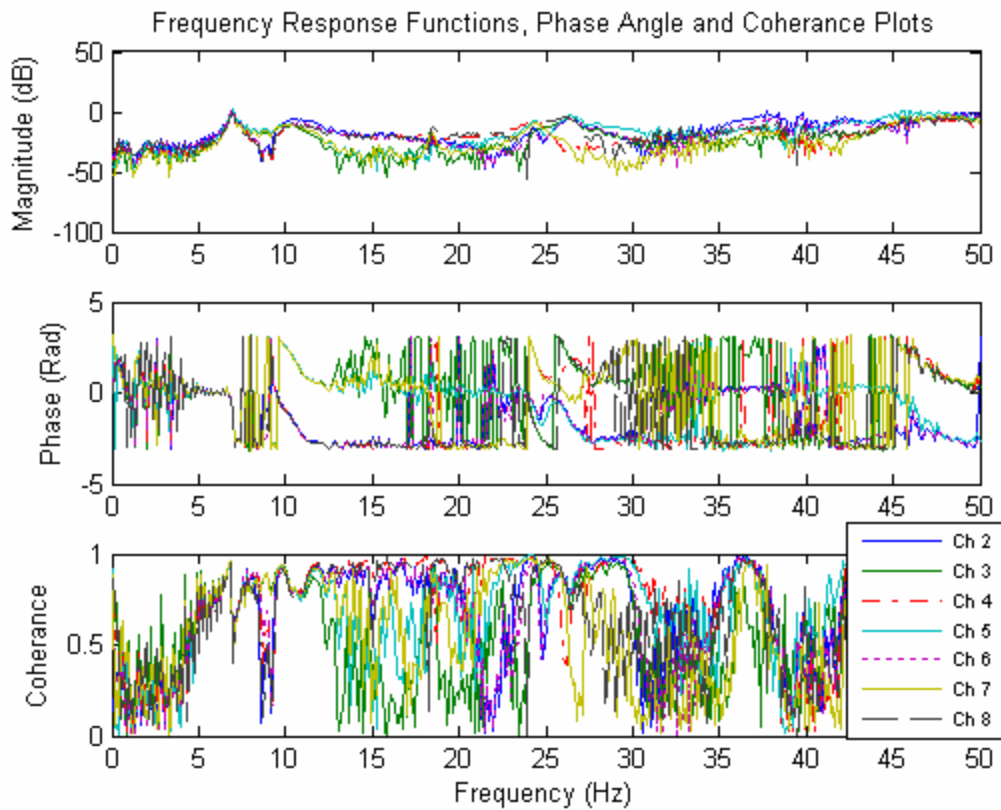
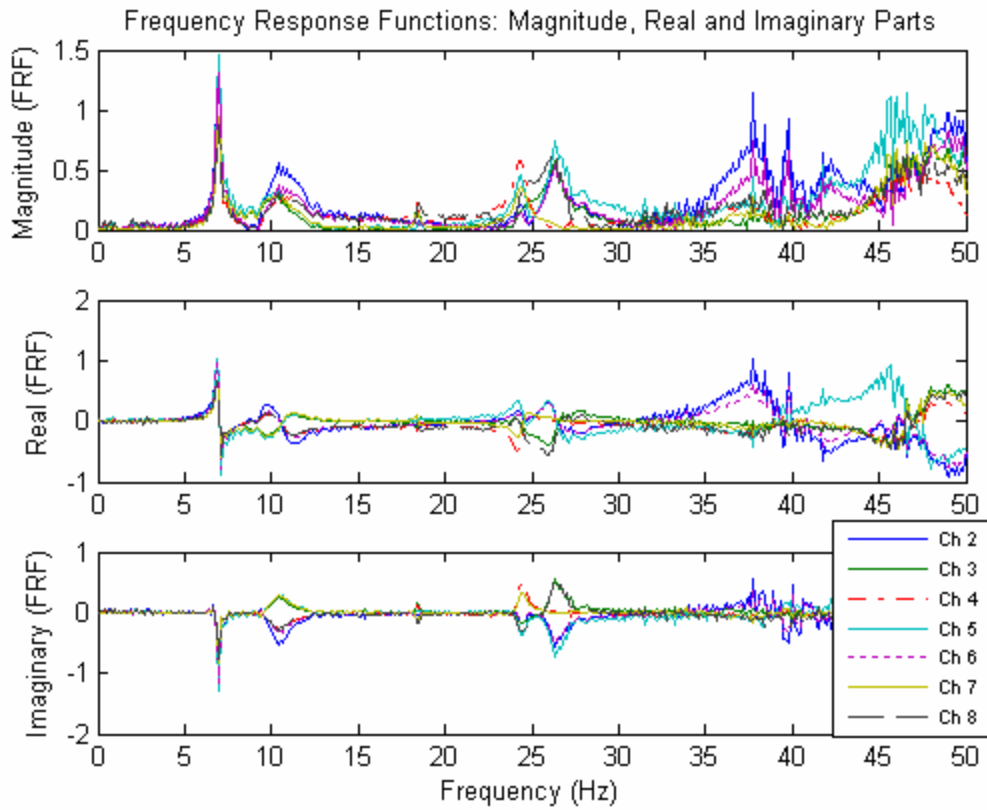


Stage 2: Bottom Chord Extensions Removed

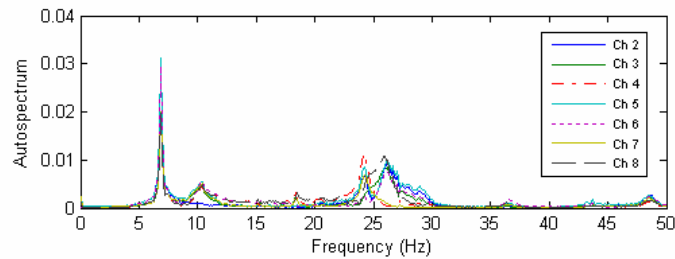
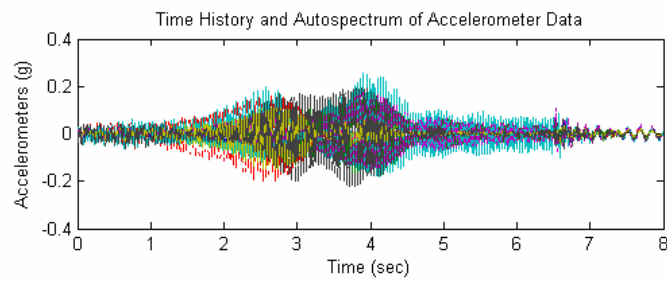
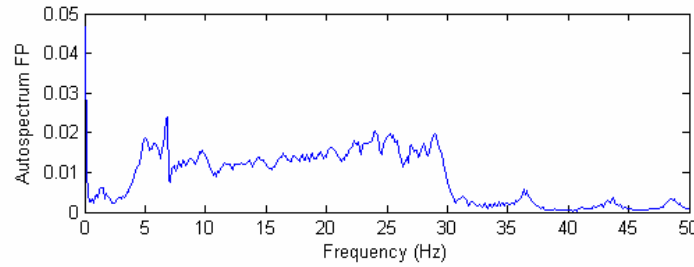
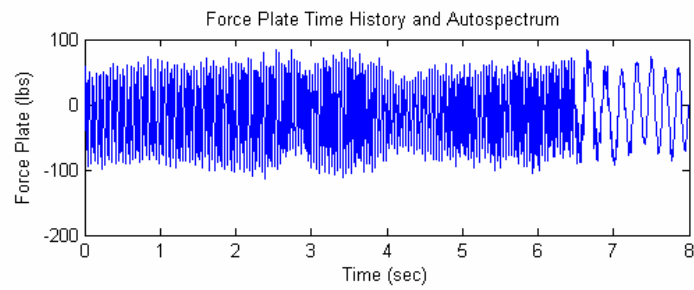
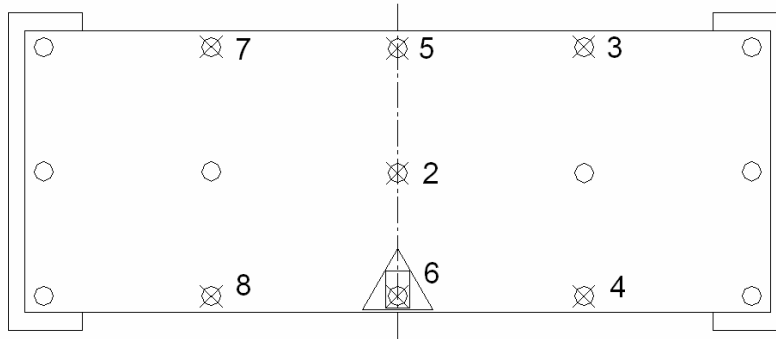


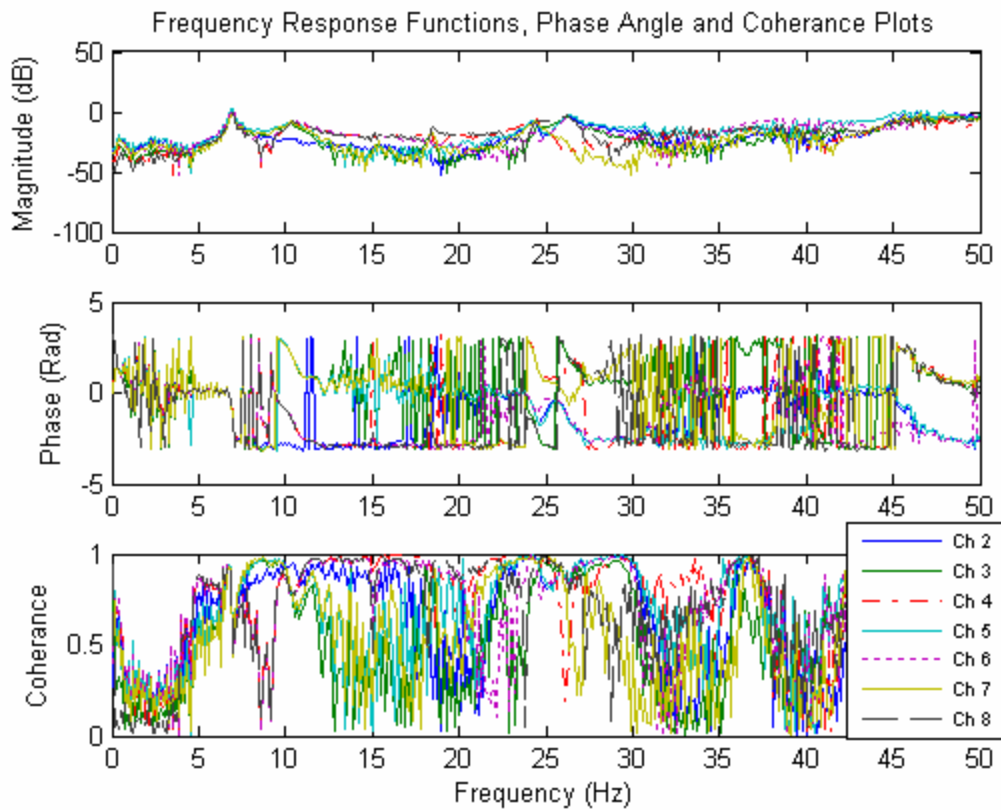
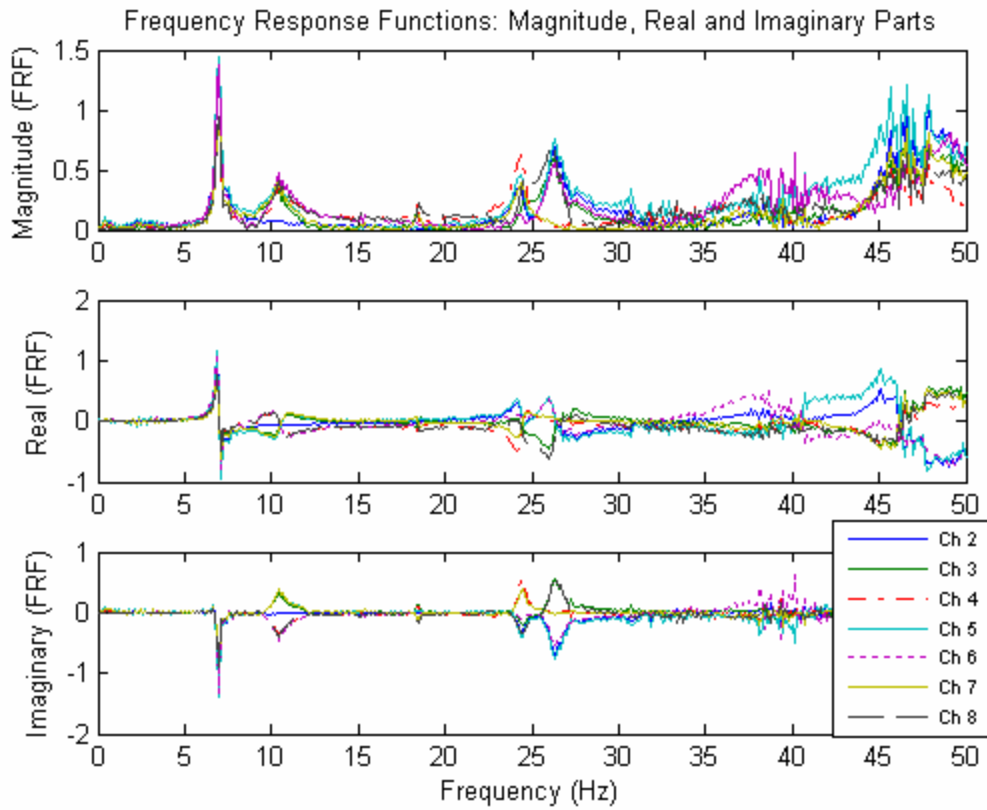
Single Span Floor- Stage 2- Bottom Chord Extensions Removed- Test 1



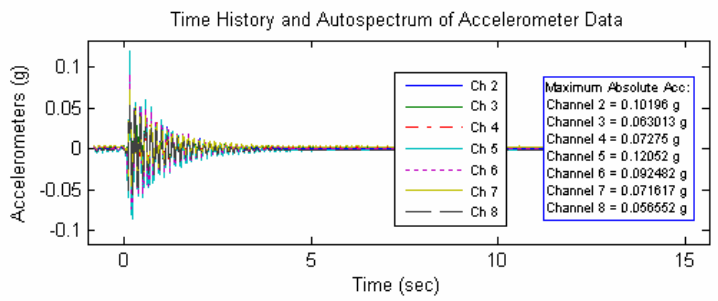
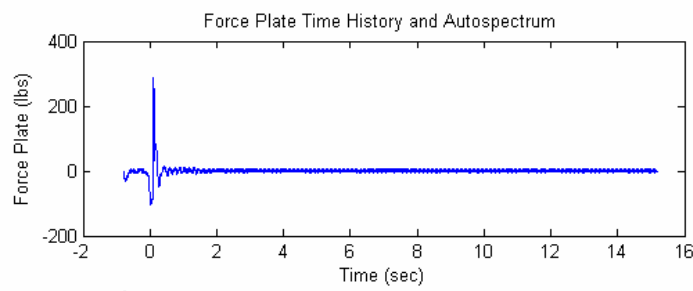
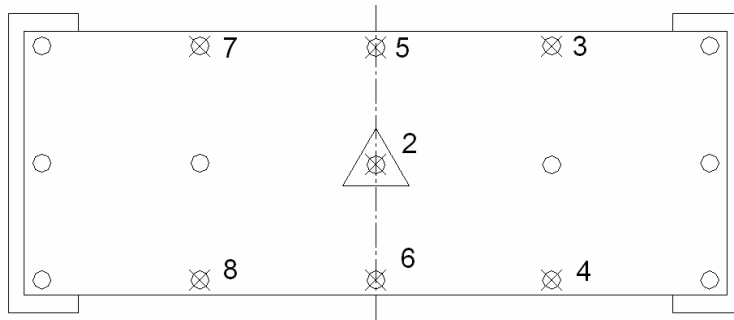


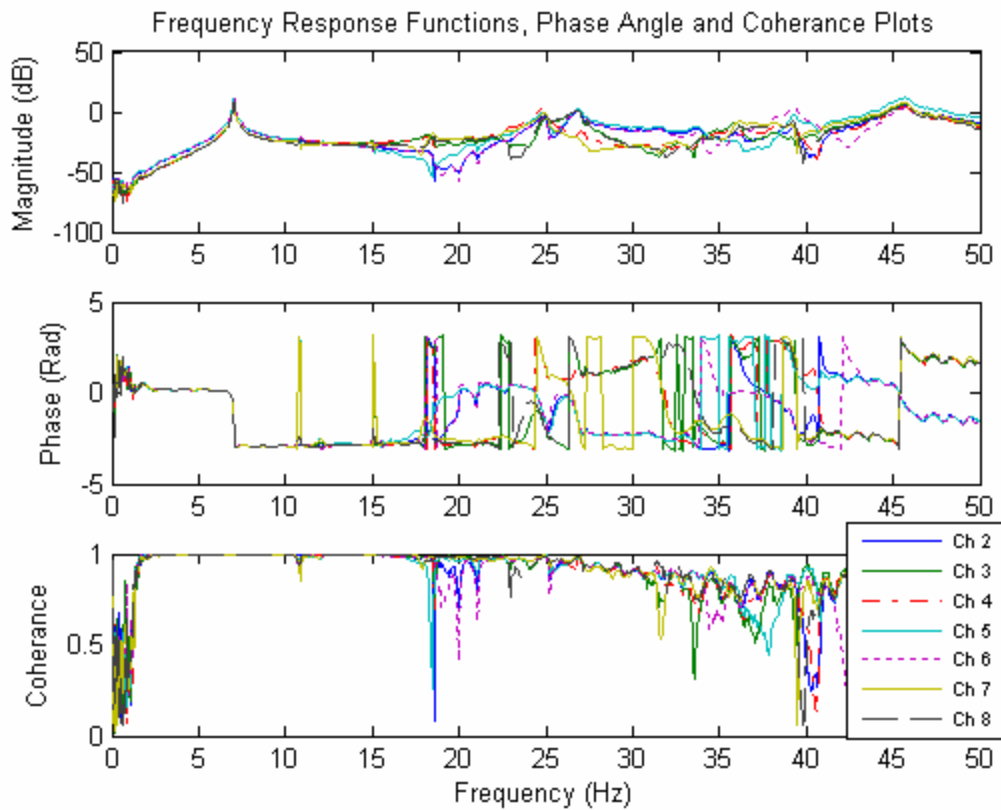
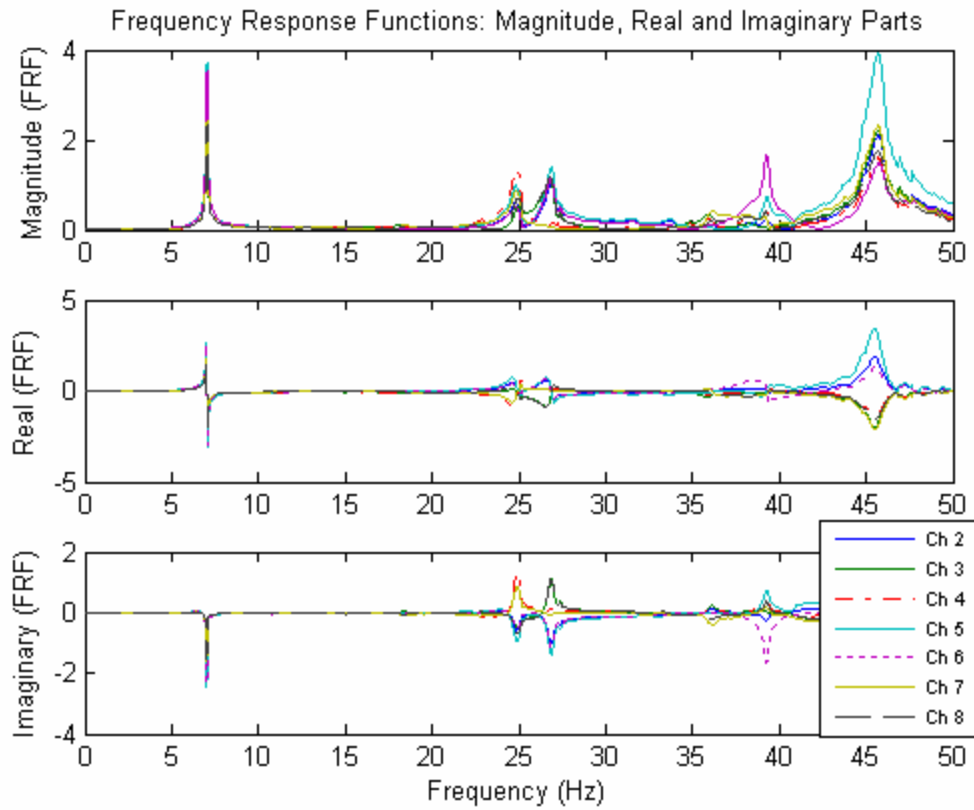
Single Span Floor- Stage 2- Bottom Chord Extensions Removed- Test 2



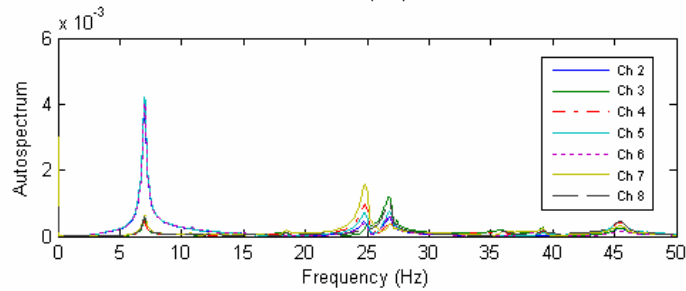
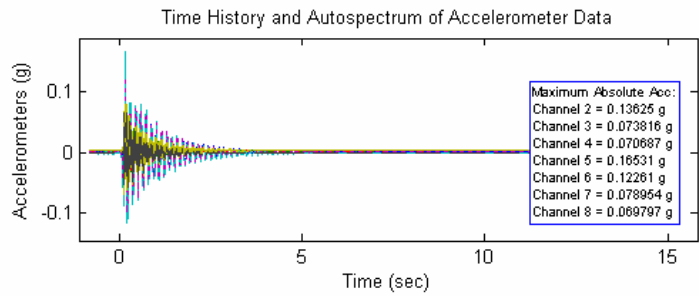
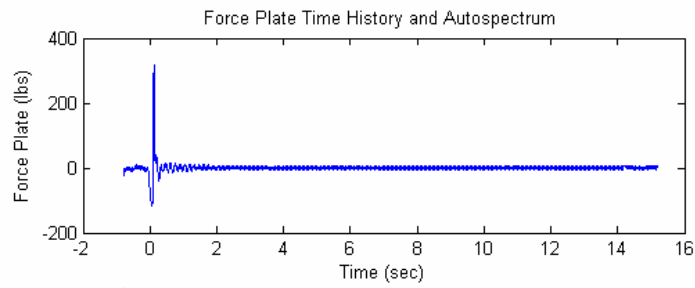
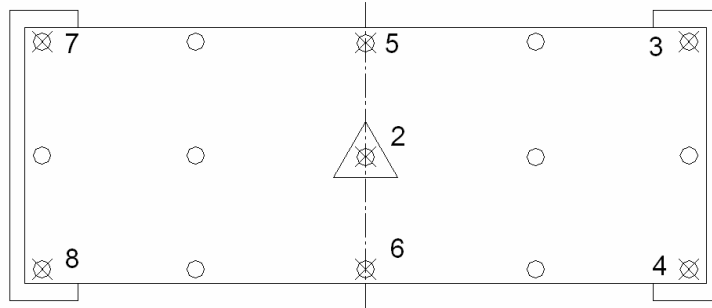


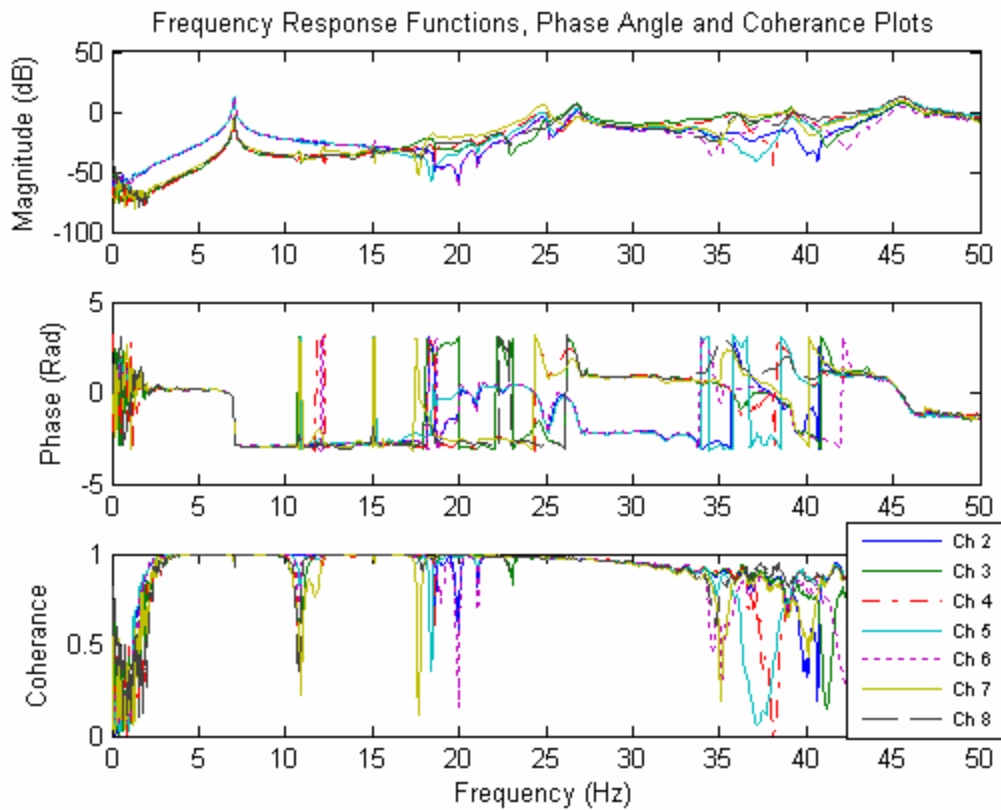
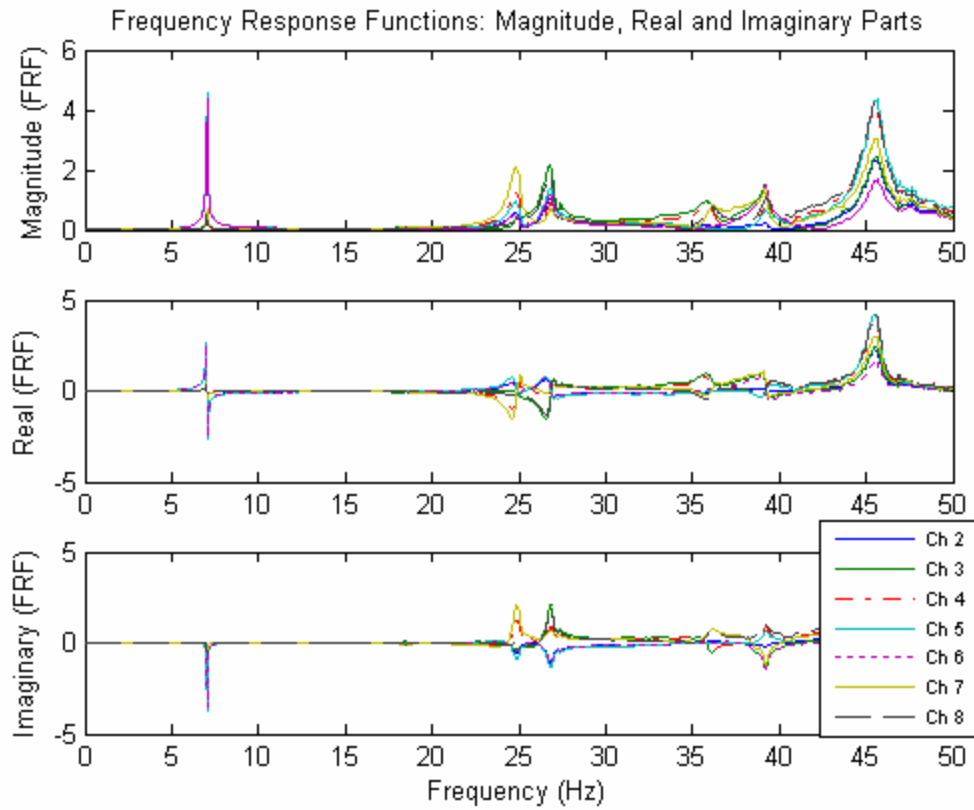
Single Span Floor- Stage 2- Bottom Chord Extensions Removed- Test 4



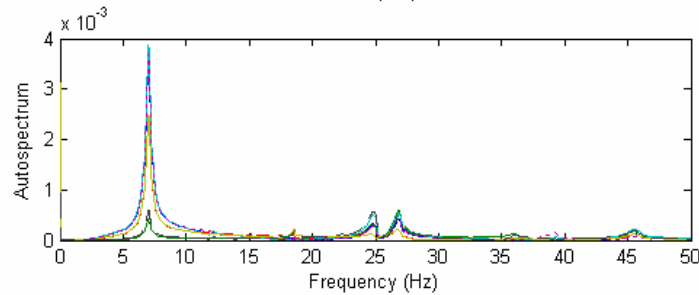
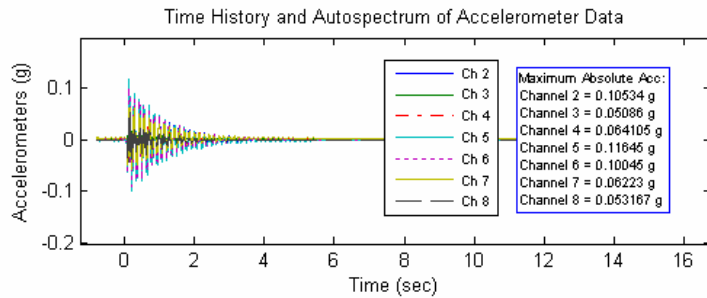
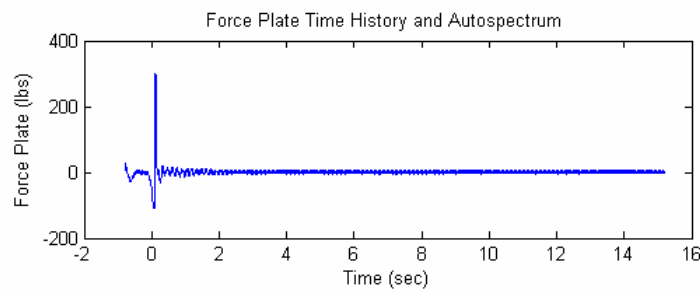
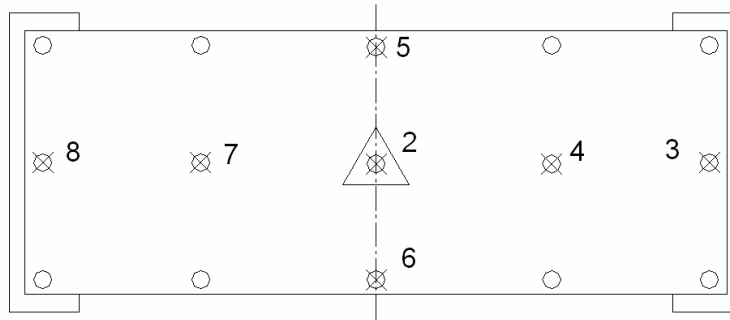


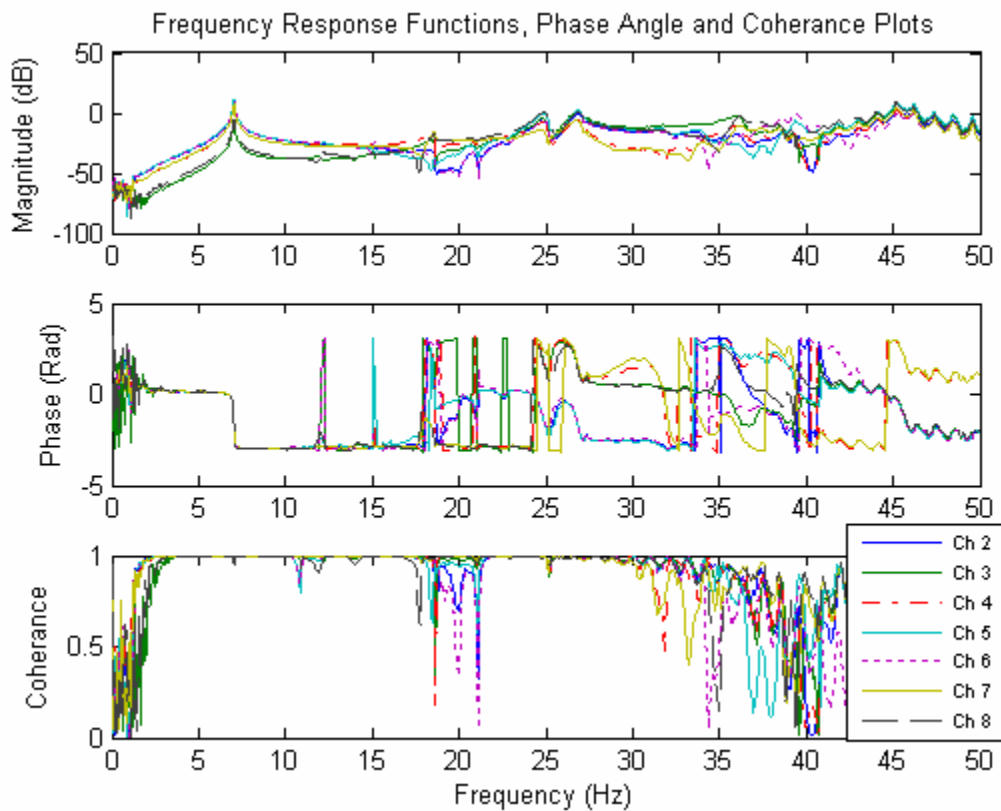
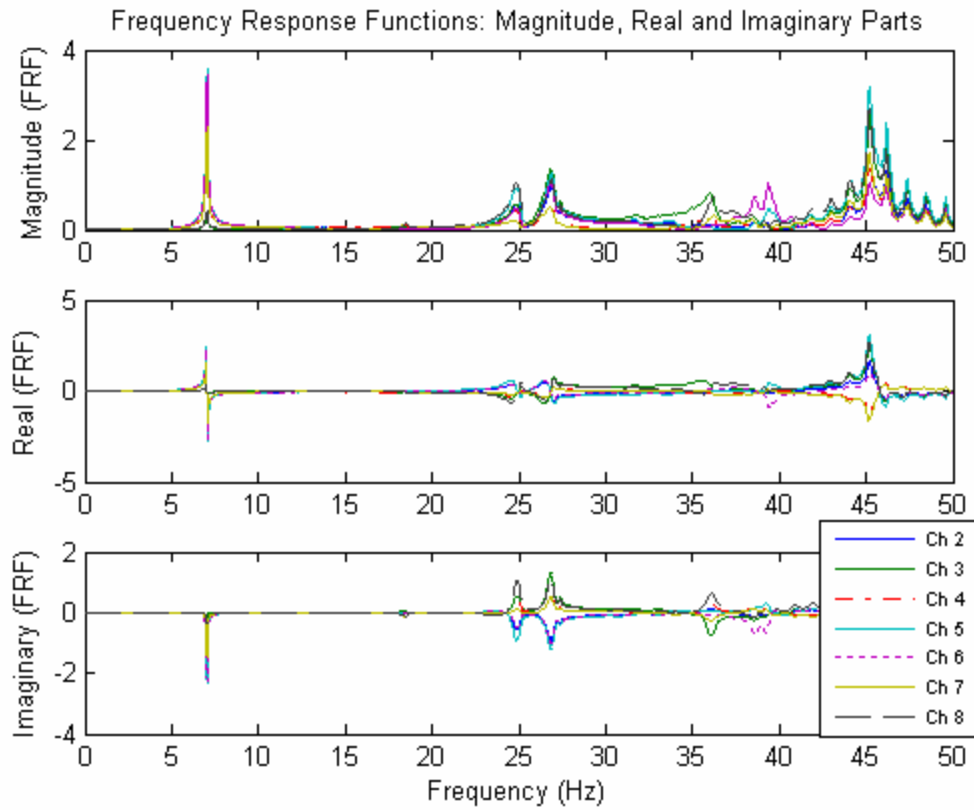
Single Span Floor- Stage 2- Bottom Chord Extensions Removed- Test 5



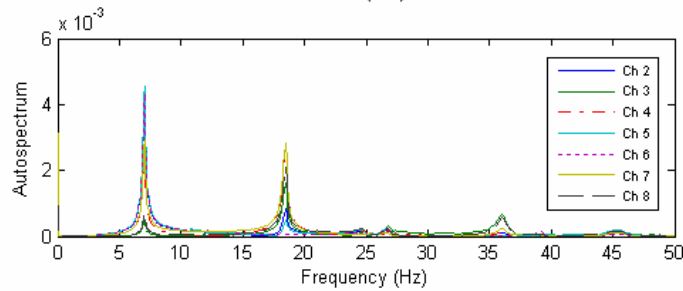
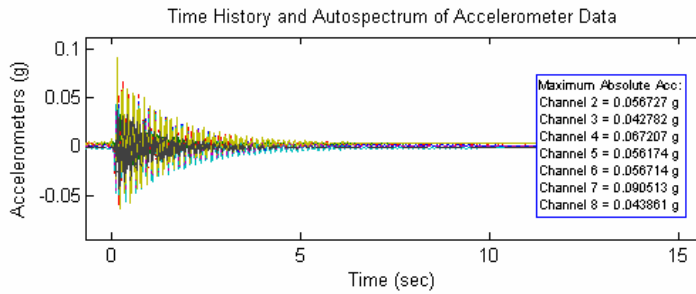
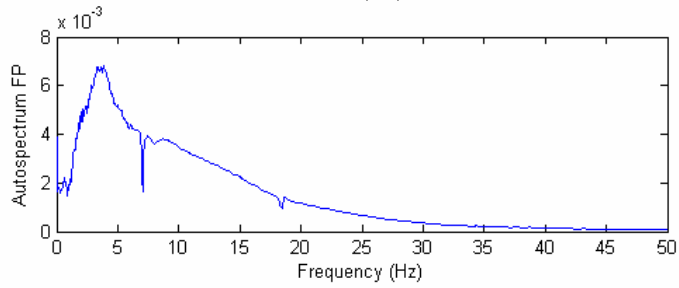
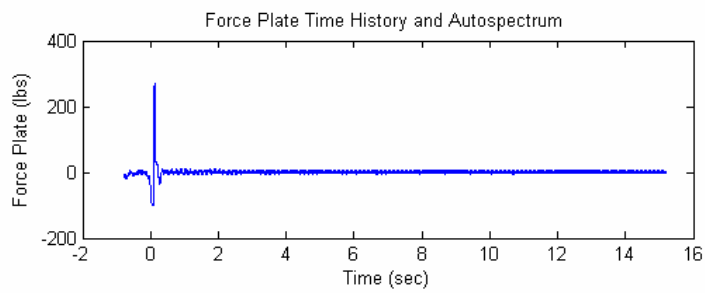
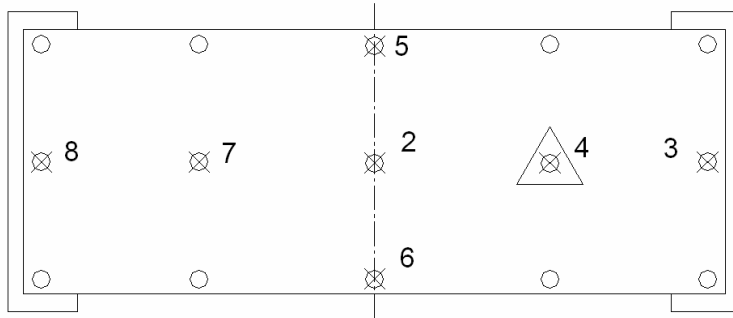


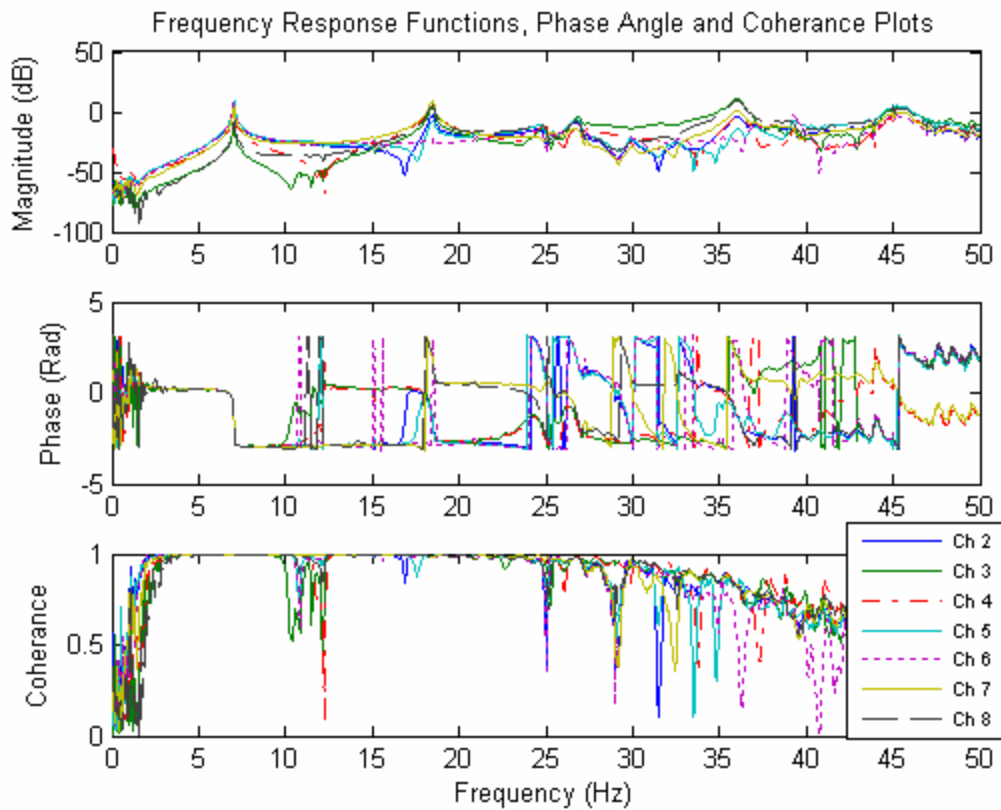
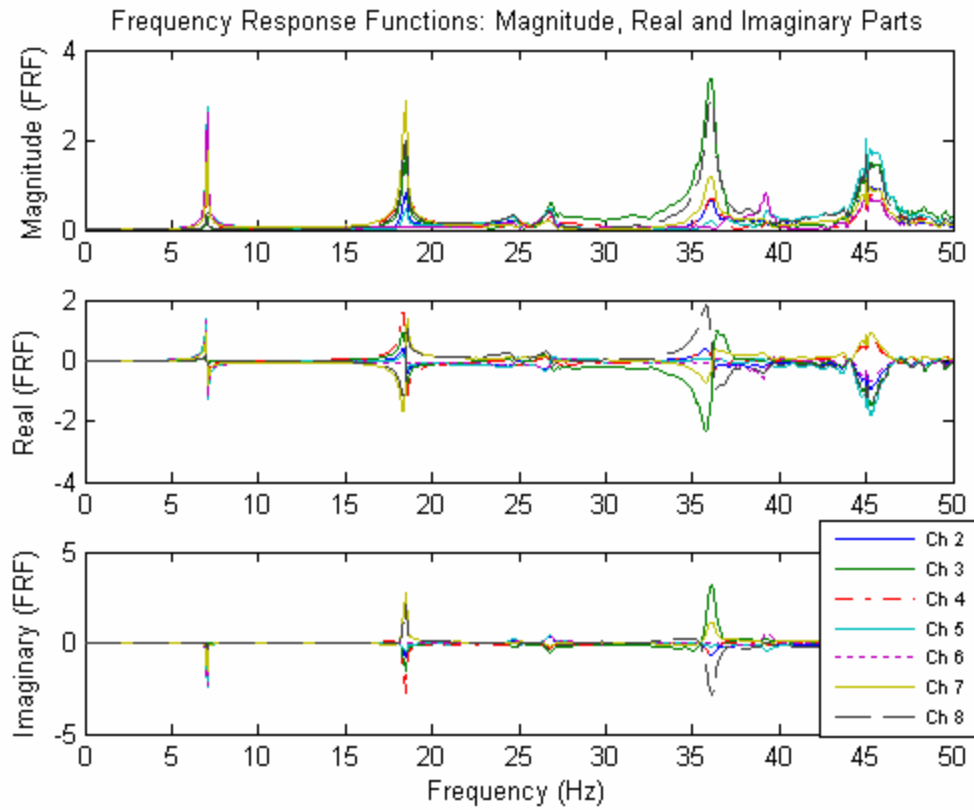
Single Span Floor- Stage 2- Bottom Chord Extensions Removed- Test 6



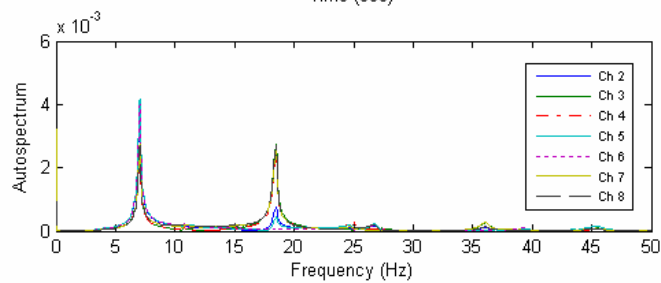
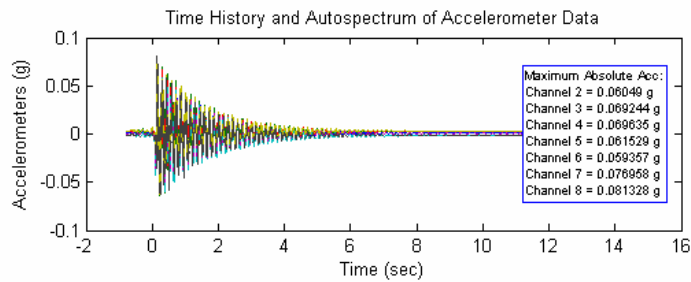
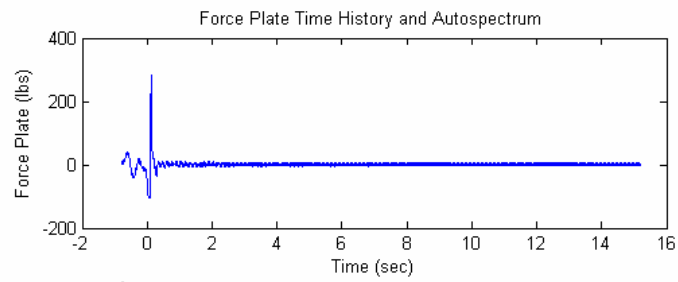
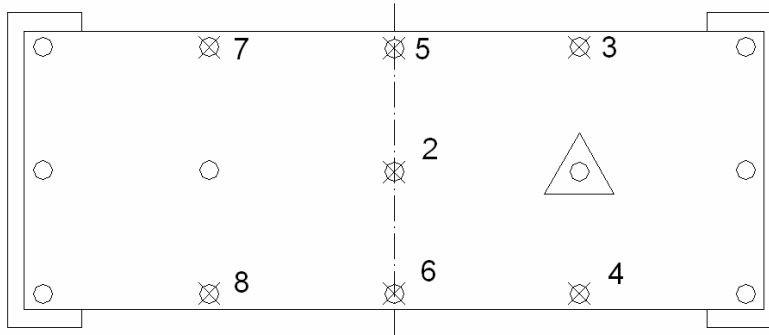


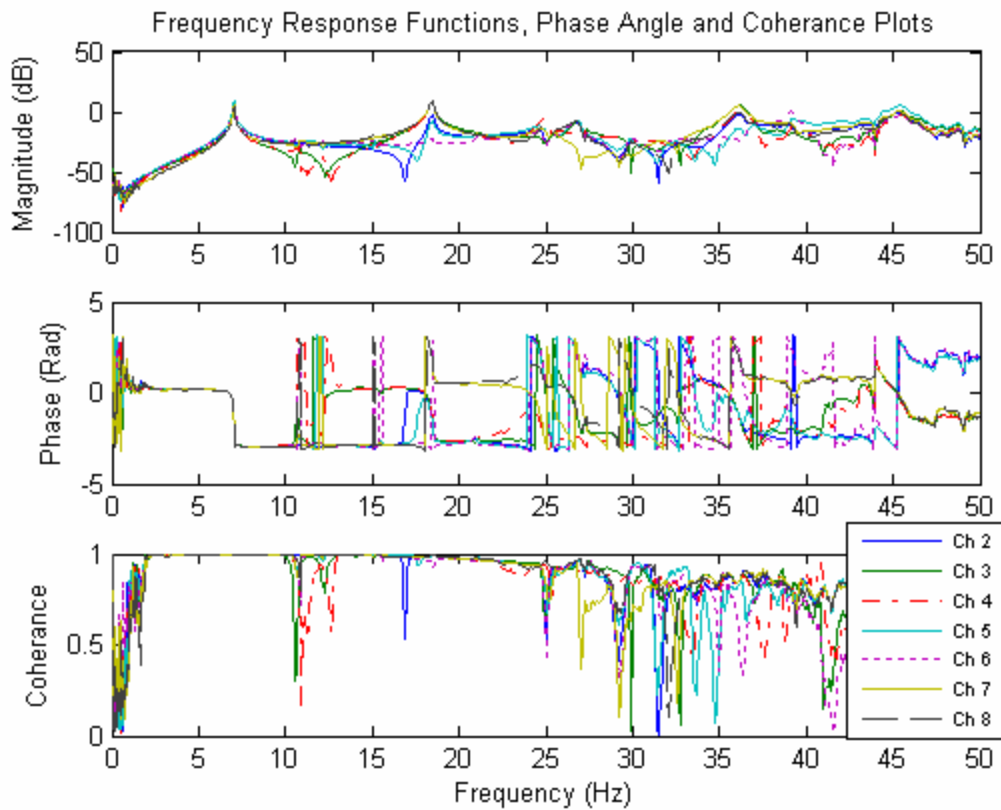
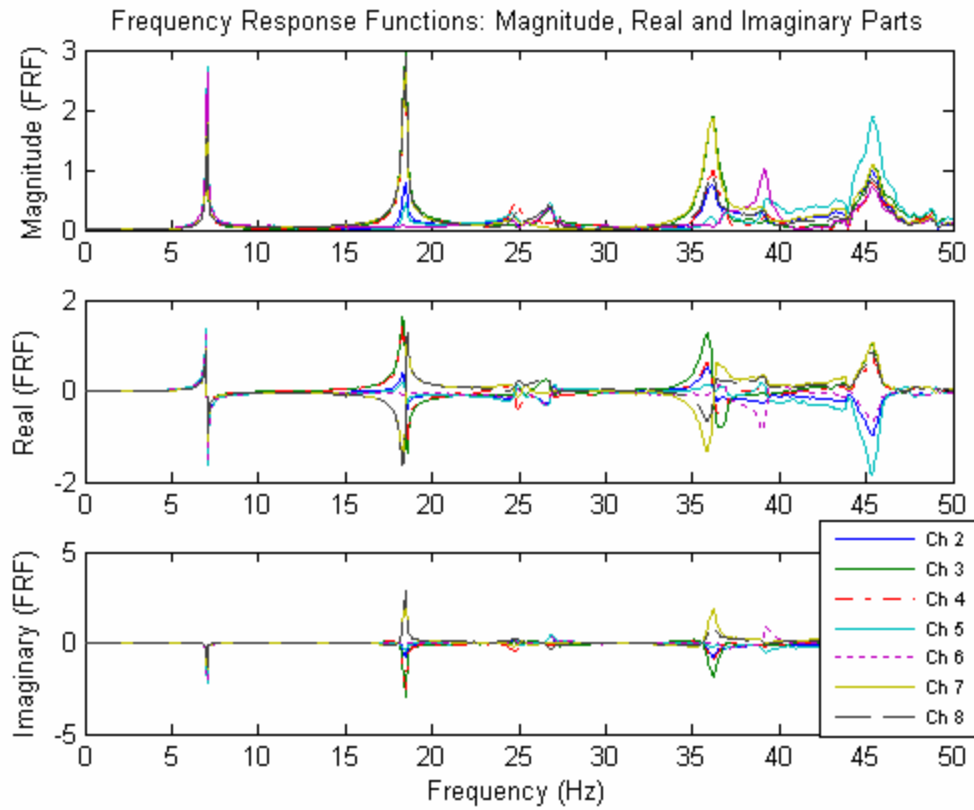
Single Span Floor- Stage 2- Bottom Chord Extensions Removed- Test 7



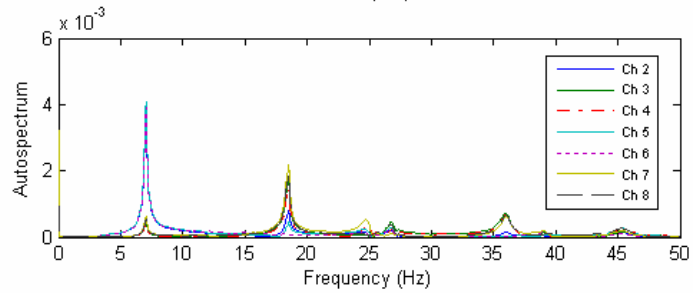
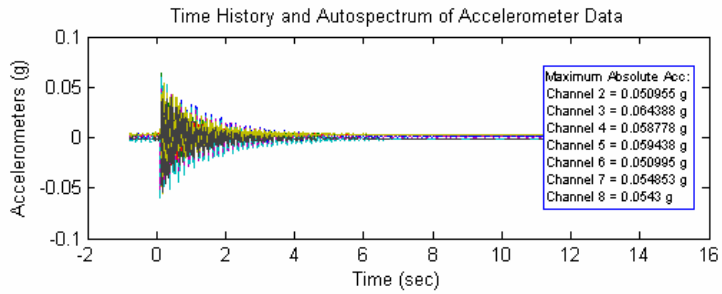
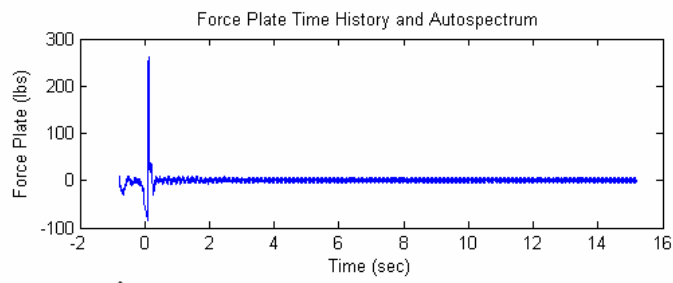
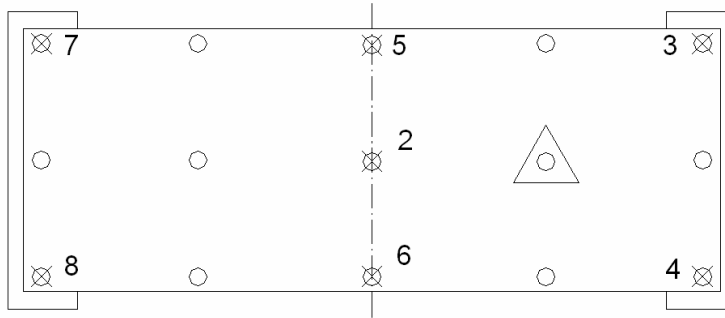


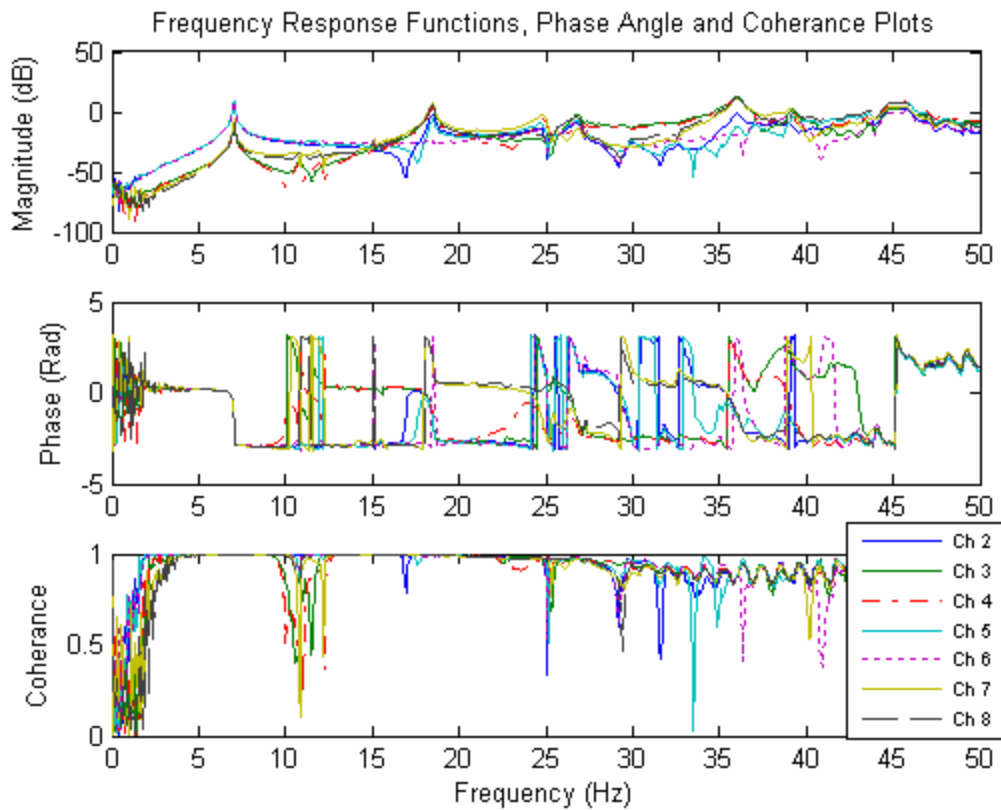
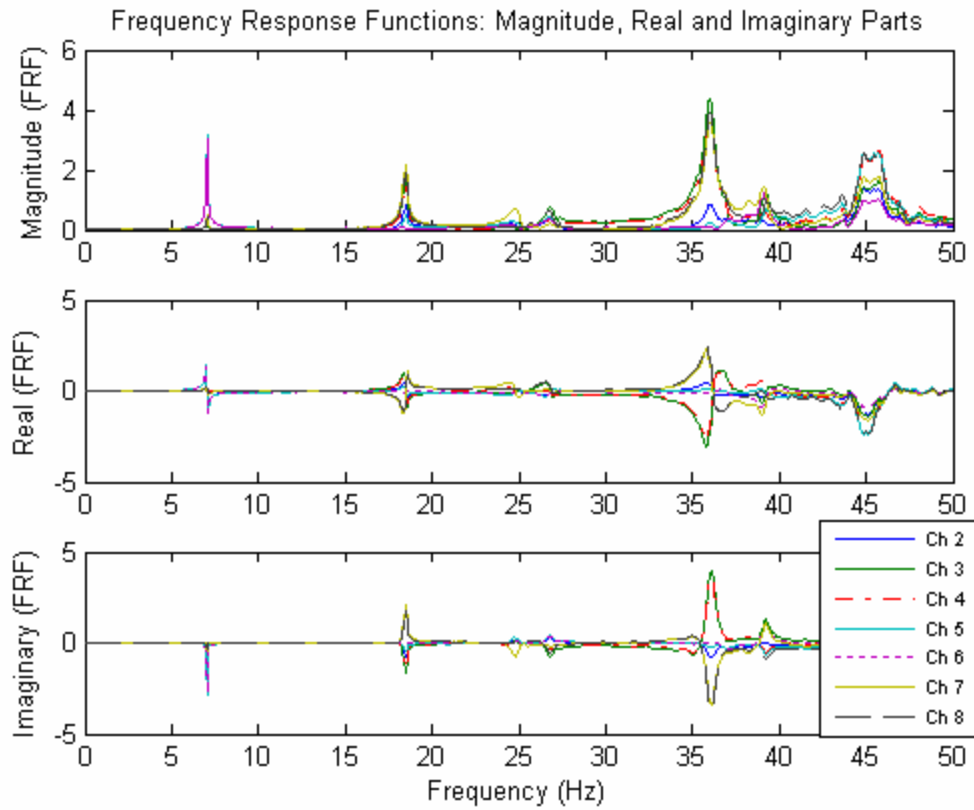
Single Span Floor- Stage 2- Bottom Chord Extensions Removed- Test 8



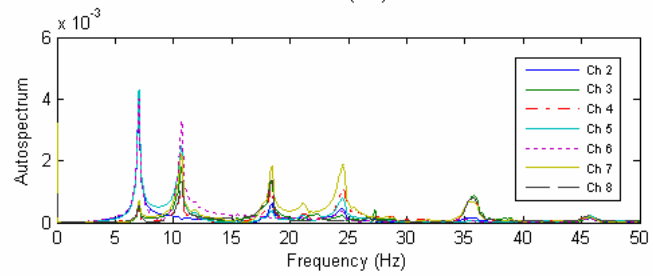
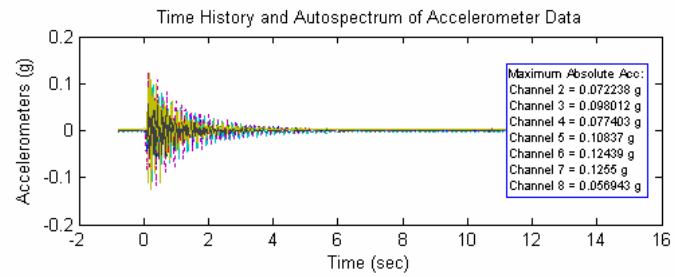
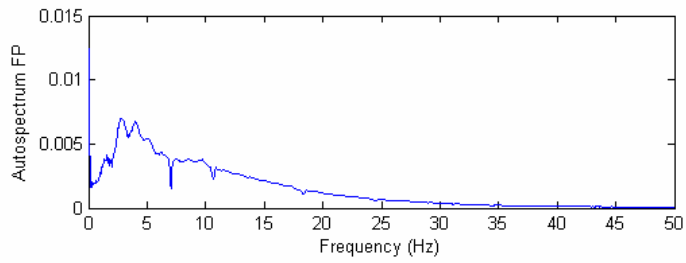
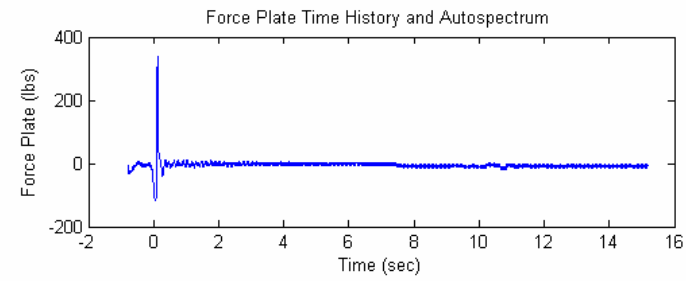
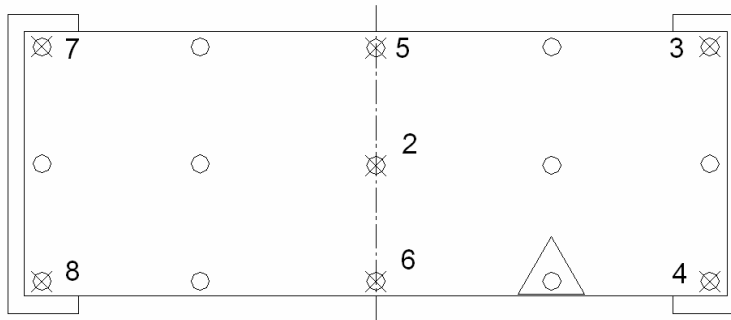


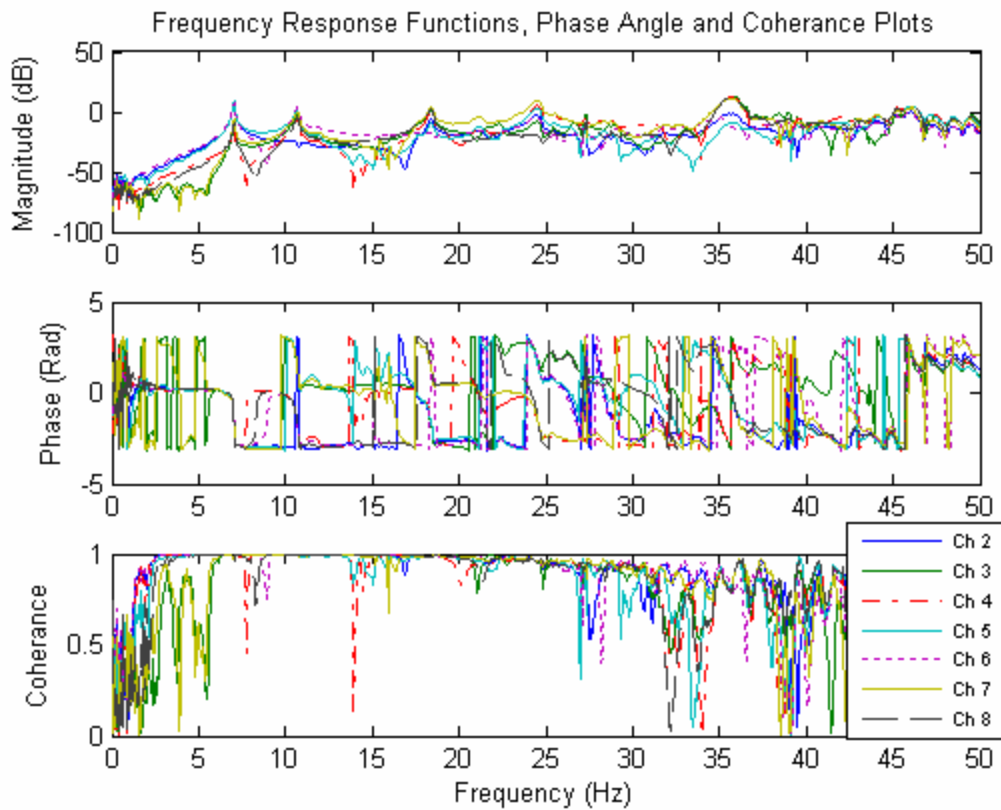
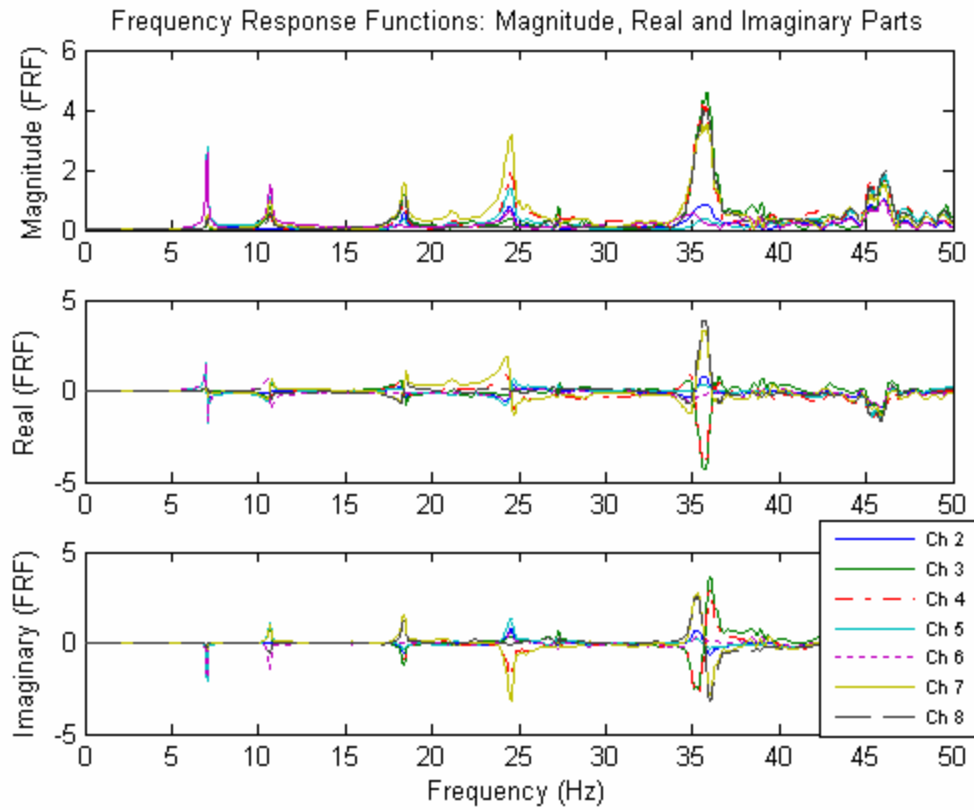
Single Span Floor- Stage 2- Bottom Chord Extensions Removed- Test 9



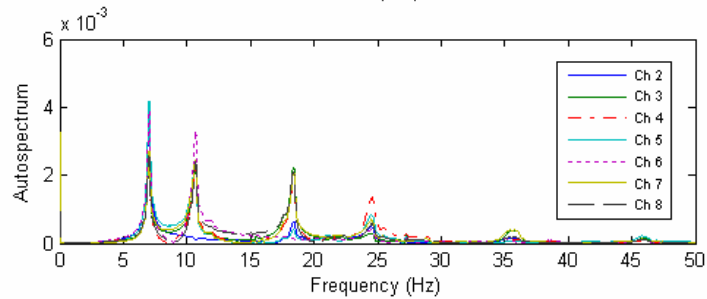
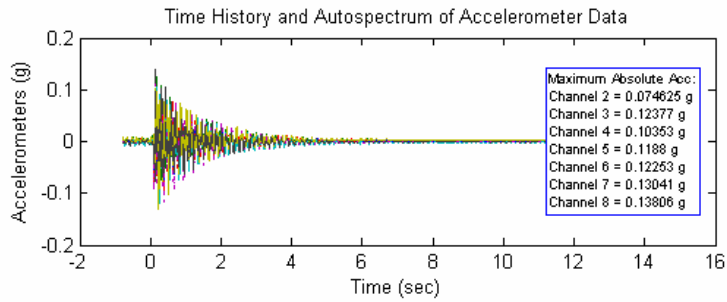
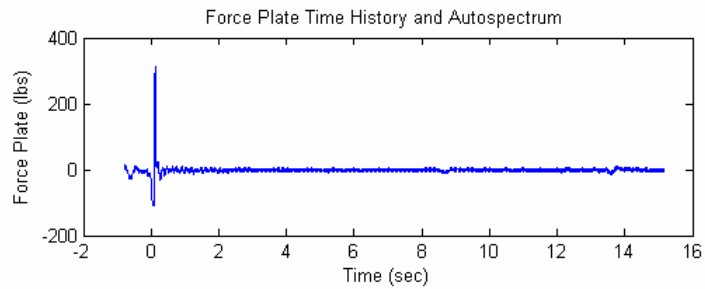
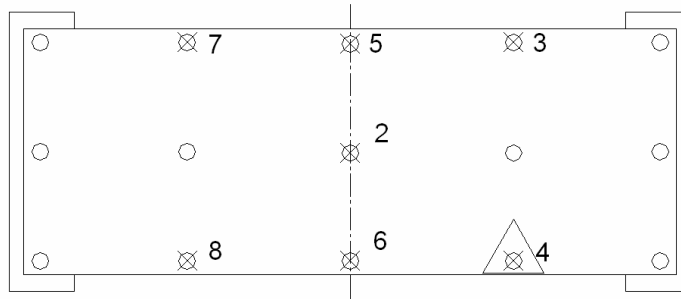


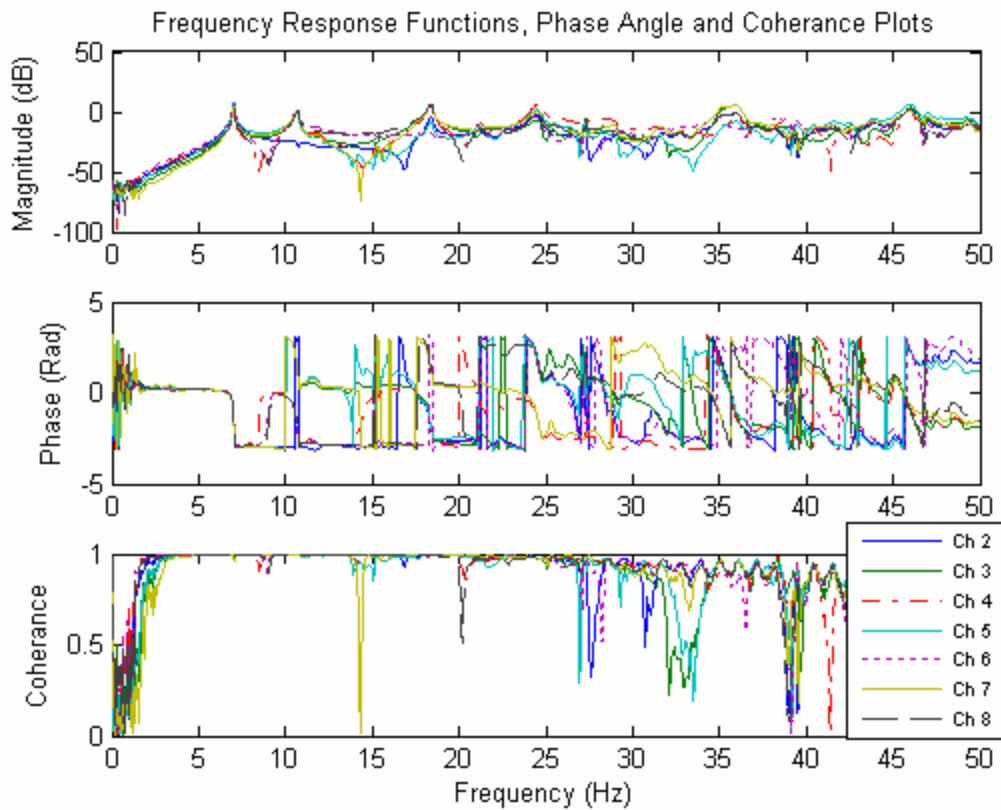
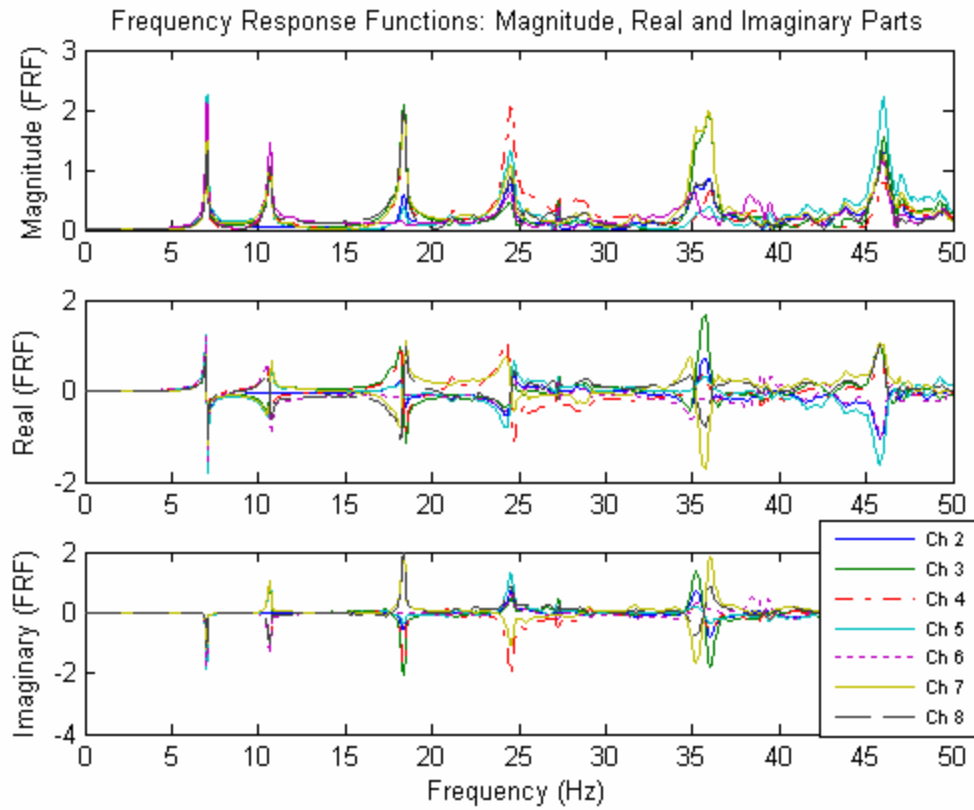
Single Span Floor- Stage 2- Bottom Chord Extensions Removed- Test 10



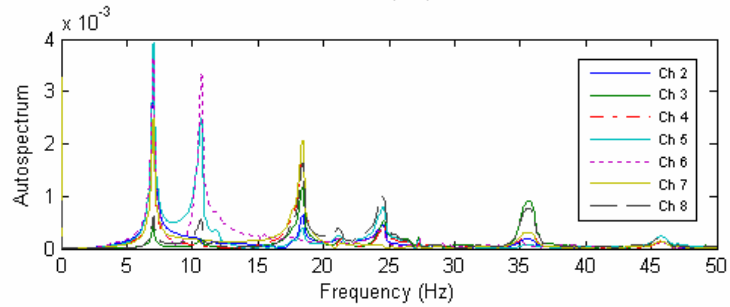
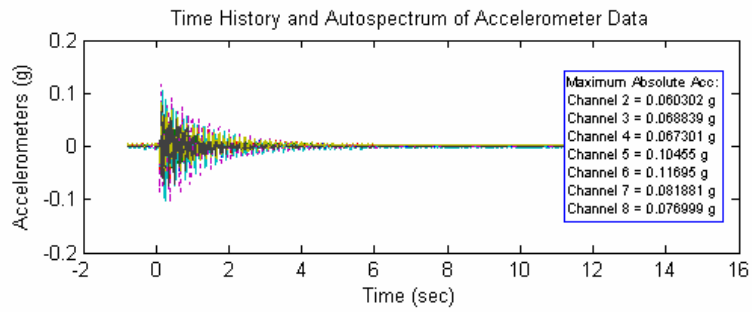
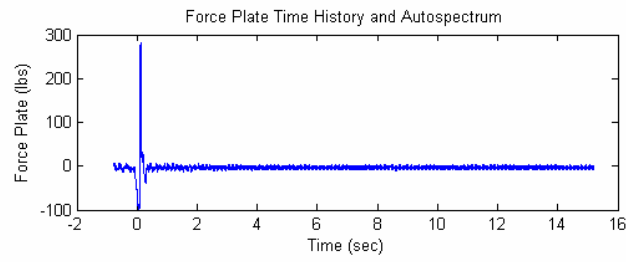
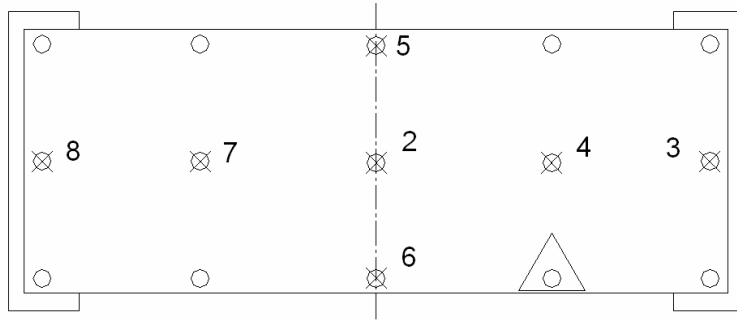


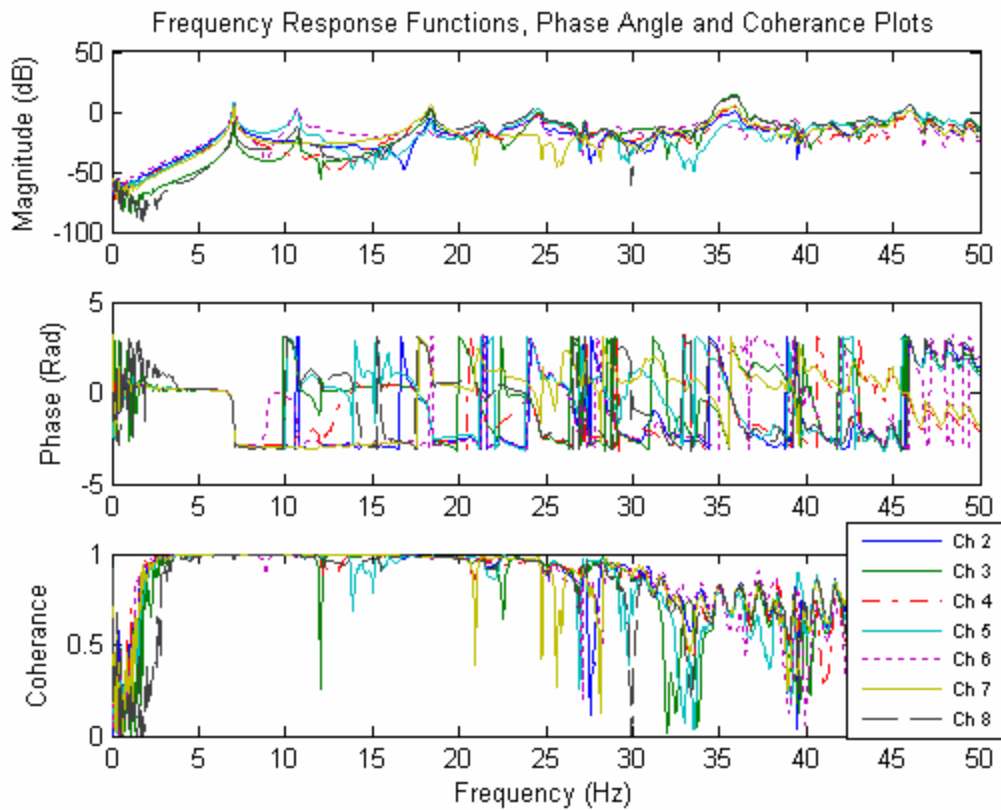
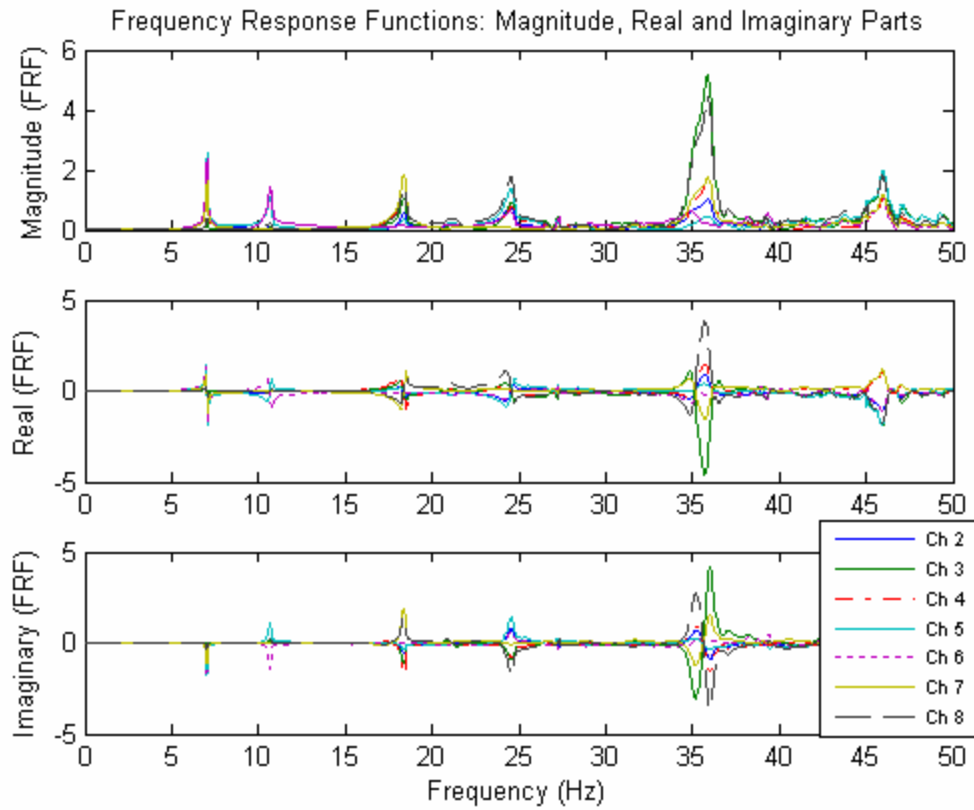
Single Span Floor- Stage 2- Bottom Chord Extensions Removed- Test 11



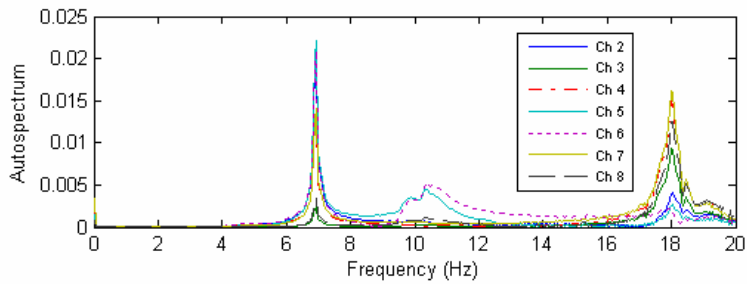
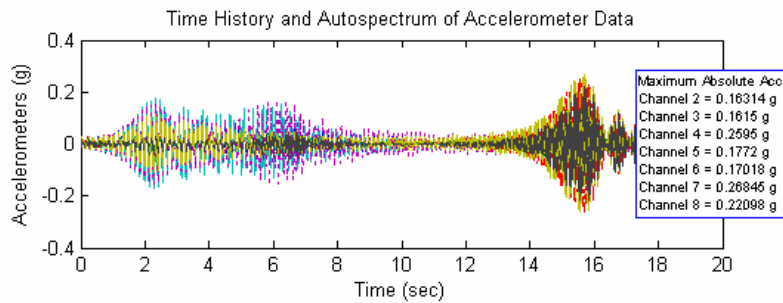
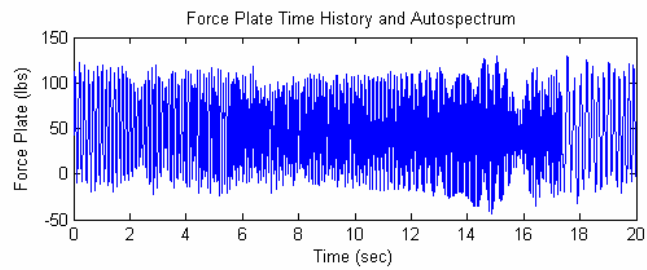
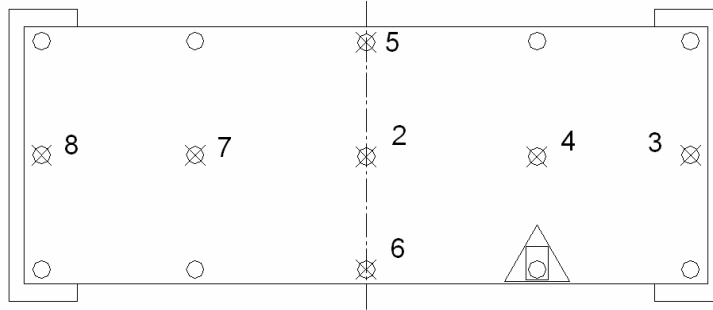


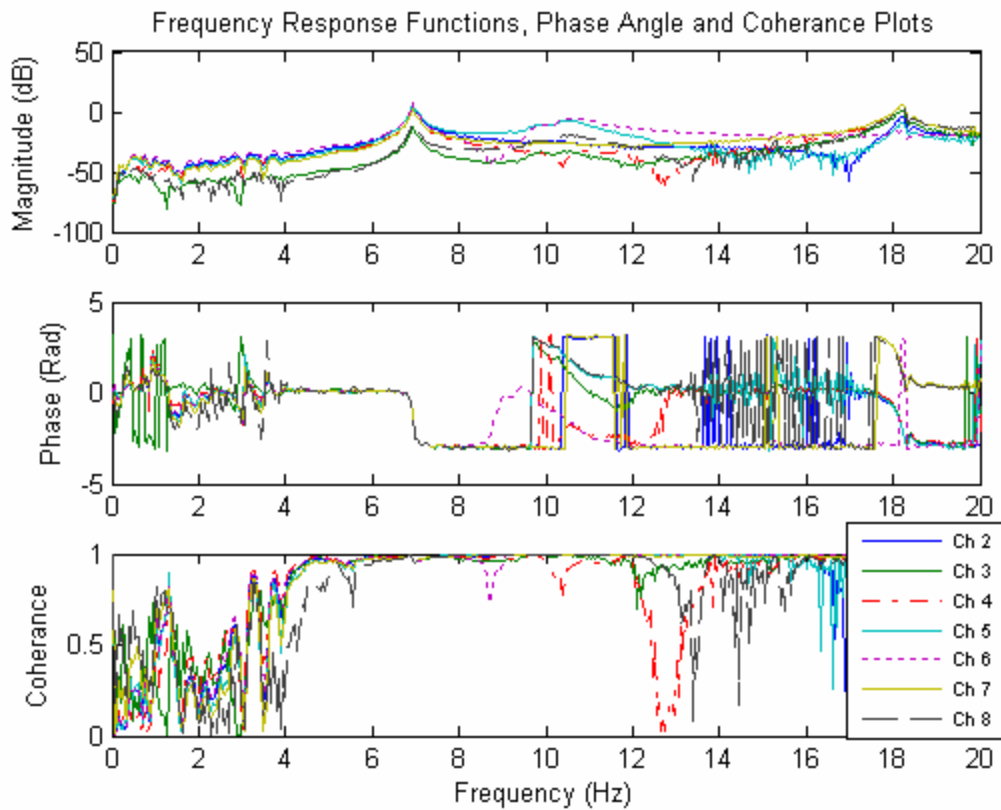
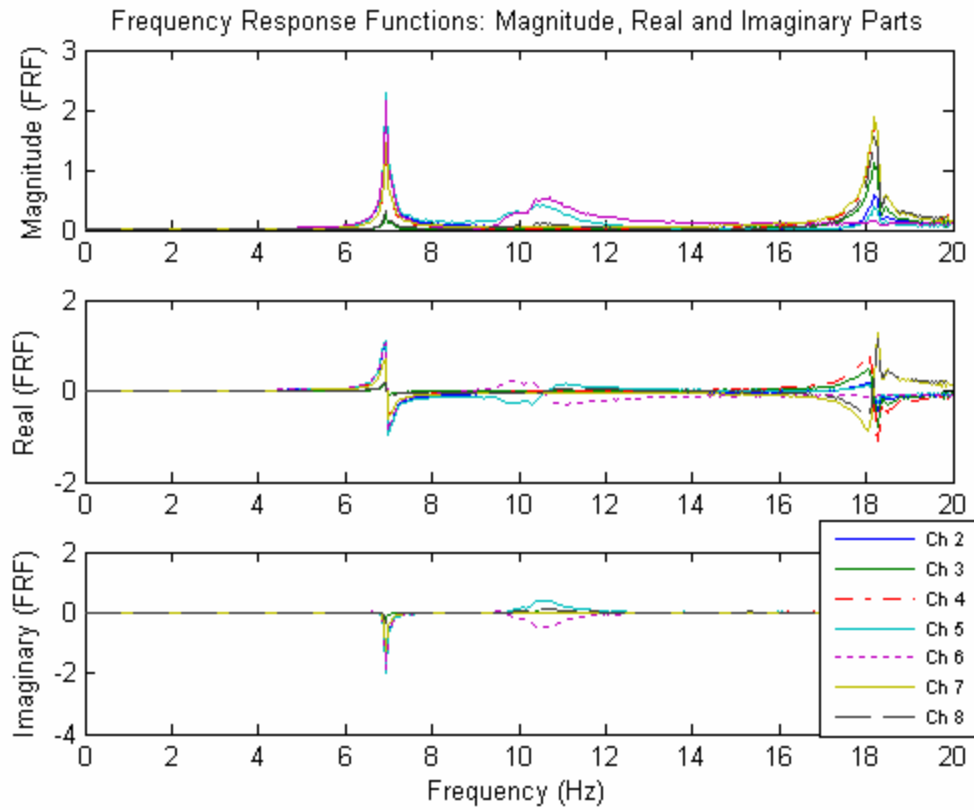
Single Span Floor- Stage 2- Bottom Chord Extensions Removed- Test 12



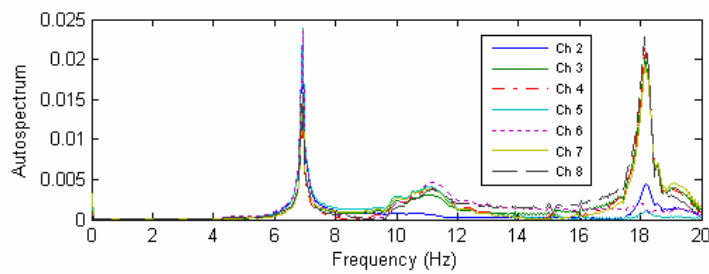
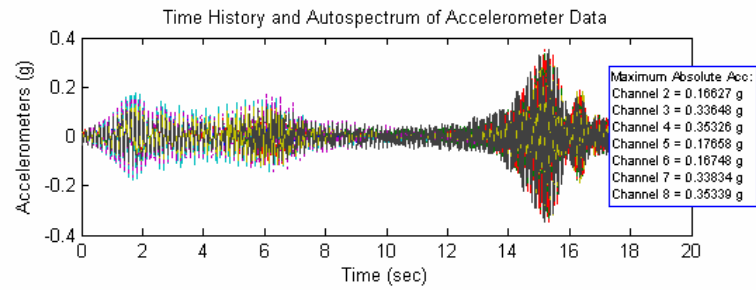
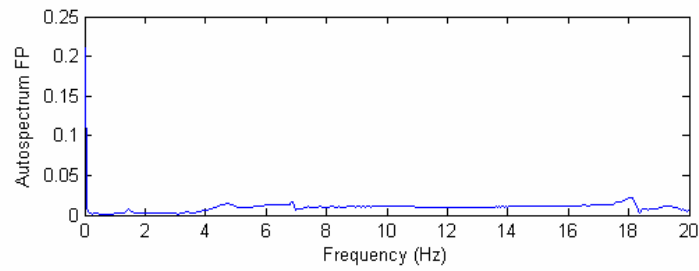
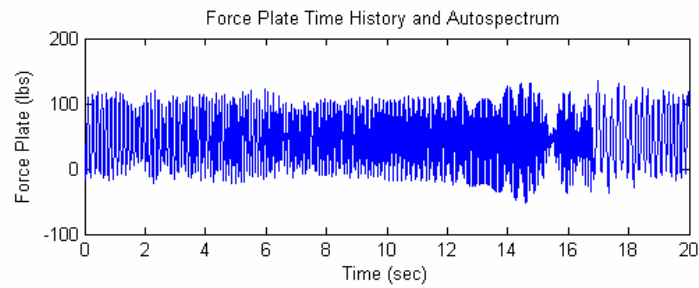
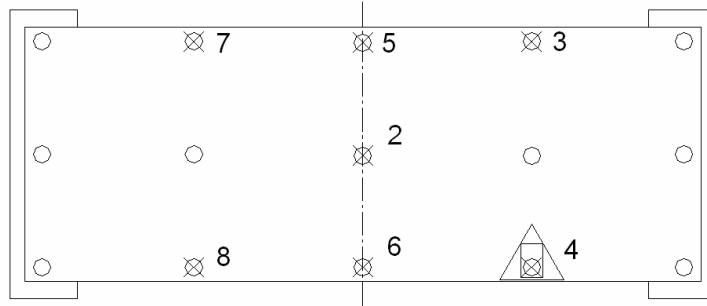


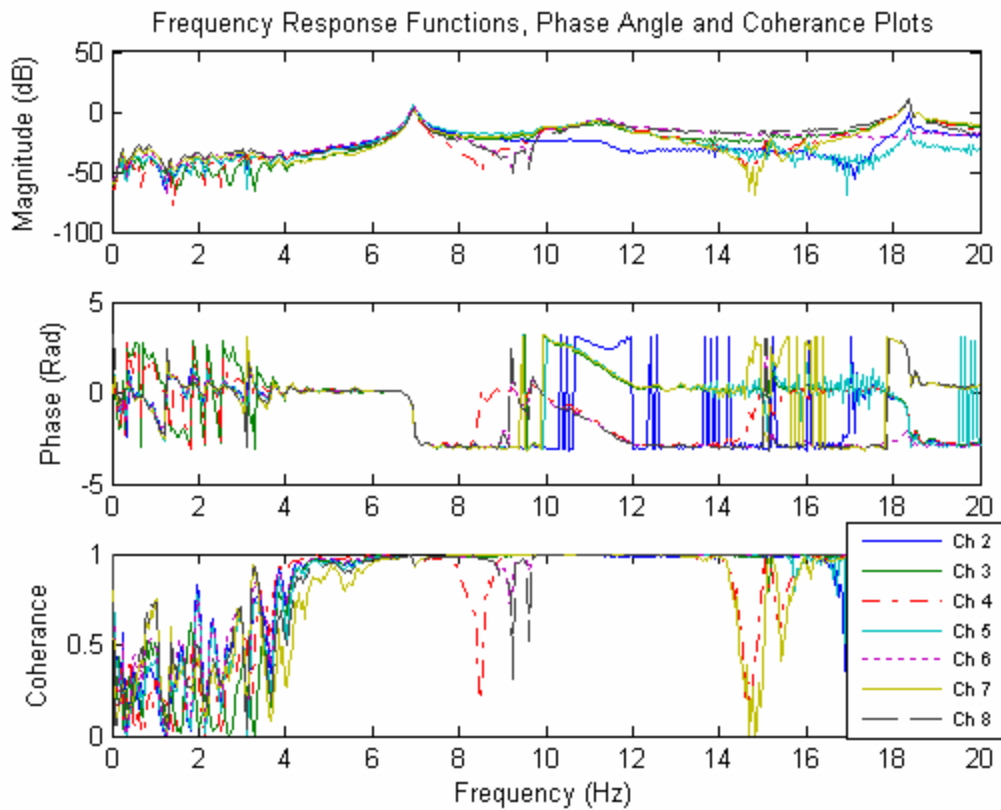
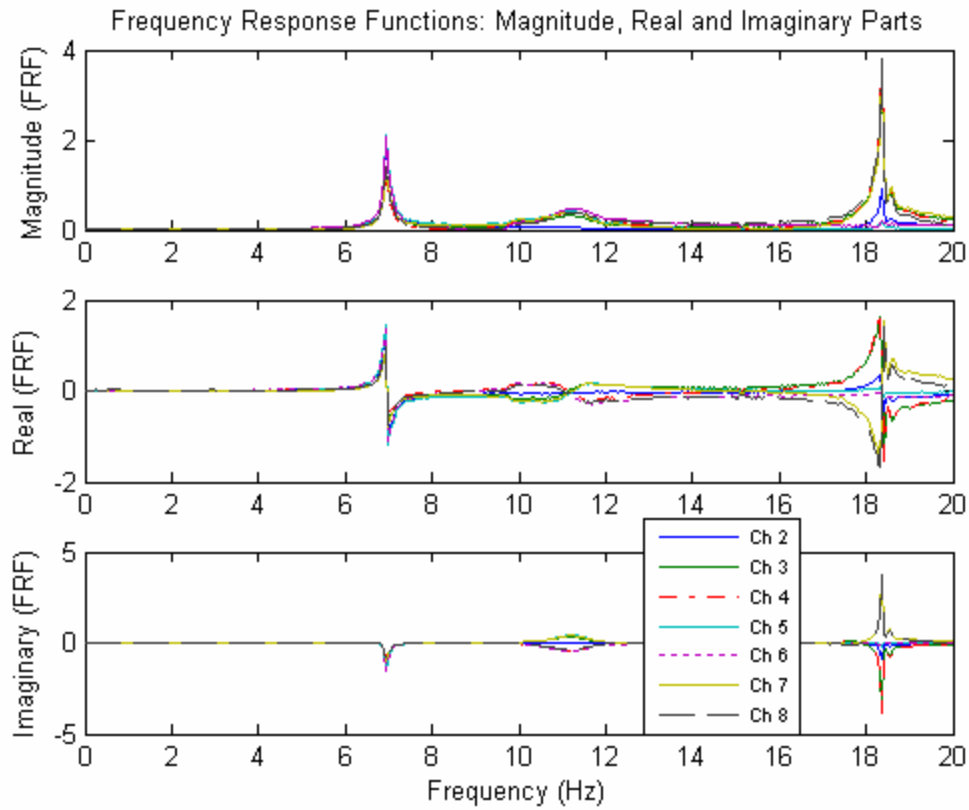
Single Span Floor- Stage 2- Bottom Chord Extensions Removed- Test 13



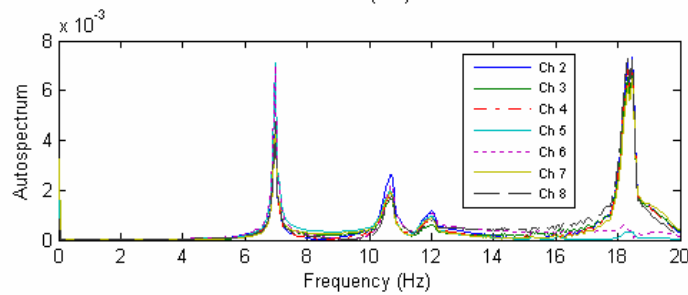
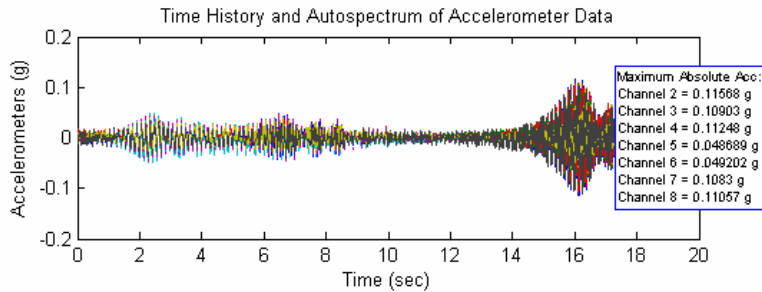
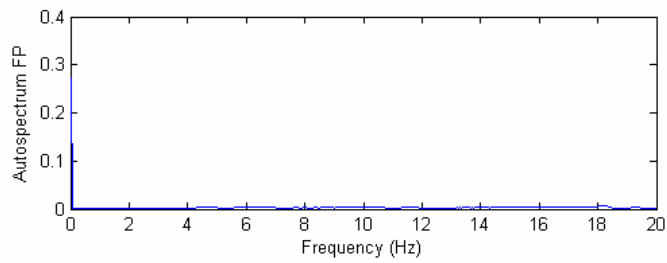
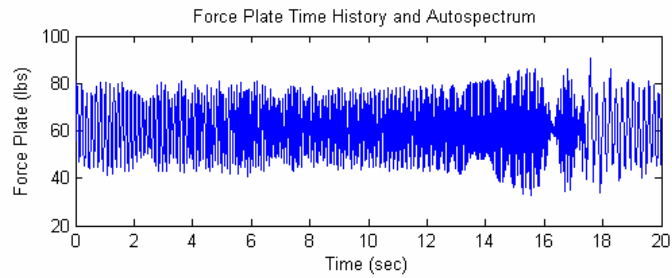
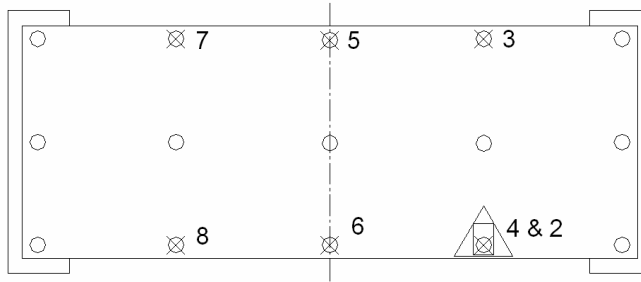


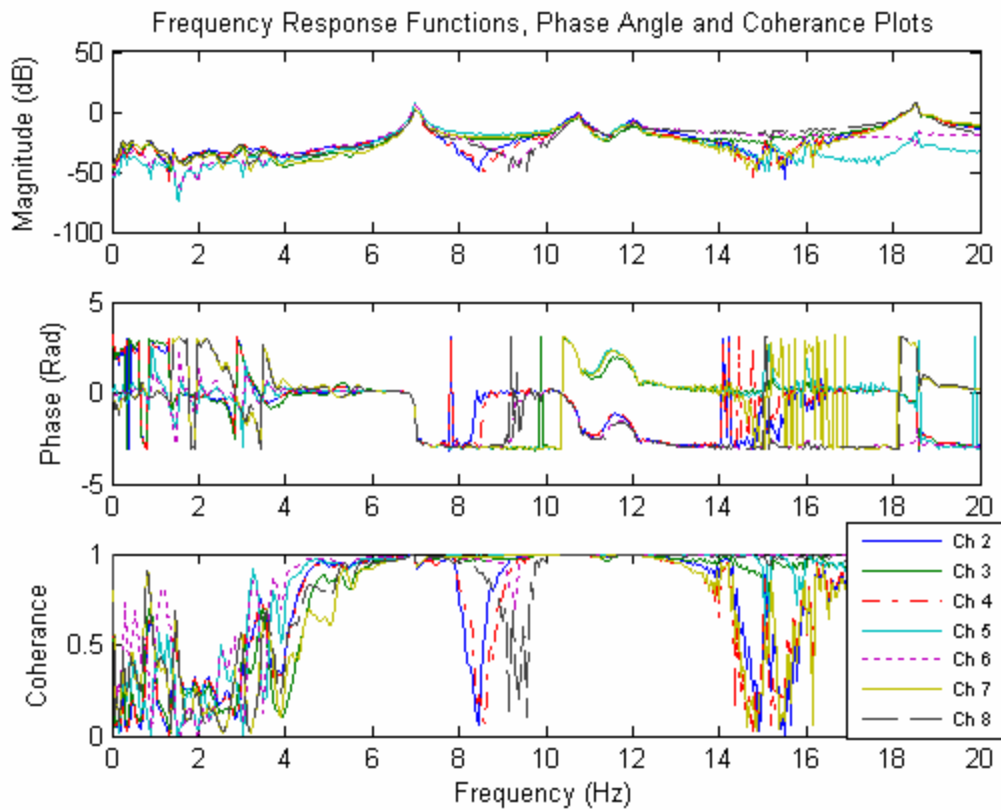
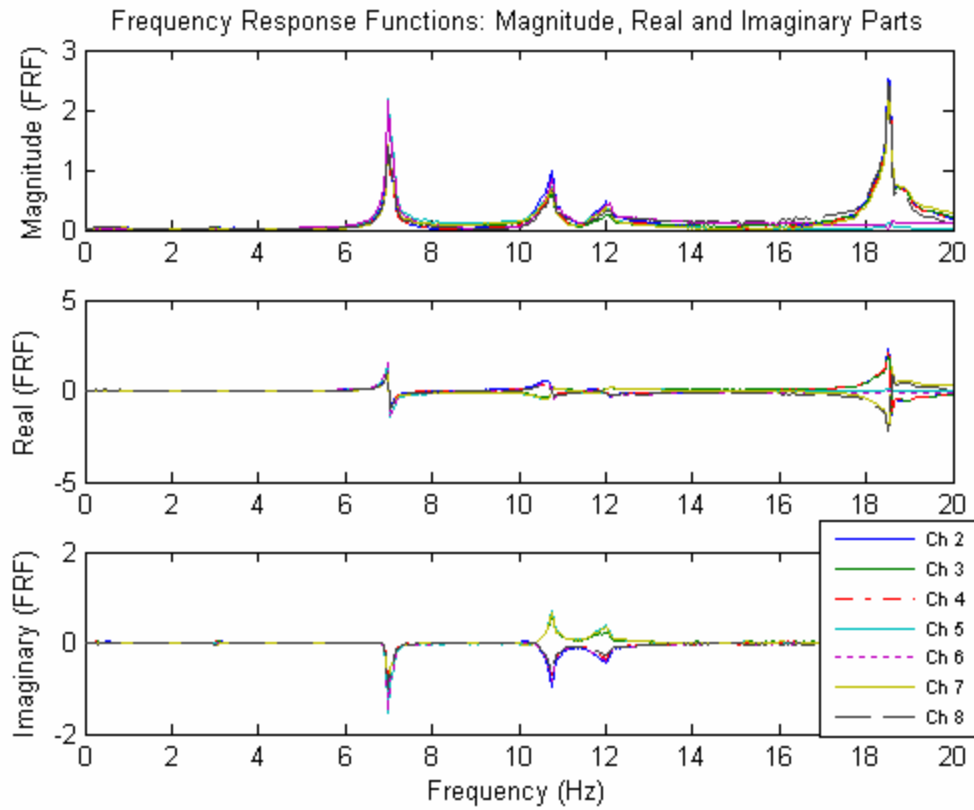
Single Span Floor- Stage 2- Bottom Chord Extensions Removed- Test 14



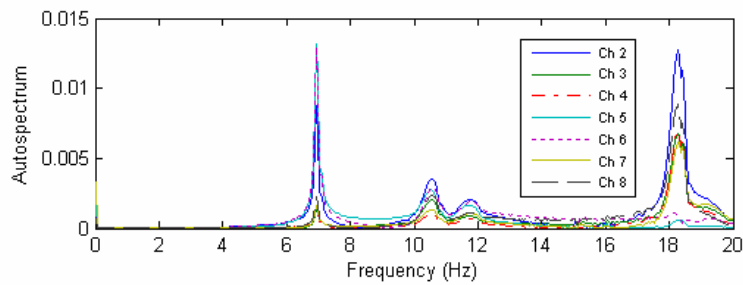
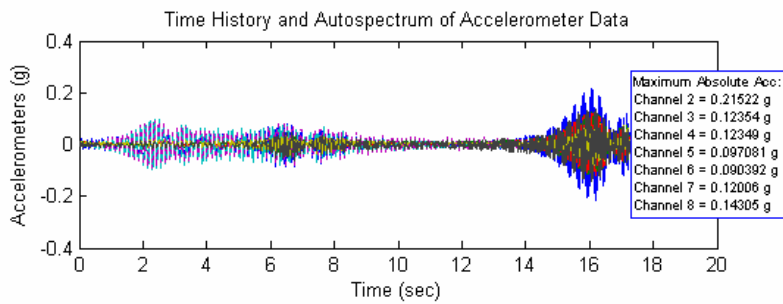
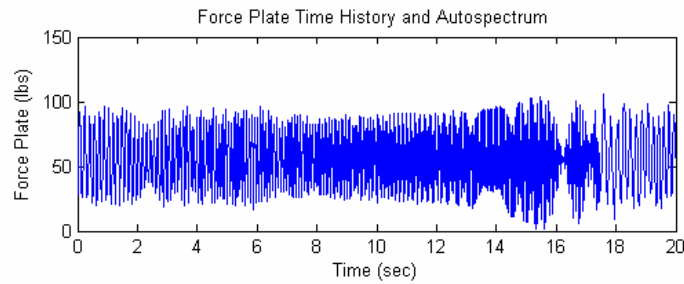
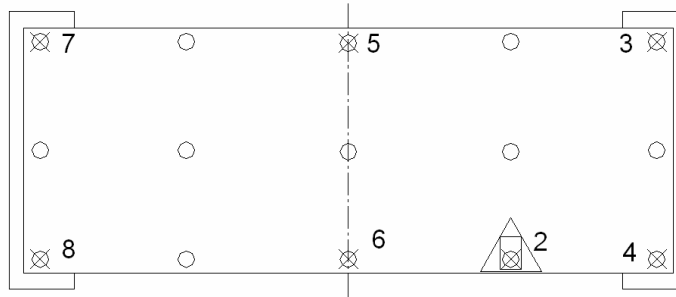


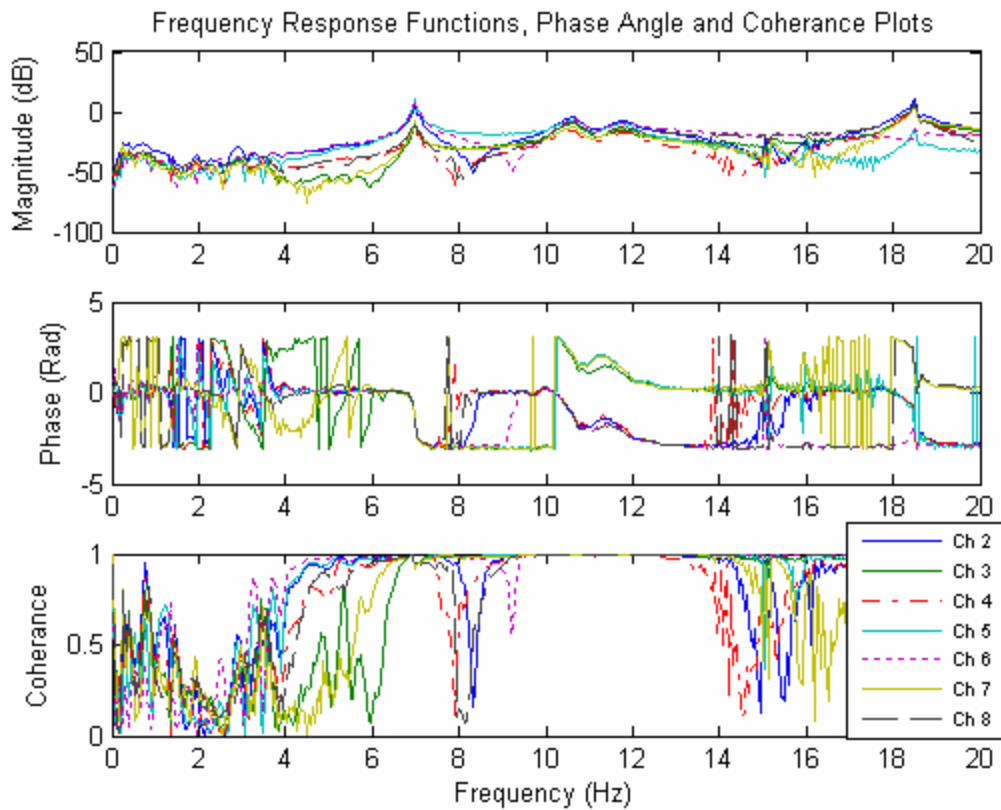
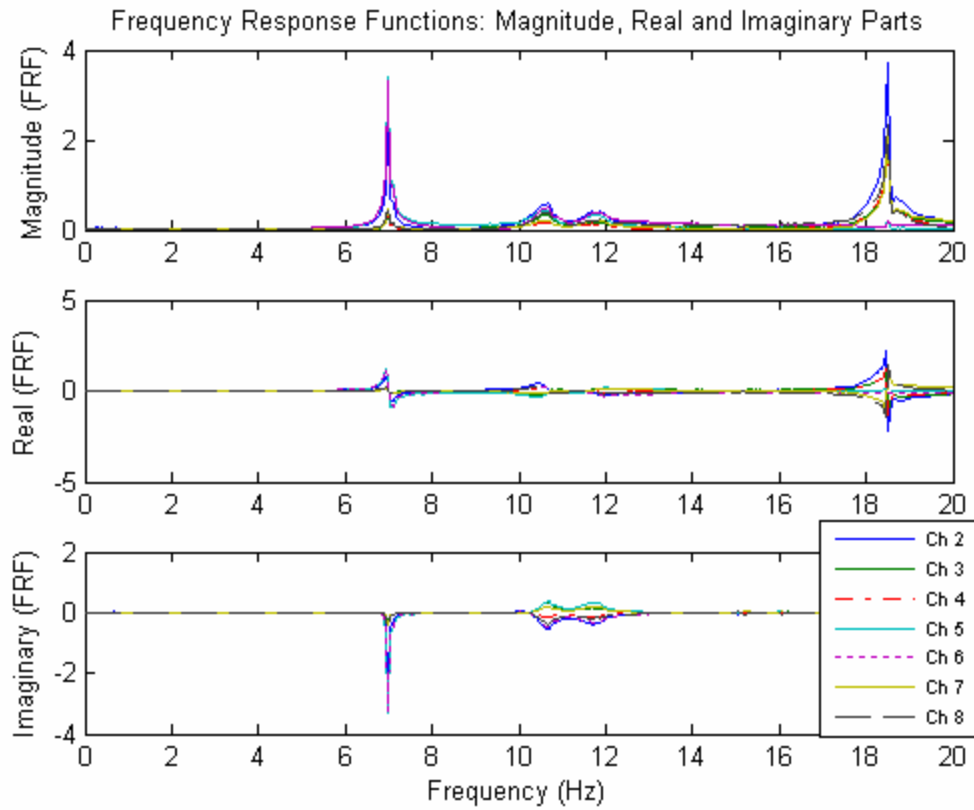
Single Span Floor- Stage 2- Bottom Chord Extensions Removed- Test 15



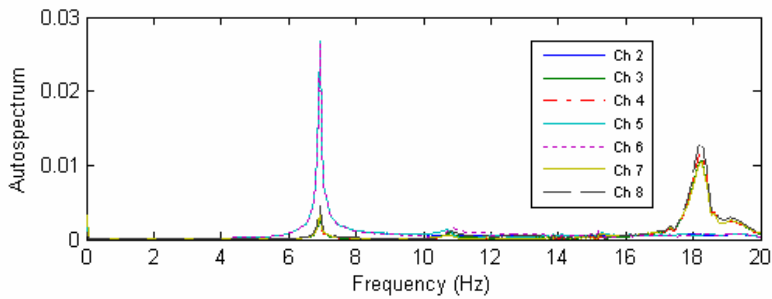
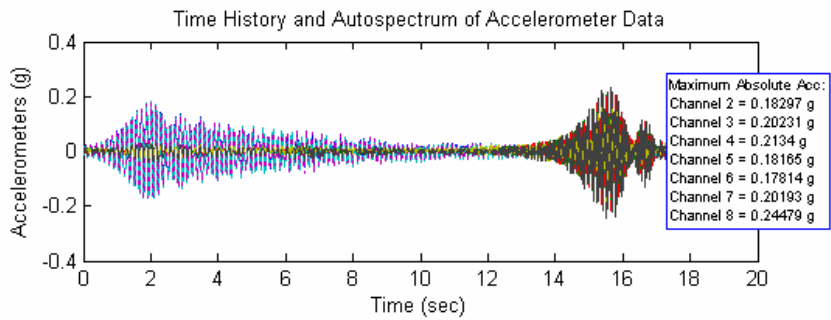
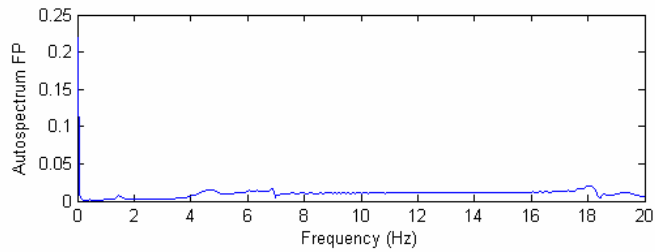
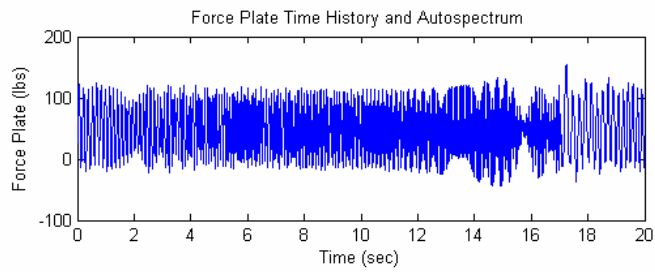
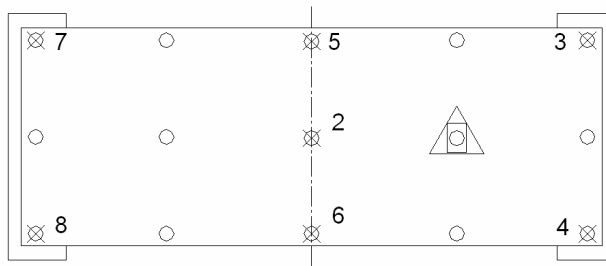


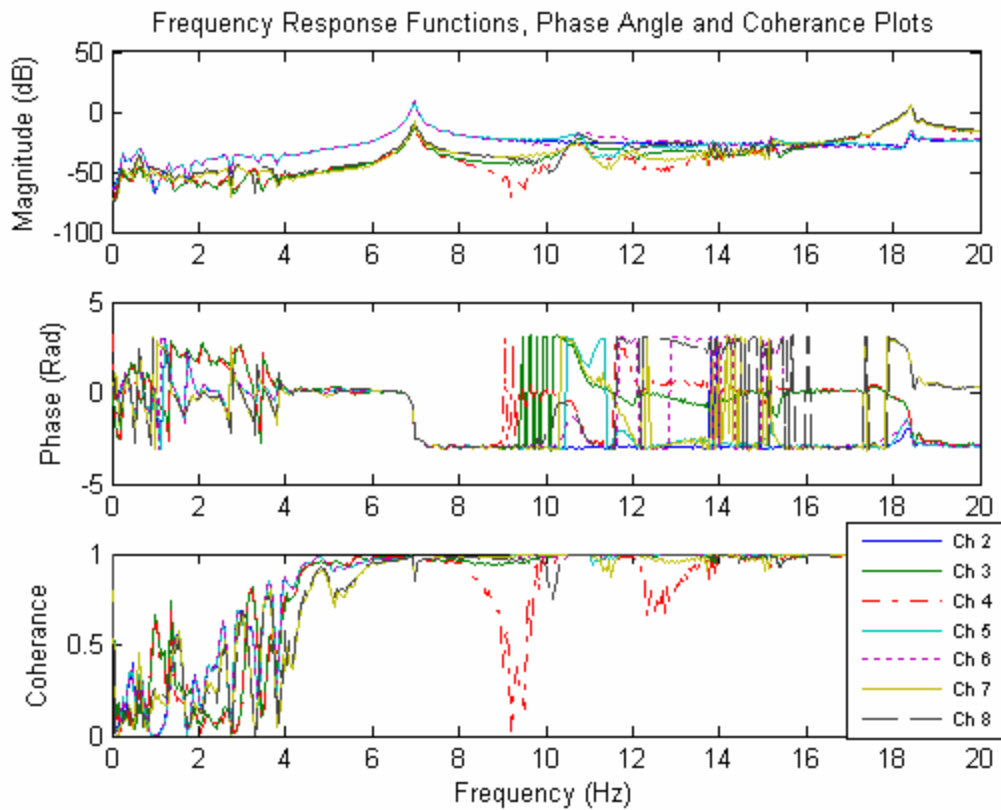
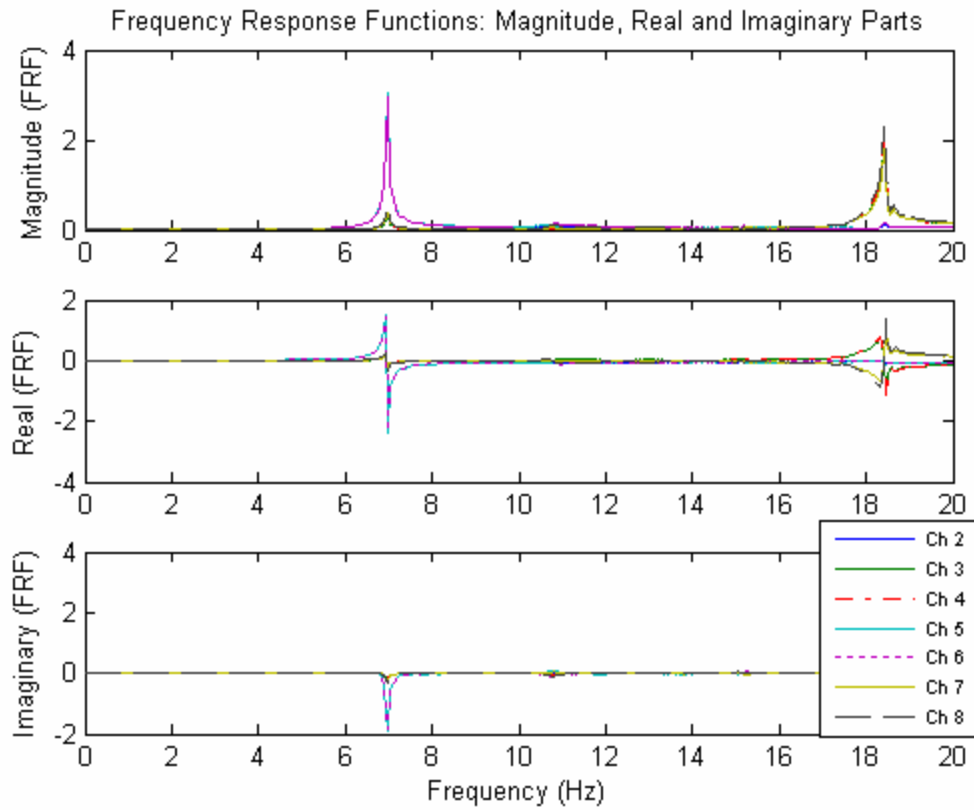
Single Span Floor- Stage 2- Bottom Chord Extensions Removed- Test 16



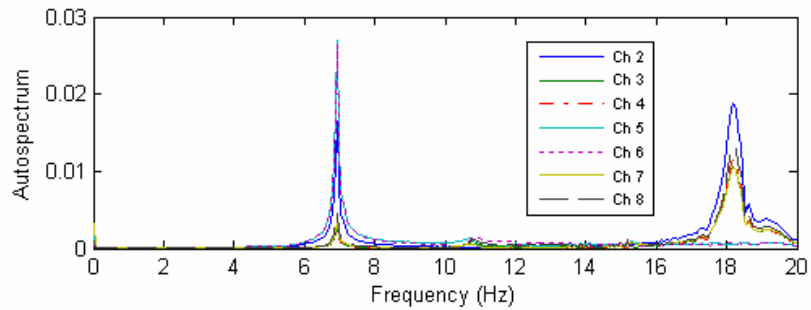
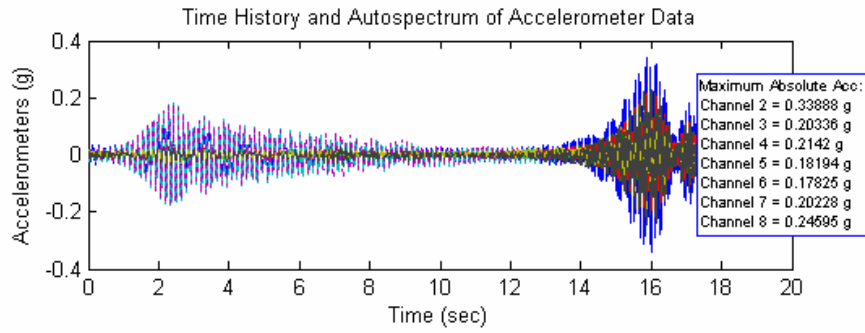
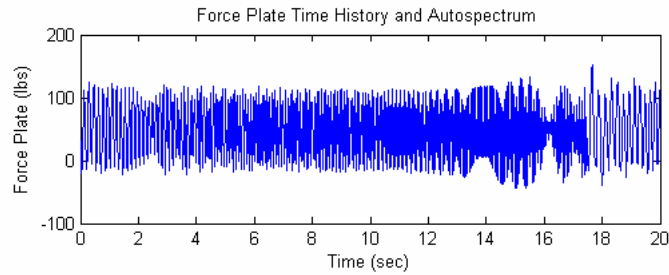
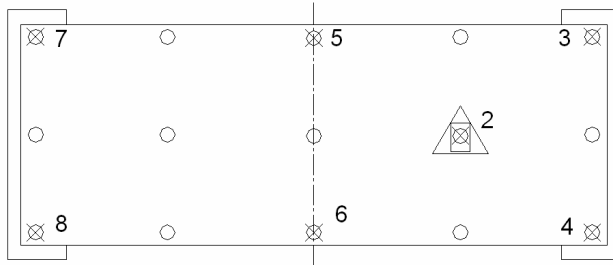


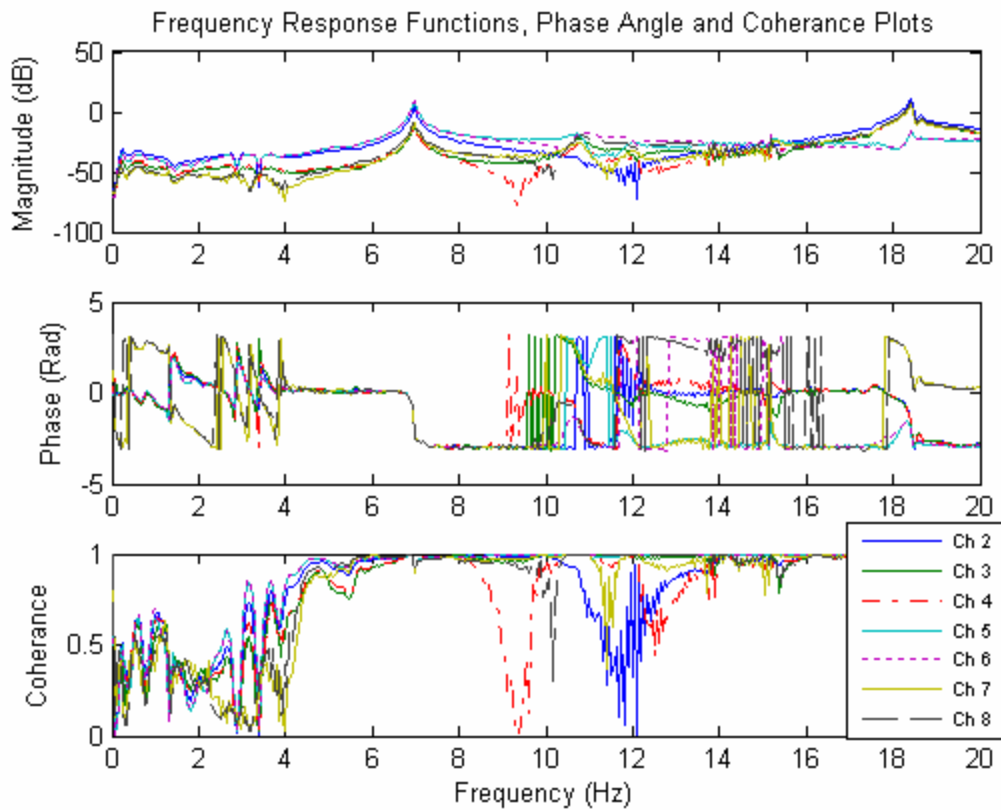
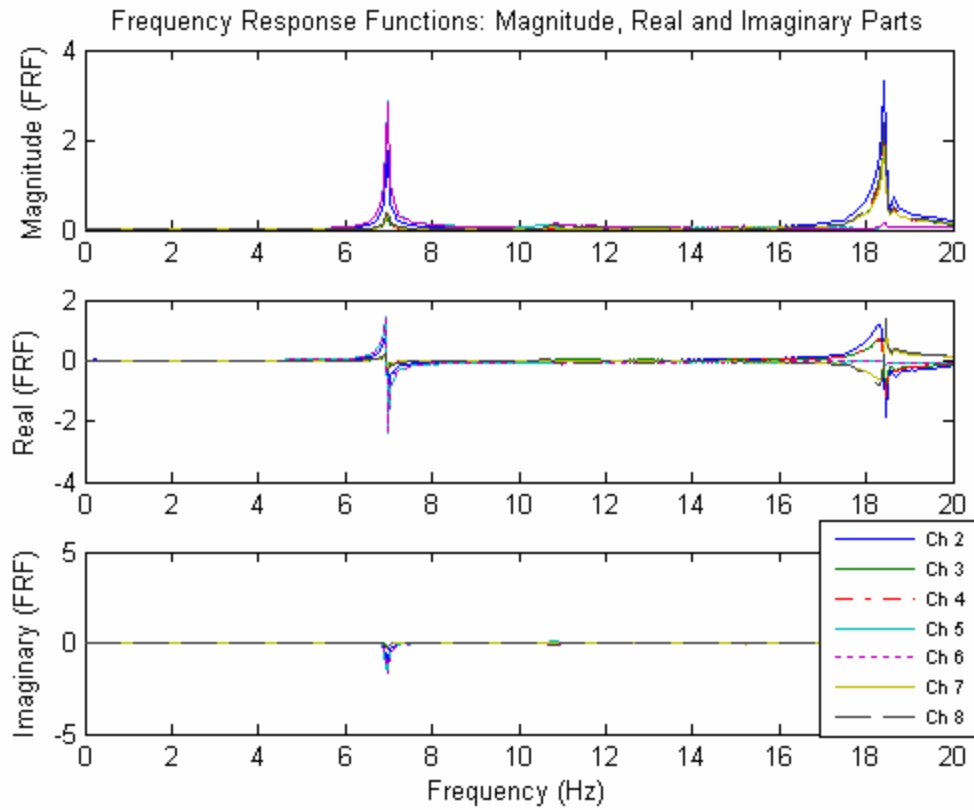
Single Span Floor- Stage 2- Bottom Chord Extensions Removed- Test 17



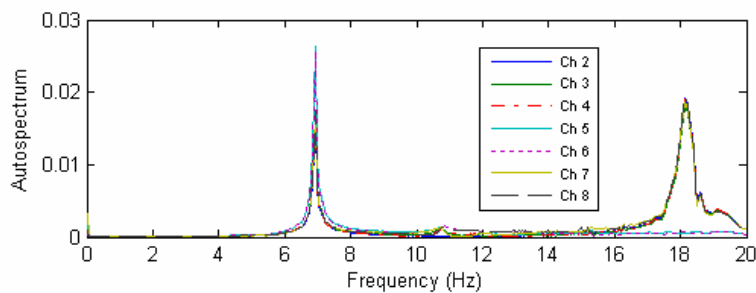
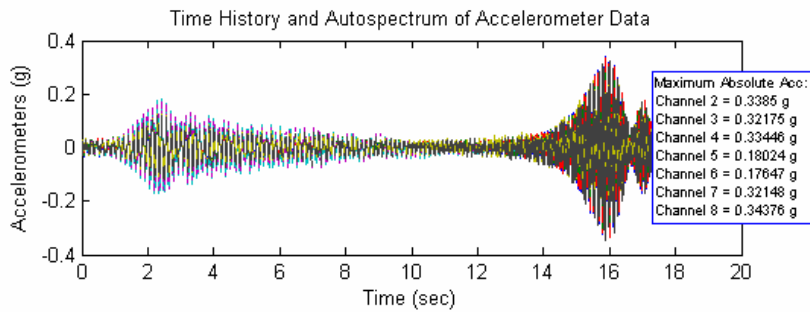
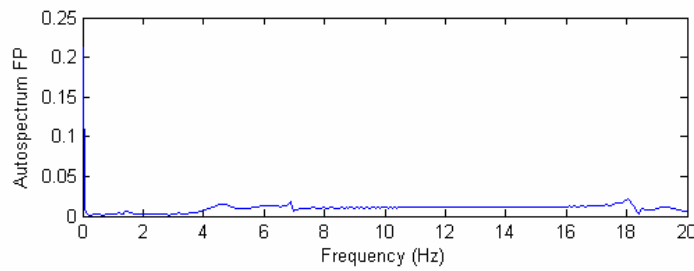
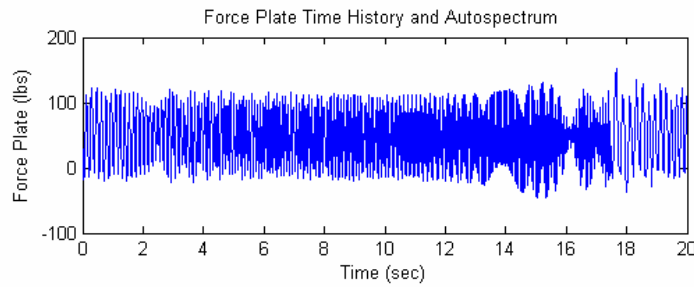
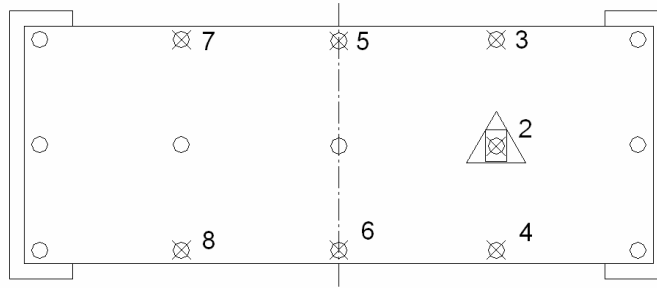


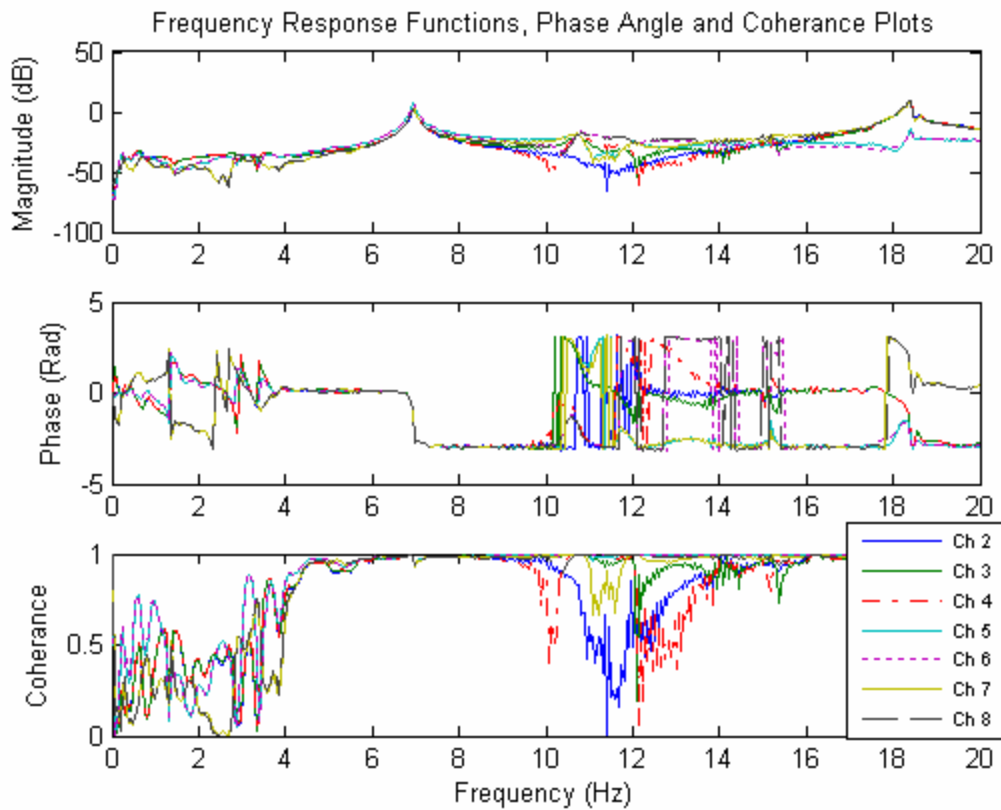
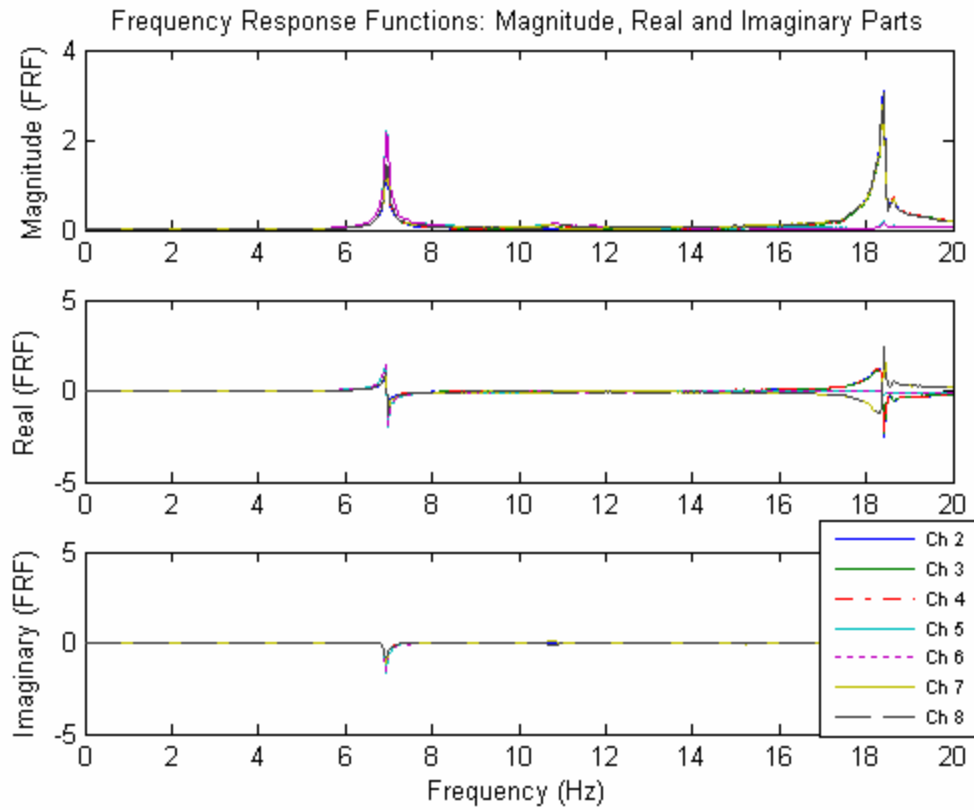
Single Span Floor- Stage 2- Bottom Chord Extensions Removed- Test 18



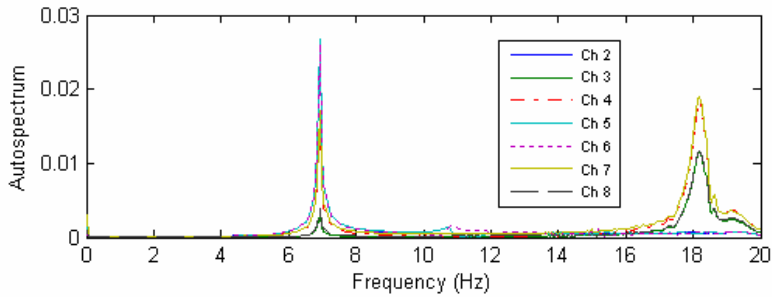
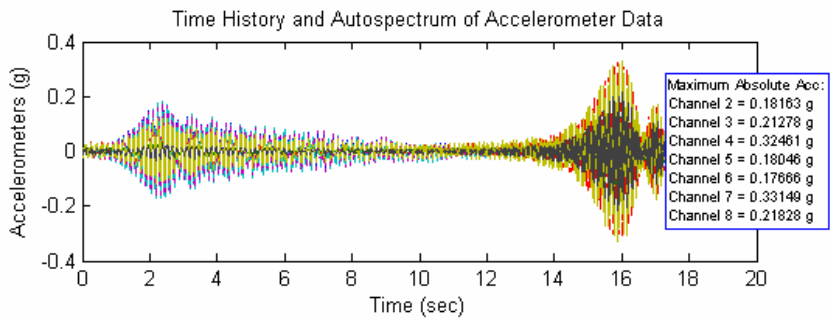
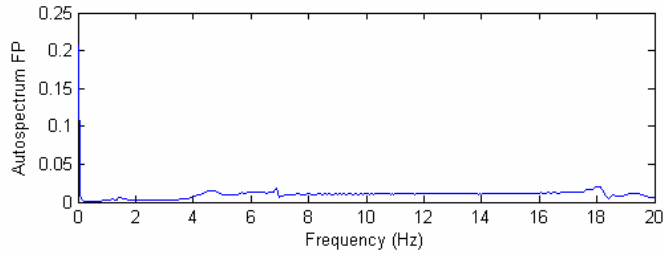
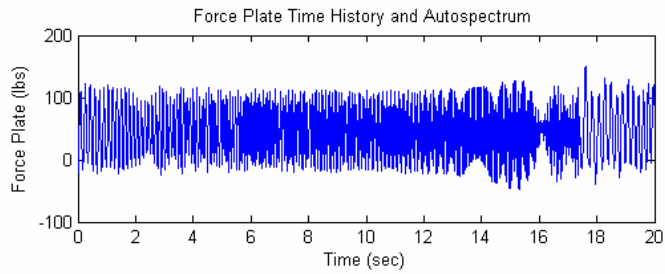
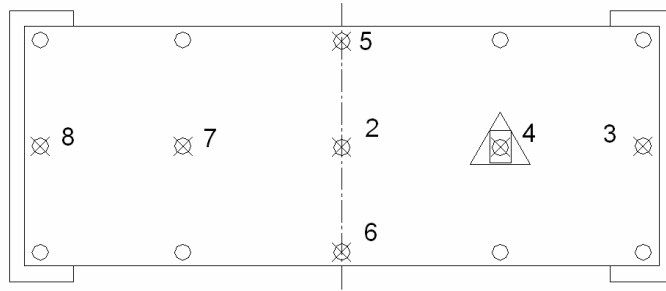


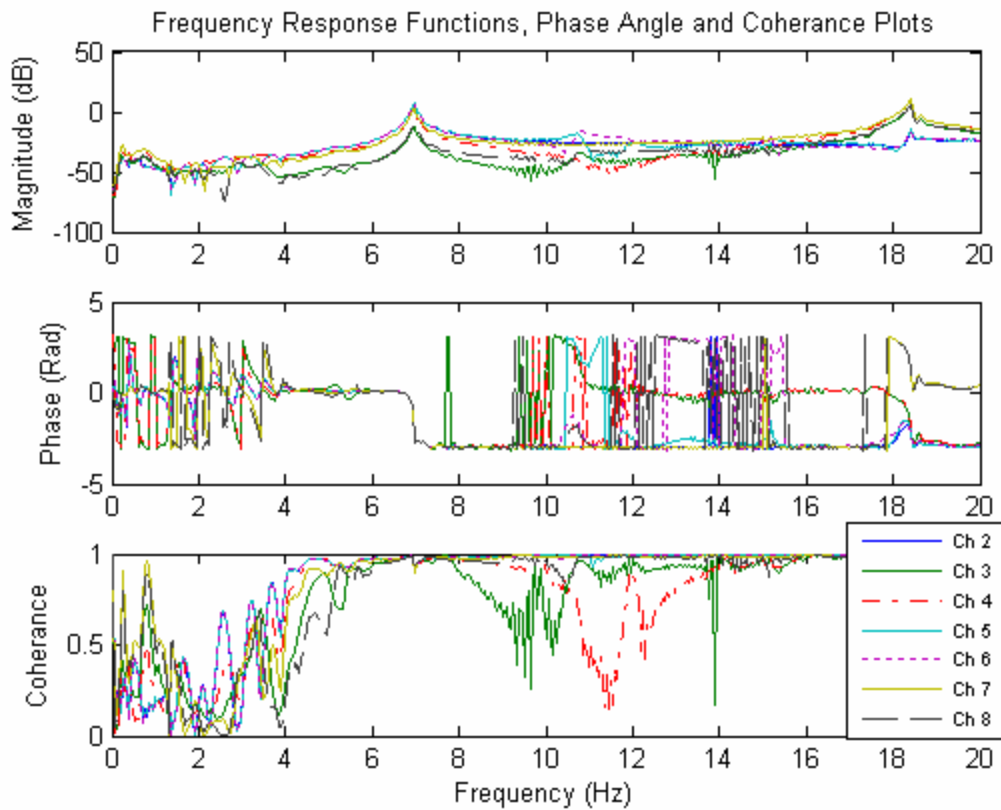
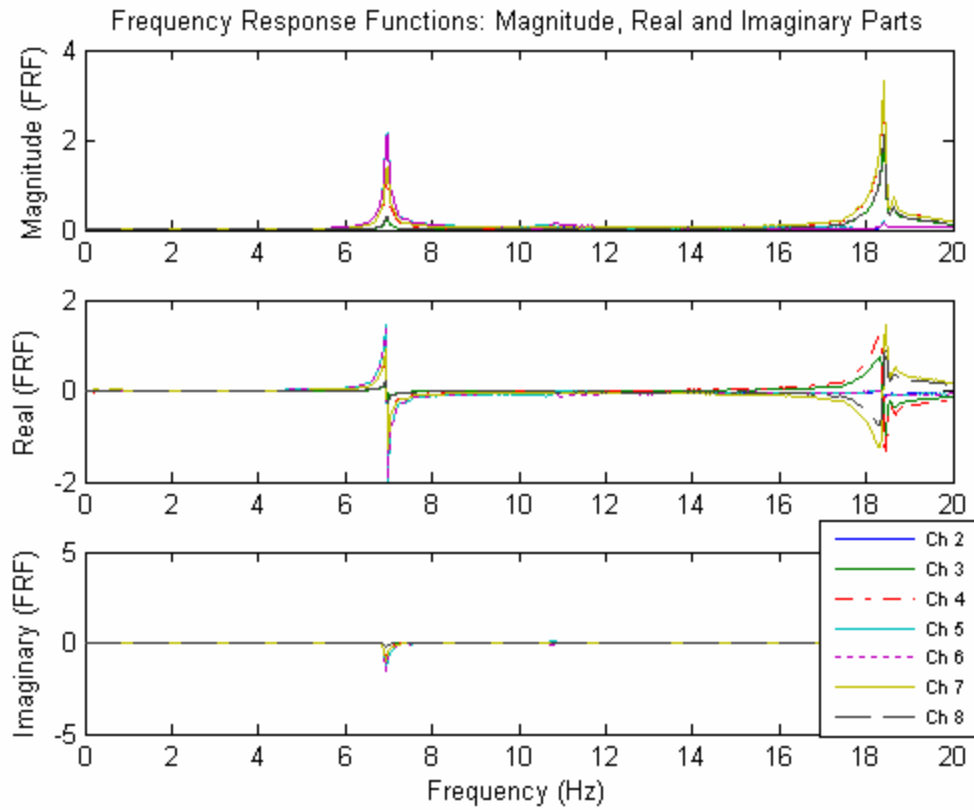
Single Span Floor- Stage 2- Bottom Chord Extensions Removed- Test 19



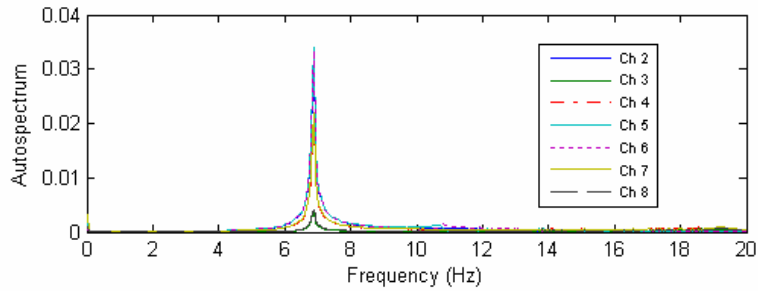
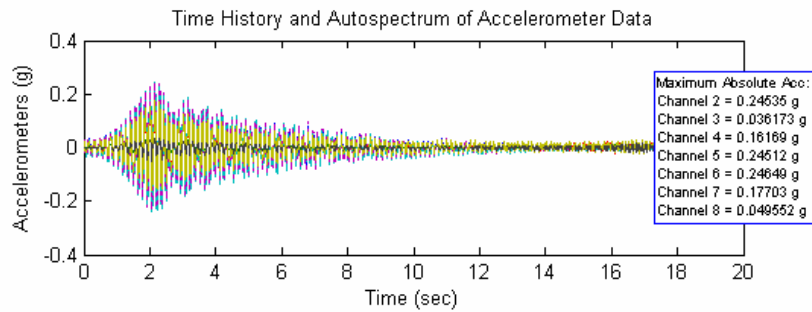
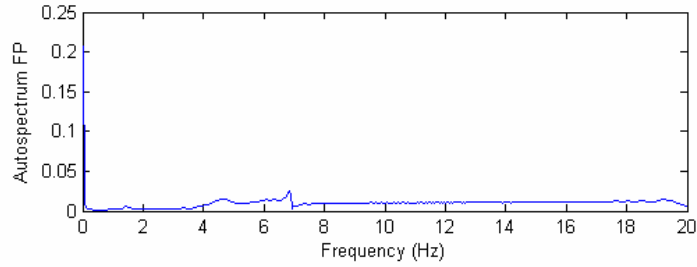
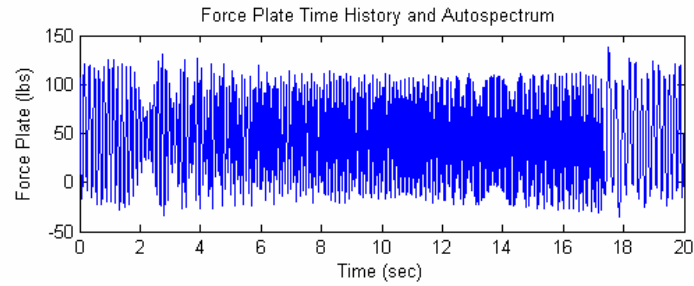
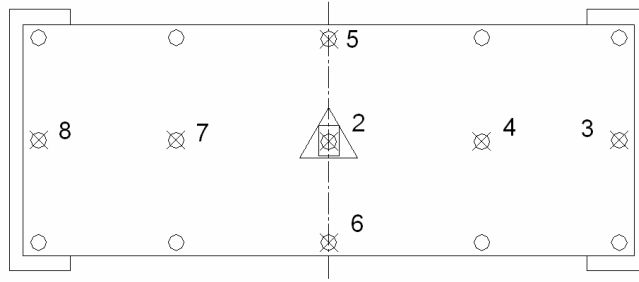


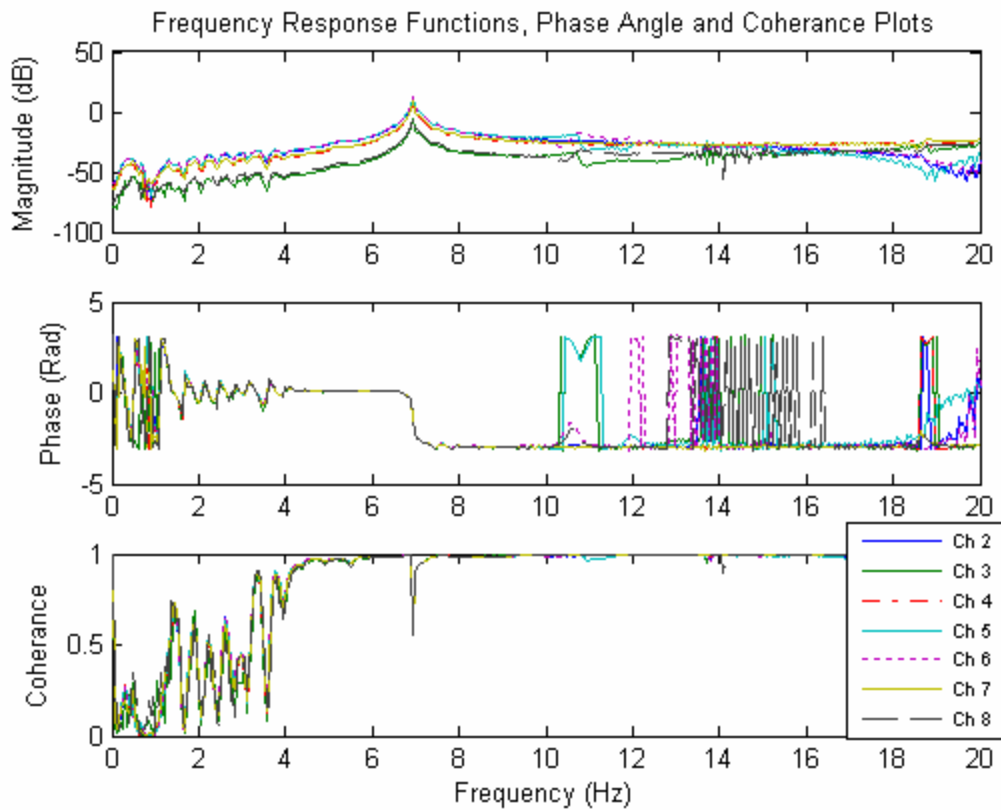
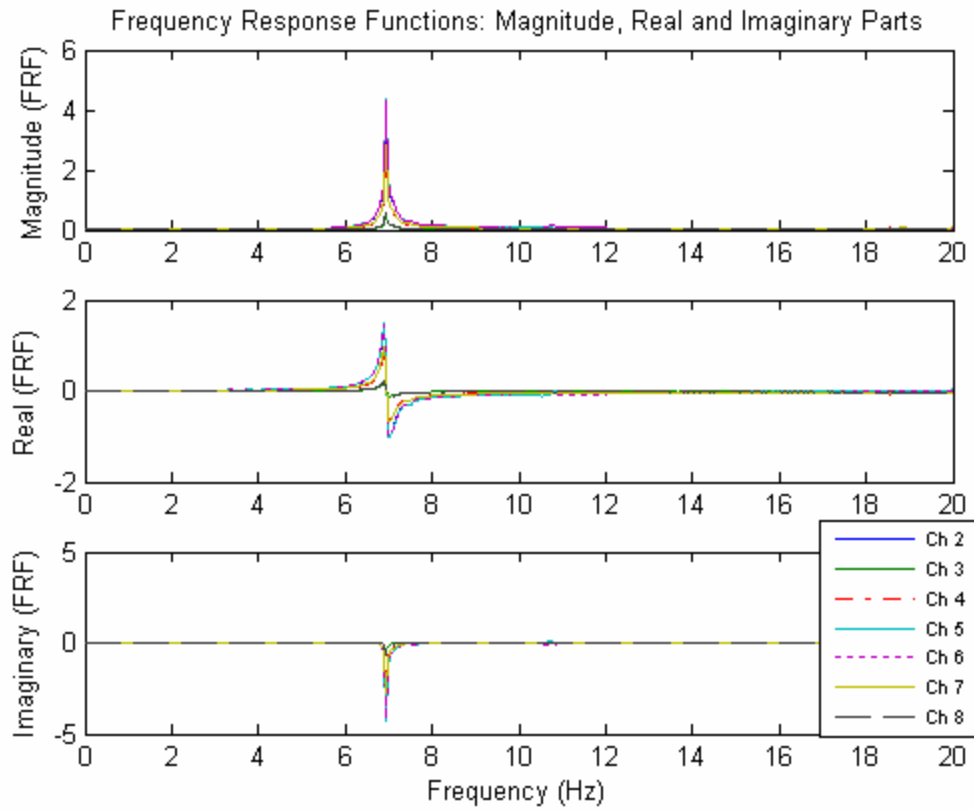
Single Span Floor- Stage 2- Bottom Chord Extensions Removed- Test 20



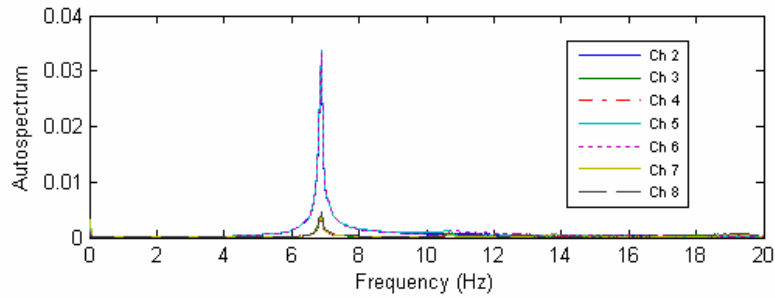
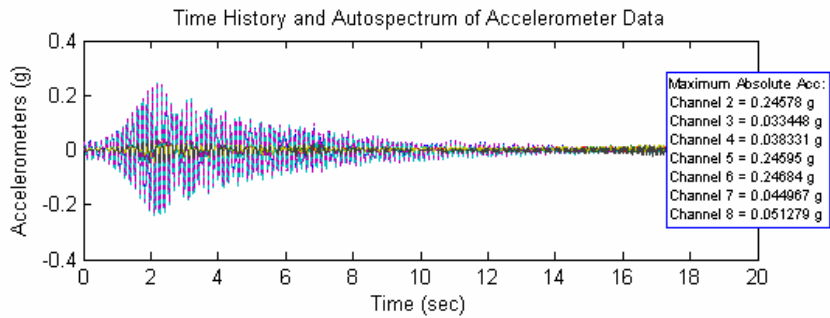
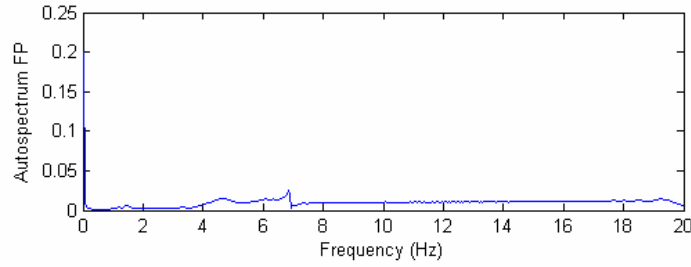
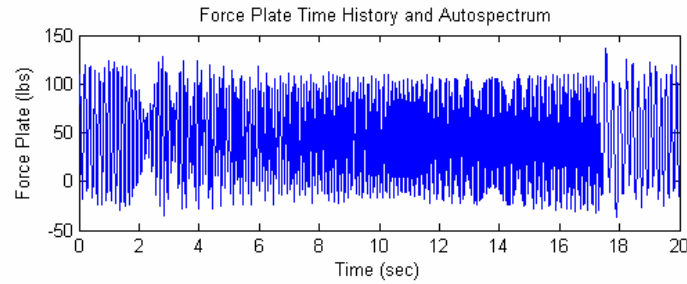
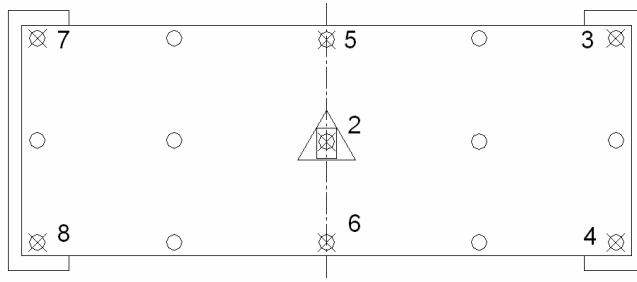


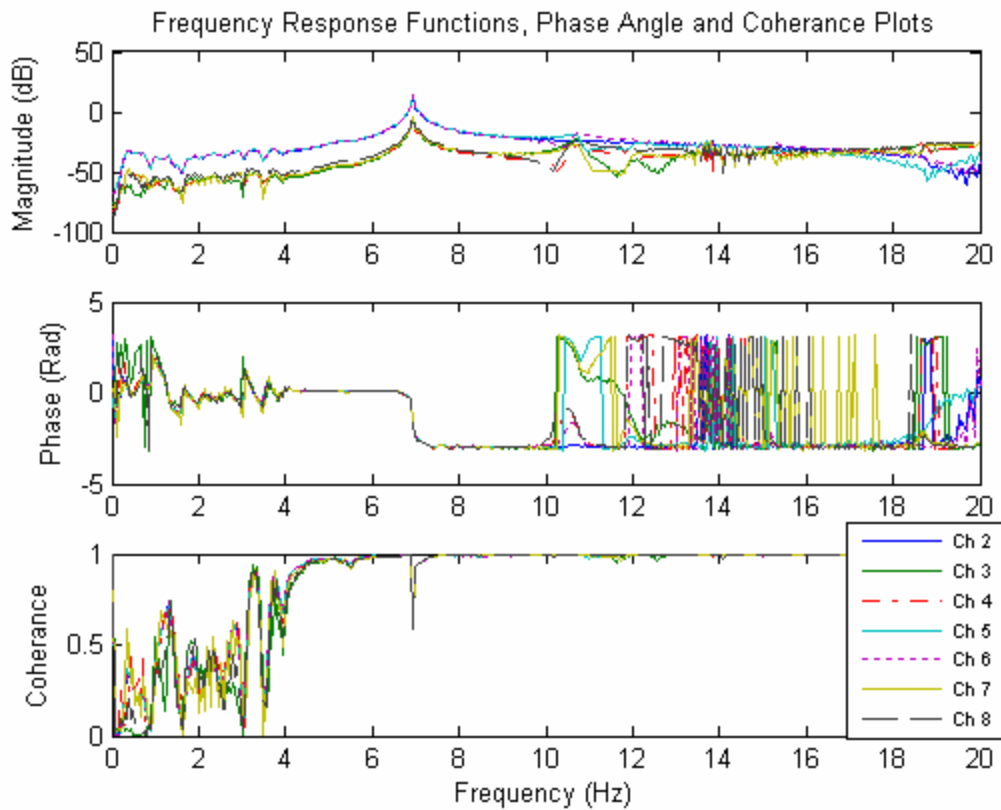
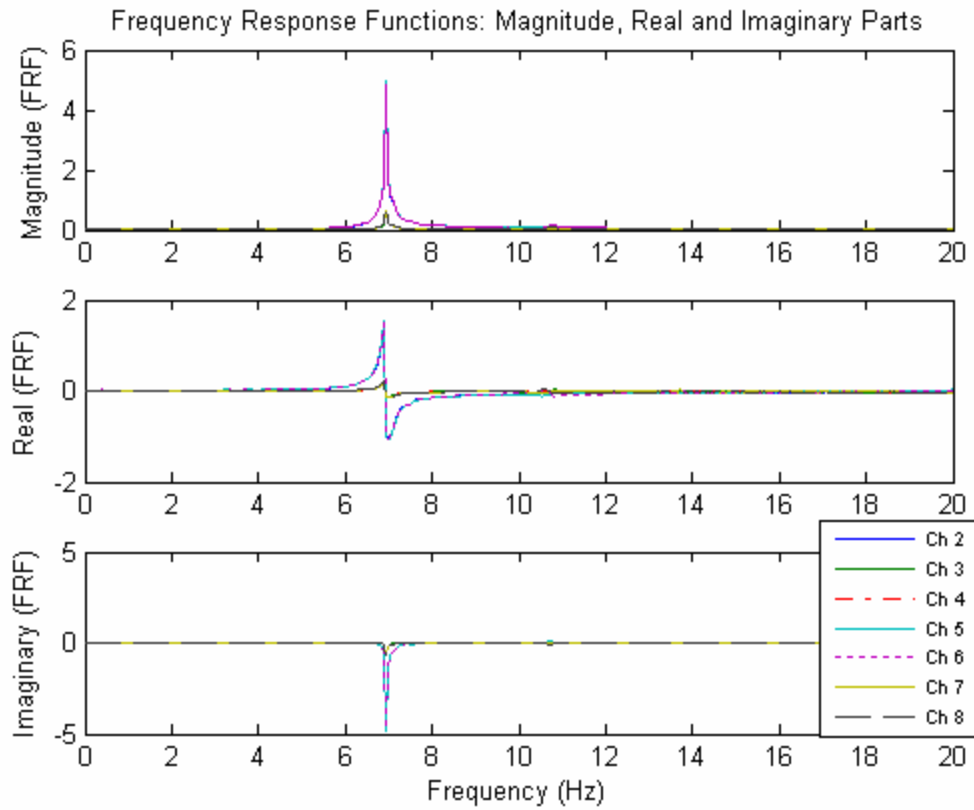
Single Span Floor- Stage 2- Bottom Chord Extensions Removed- Test 21



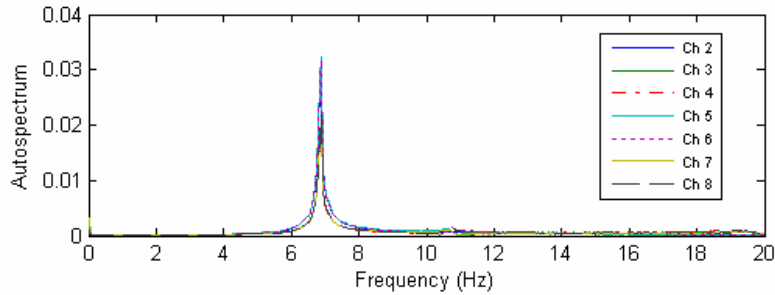
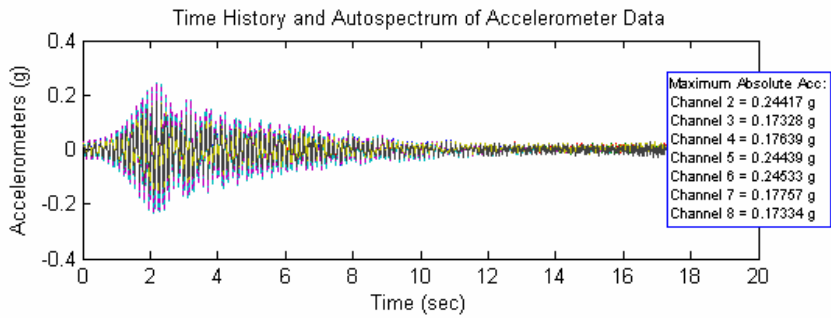
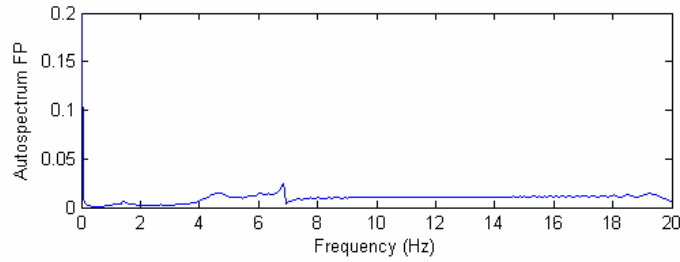
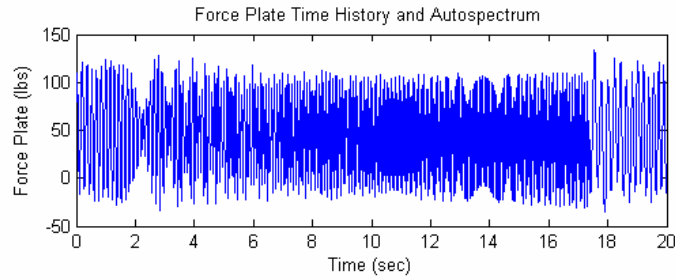
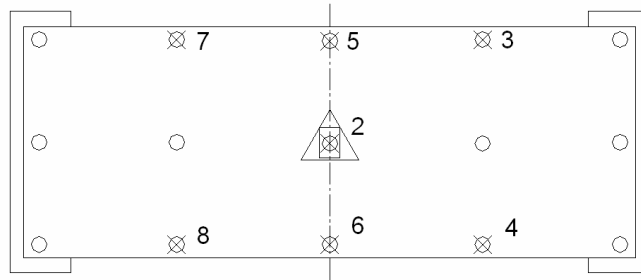


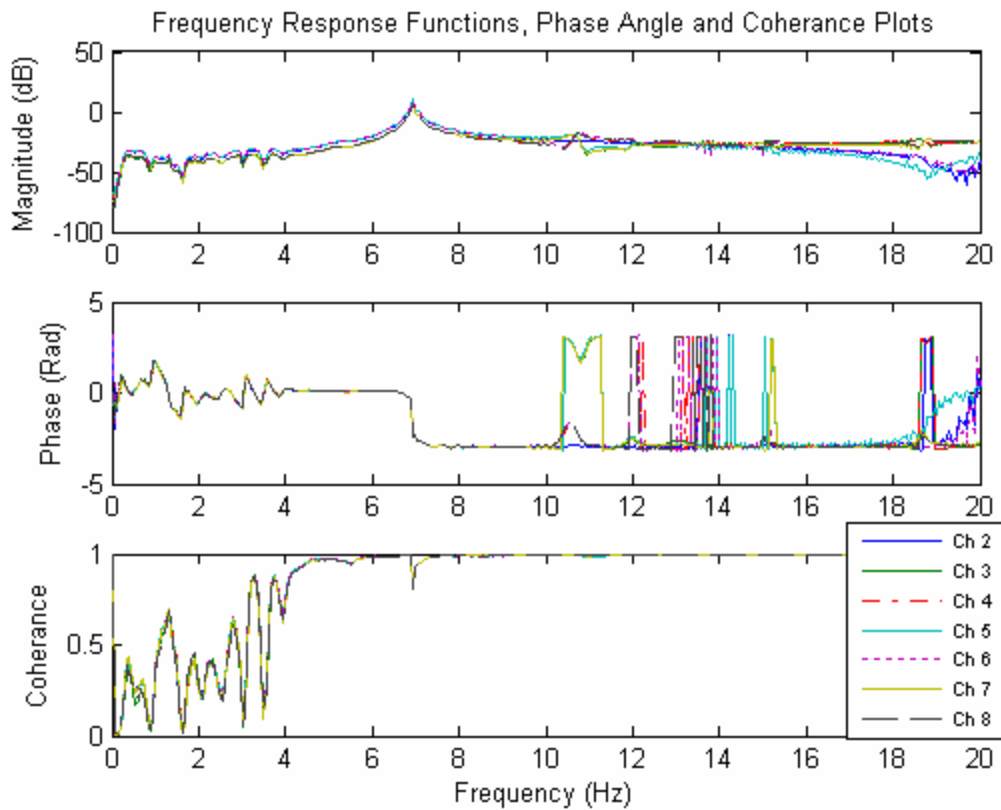
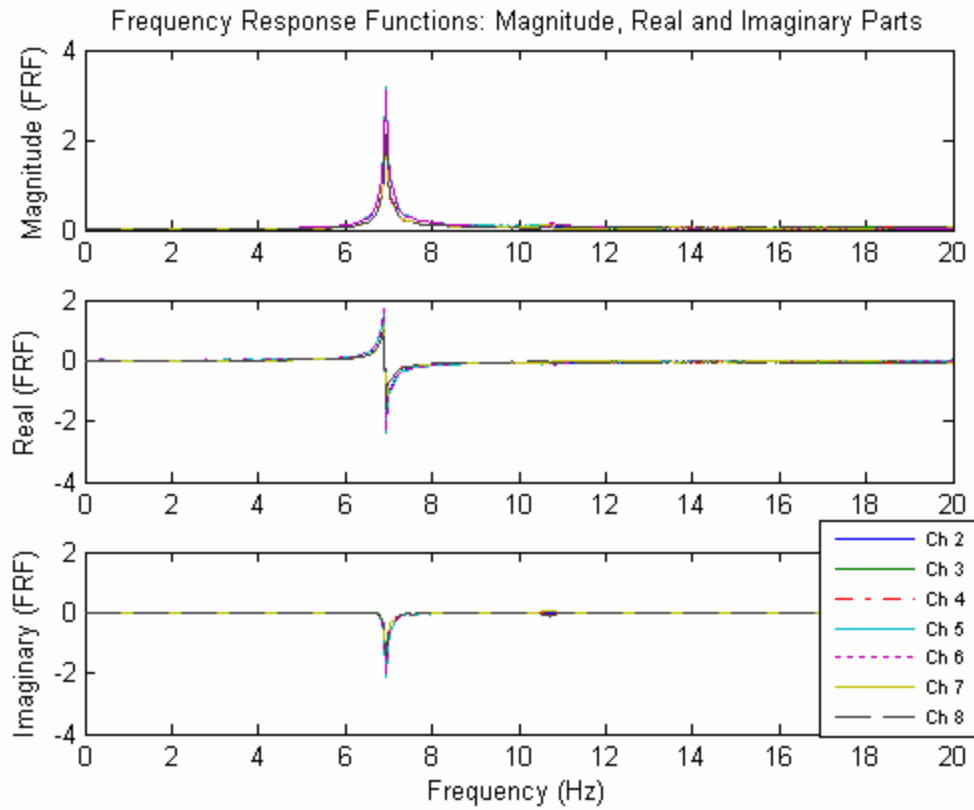
Single Span Floor- Stage 2- Bottom Chord Extensions Removed- Test 22



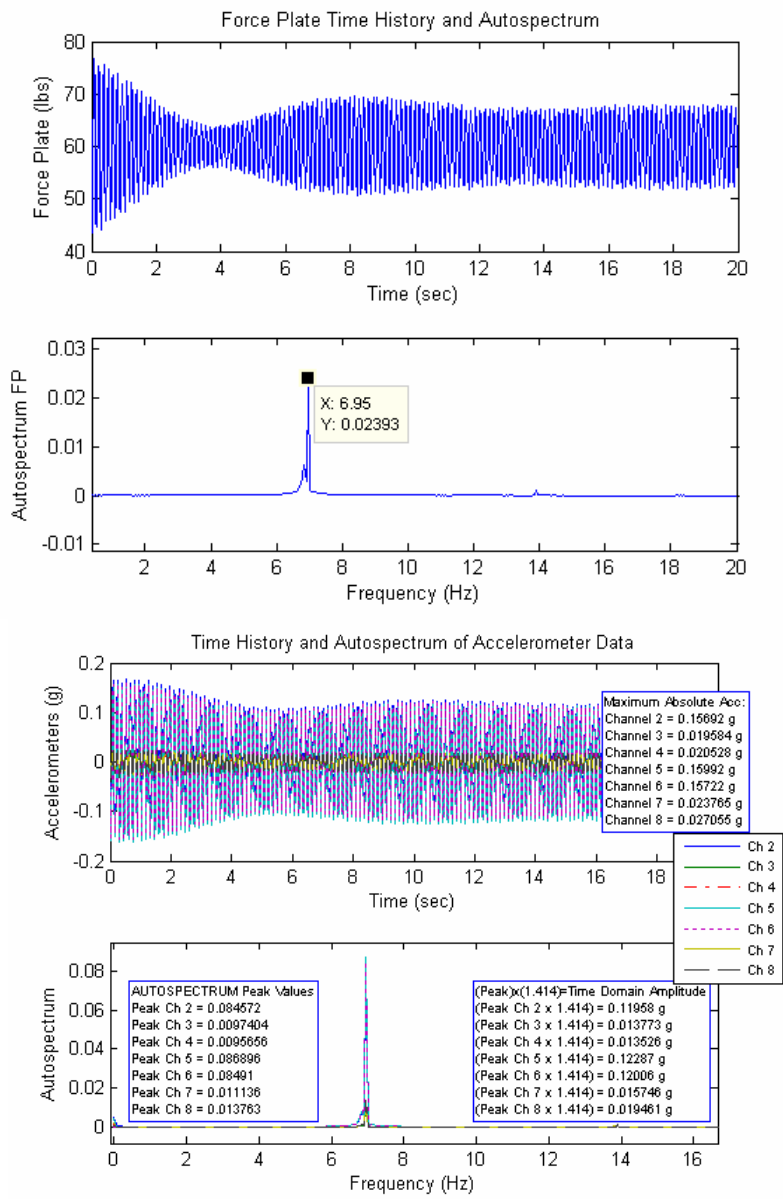
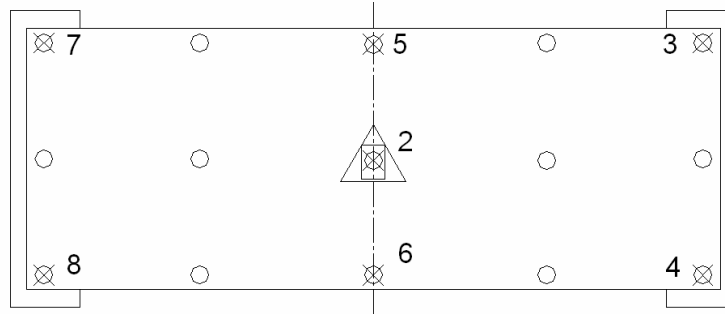


Single Span Floor- Stage 2- Bottom Chord Extensions Removed- Test 23

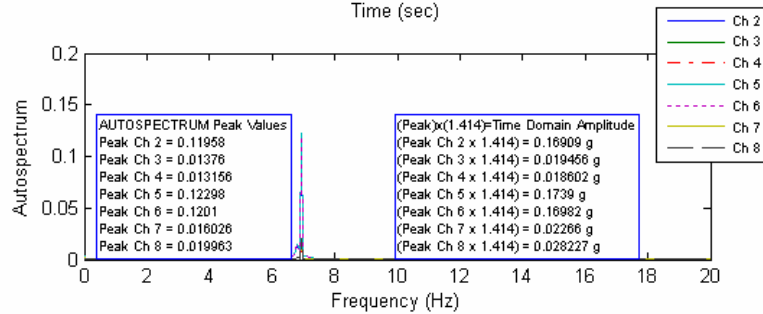
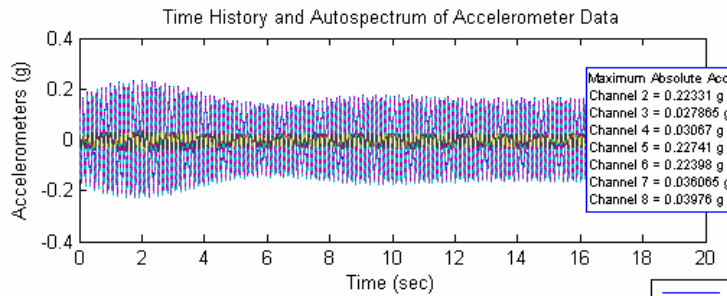
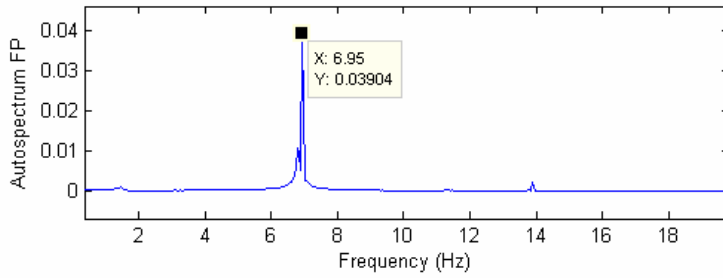
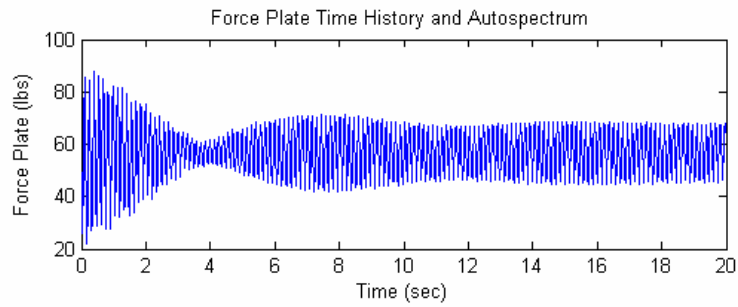
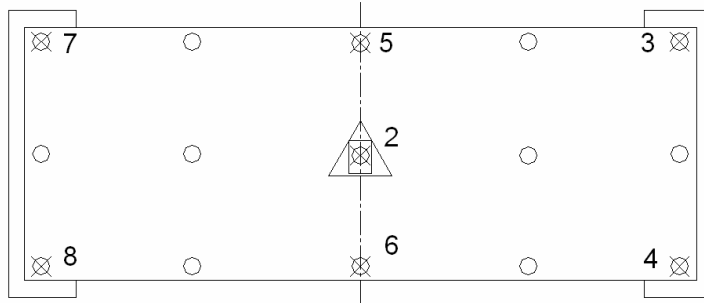




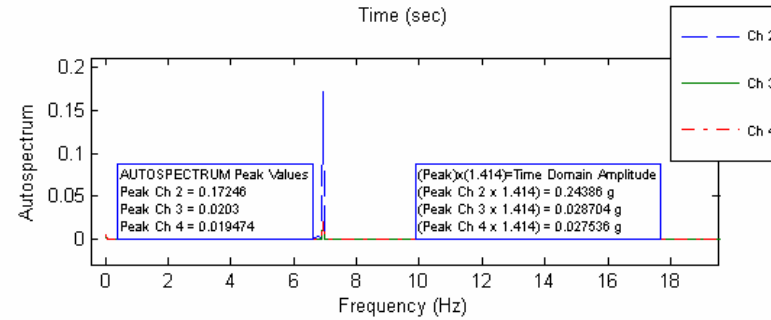
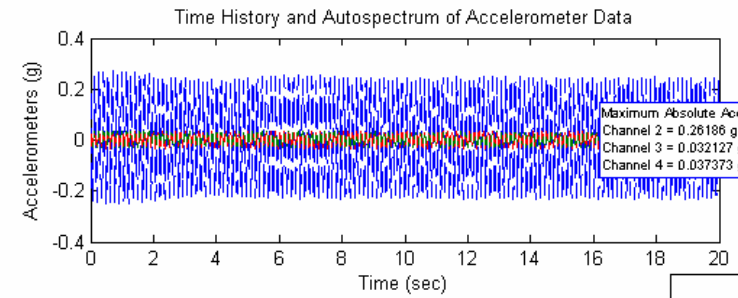
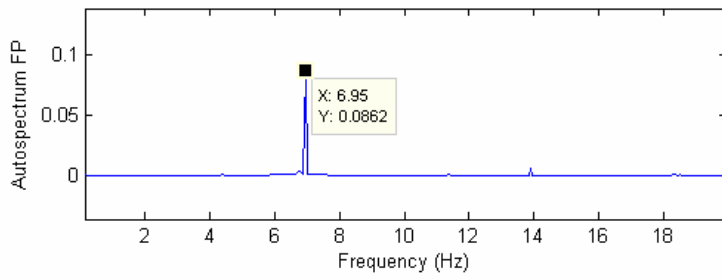
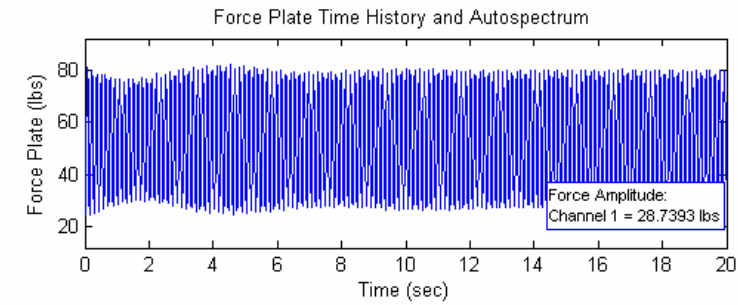
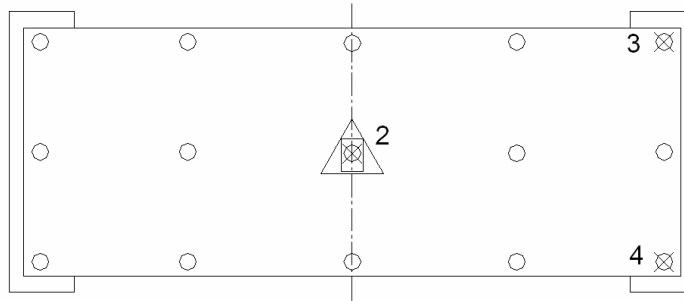
Single Span Floor- Stage 2- Bottom Chord Extensions Removed- Test 24



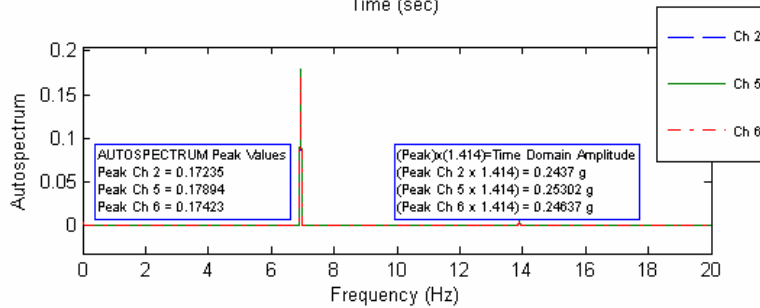
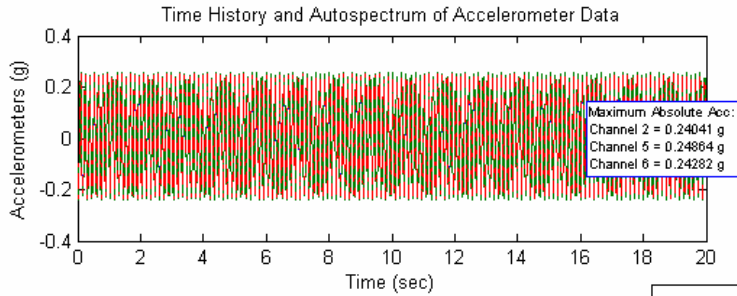
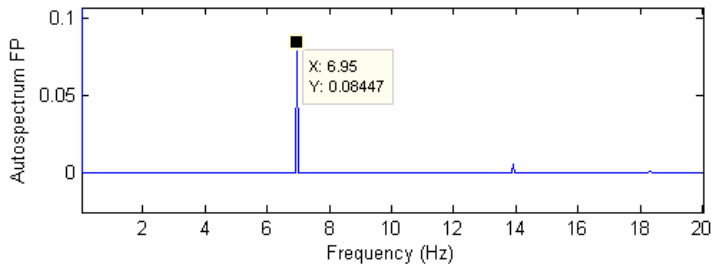
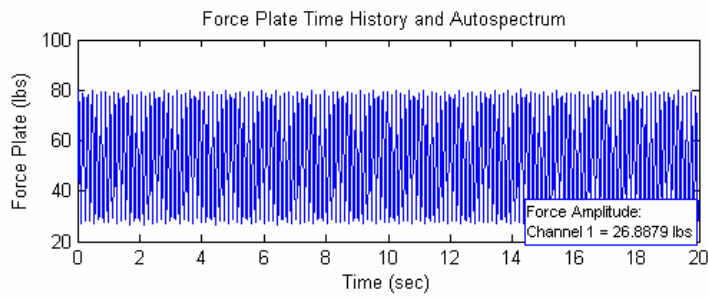
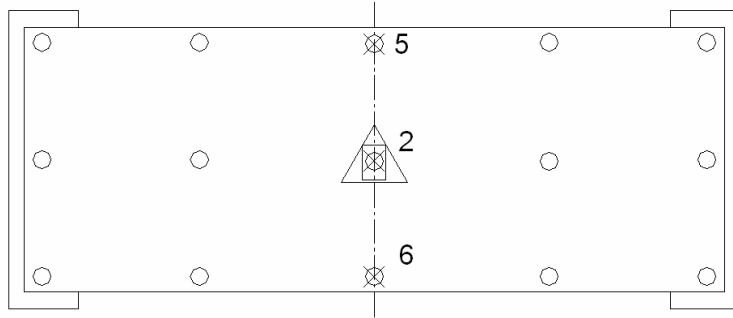
Single Span Floor- Stage 2- Bottom Chord Extensions Removed- Test 25



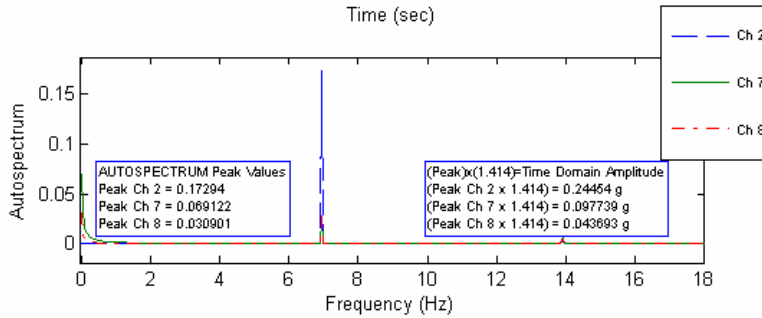
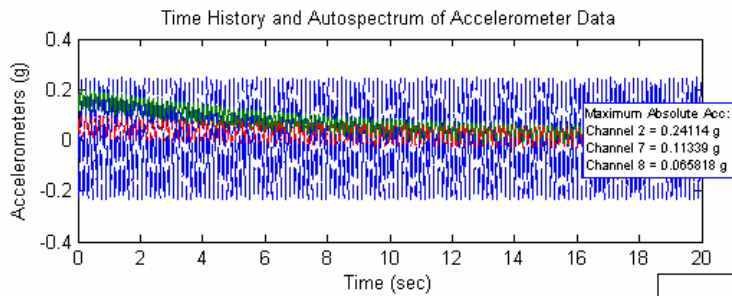
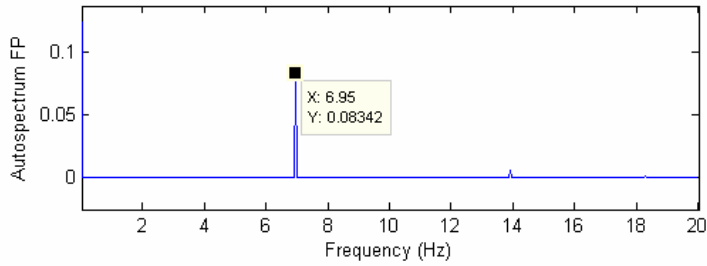
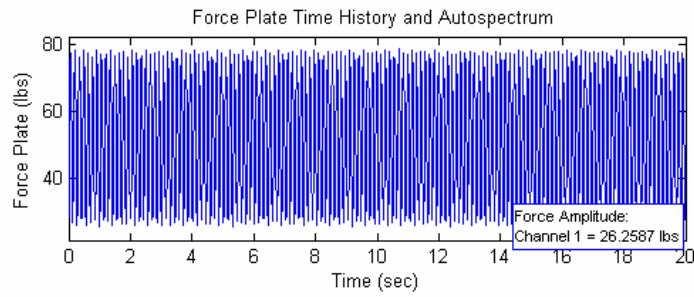
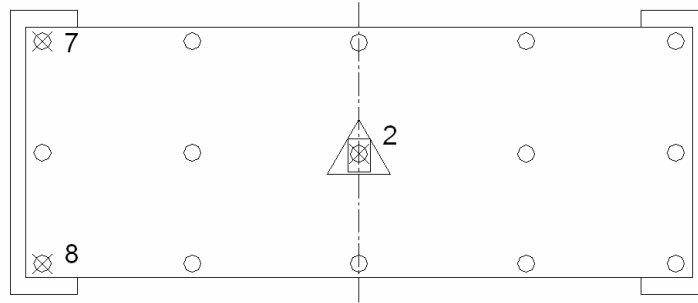
Single Span Floor- Stage 2- Bottom Chord Extensions Removed- Test 26a



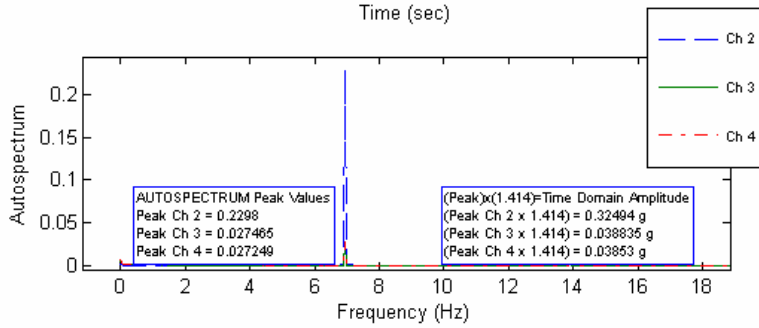
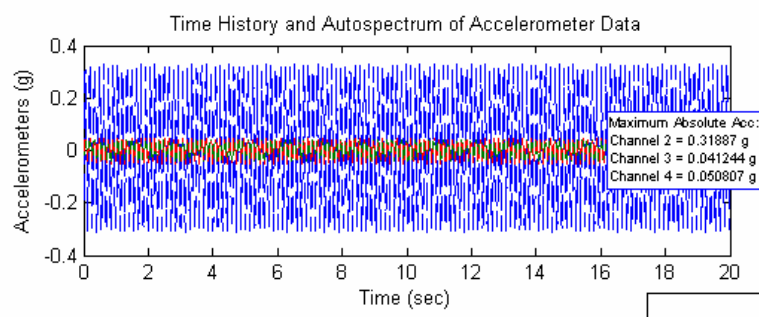
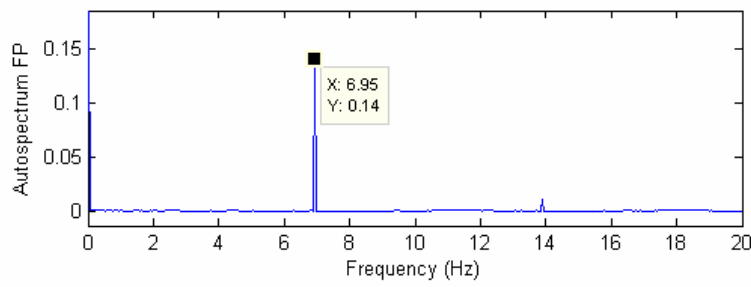
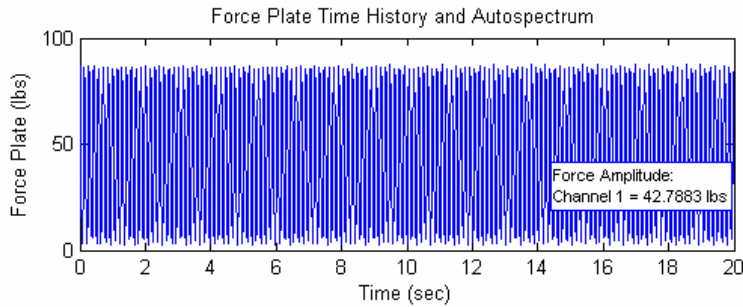
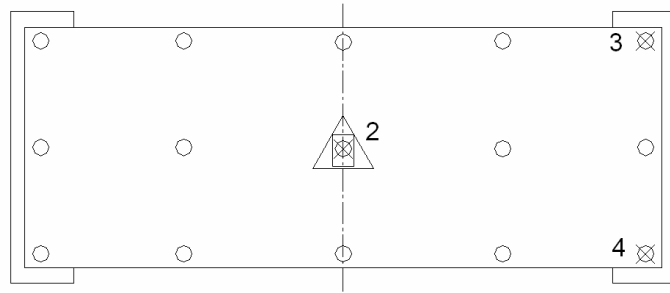
Single Span Floor- Stage 2- Bottom Chord Extensions Removed- Test 26b



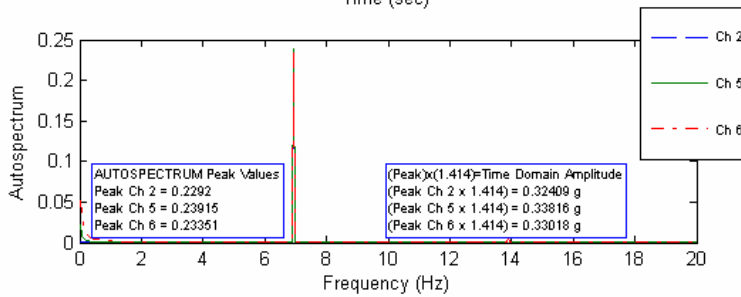
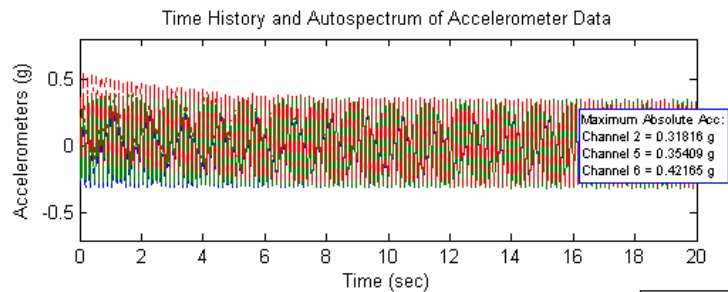
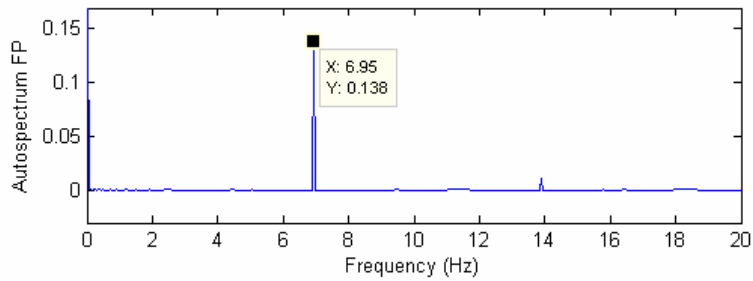
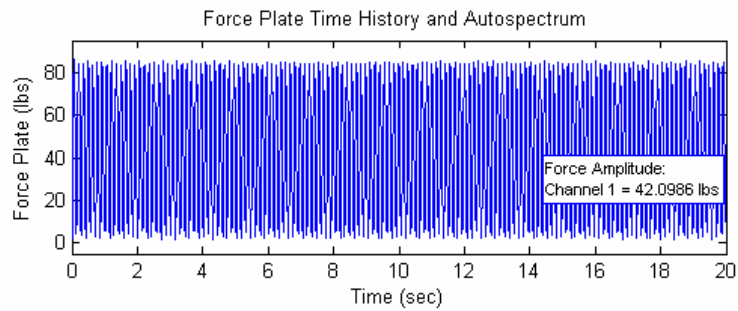
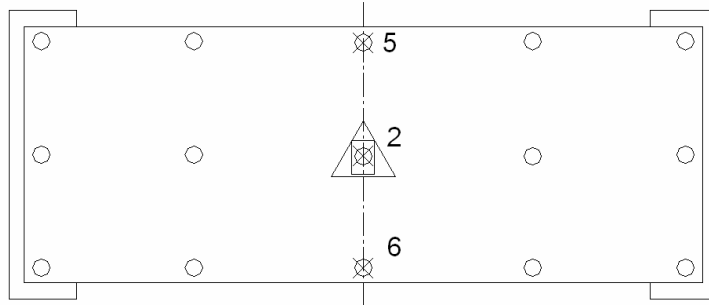
Single Span Floor- Stage 2- Bottom Chord Extensions Removed- Test 26c



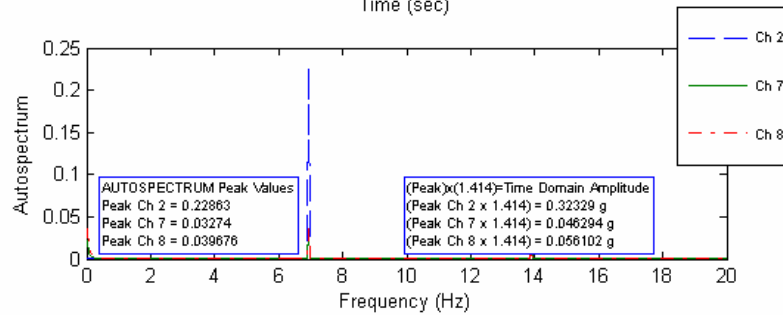
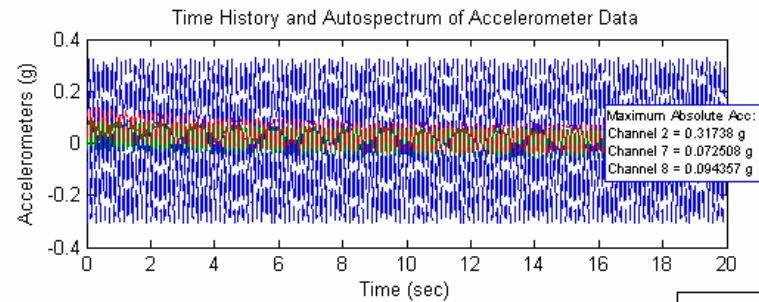
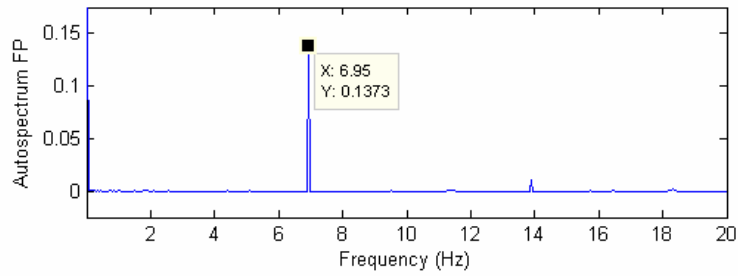
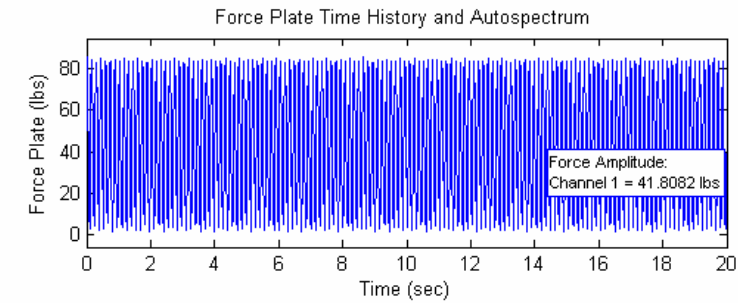
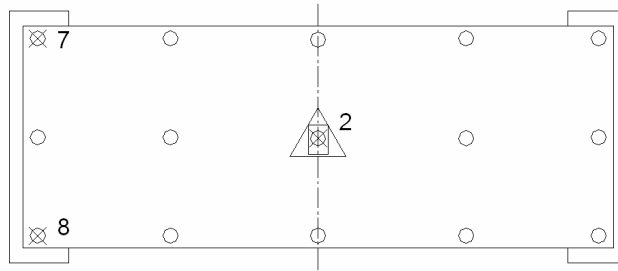
Single Span Floor- Stage 2- Bottom Chord Extensions Removed- Test 27a



Single Span Floor- Stage 2- Bottom Chord Extensions Removed- Test 27b

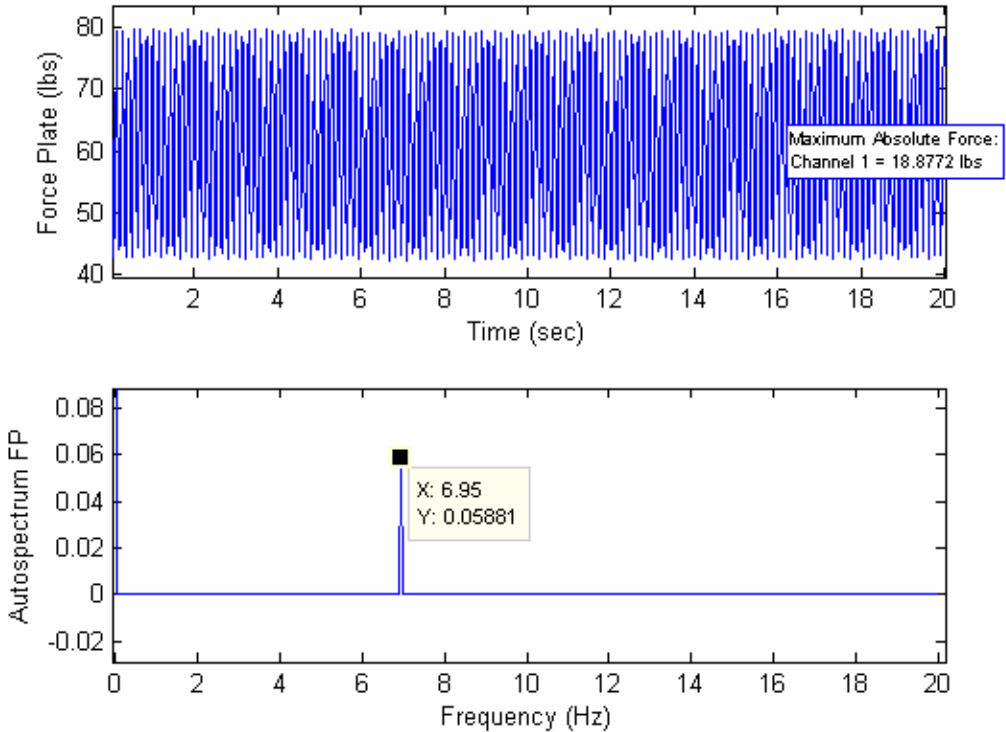


Single Span Floor- Stage 2- Bottom Chord Extensions Removed- Test 27c

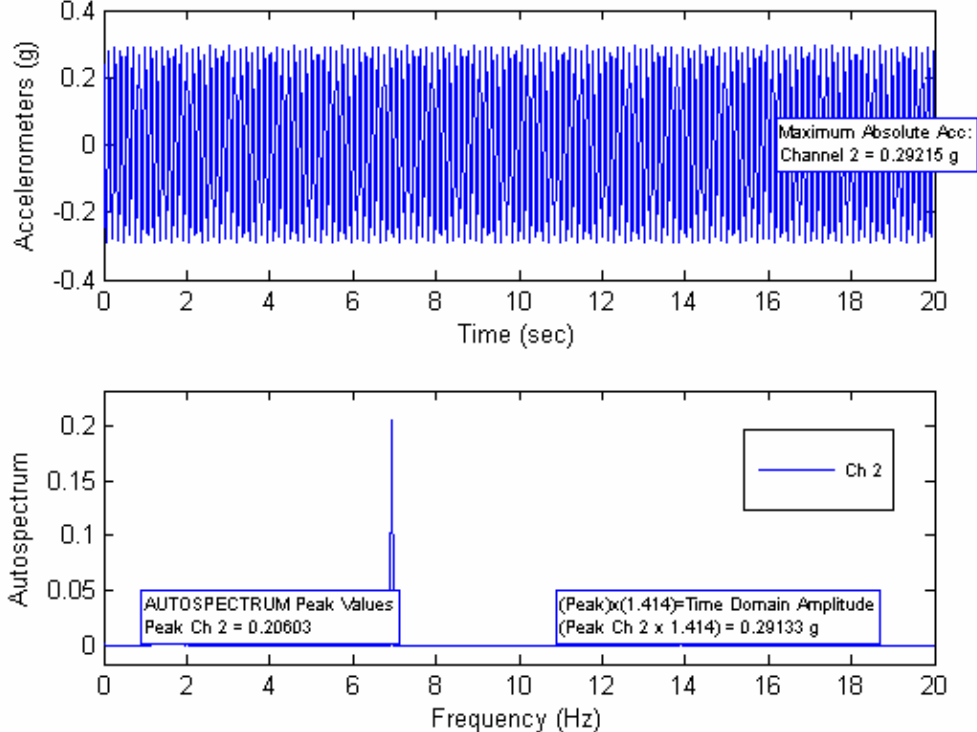


Single Span Floor- Stage 2- Bottom Chord Extensions Removed- Tests 30-35
 (Tests 30-35: Shaker Calibration)
 Test 30

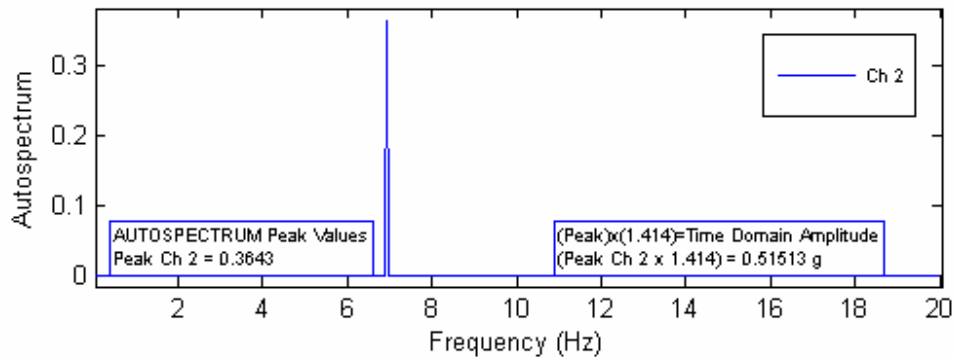
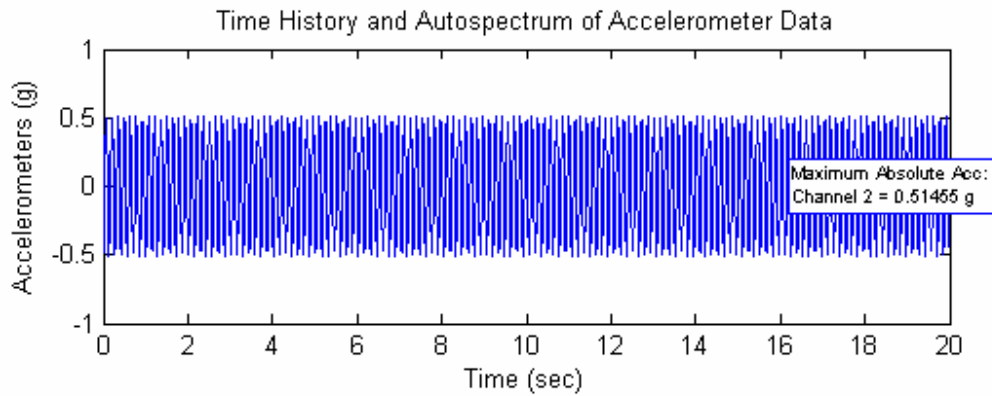
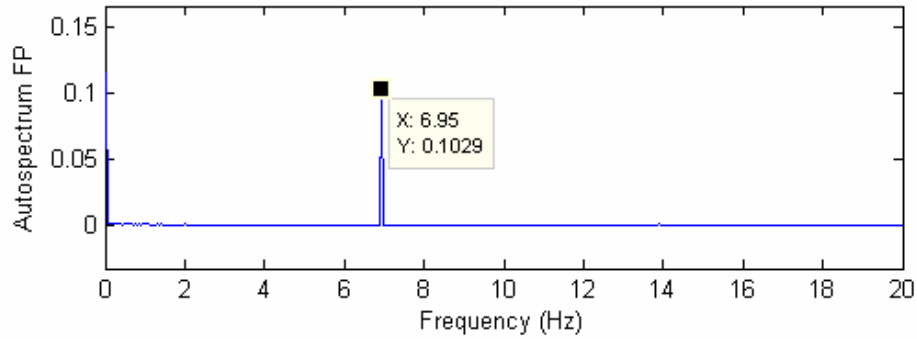
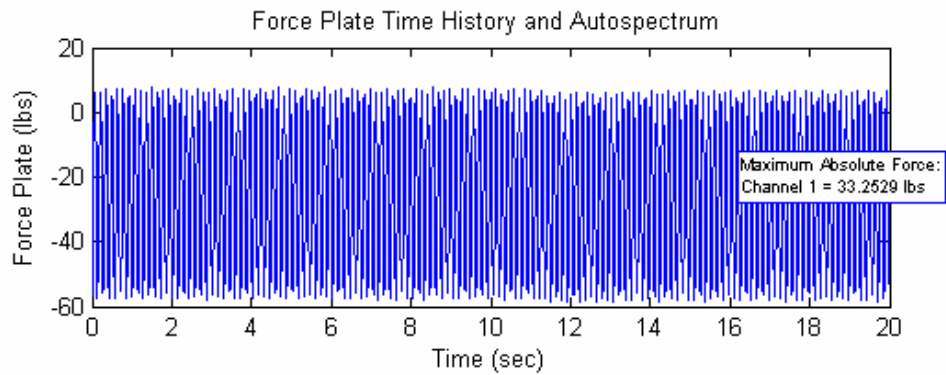
Force Plate Time History and Autospectrum



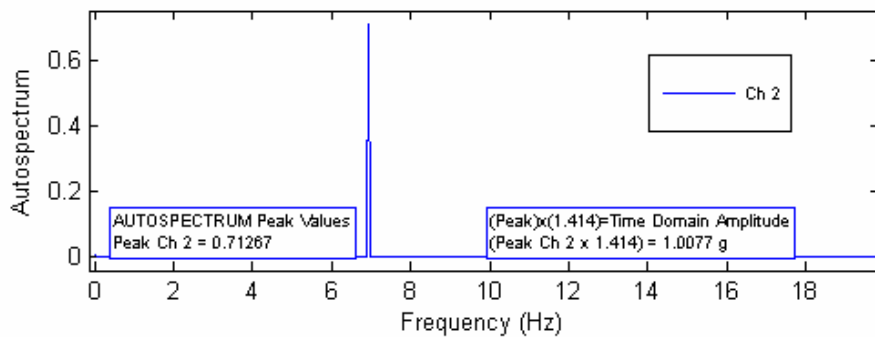
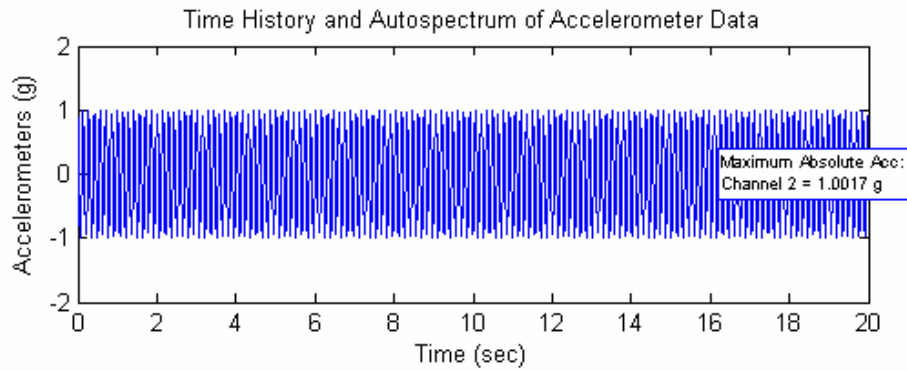
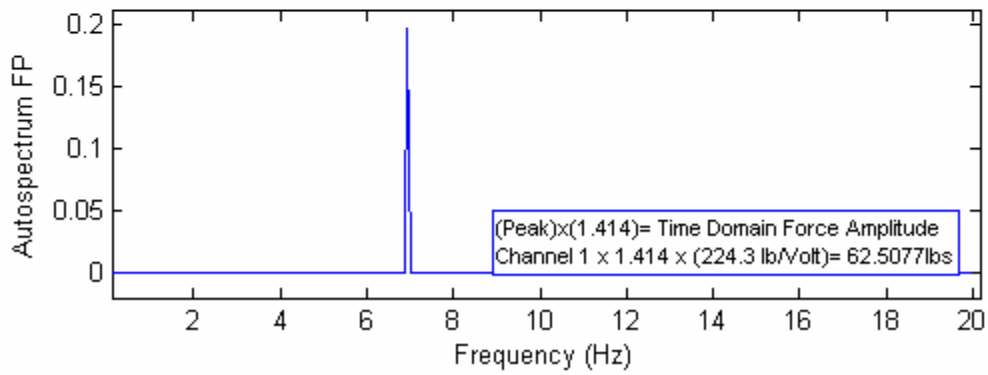
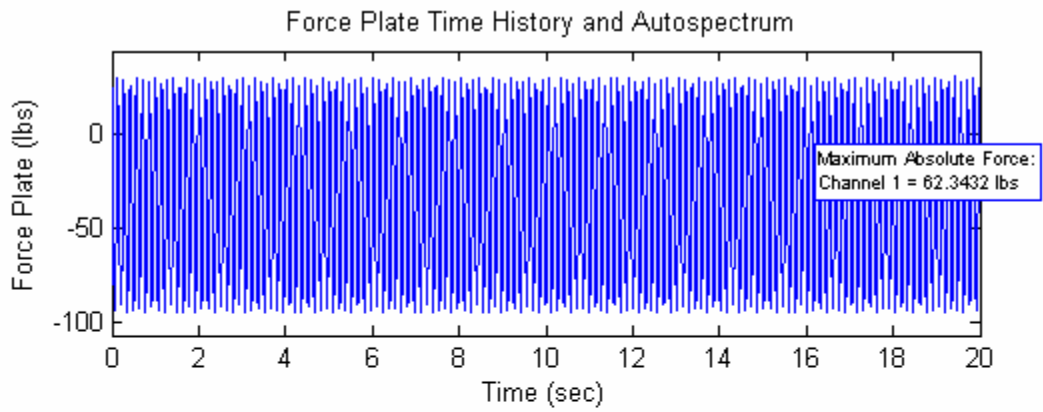
Time History and Autospectrum of Accelerometer Data



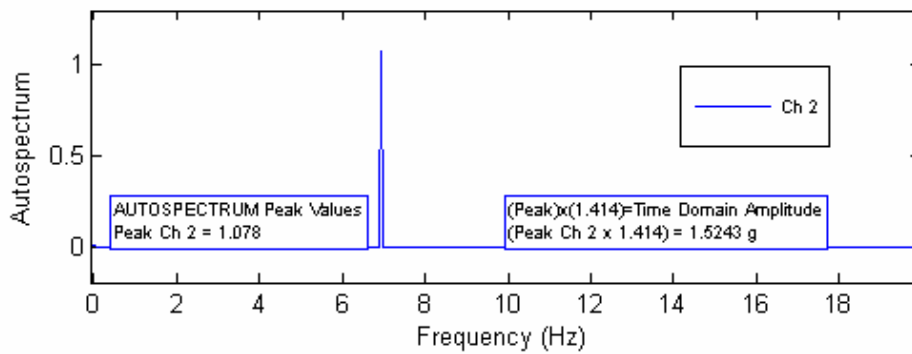
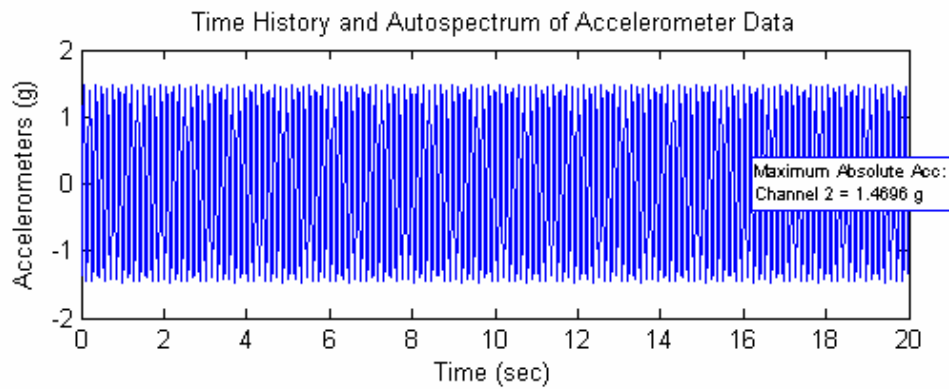
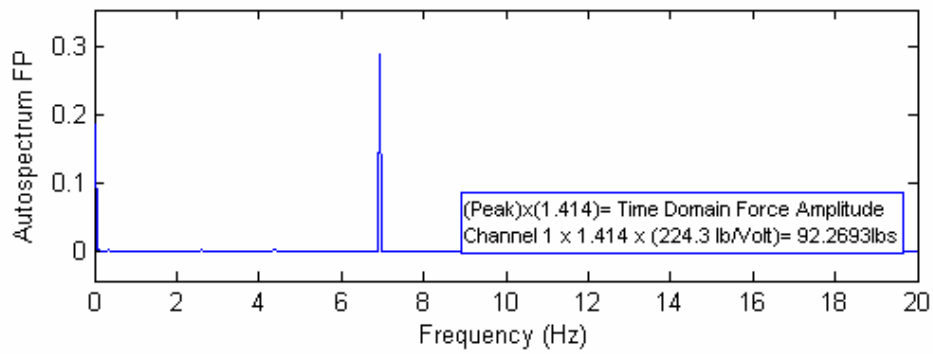
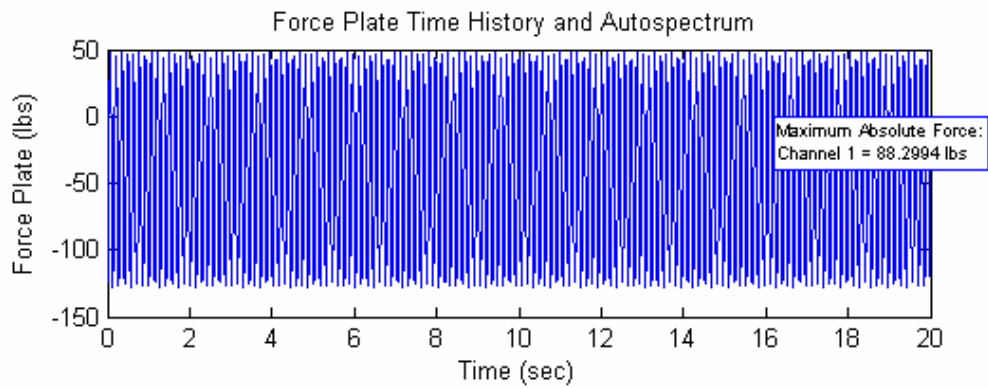
Single Span Floor- Stage 2- Bottom Chord Extensions Removed
 30-35 Shaker Calibration
 Test 31



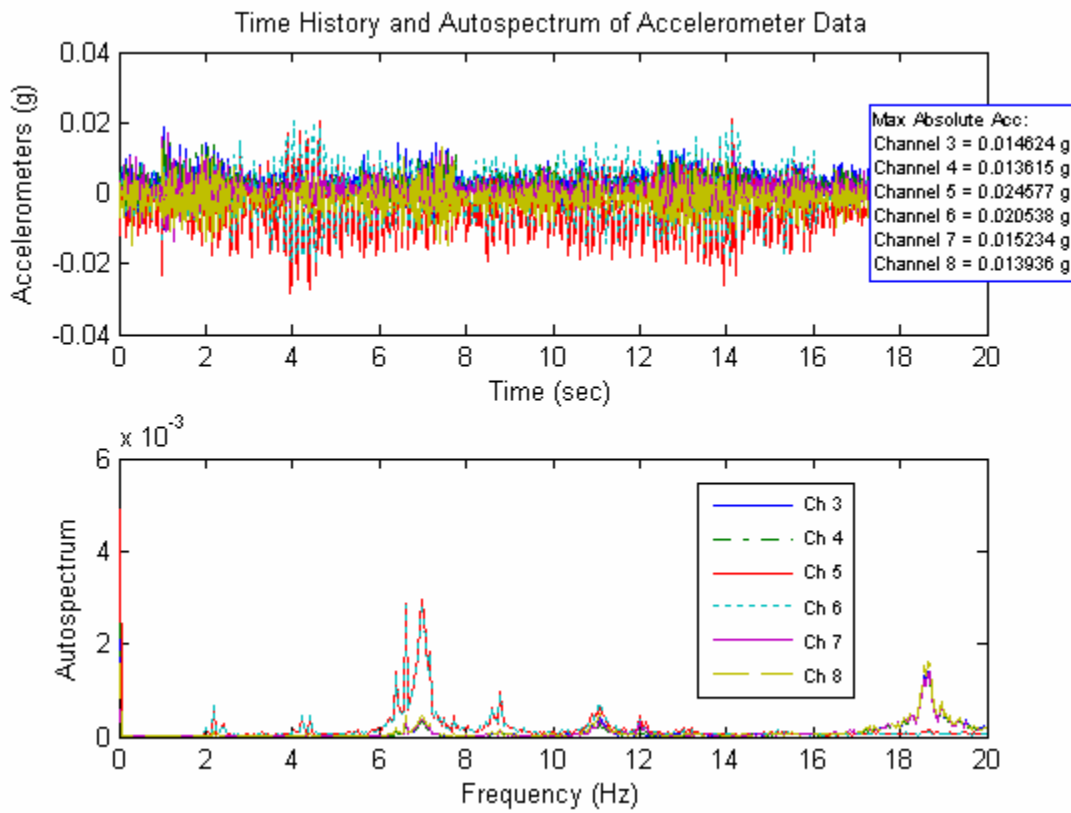
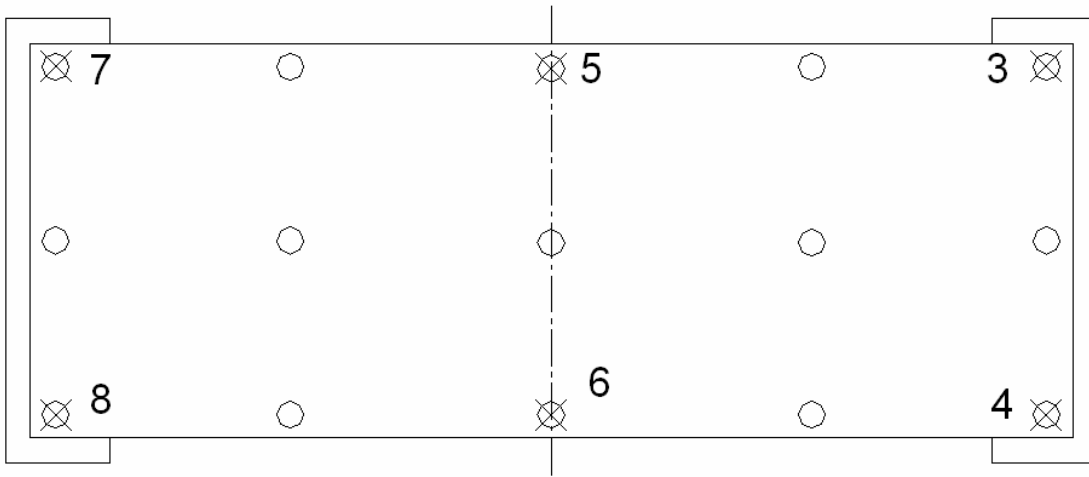
Single Span Floor- Stage 2- Bottom Chord Extensions Removed
 30-35 Shaker Calibration
 Test 32



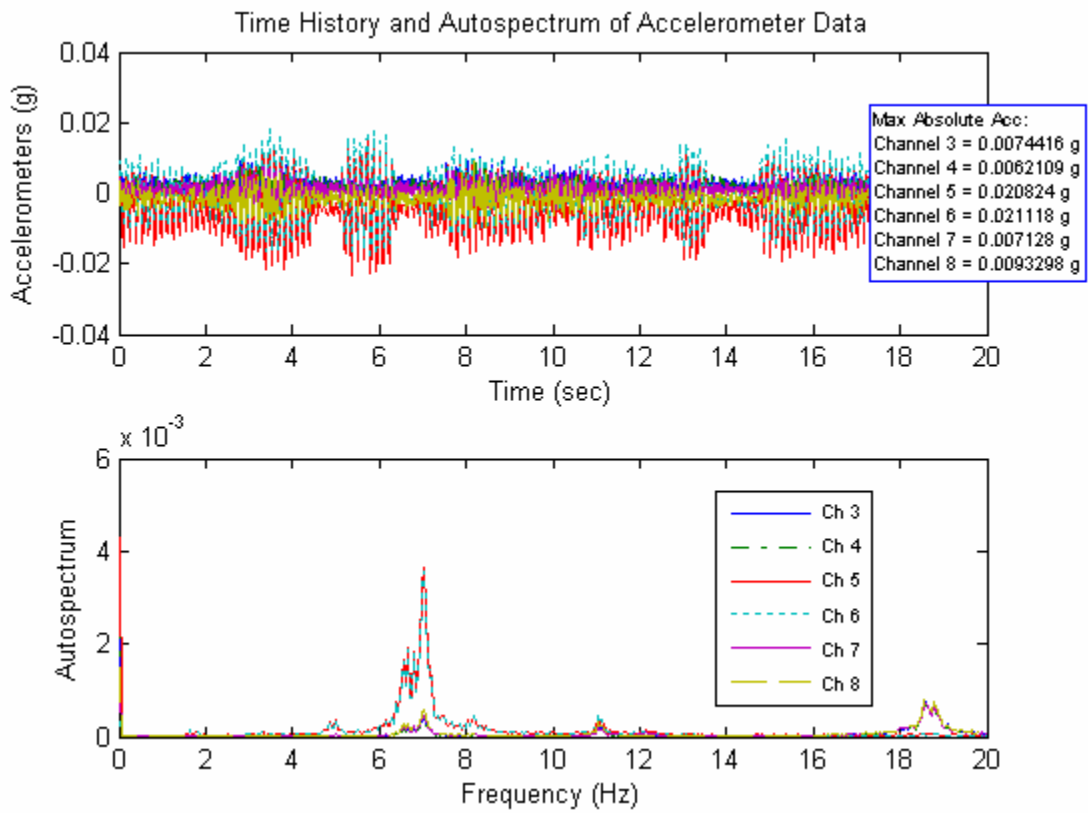
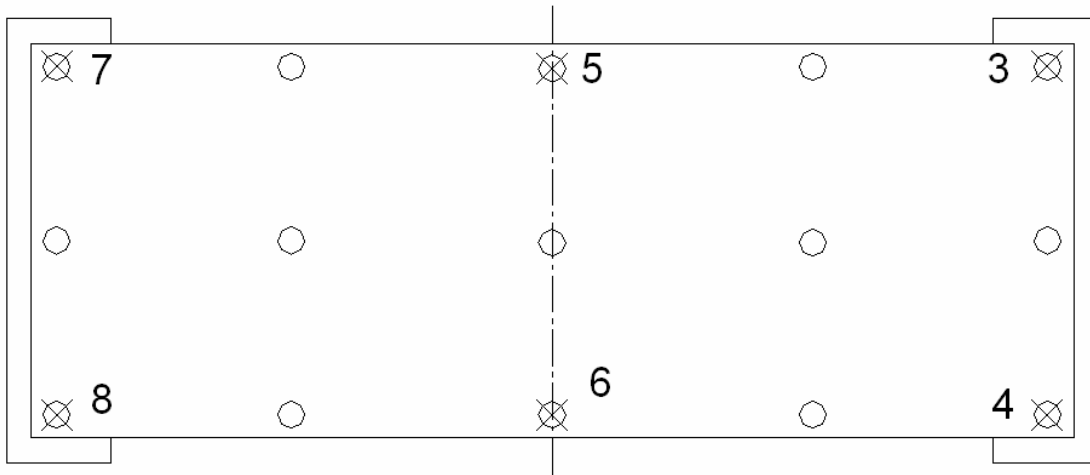
Single Span Floor- Stage 2- Bottom Chord Extensions Removed
 30-35 Shaker Calibration
 Test 33



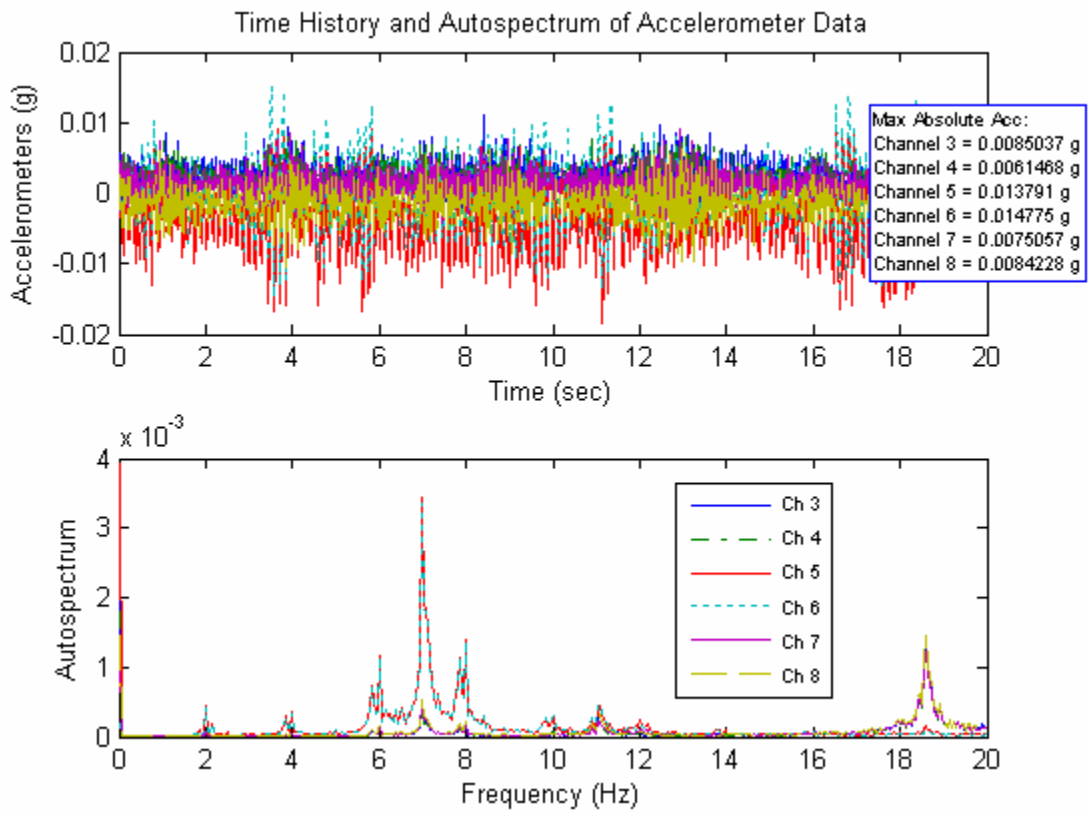
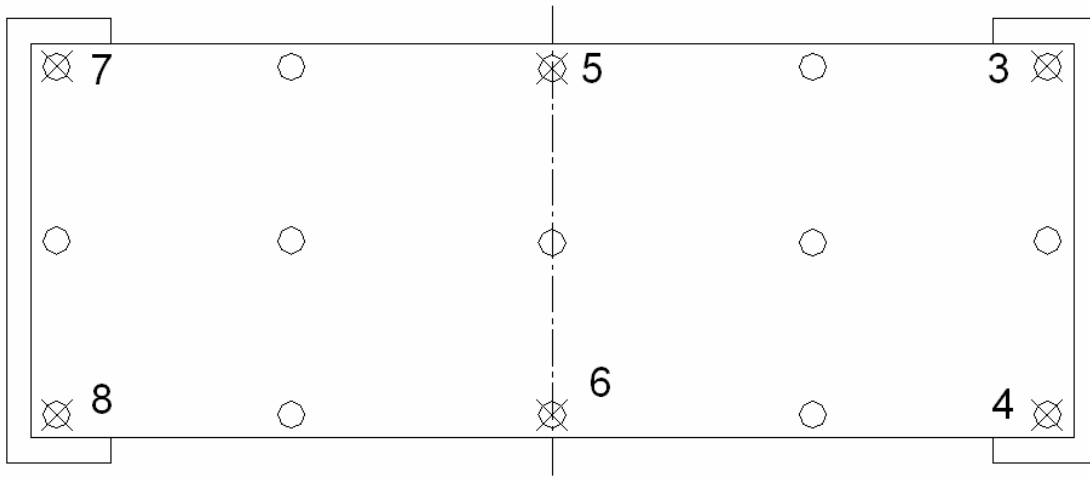
Single Span Floor- Stage 2- Bottom Chord Extensions Removed- Test 36



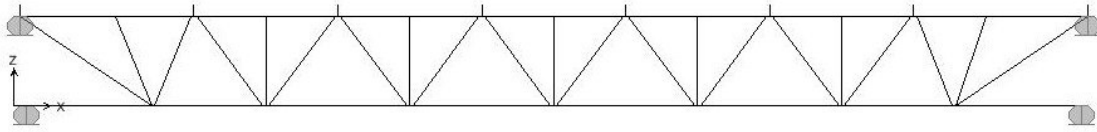
Single Span Floor- Stage 2- Bottom Chord Extensions Removed- Test 37



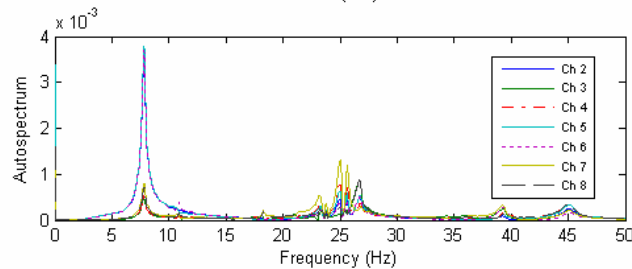
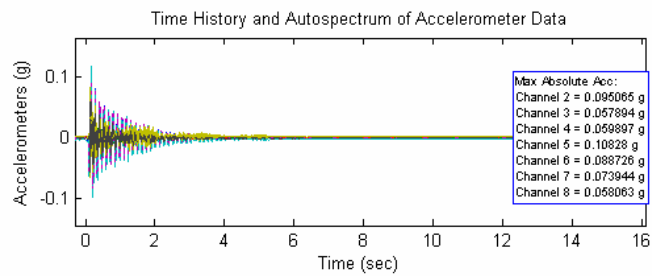
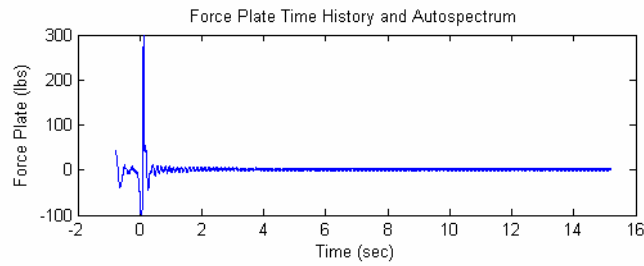
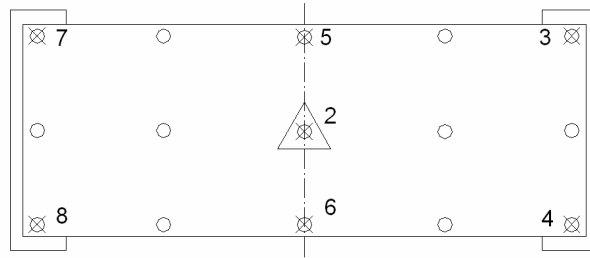
Single Span Floor- Stage 2- Bottom Chord Extensions Removed- Test 38

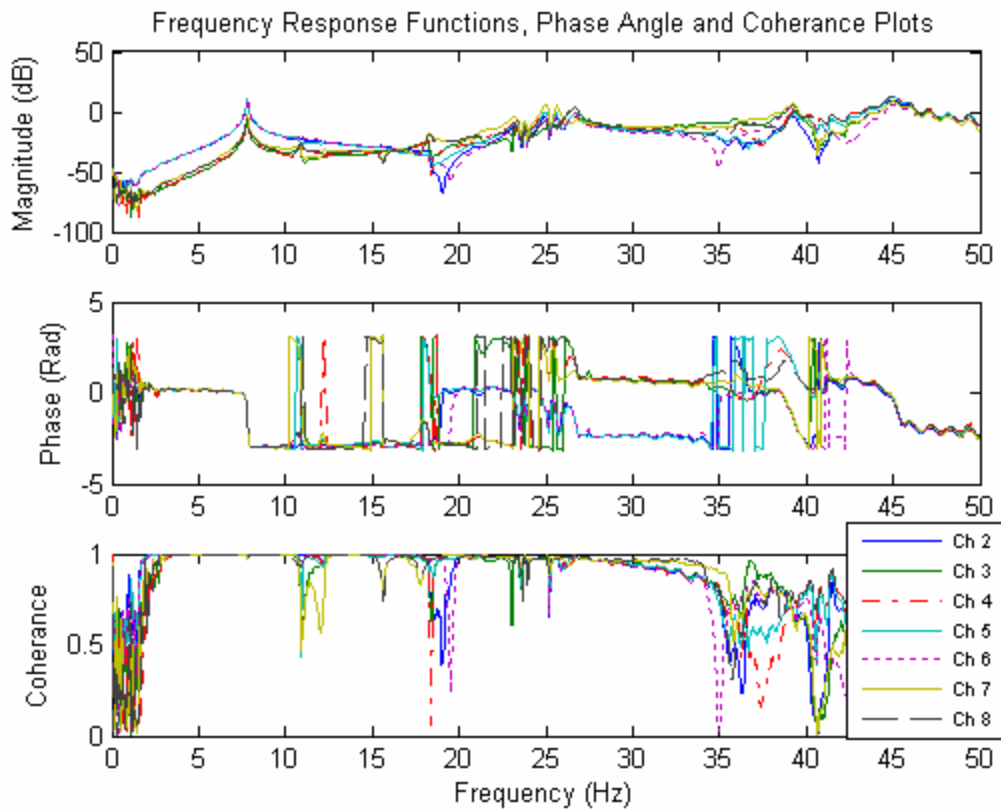
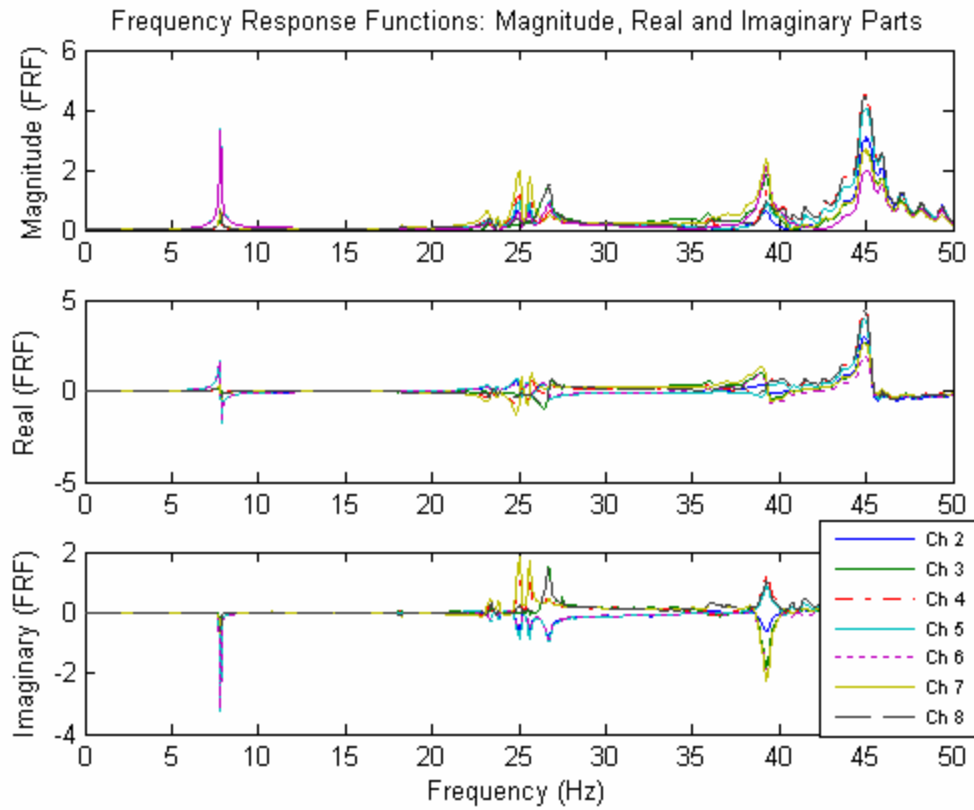


Stage 3: Bottom Chord Extensions Re-installed

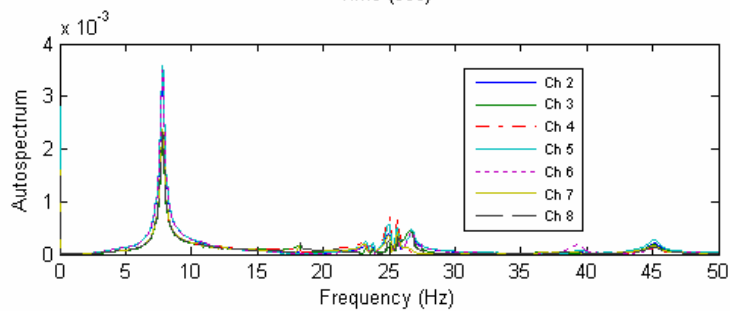
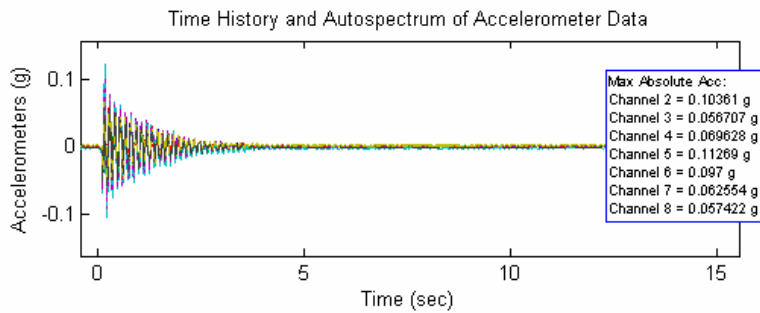
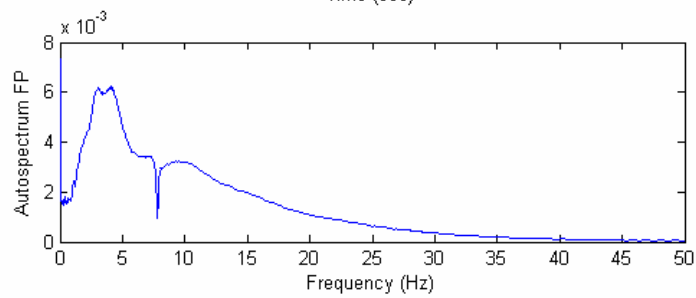
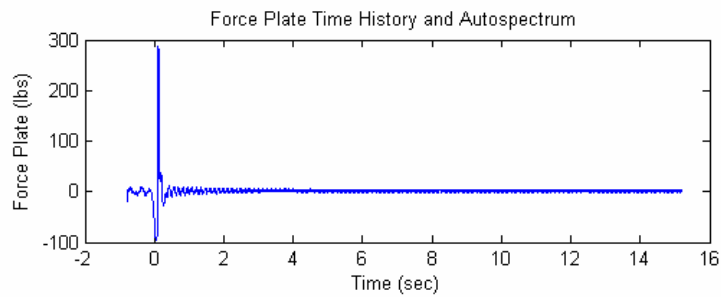
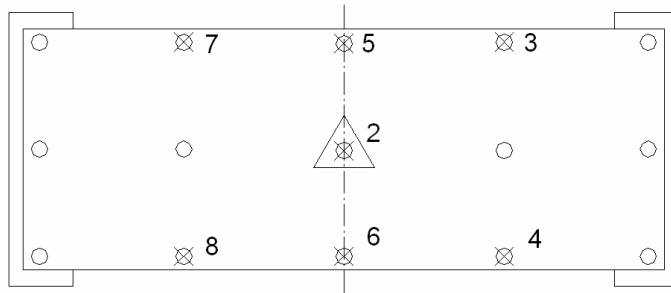


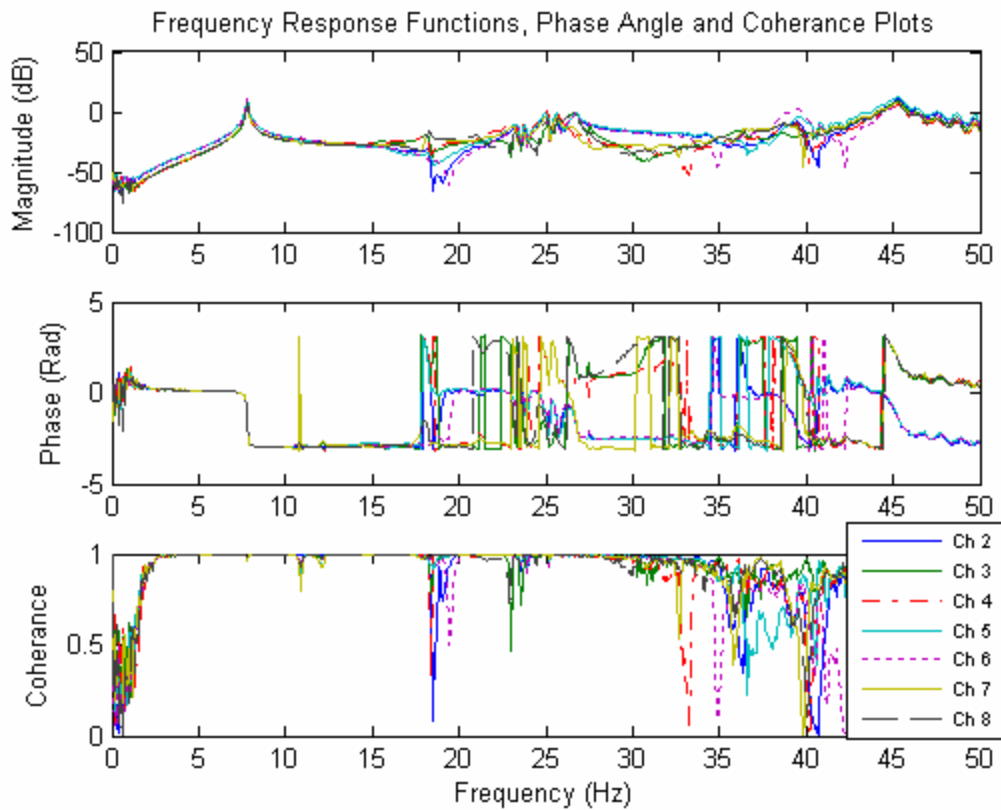
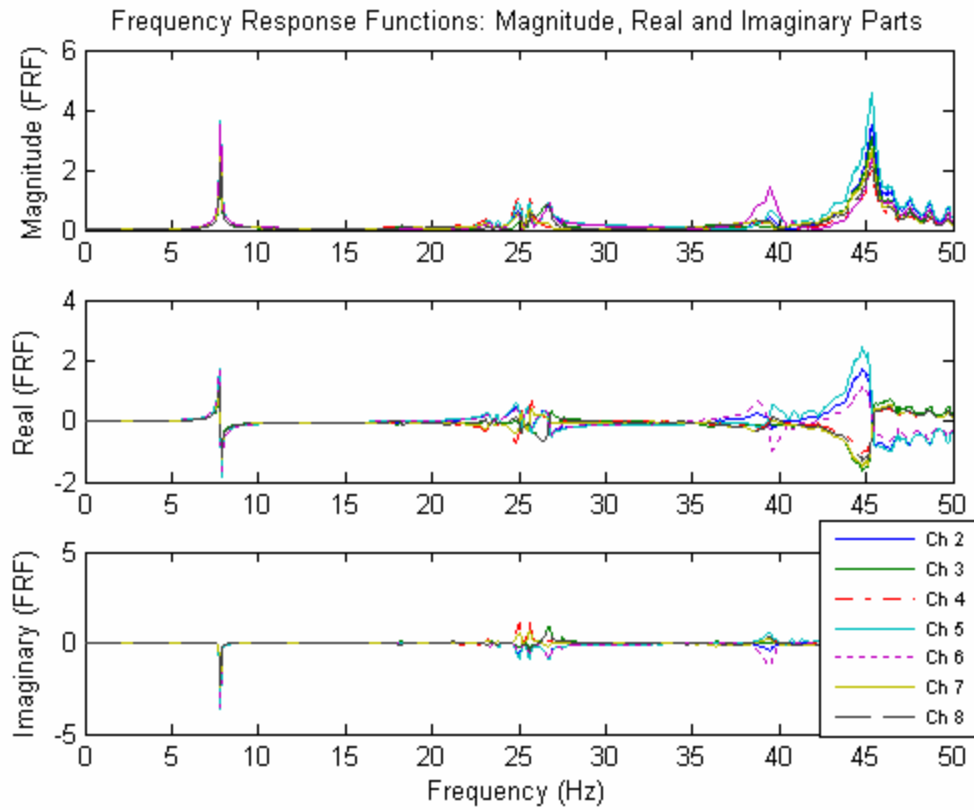
Single Span Floor- Stage 3- Bottom Chord Extensions Re-installed- Test 1



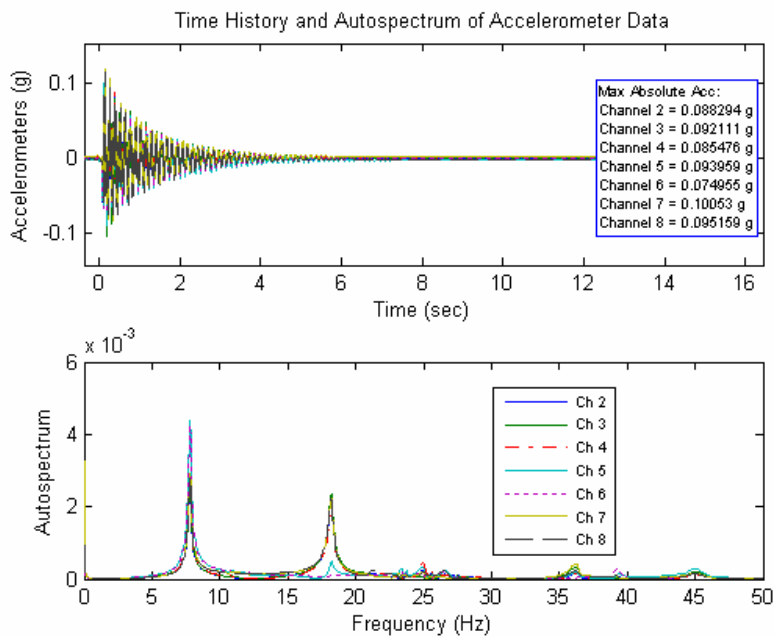
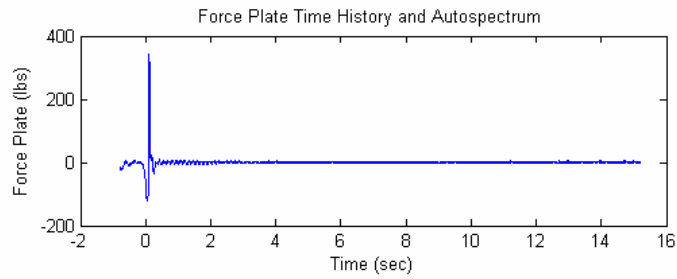
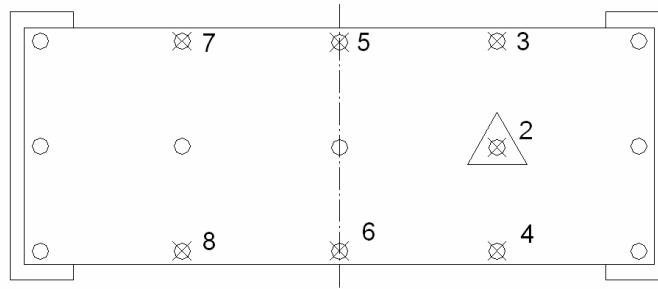


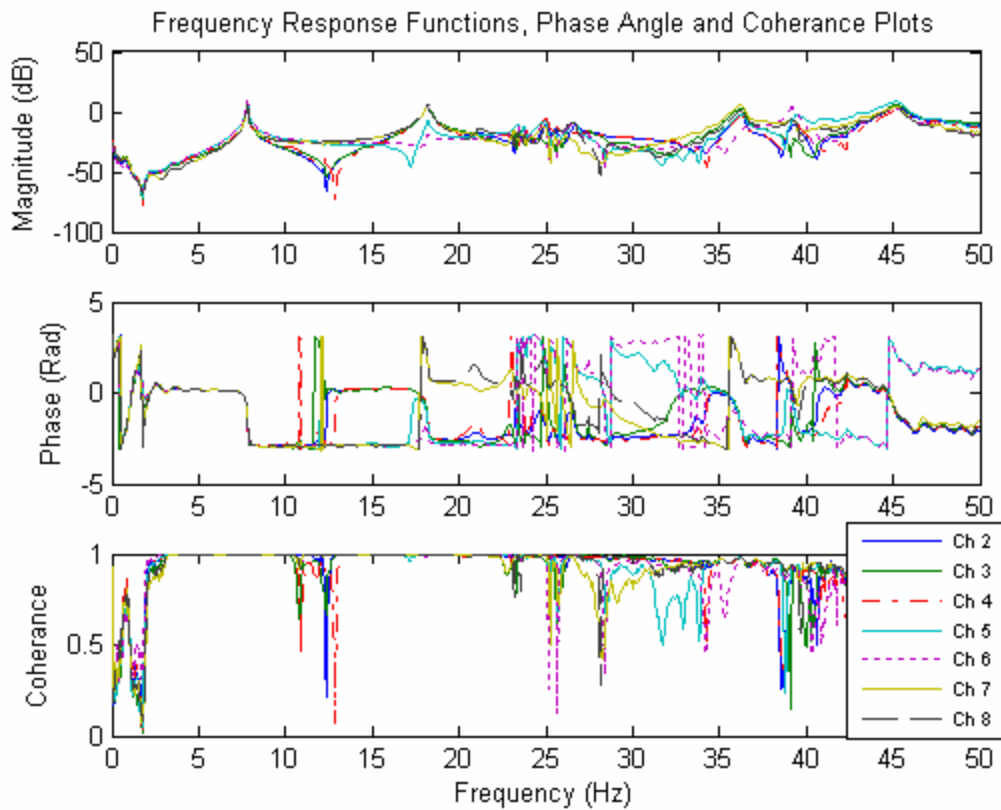
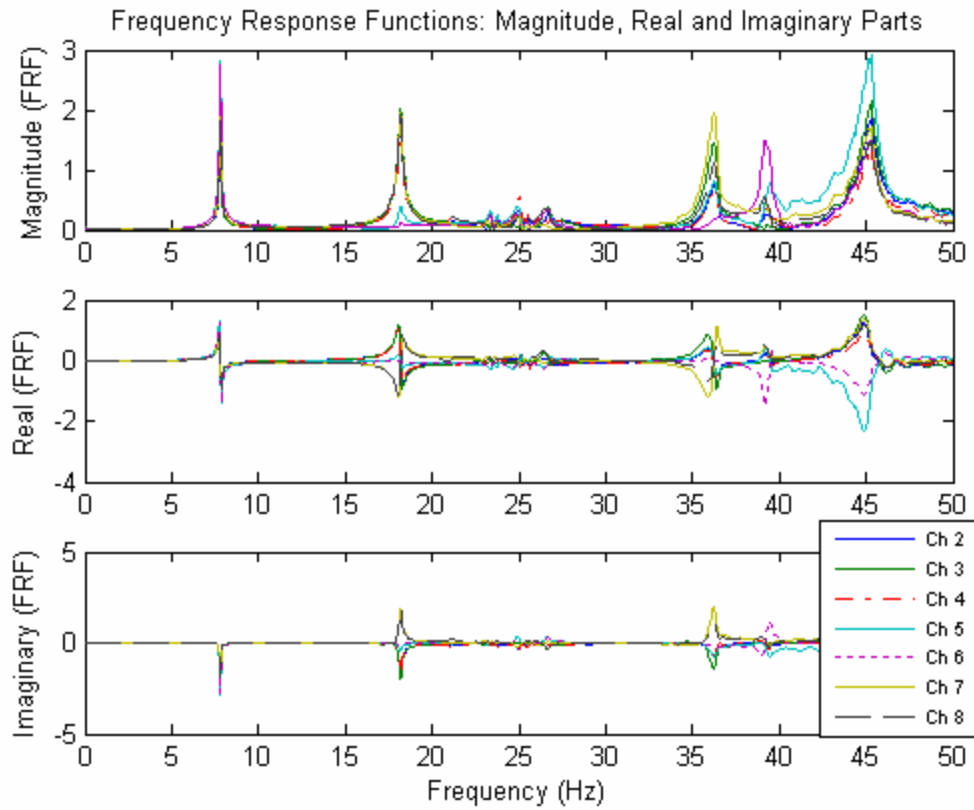
Single Span Floor- Stage 3- Bottom Chord Extensions Re-installed- Test 2



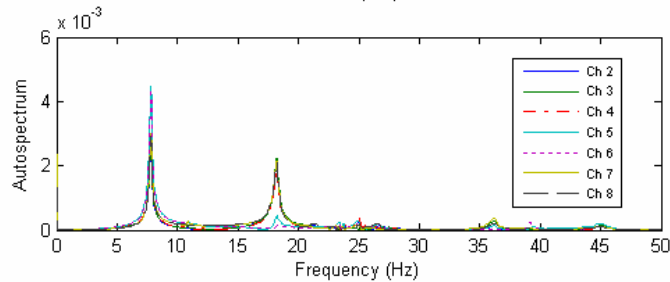
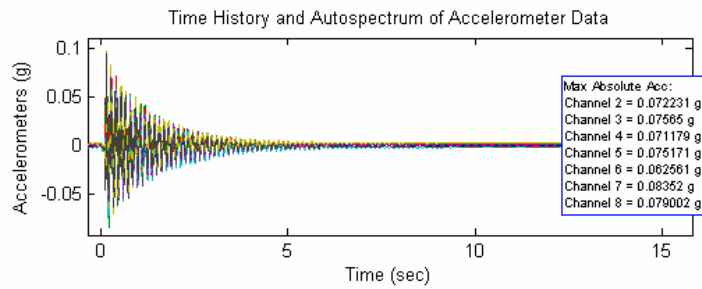
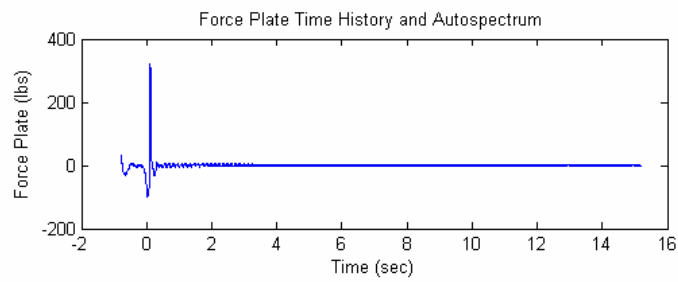
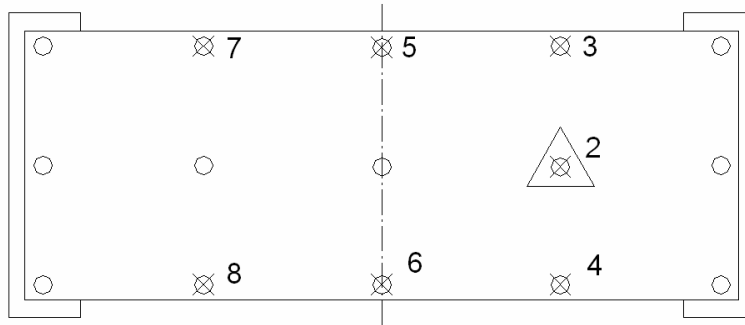


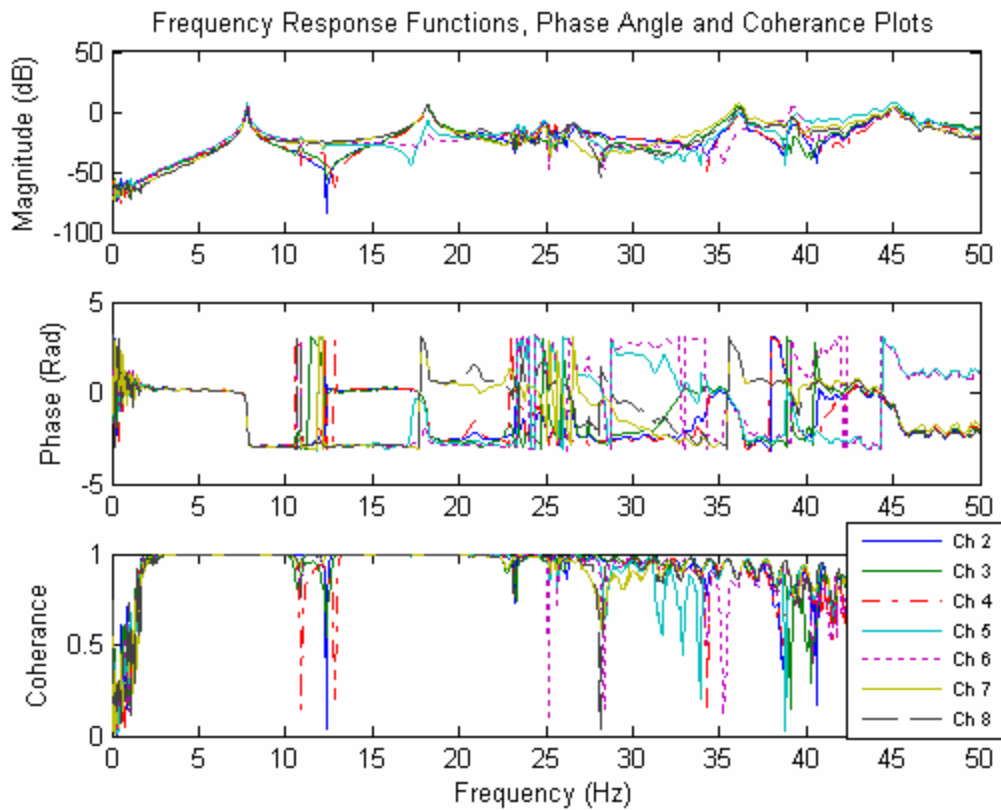
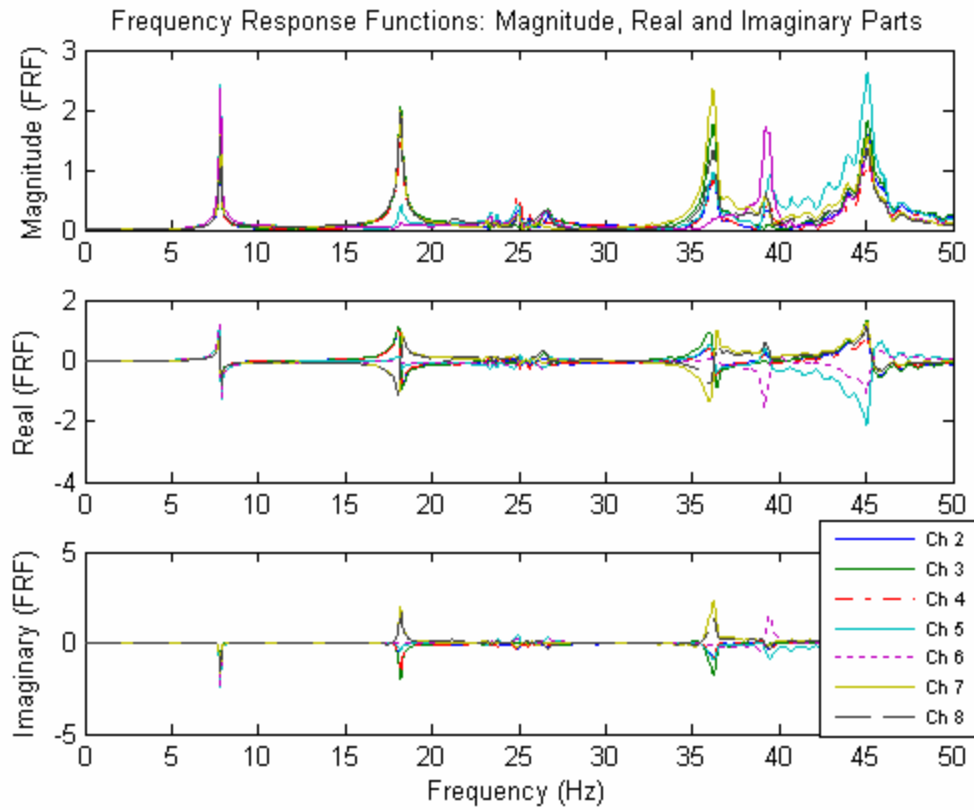
Single Span Floor- Stage 3- Bottom Chord Extensions Re-installed- Test 3



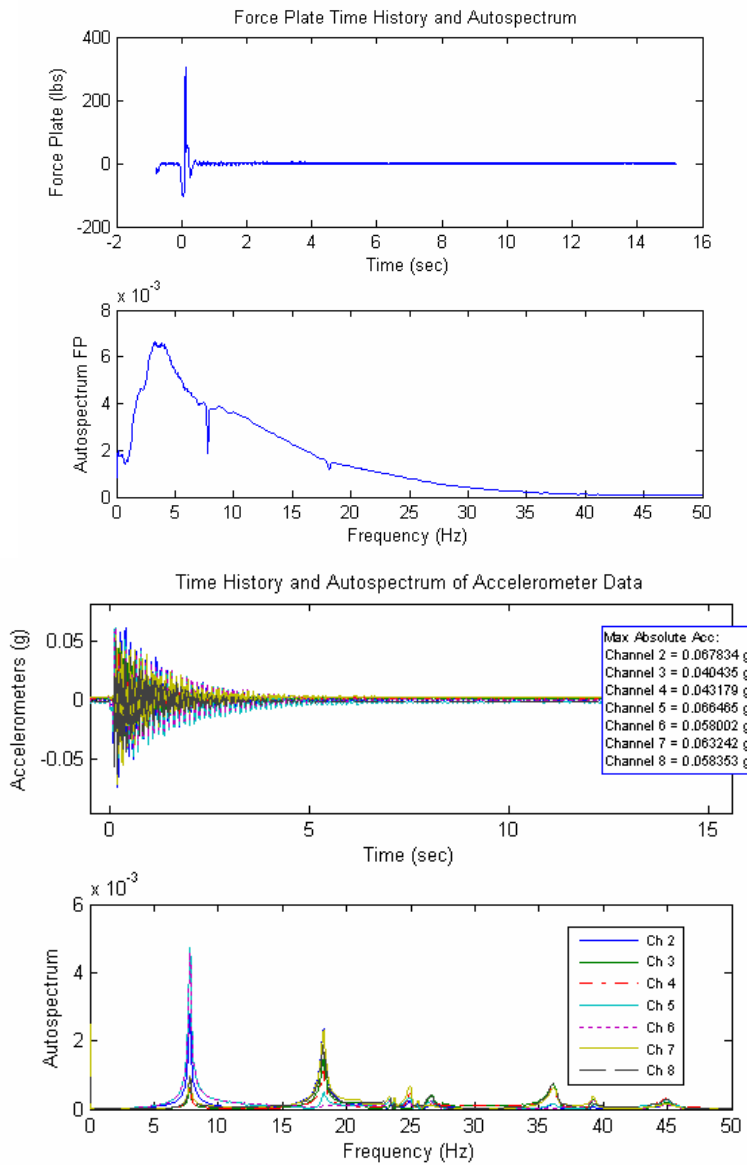
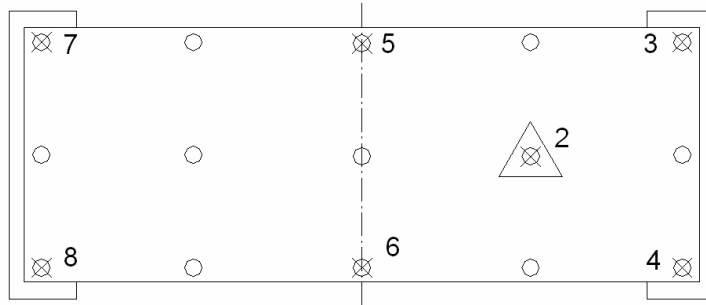


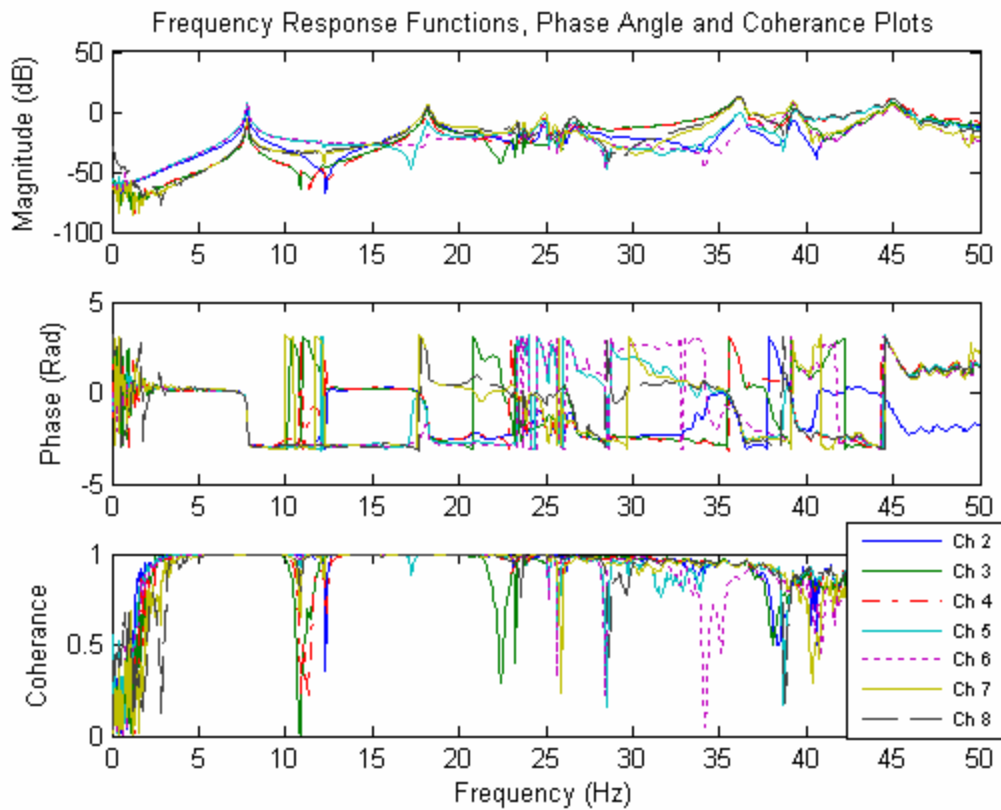
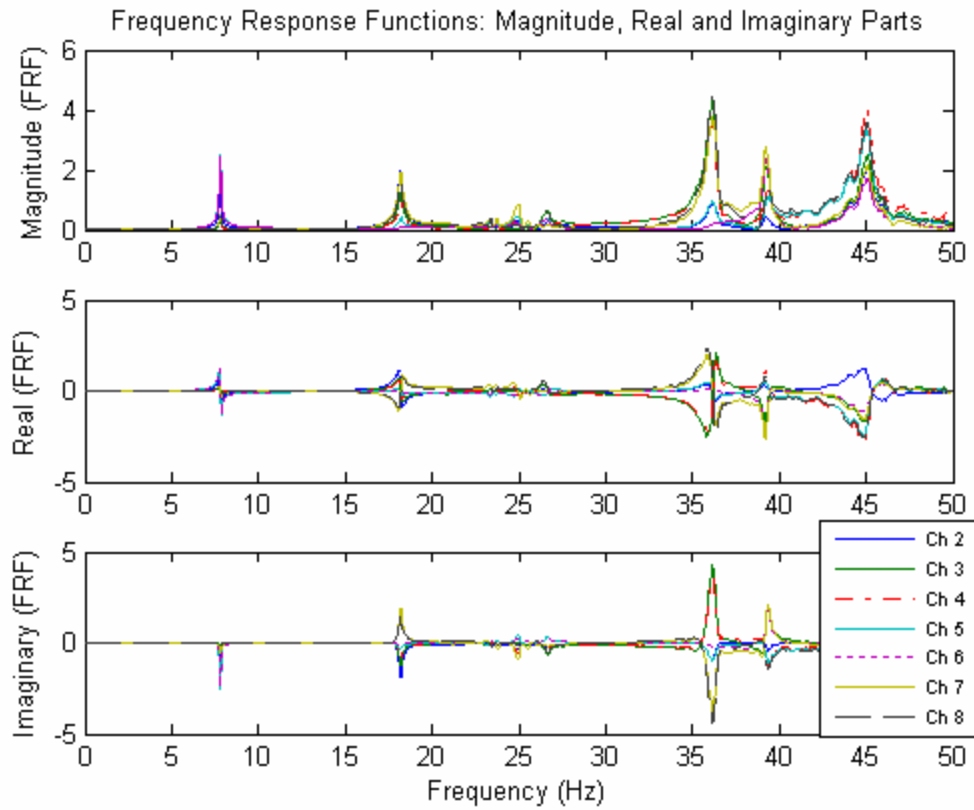
Single Span Floor- Stage 3- Bottom Chord Extensions Re-installed- Test 3a



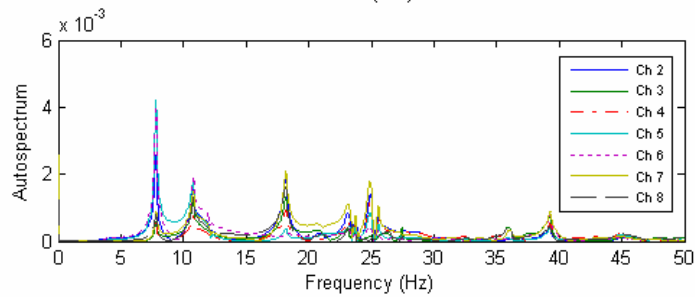
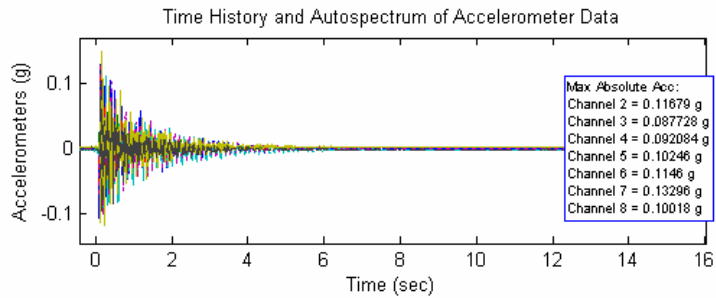
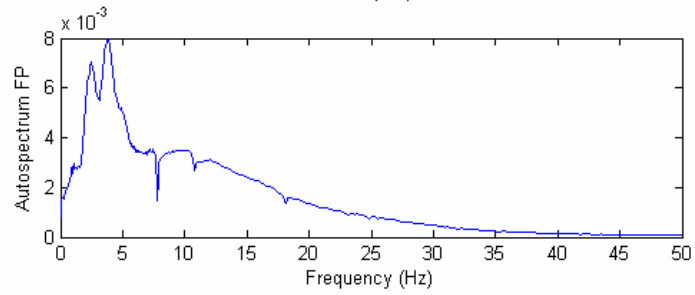
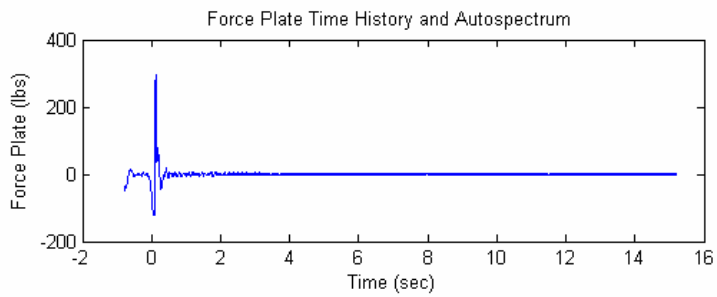
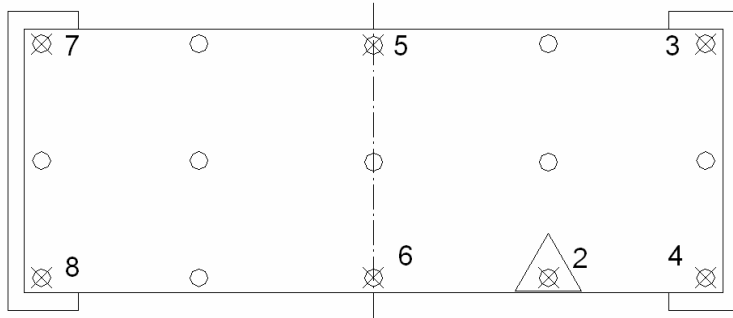


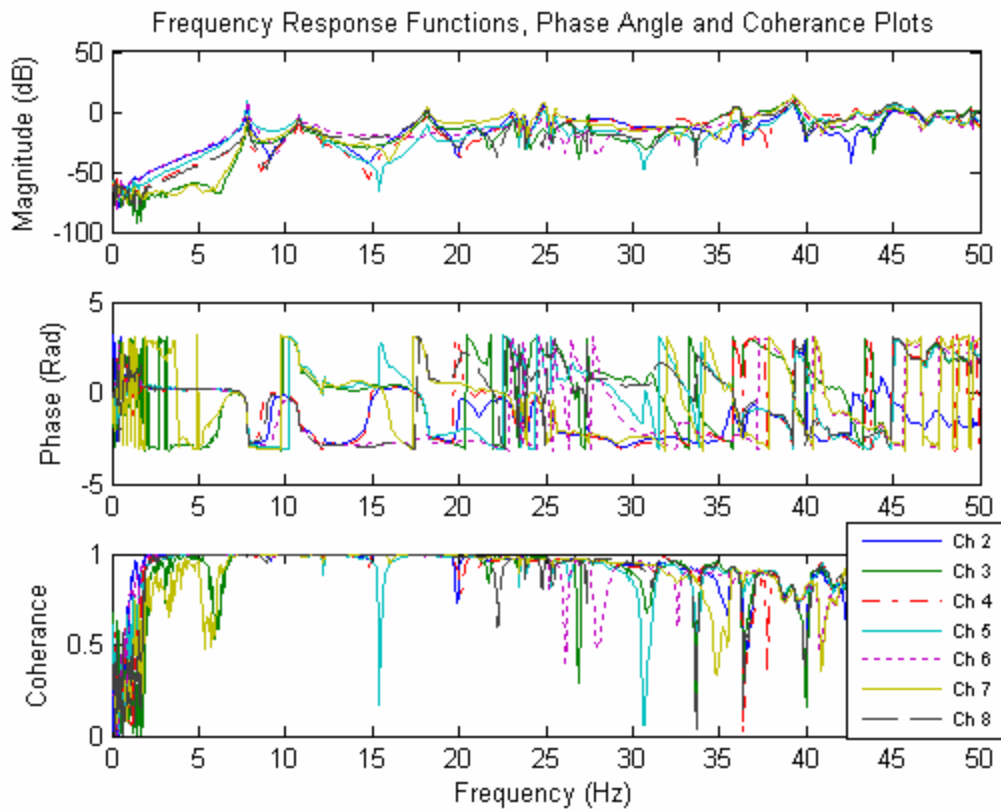
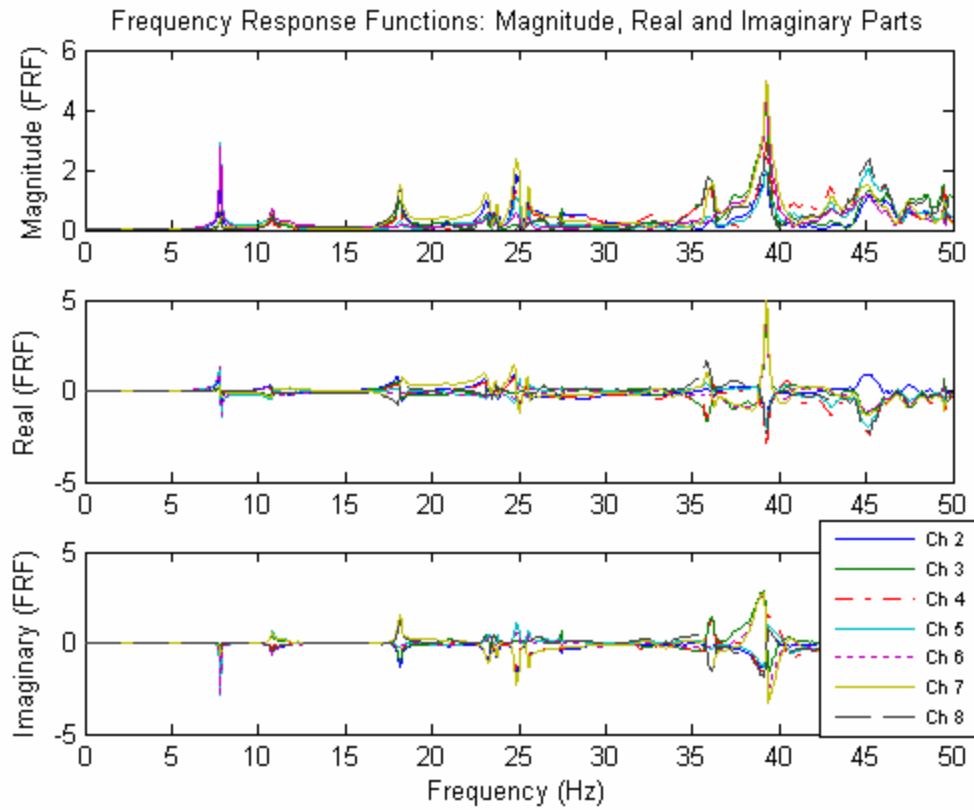
Single Span Floor- Stage 3- Bottom Chord Extensions Re-installed- Test 4



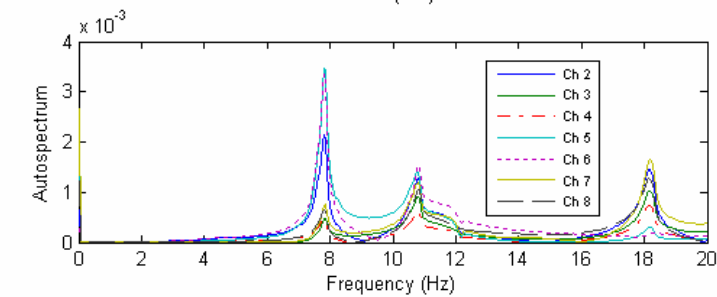
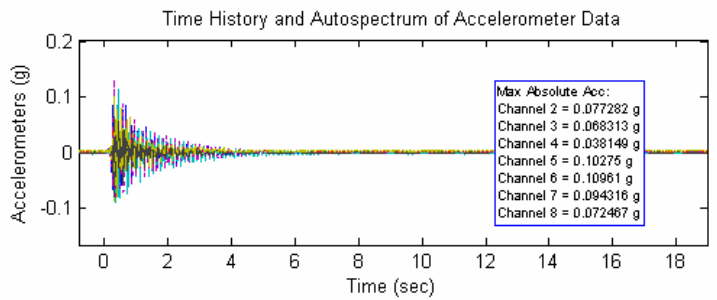
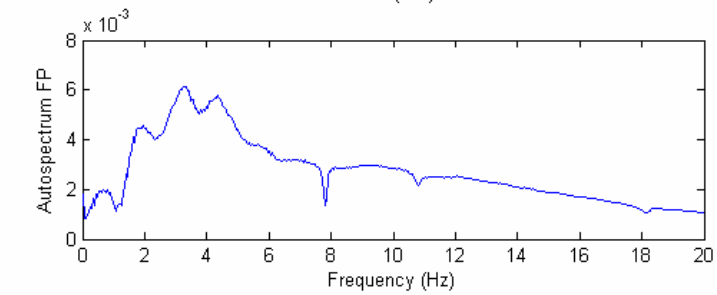
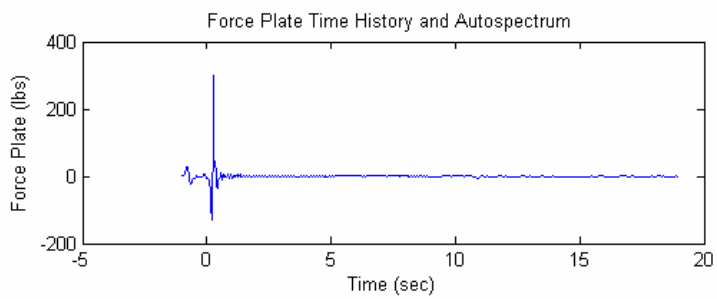
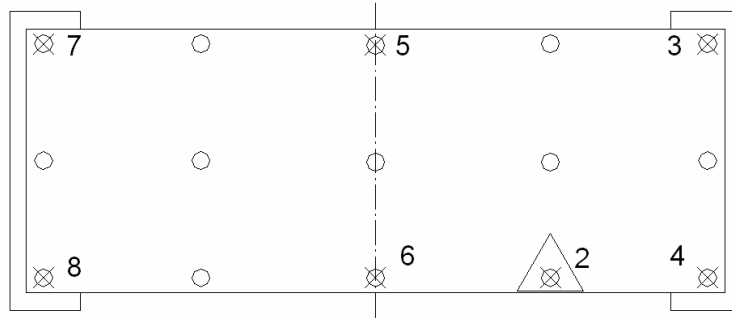


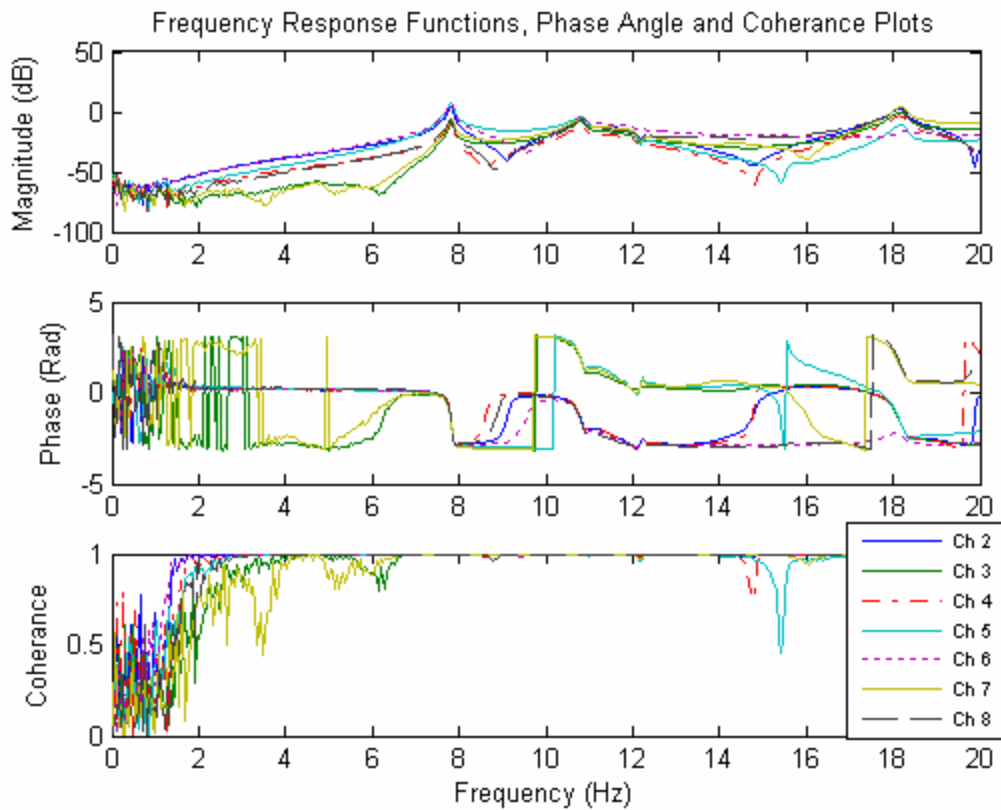
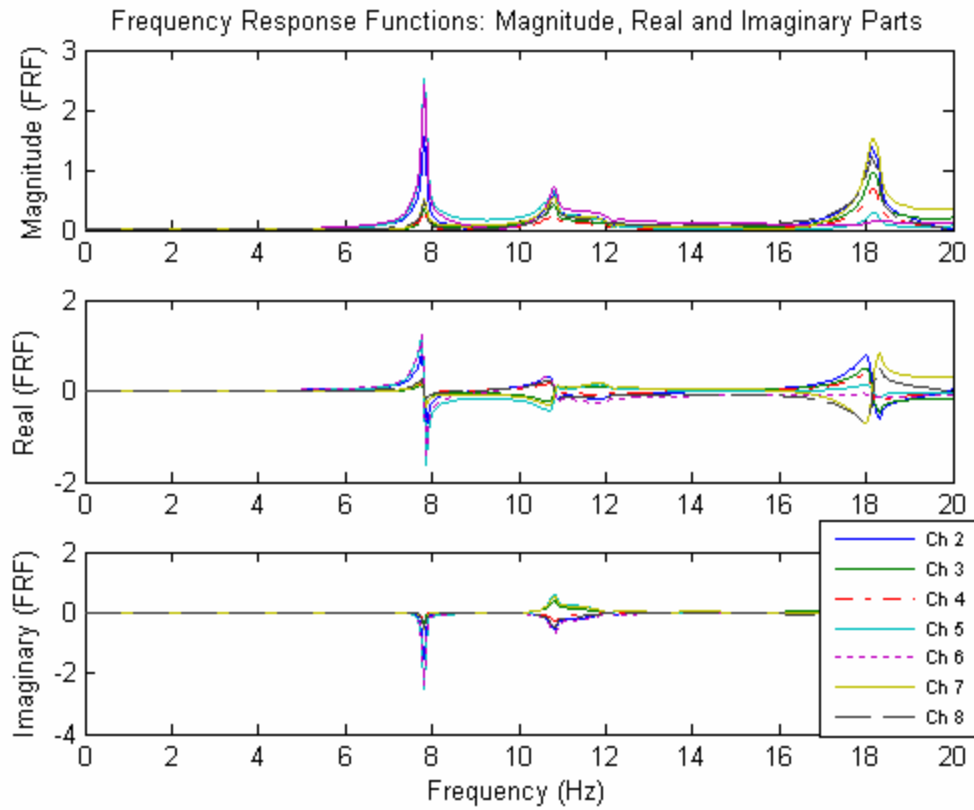
Single Span Floor- Stage 3- Bottom Chord Extensions Re-installed- Test 5



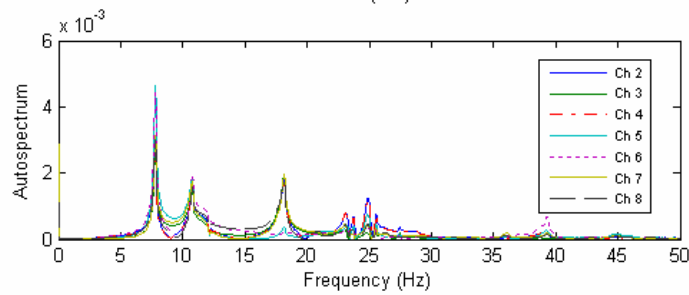
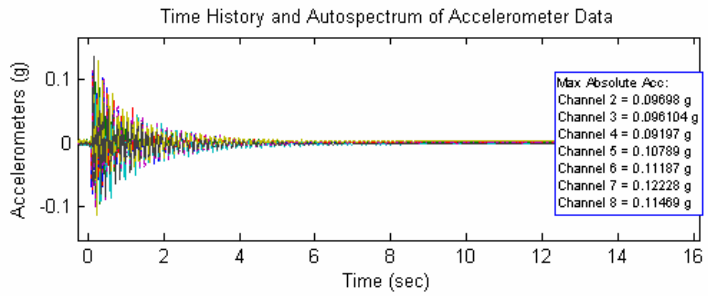
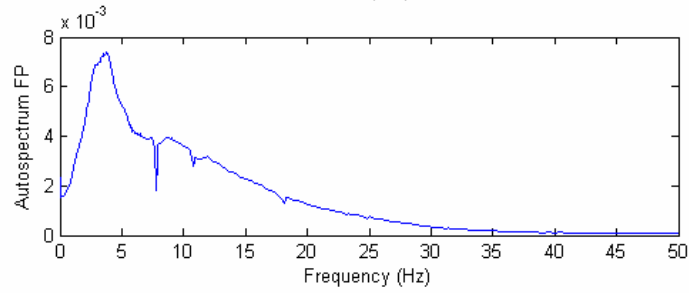
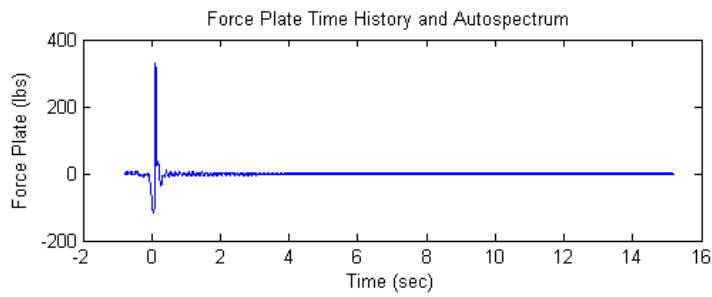
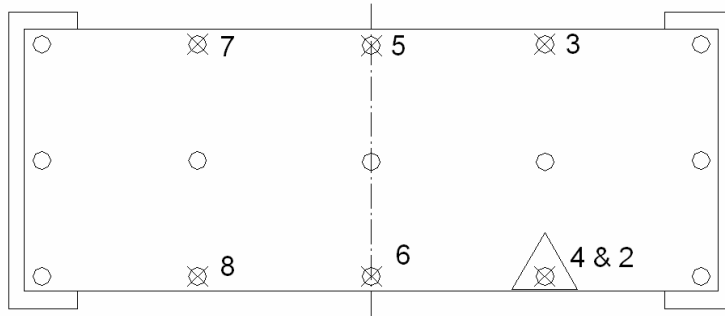


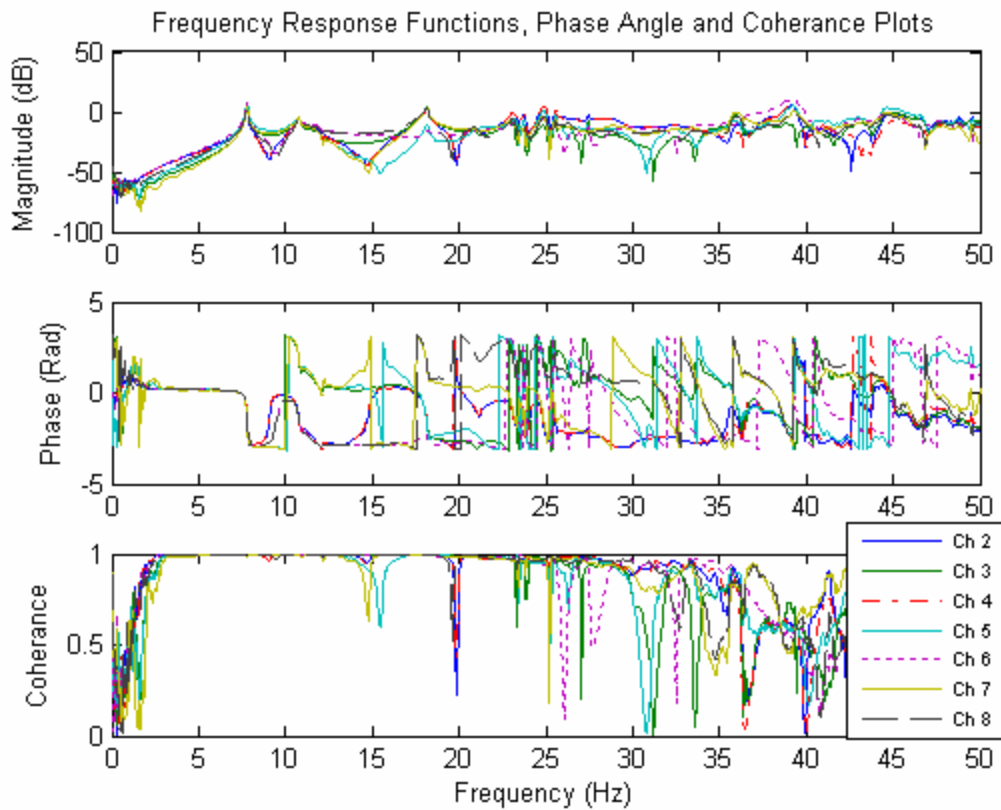
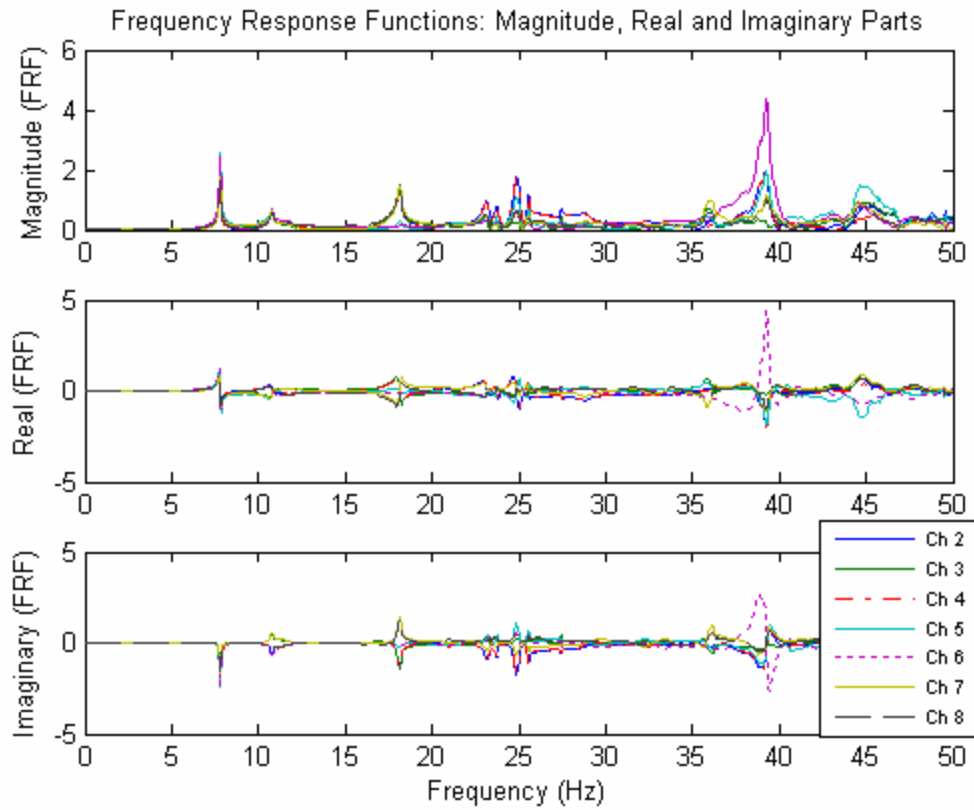
Single Span Floor- Stage 3- Bottom Chord Extensions Re-installed- Test 5a



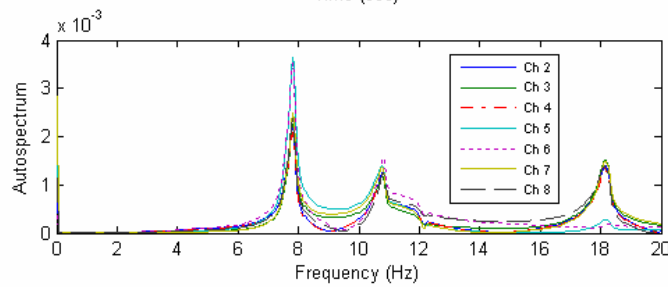
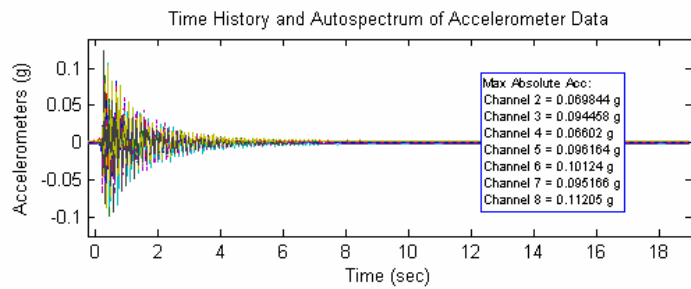
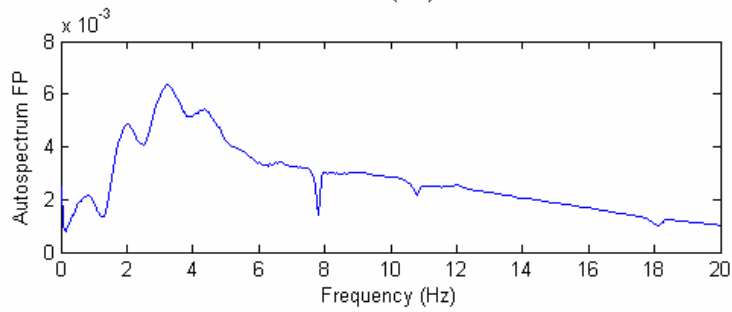
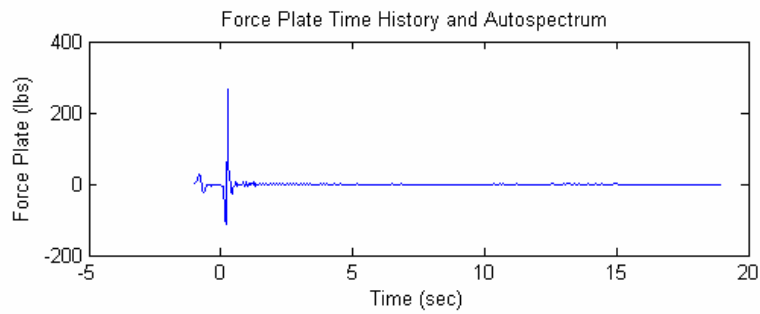
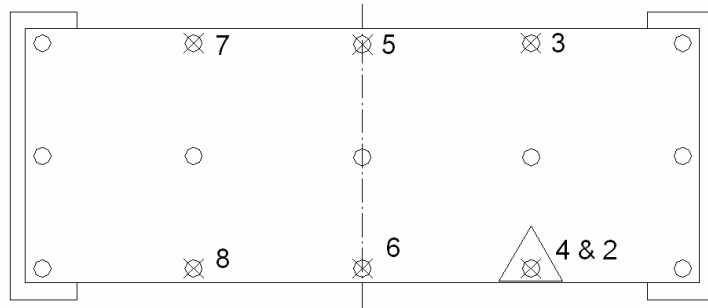


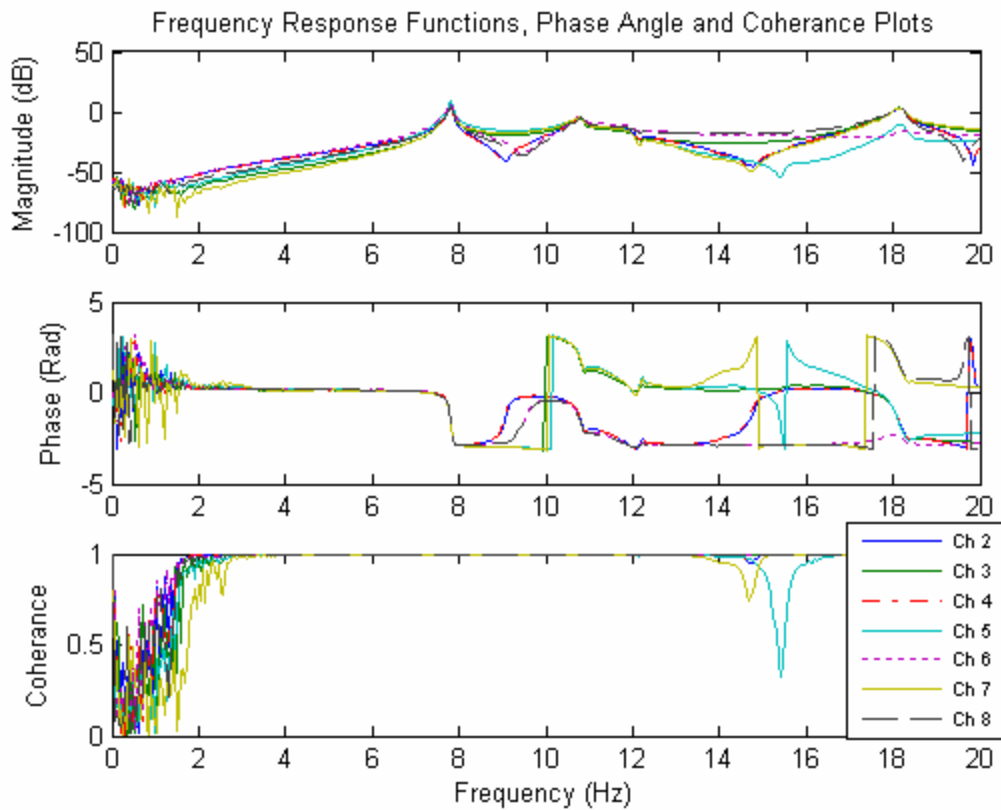
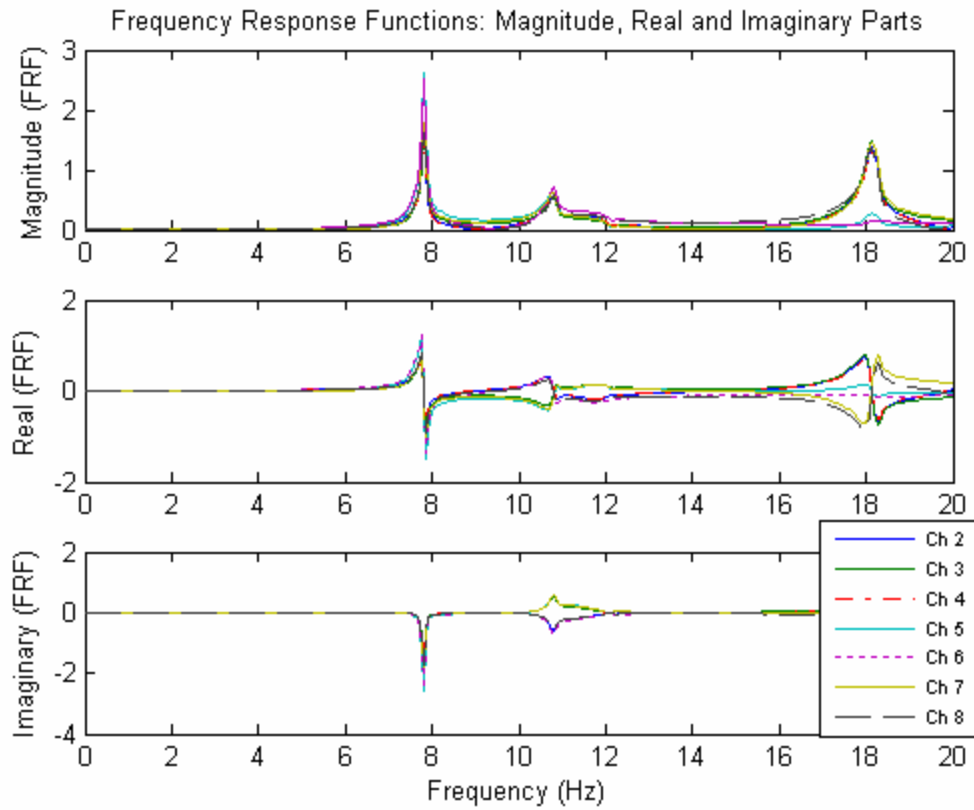
Single Span Floor- Stage 3- Bottom Chord Extensions Re-installed- Test 6



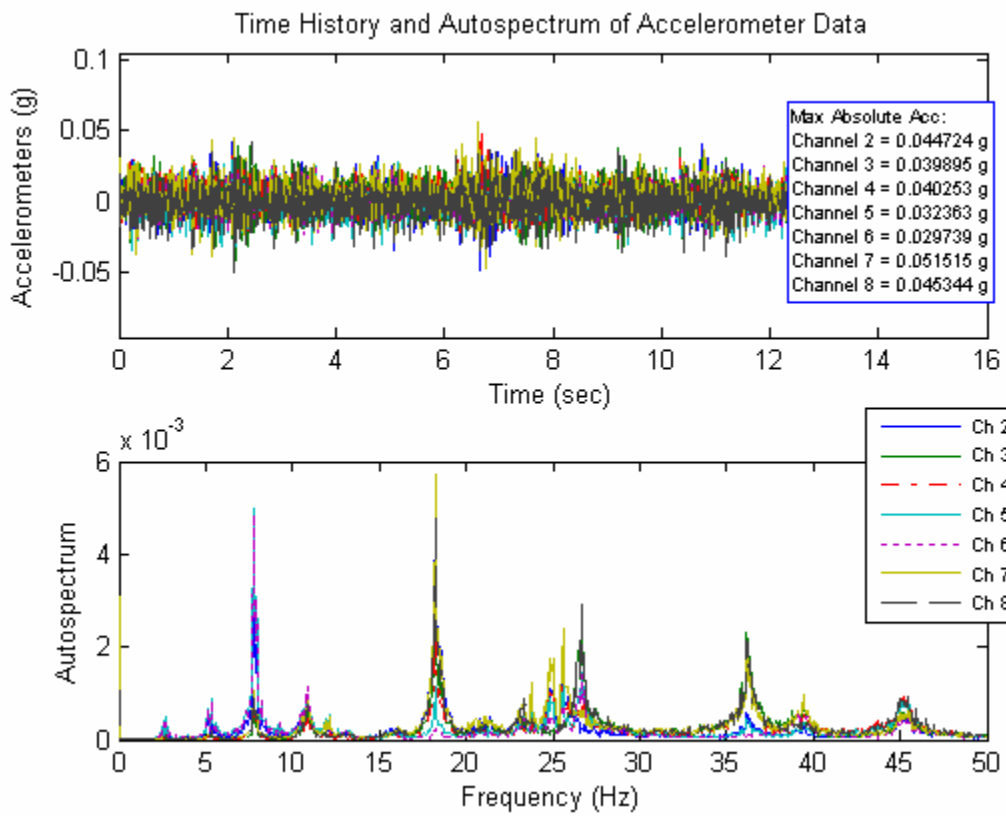
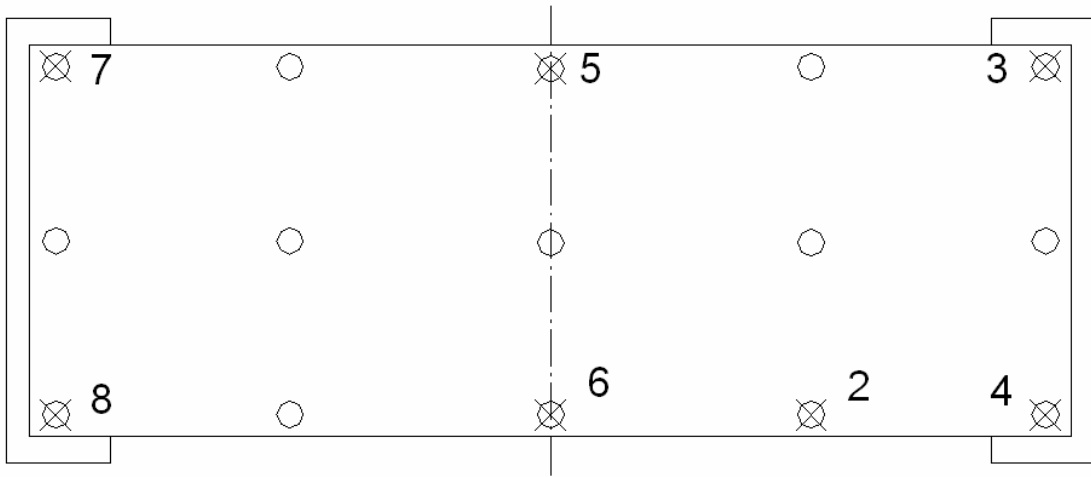


Single Span Floor- Stage 3- Bottom Chord Extensions Re-installed- Test 6a

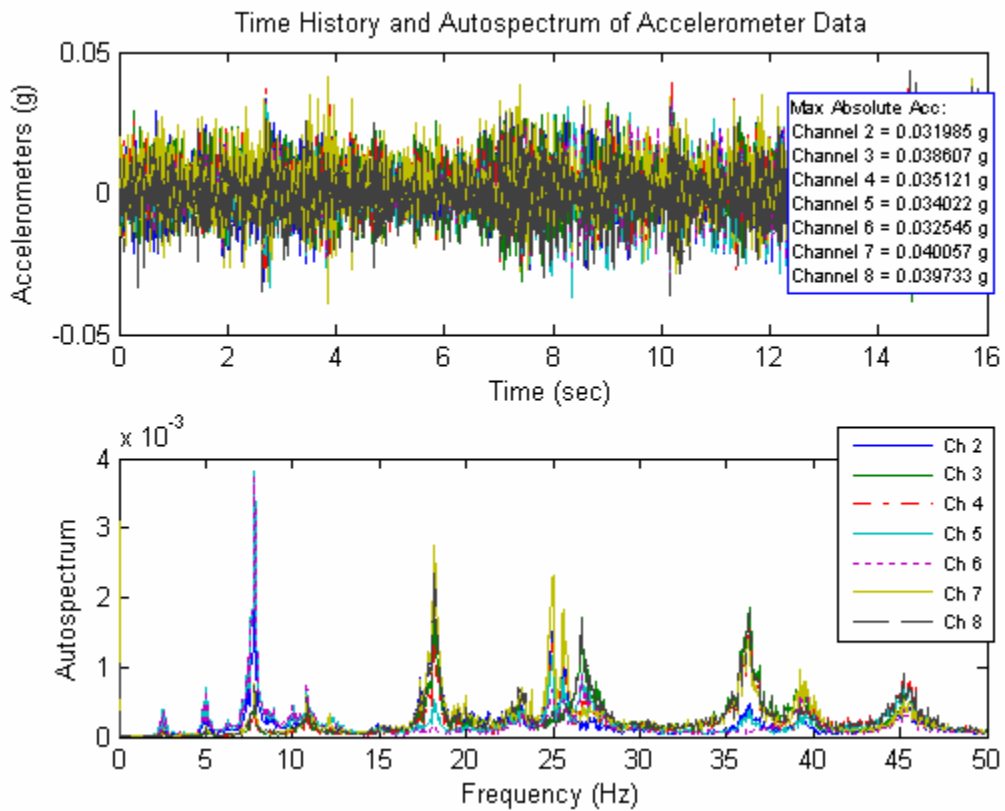
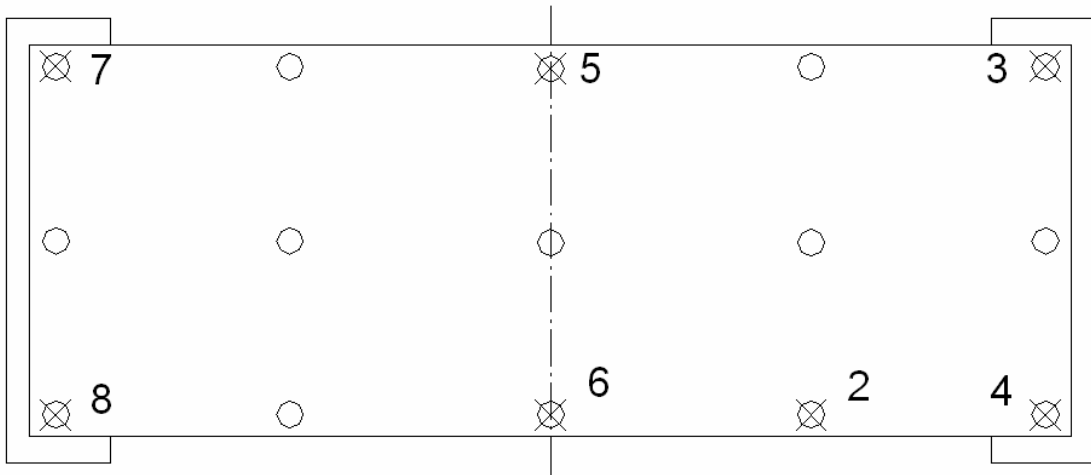




Single Span Floor- Stage 3- Bottom Chord Extensions Re-installed- Test 7
Walking

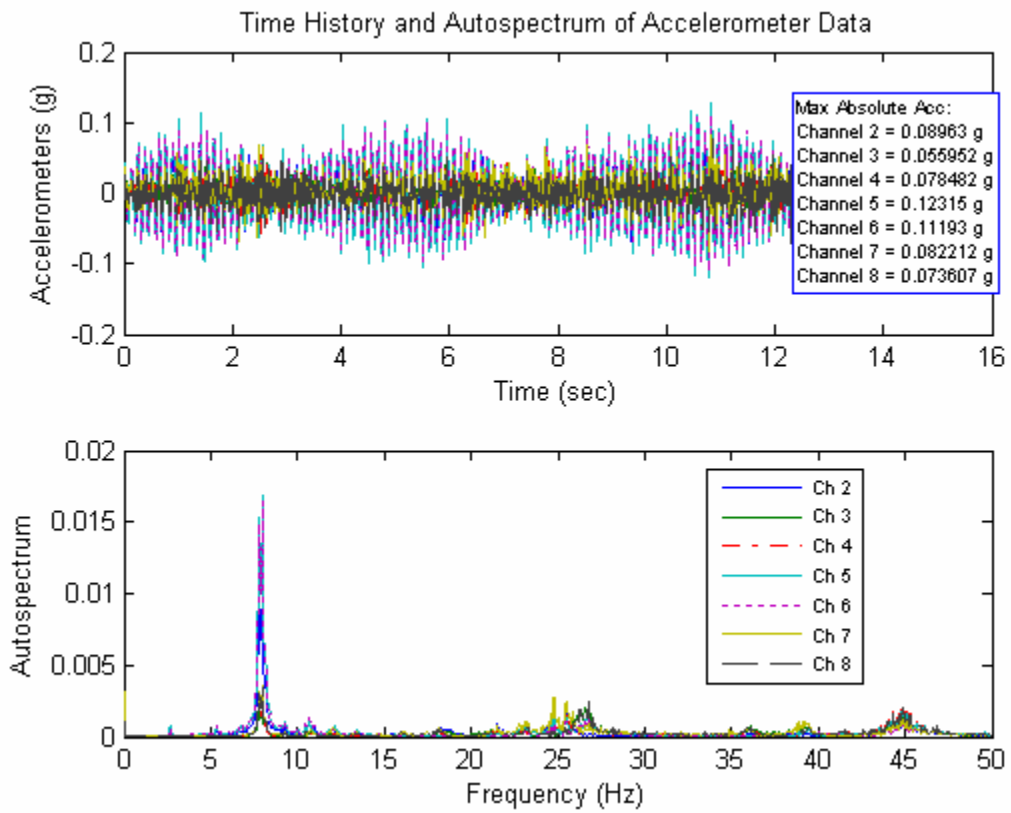
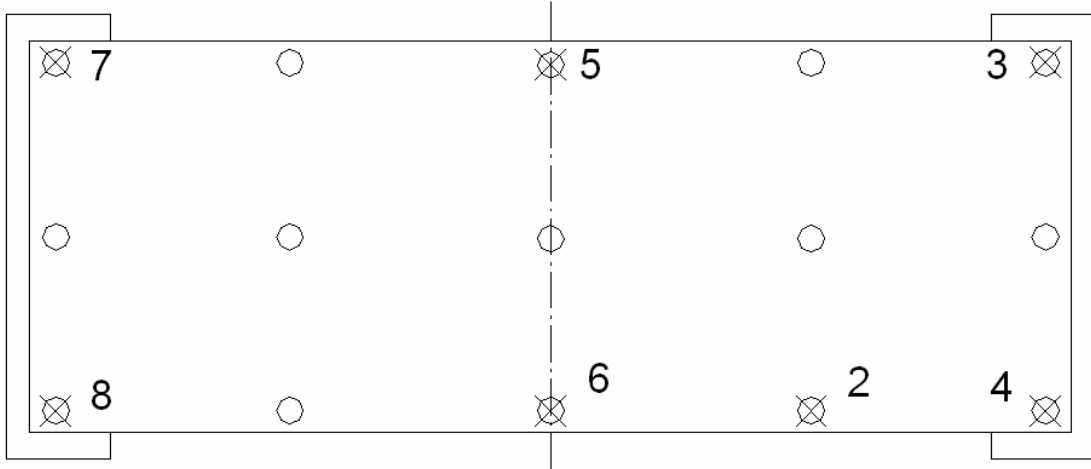


Single Span Floor- Stage 3- Bottom Chord Extensions Re-installed- Test 8



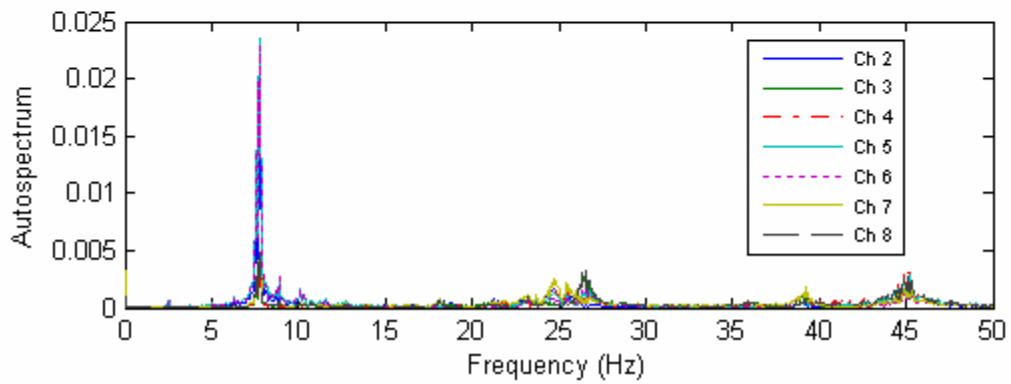
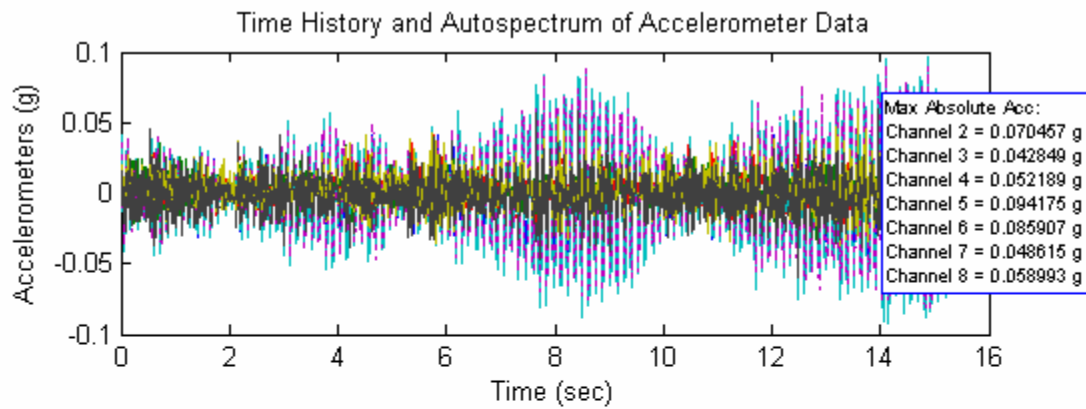
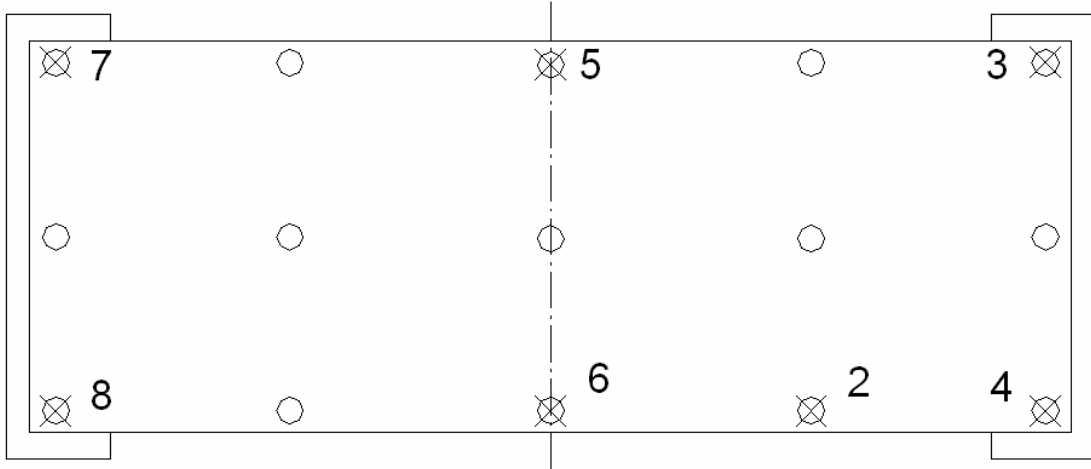
Single Span Floor- Stage 3- Bottom Chord Extensions Re-installed- Test 9

Marching not on FP

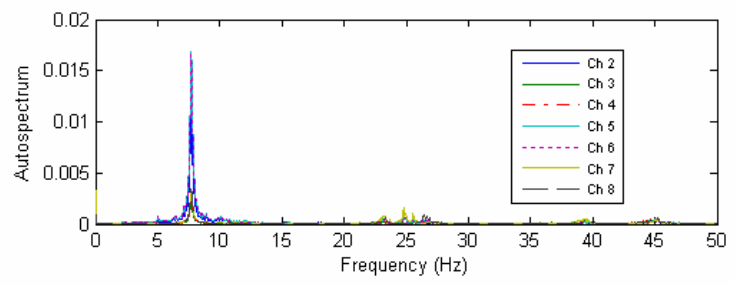
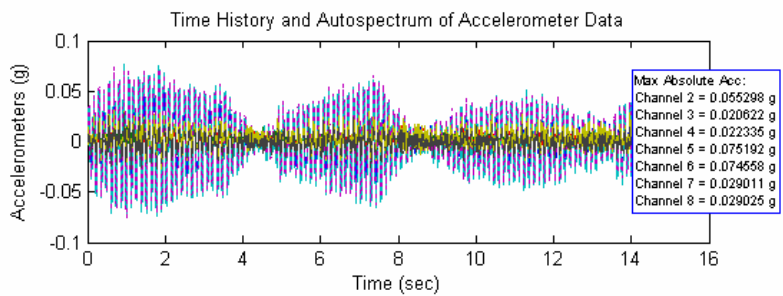
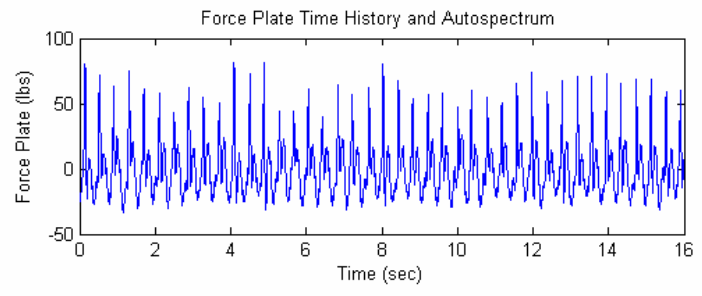
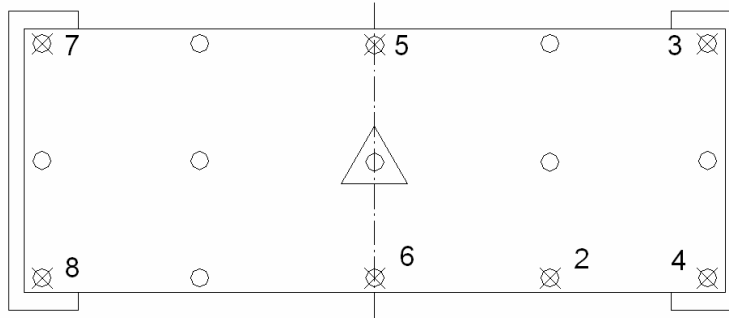


Single Span Floor- Stage 3- Bottom Chord Extensions Re-installed- Test 10

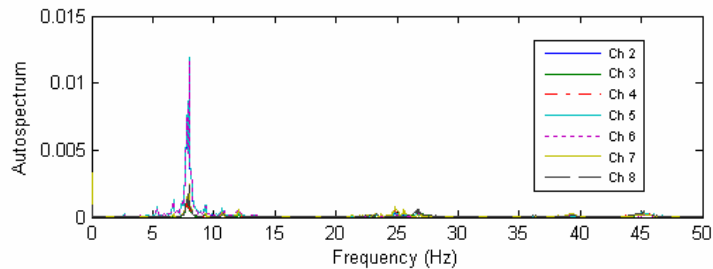
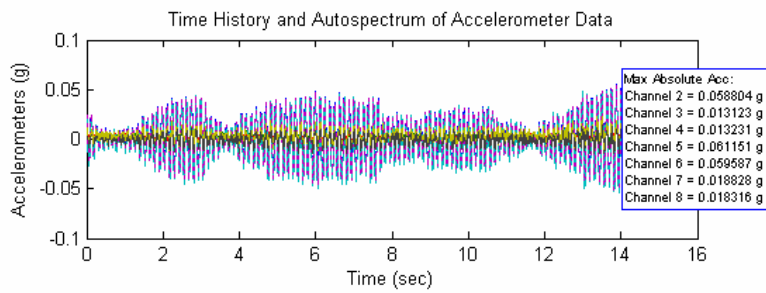
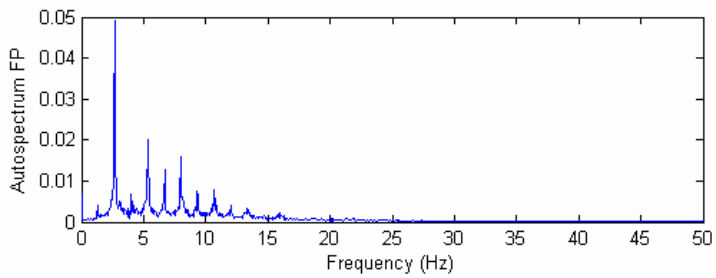
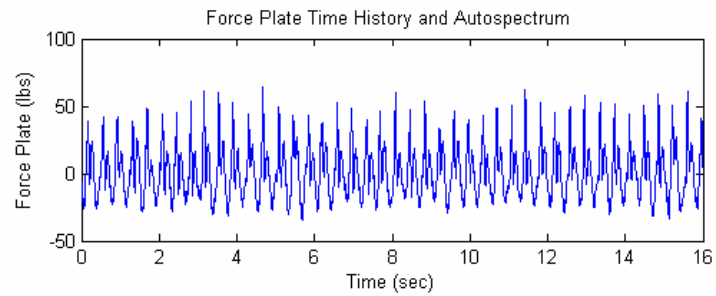
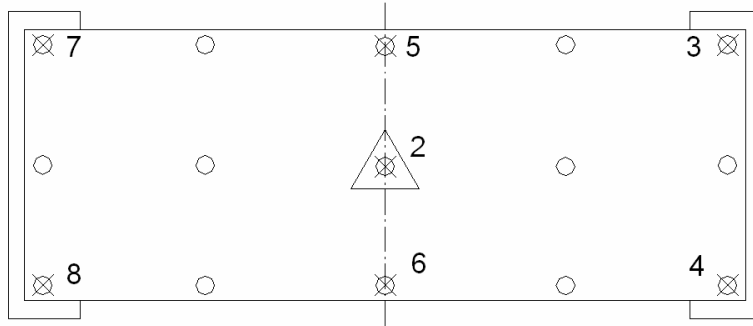
Marching not on FP



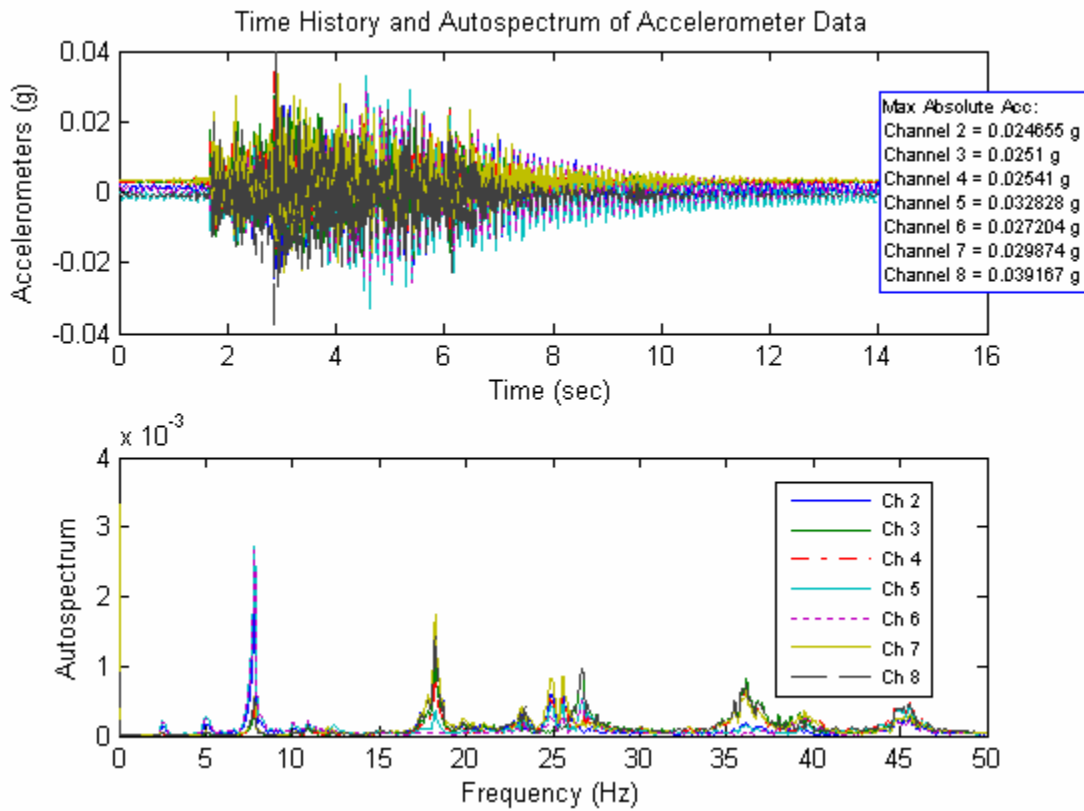
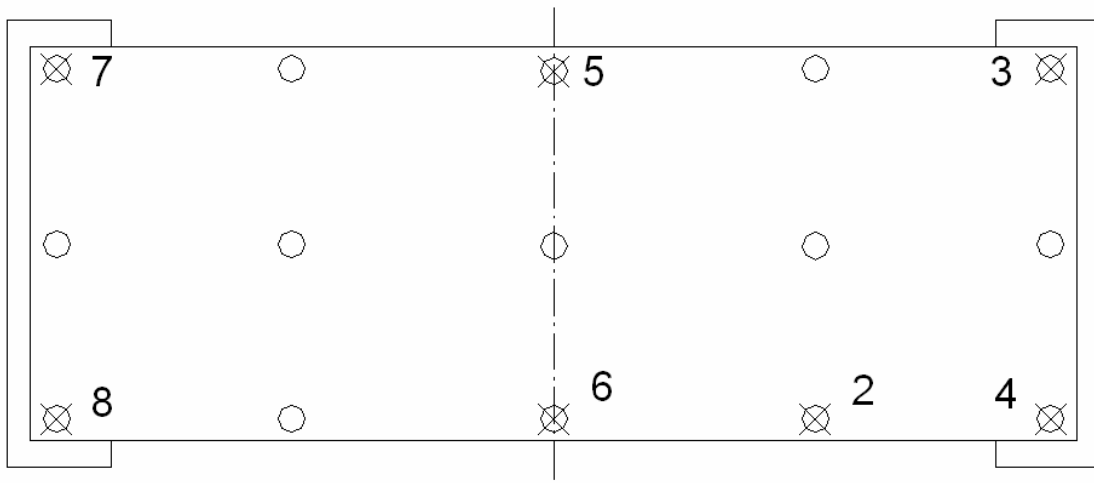
Single Span Floor- Stage 3- Bottom Chord Extensions Re-installed- Test 11 Marching on FP



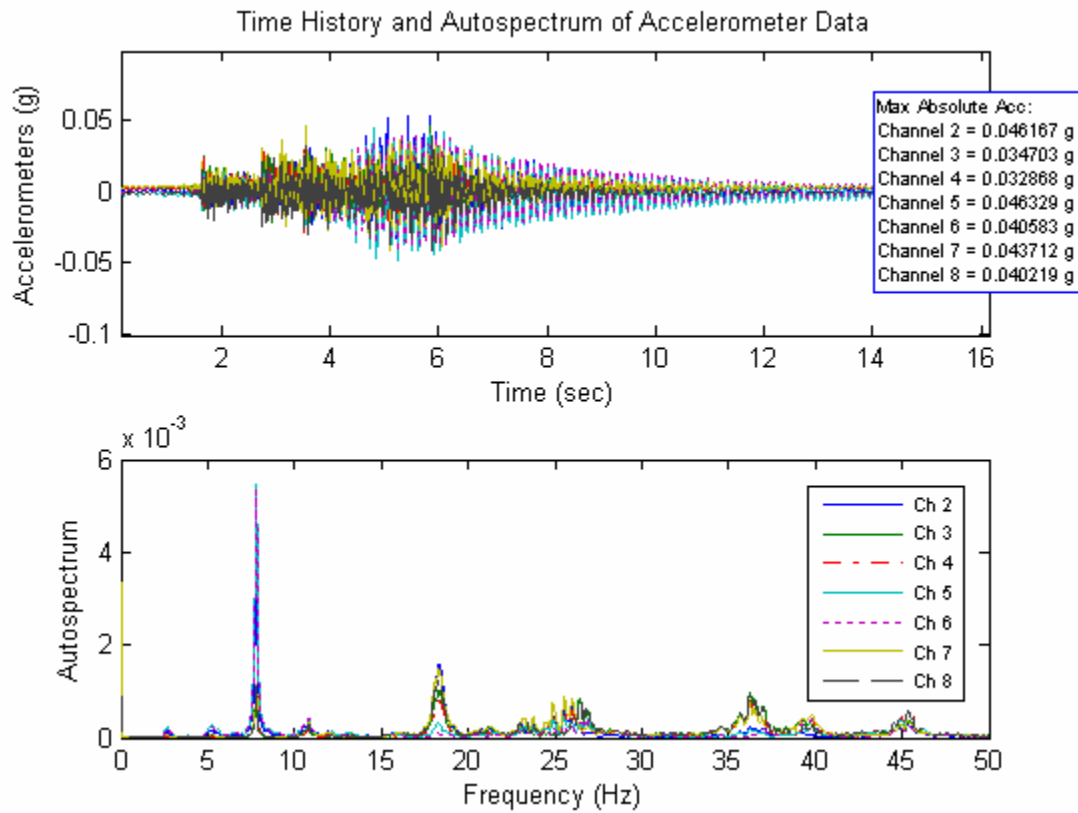
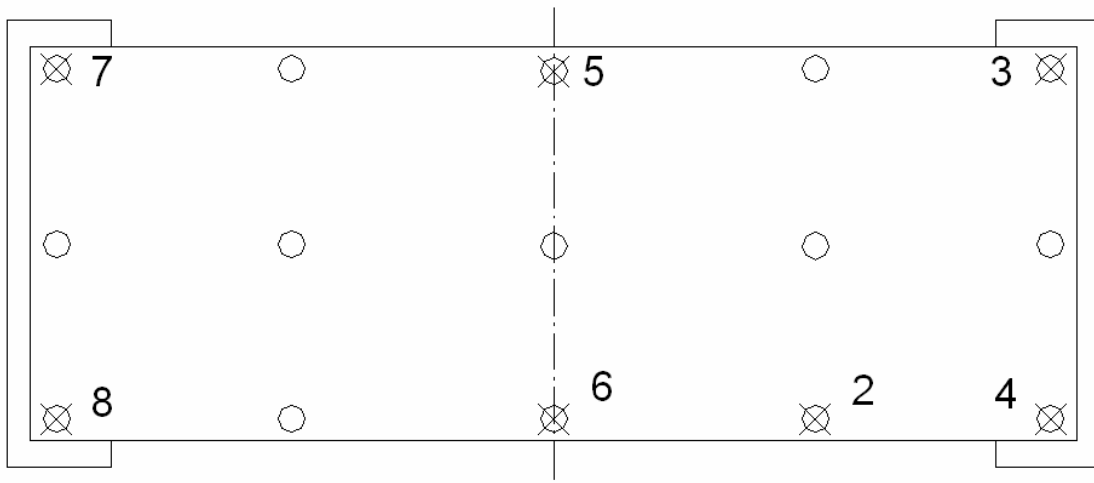
Single Span Floor- Stage 3- Bottom Chord Extensions Re-installed- Test 12 Marching on FP



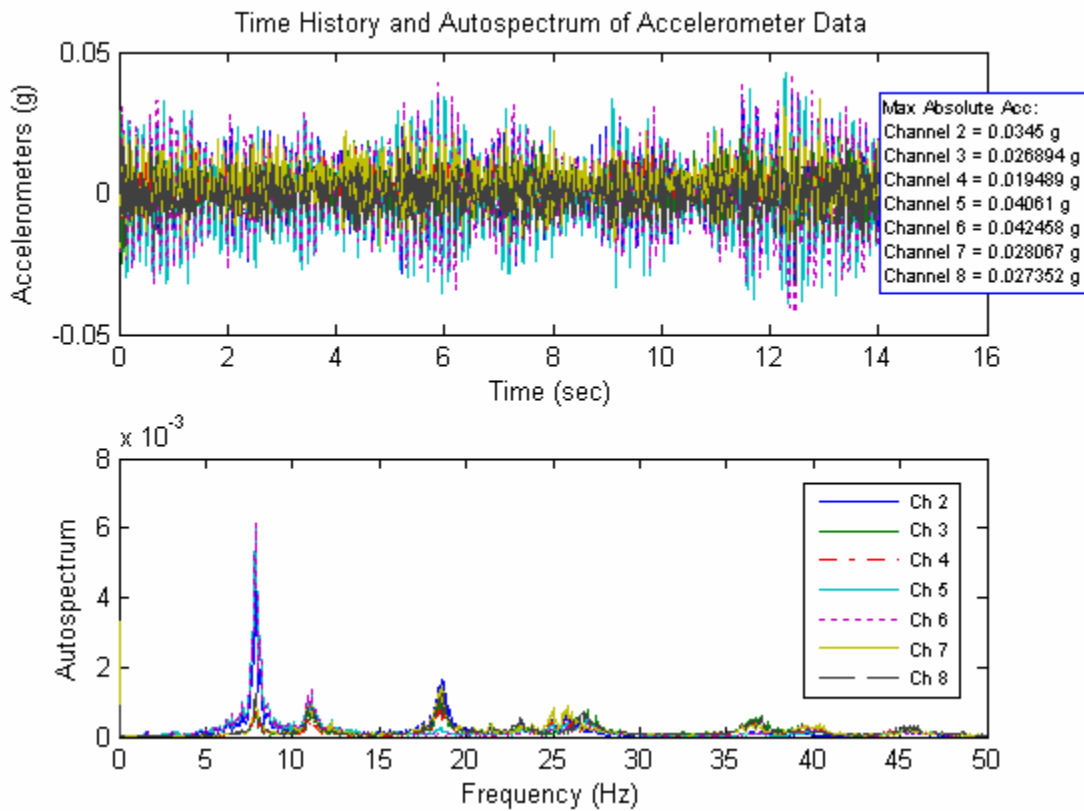
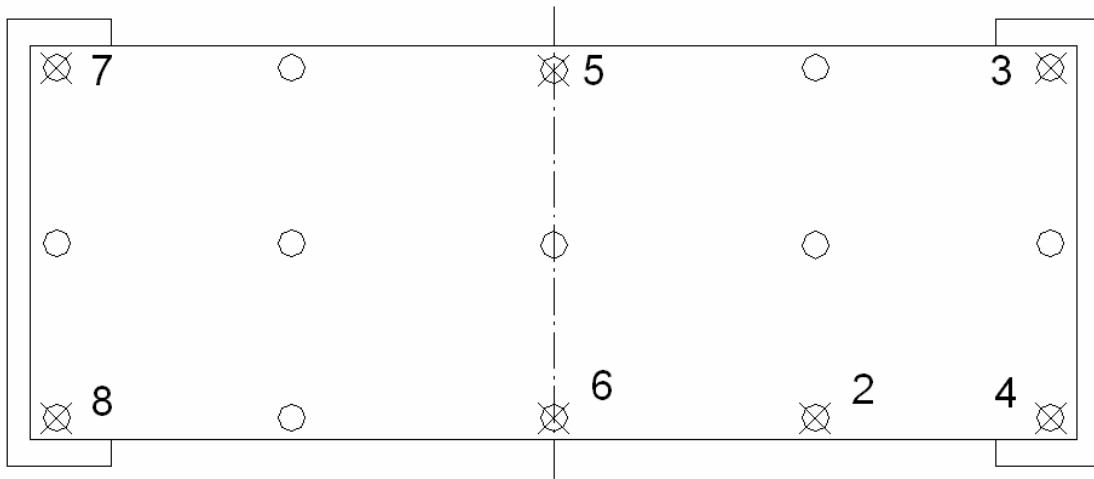
Single Span Floor- Stage 3- Bottom Chord Extensions Re-installed- Test 13



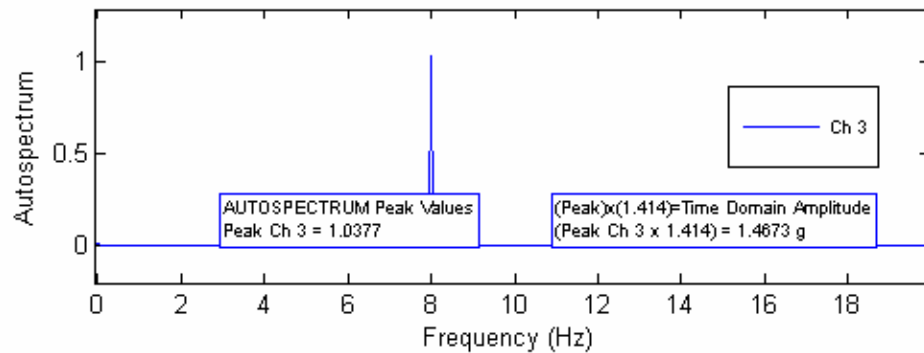
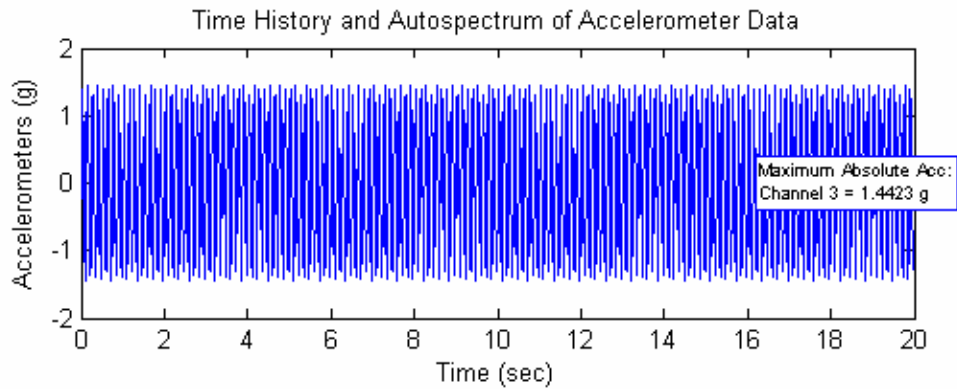
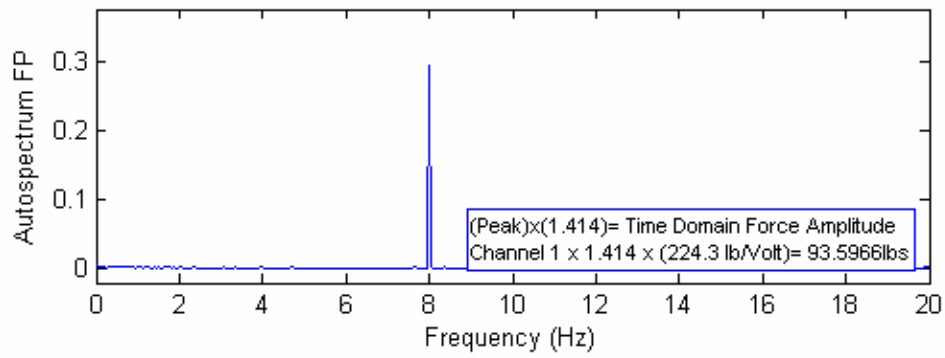
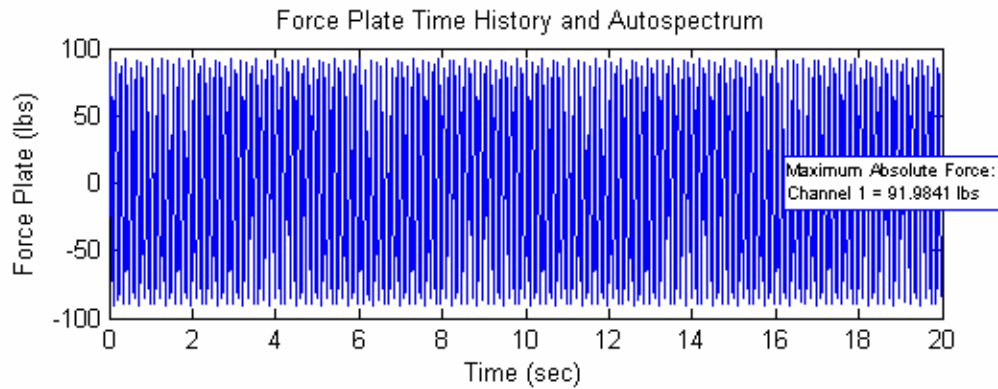
Single Span Floor- Stage 3- Bottom Chord Extensions Re-installed- Test 14



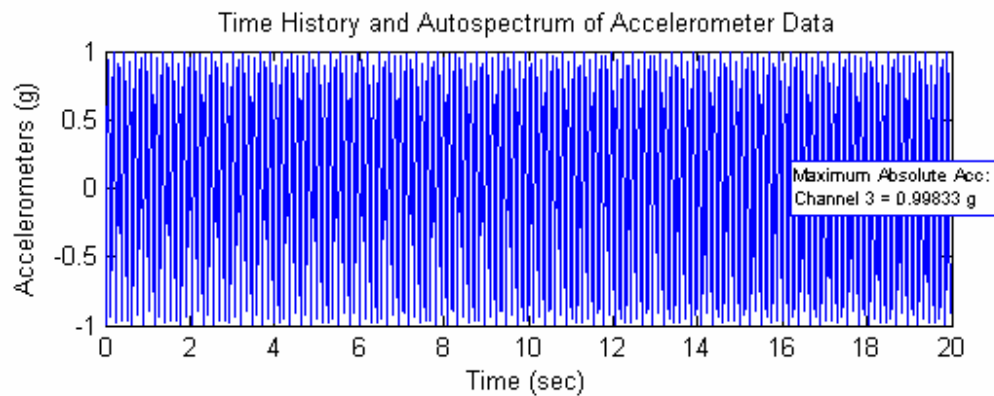
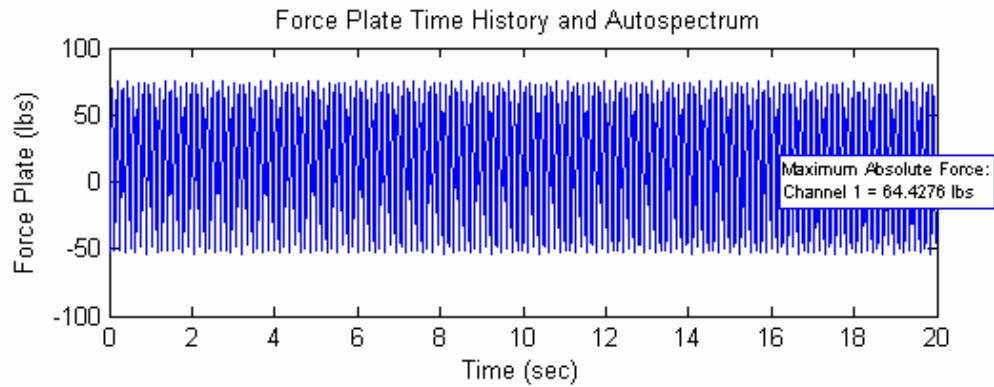
Single Span Floor- Stage 3- Bottom Chord Extensions Re-installed- Test 15
 4 People Walking Randomly



Single Span Floor- Stage 3- Bottom Chord Extensions Re-installed- Test 16
Shaker Calibration on Ground

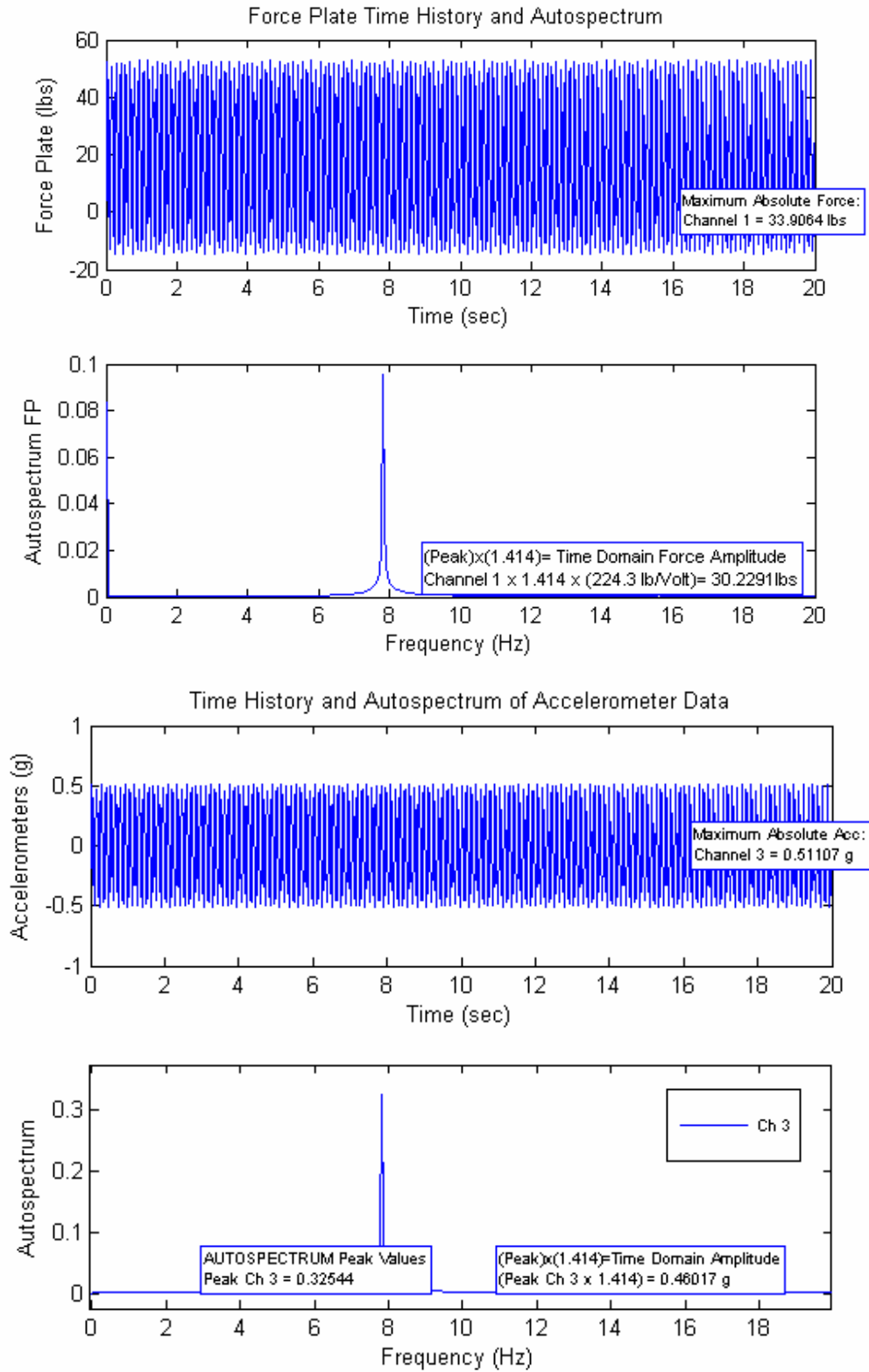


Single Span Floor- Stage 3- Bottom Chord Extensions Re-installed- Test 17
Shaker Calibration on Ground

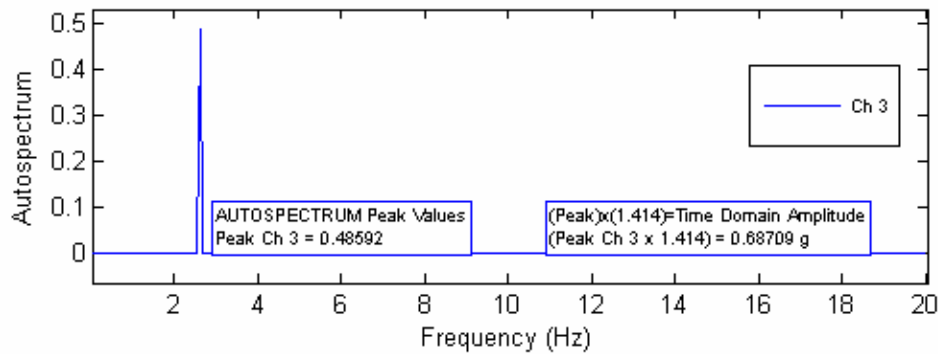
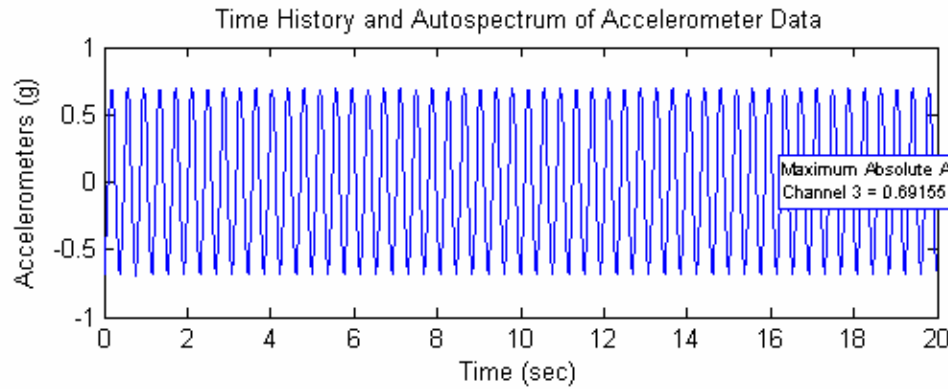
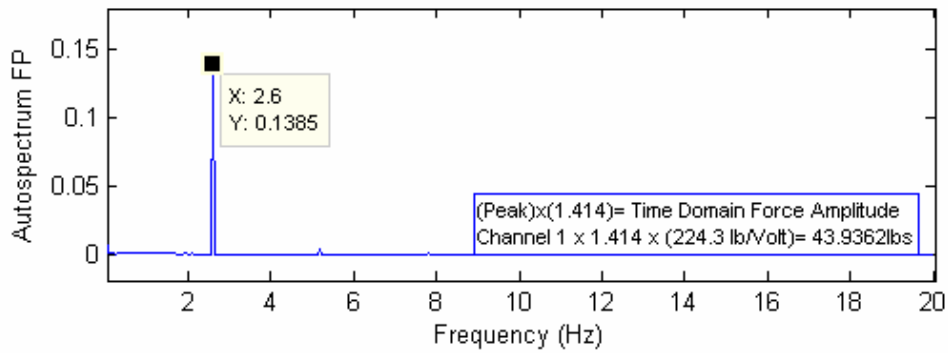
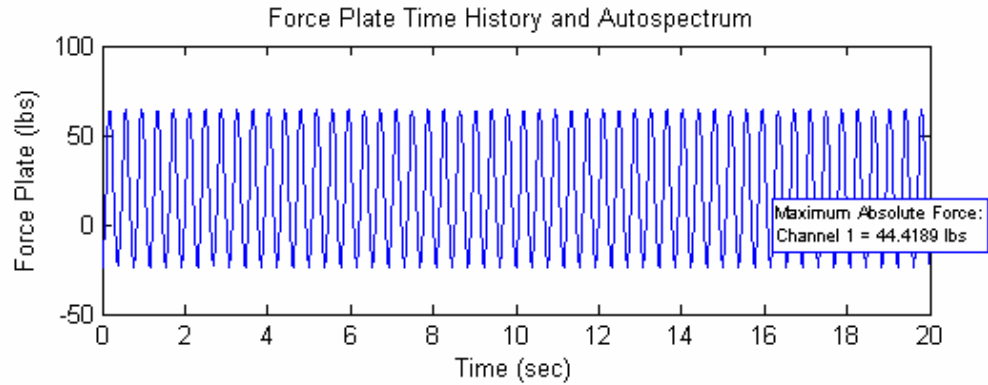


Single Span Floor- Stage 3- Bottom Chord Extensions Re-installed- Test 18

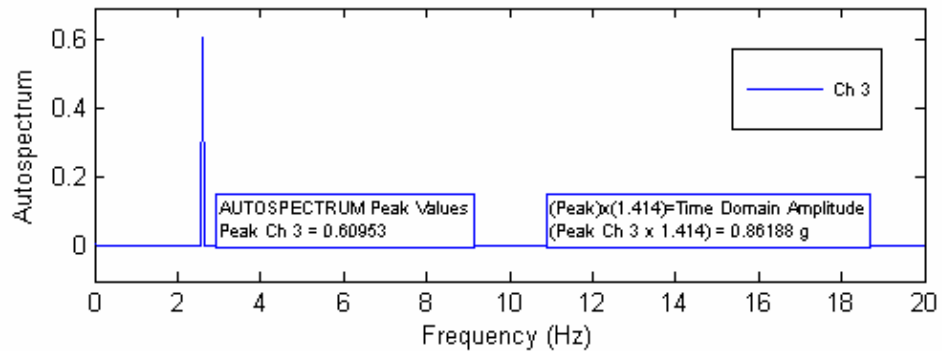
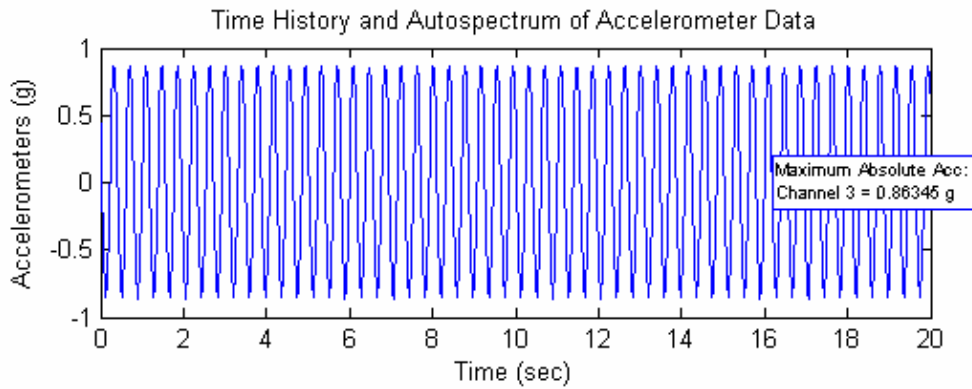
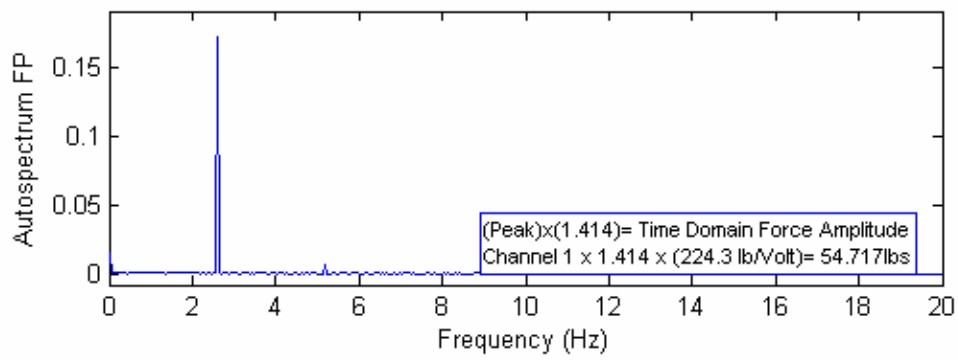
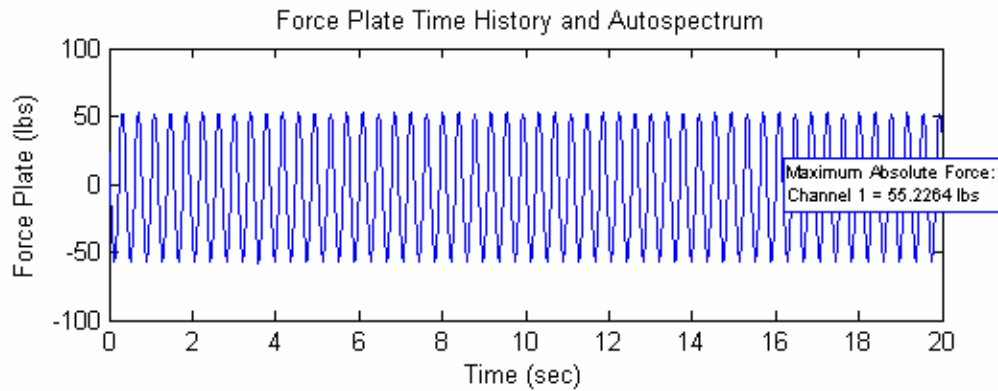
Shaker Calibration on Ground



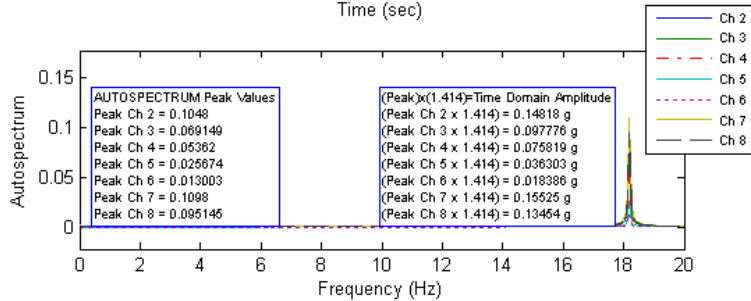
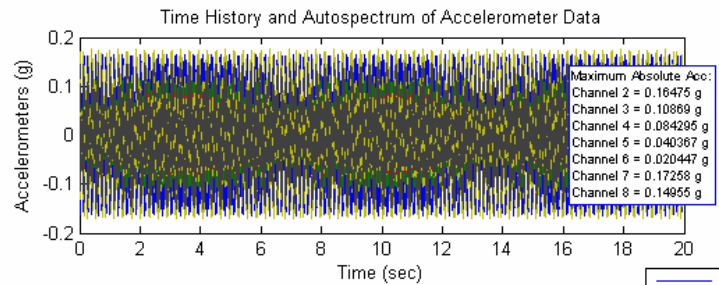
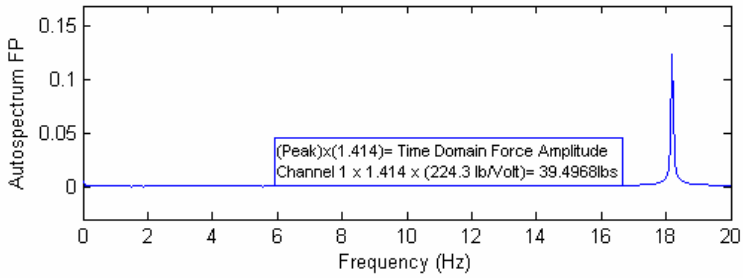
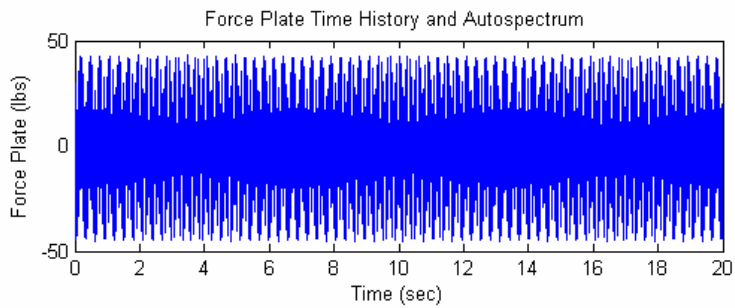
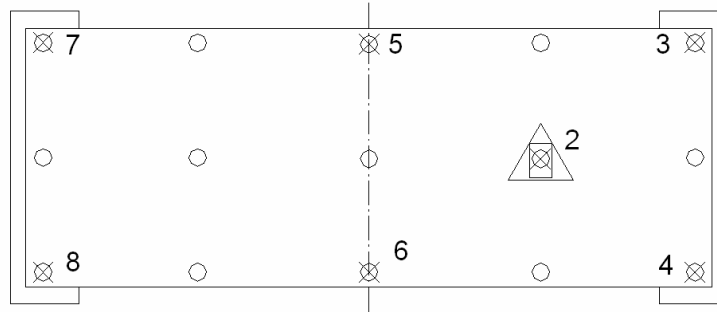
Single Span Floor- Stage 3- Bottom Chord Extensions Re-installed- Test 19
Shaker Calibration on Ground



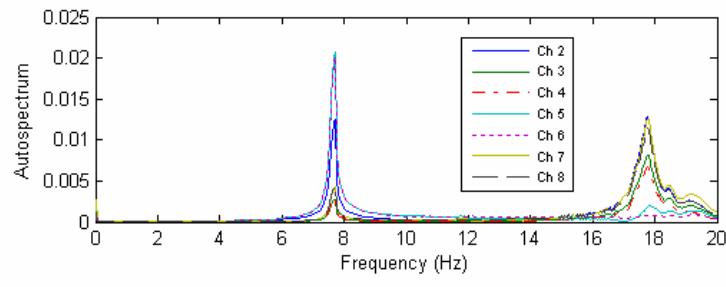
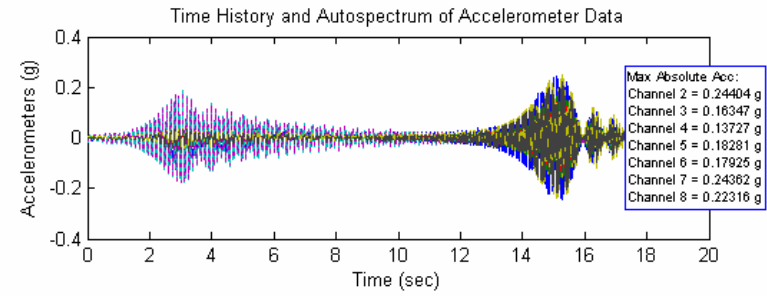
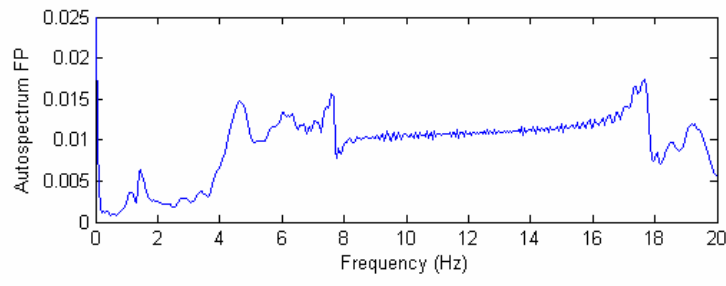
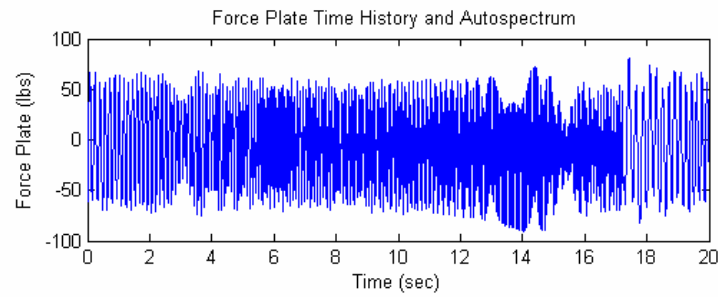
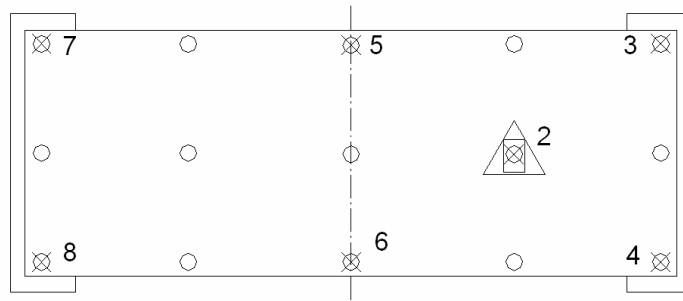
Single Span Floor- Stage 3- Bottom Chord Extensions Re-installed- Test 20
Shaker Calibration on Ground

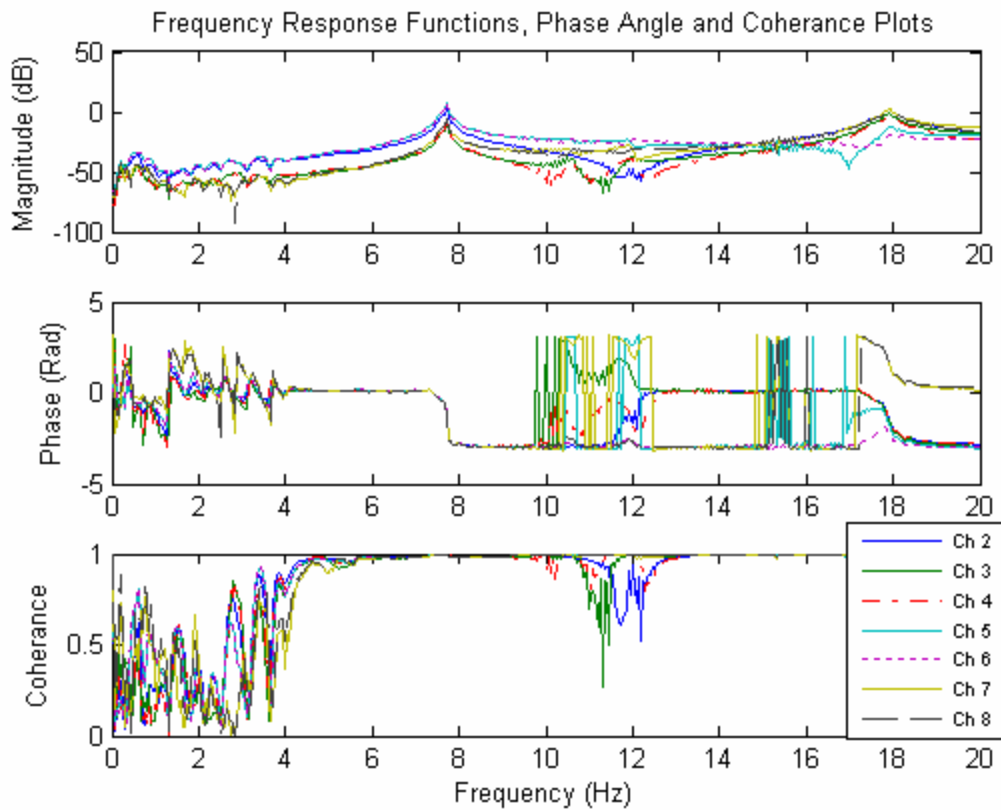
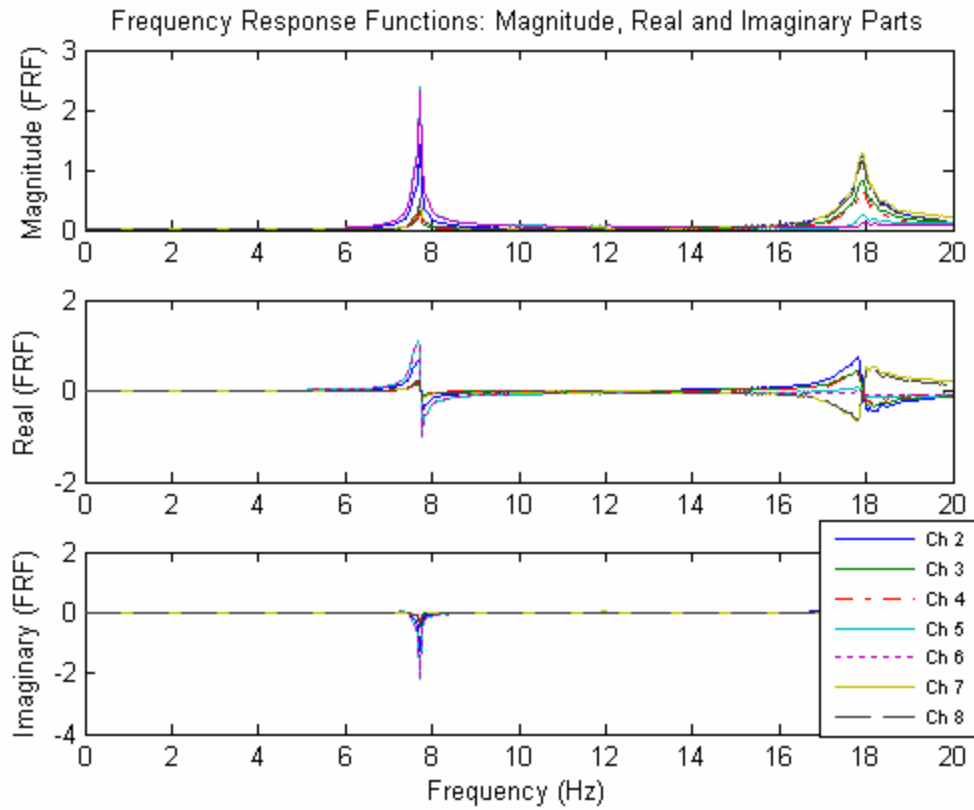


Single Span Floor- Stage 3- Bottom Chord Extensions Re-installed- Test 21

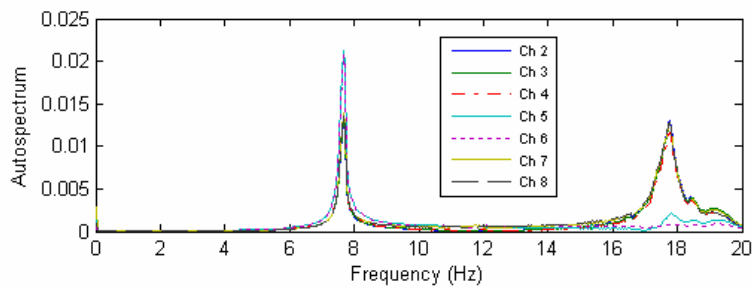
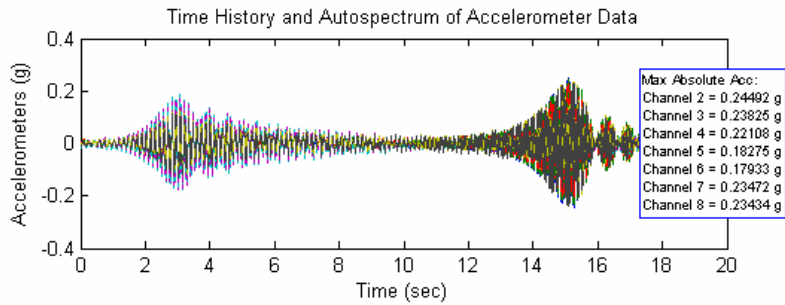
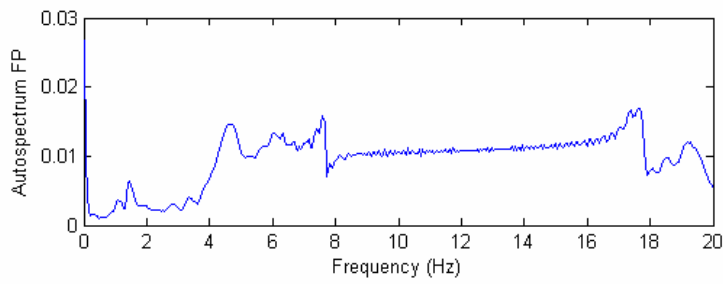
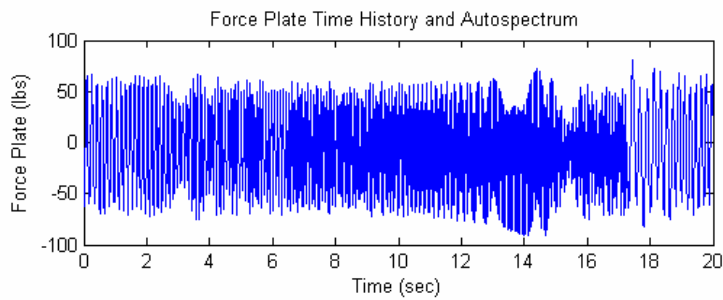
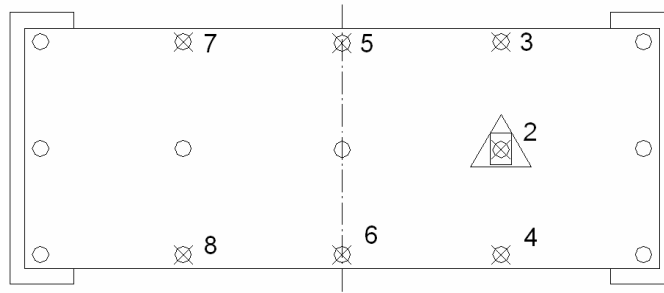


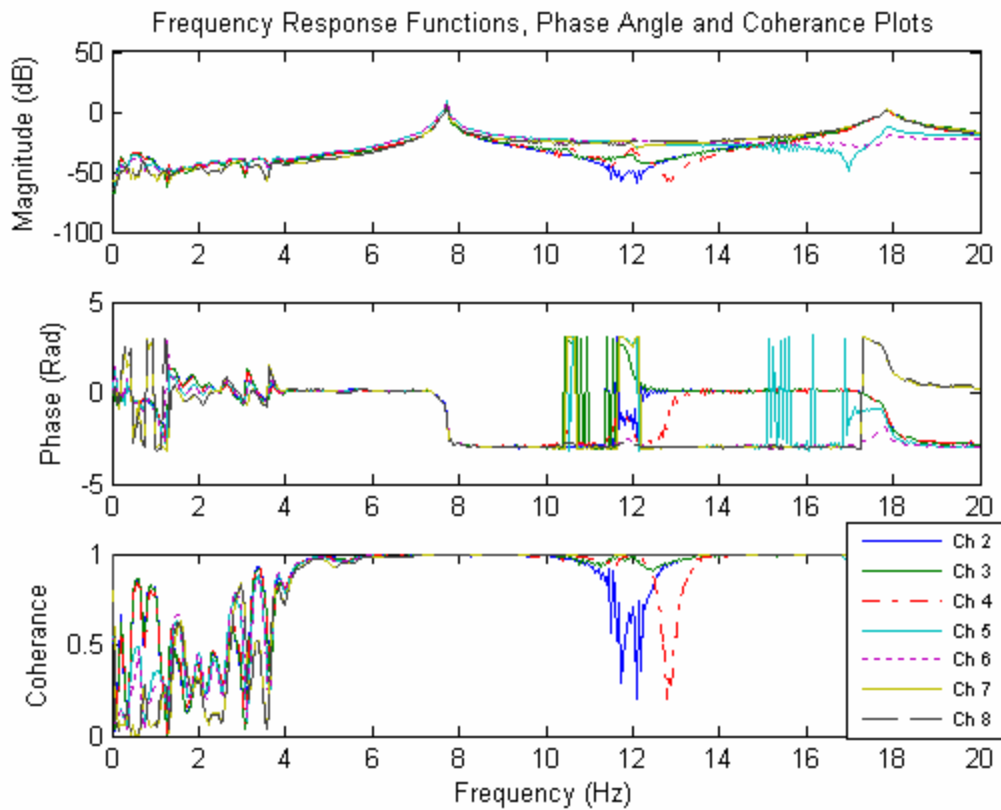
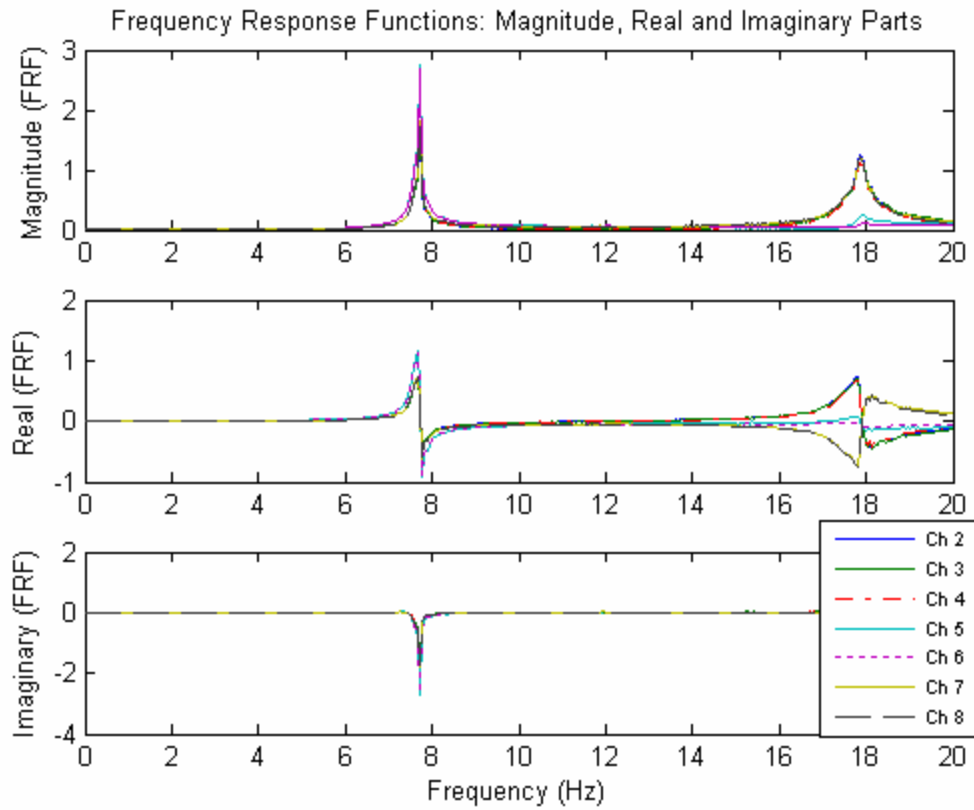
Single Span Floor- Stage 3- Bottom Chord Extensions Re-installed- Test 23



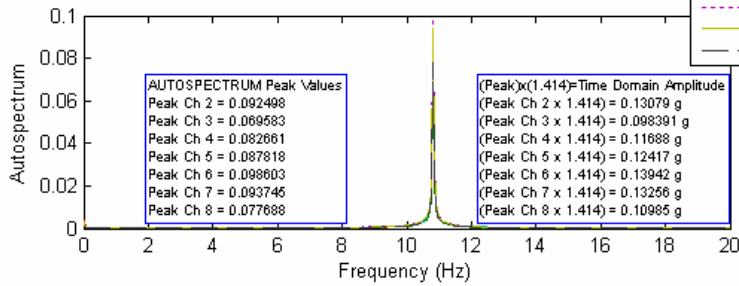
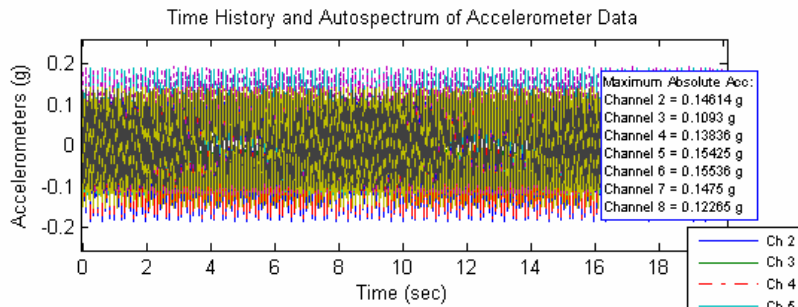
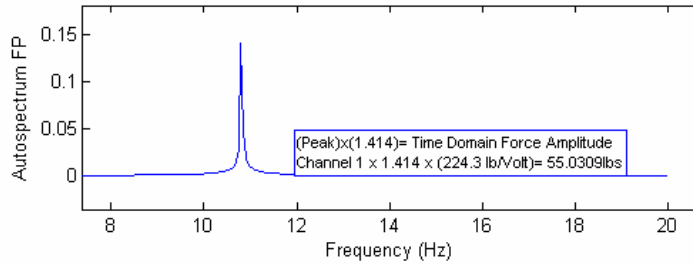
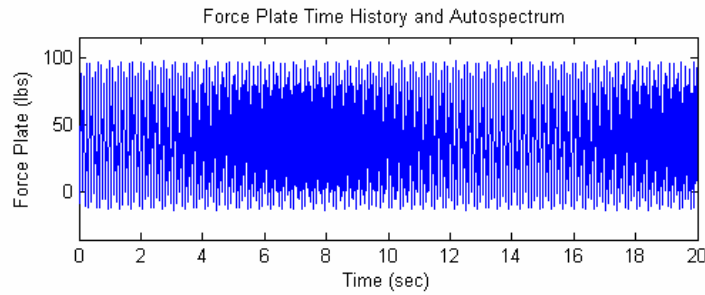
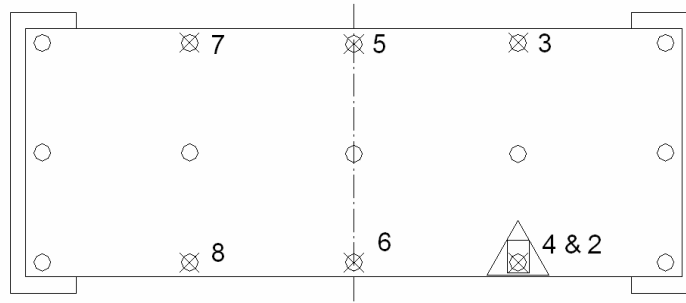


Single Span Floor- Stage 3- Bottom Chord Extensions Re-installed- Test 24

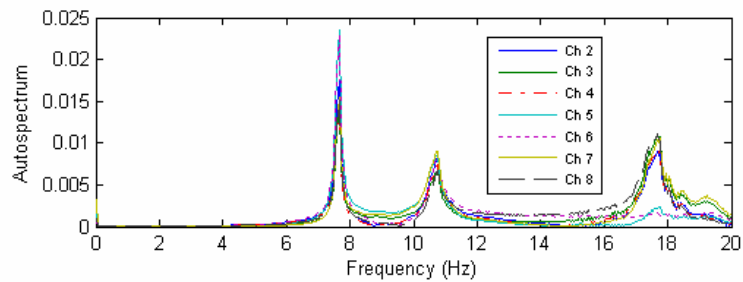
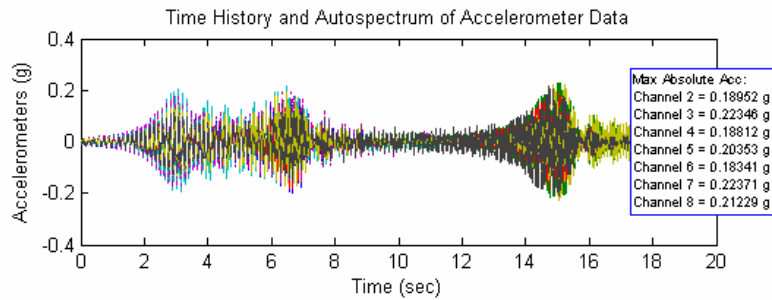
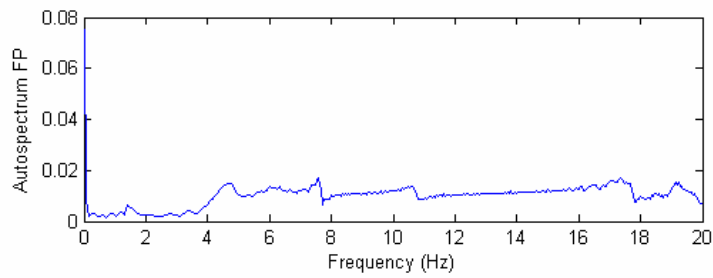
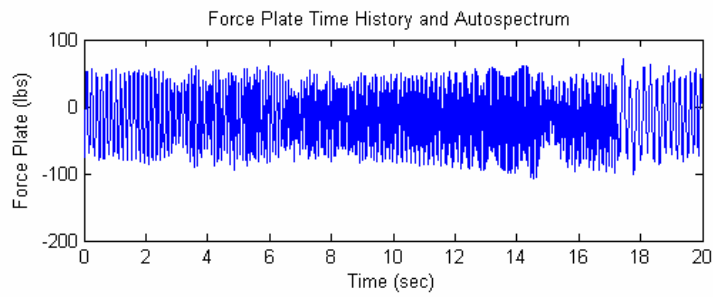
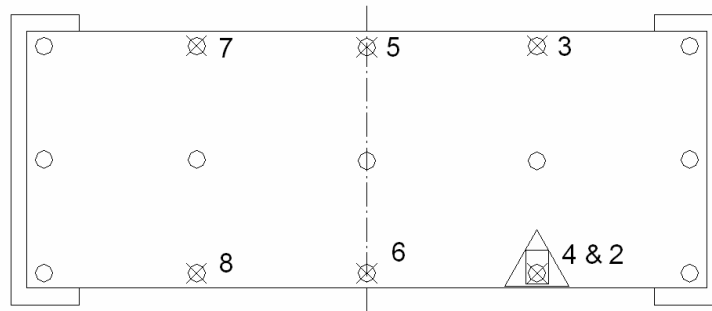


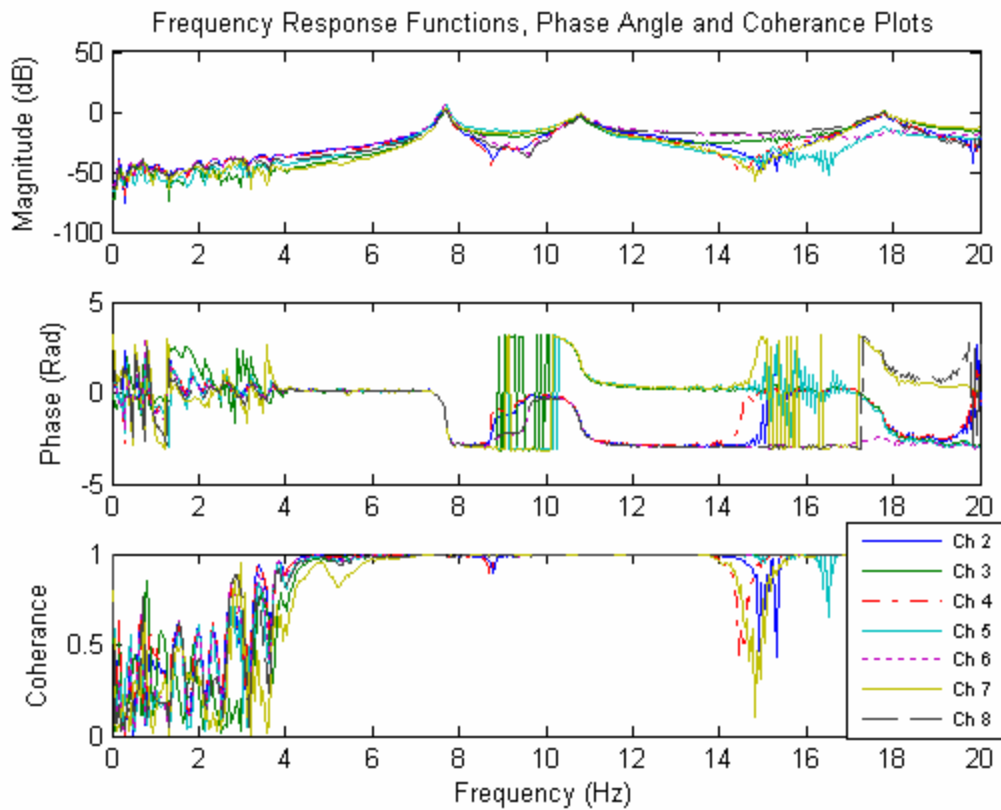
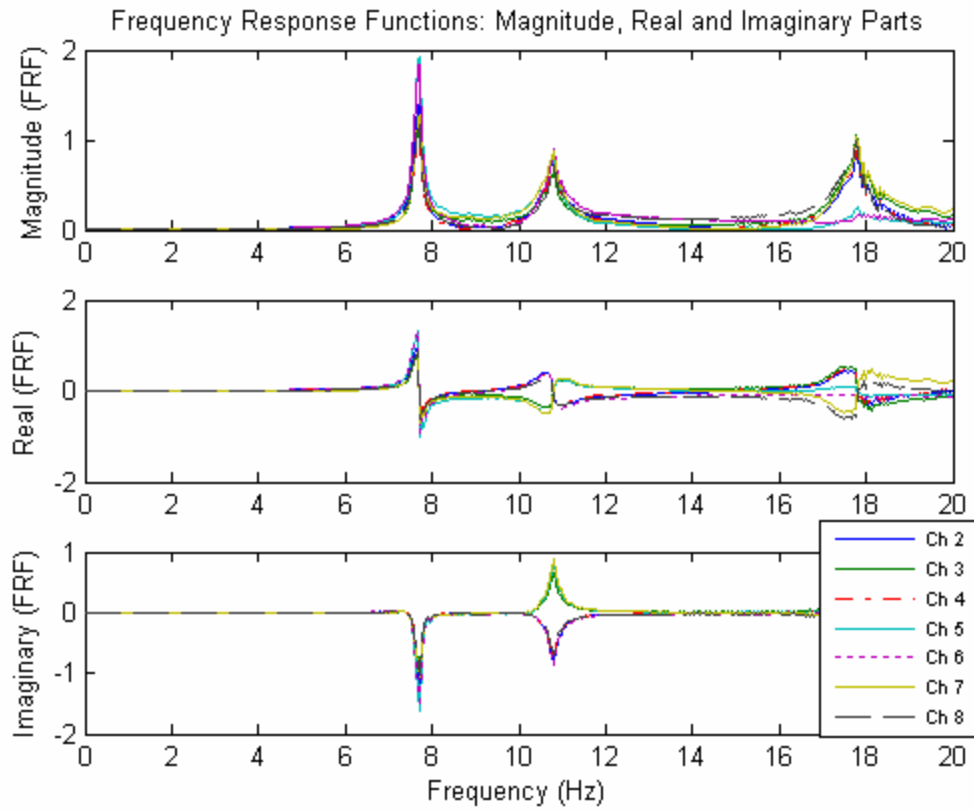


Single Span Floor- Stage 3- Bottom Chord Extensions Re-installed- Test 25

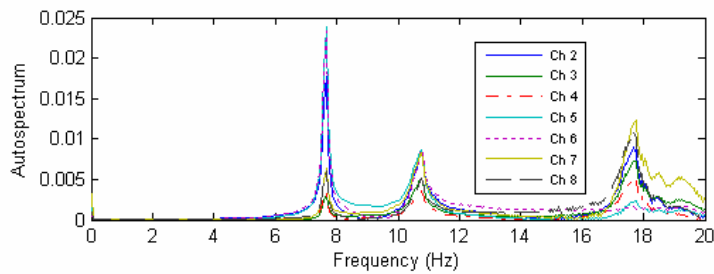
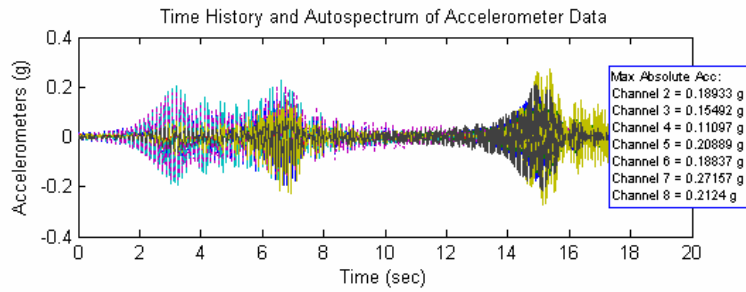
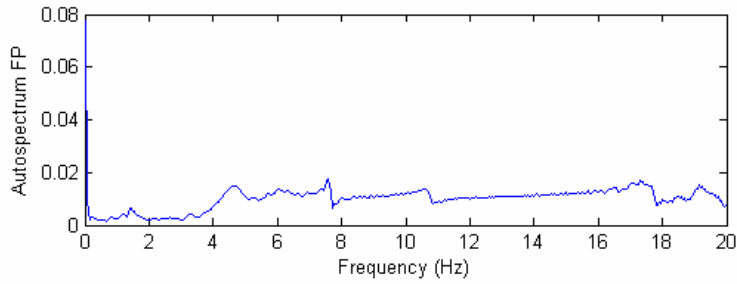
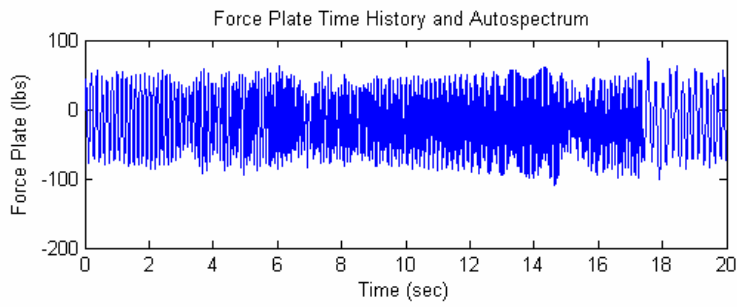
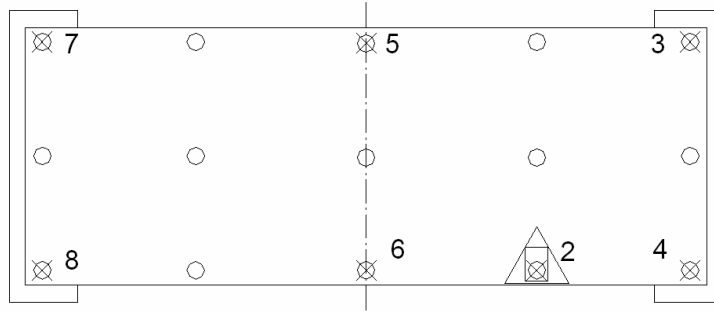


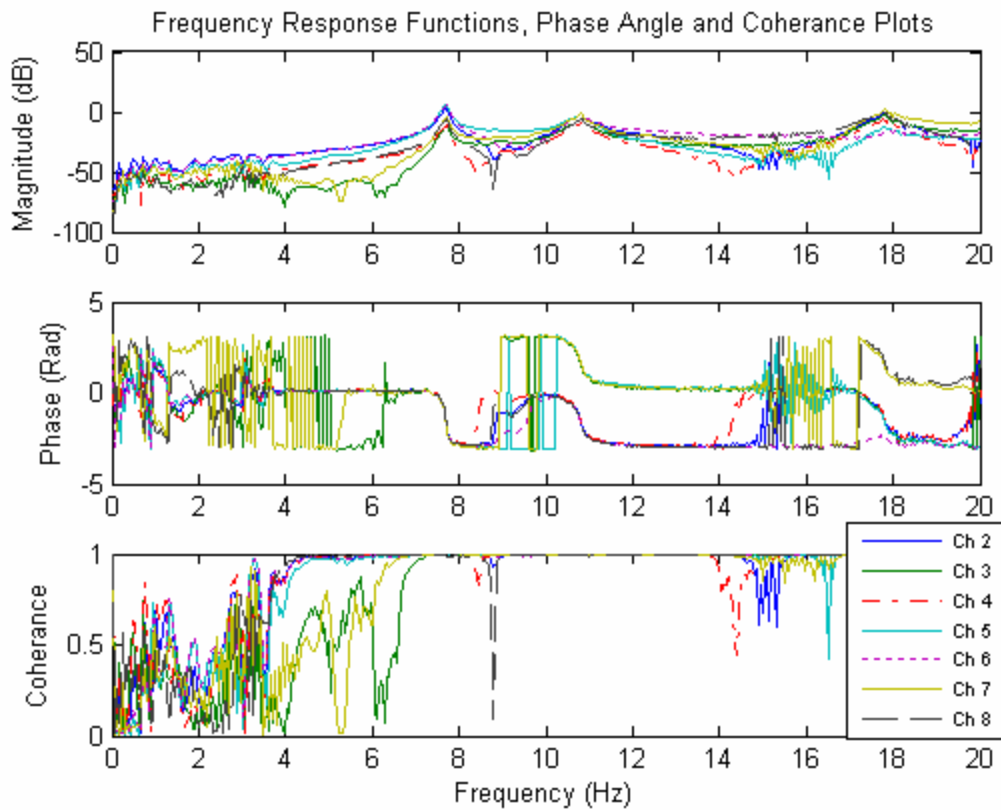
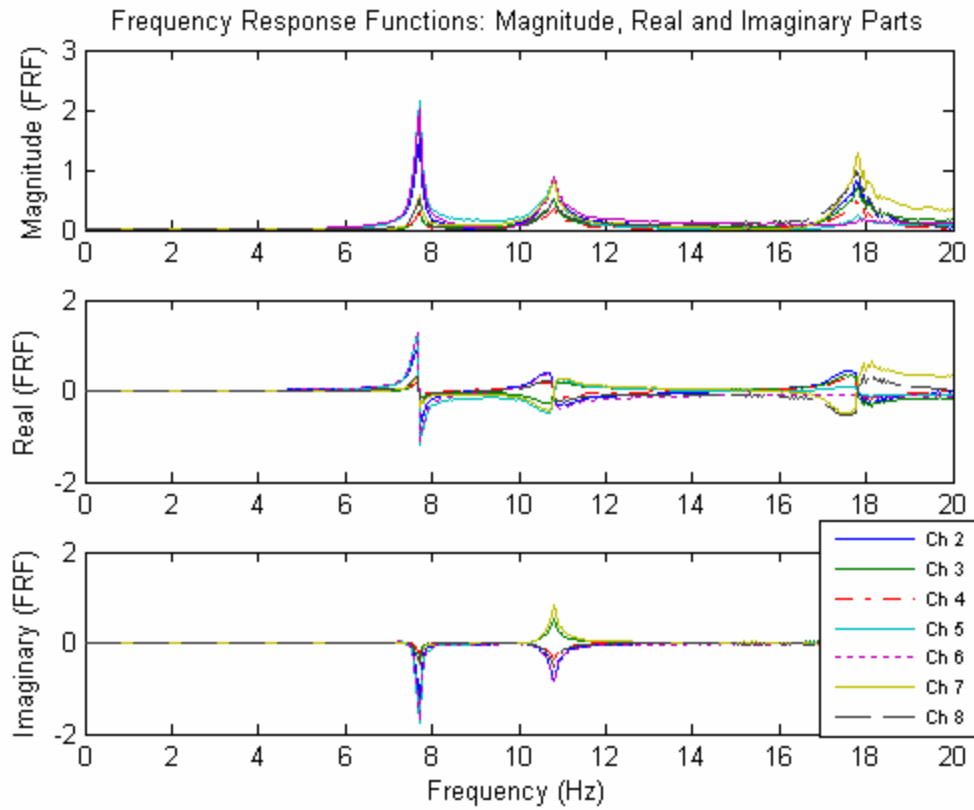
Single Span Floor- Stage 3- Bottom Chord Extensions Re-installed- Test 26



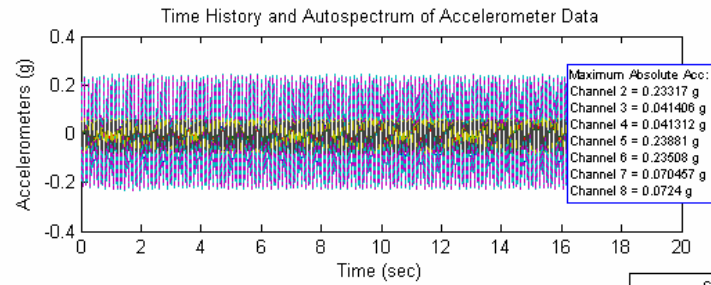
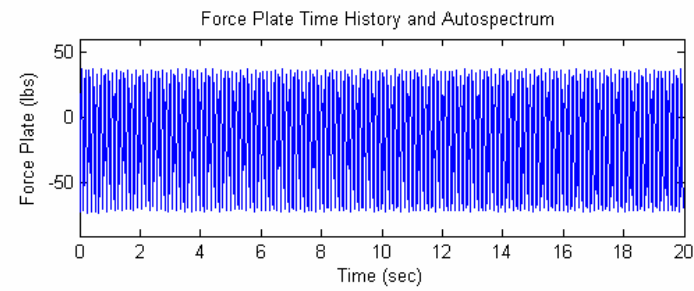
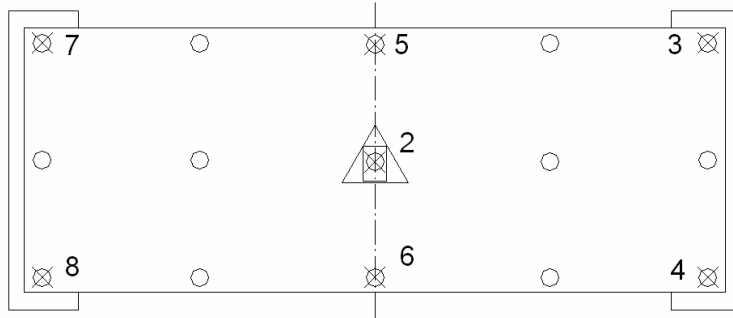


Single Span Floor- Stage 3- Bottom Chord Extensions Re-installed- Test 27

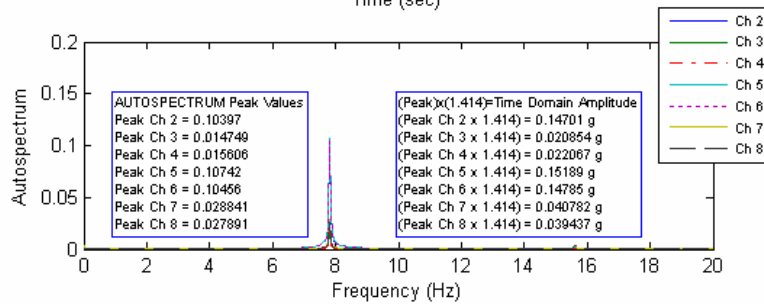
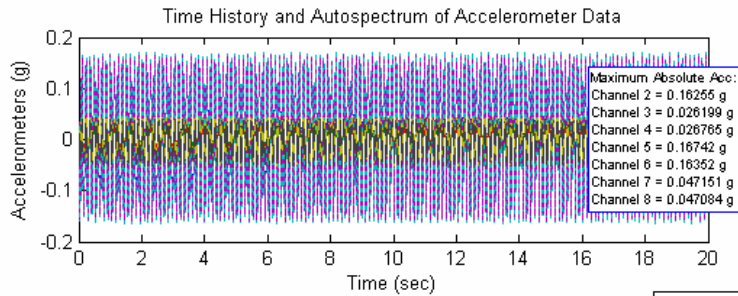
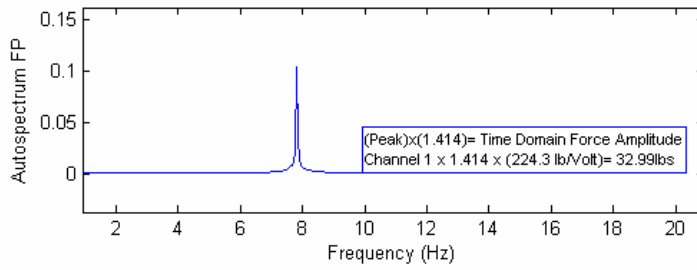
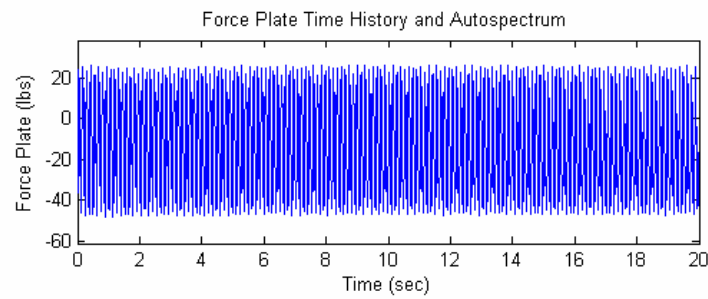
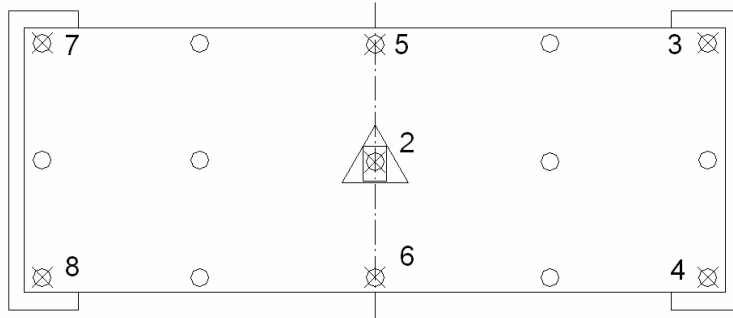




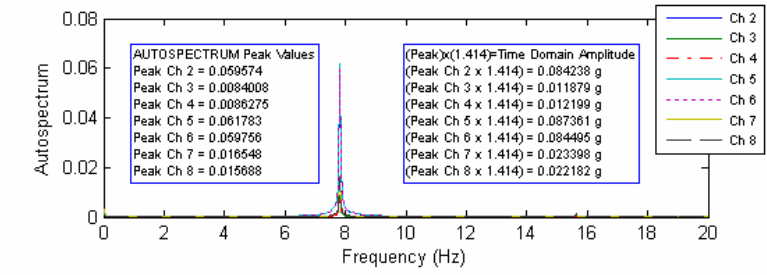
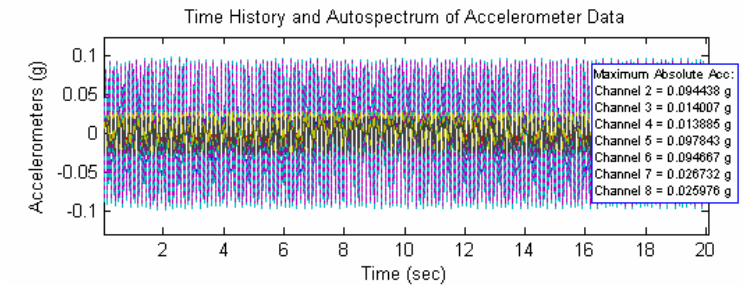
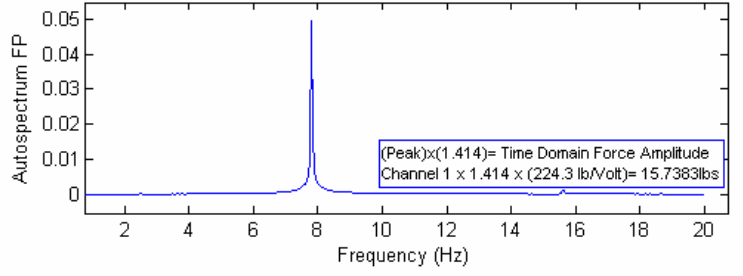
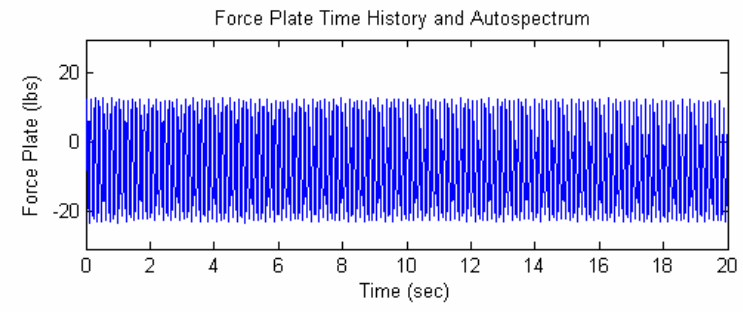
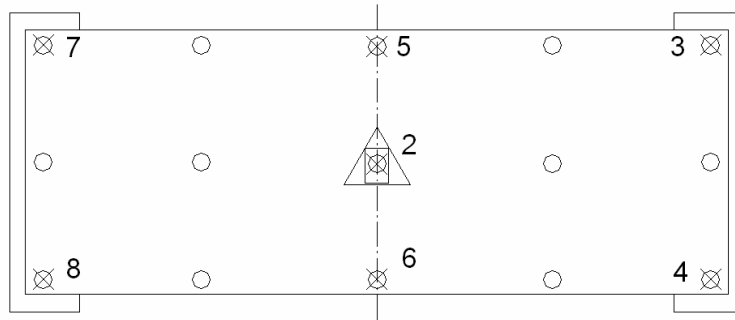
Single Span Floor- Stage 3- Bottom Chord Extensions Re-installed- Test 28



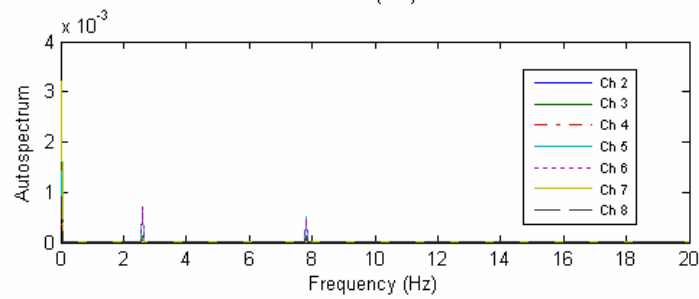
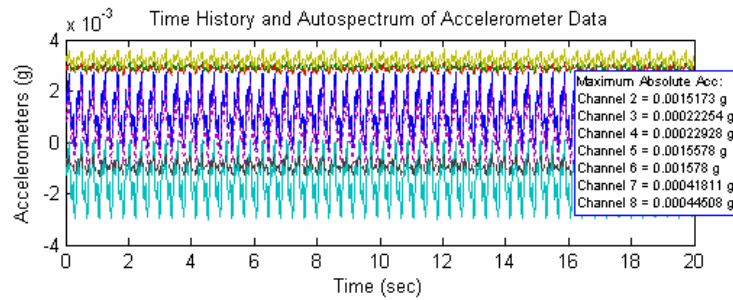
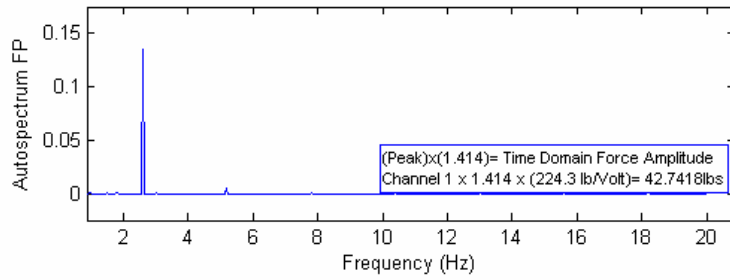
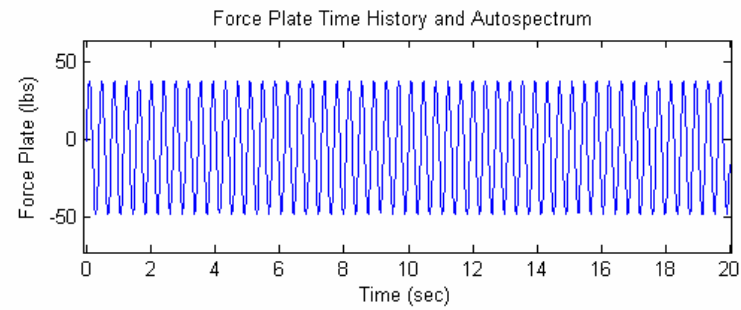
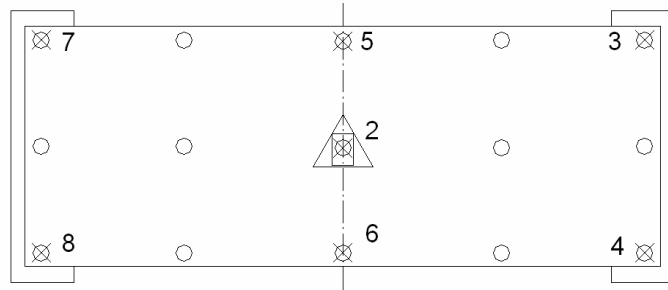
Single Span Floor- Stage 3- Bottom Chord Extensions Re-installed- Test 29



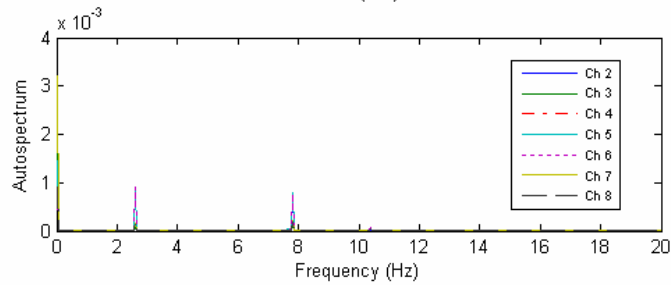
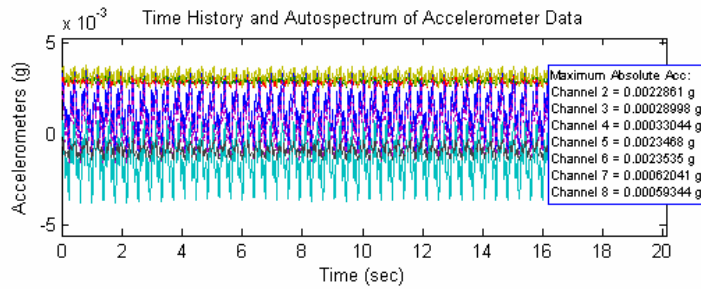
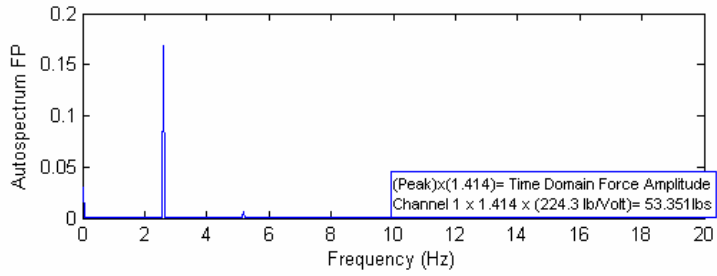
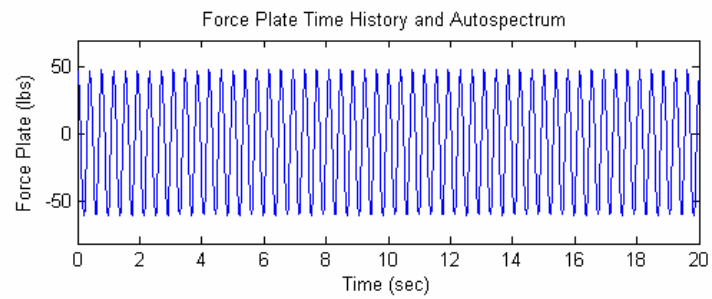
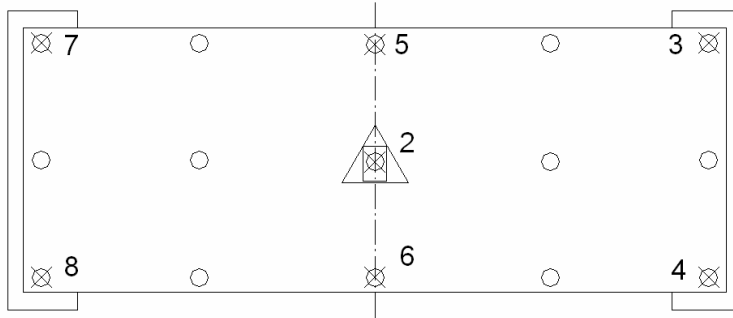
Single Span Floor- Stage 3- Bottom Chord Extensions Re-installed- Test 30



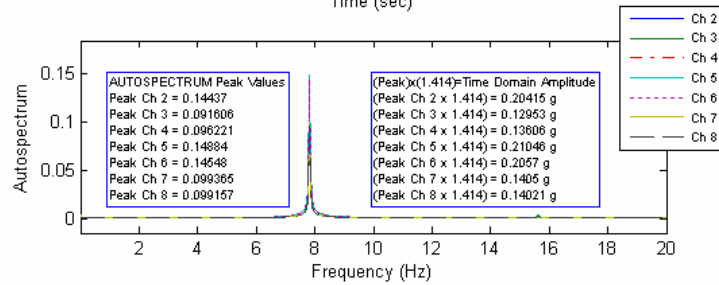
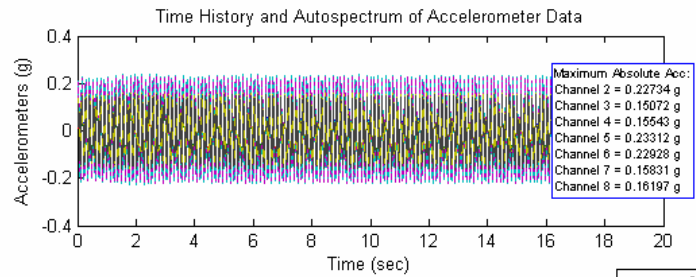
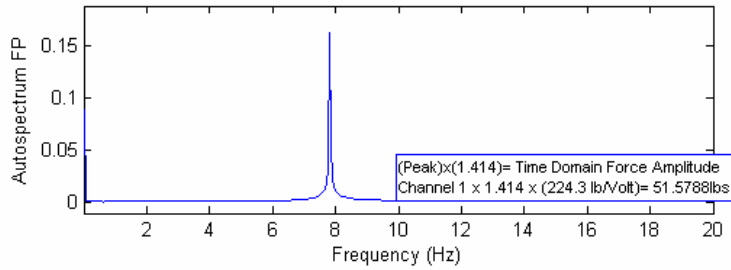
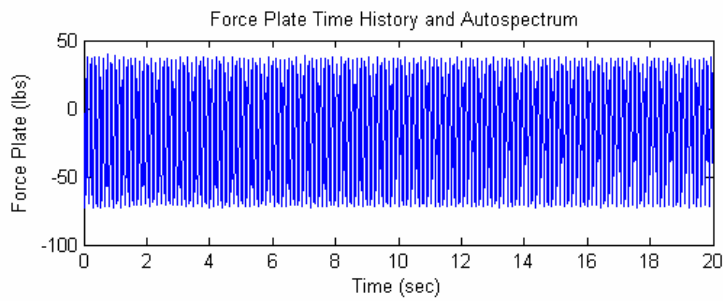
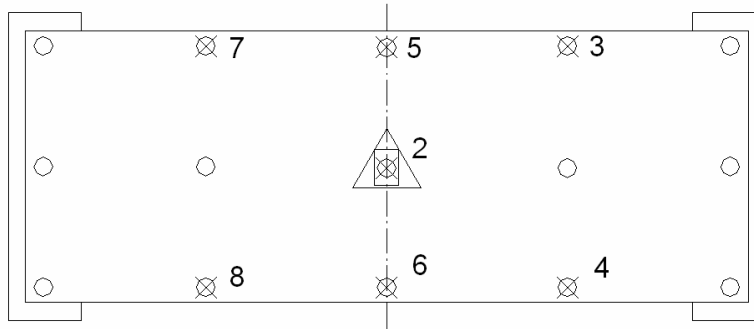
Single Span Floor- Stage 3- Bottom Chord Extensions Re-installed- Test 31



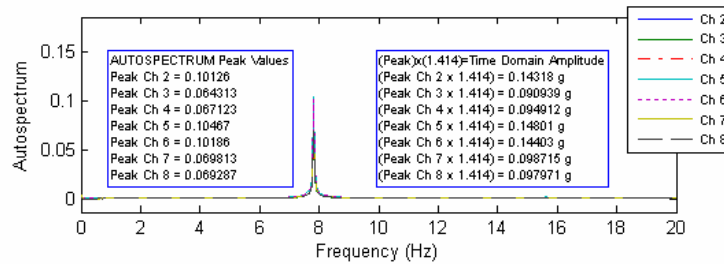
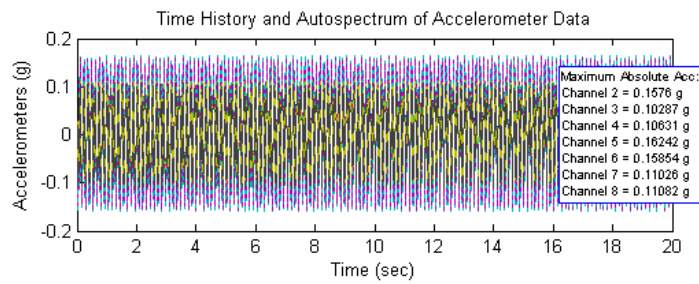
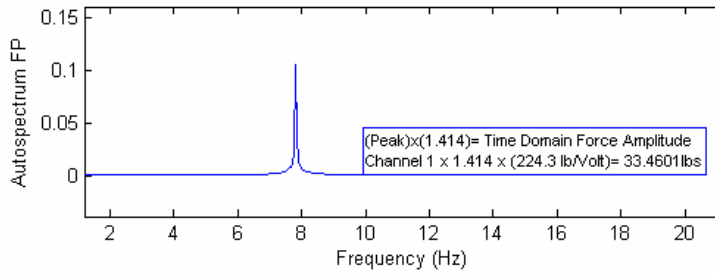
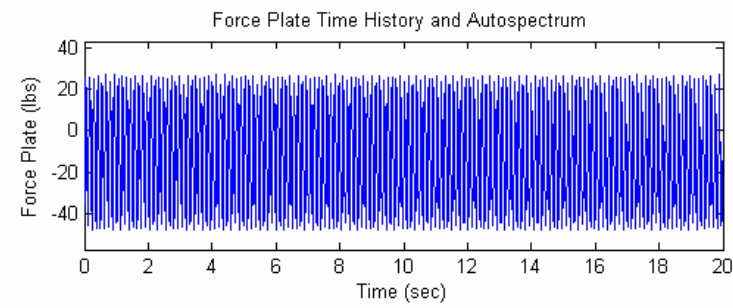
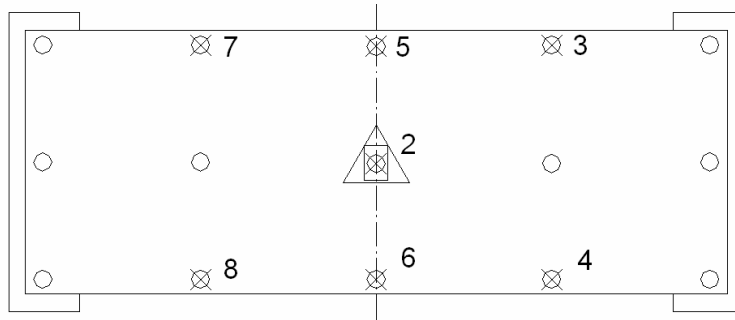
Single Span Floor- Stage 3- Bottom Chord Extensions Re-installed- Test 32



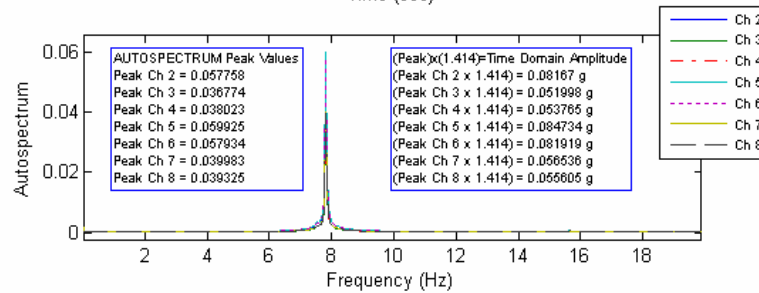
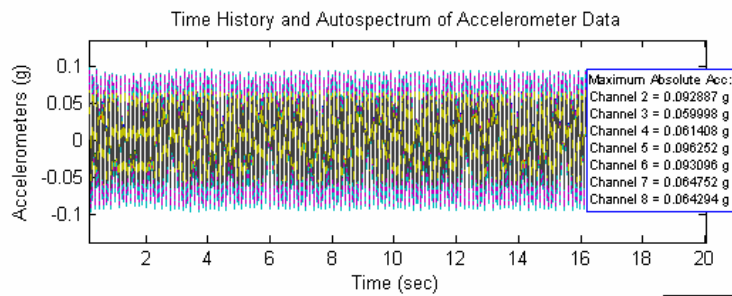
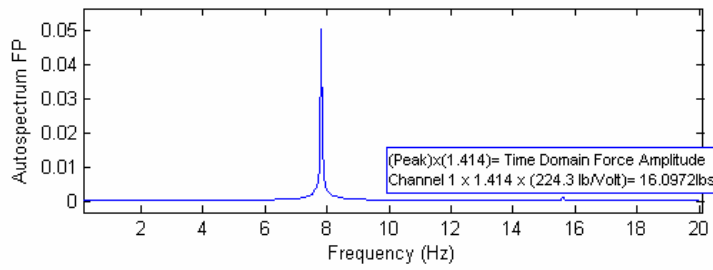
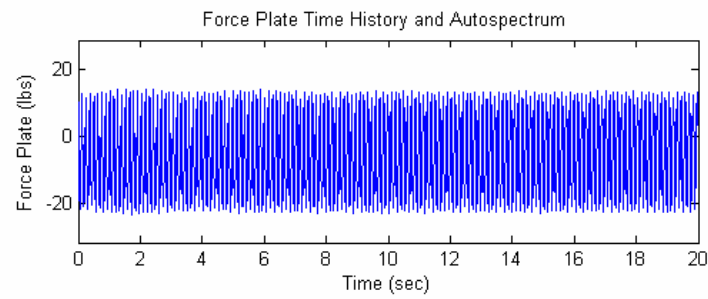
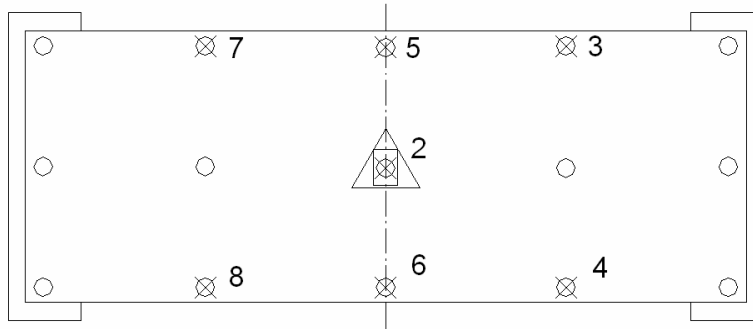
Single Span Floor- Stage 3- Bottom Chord Extensions Re-installed- Test 33



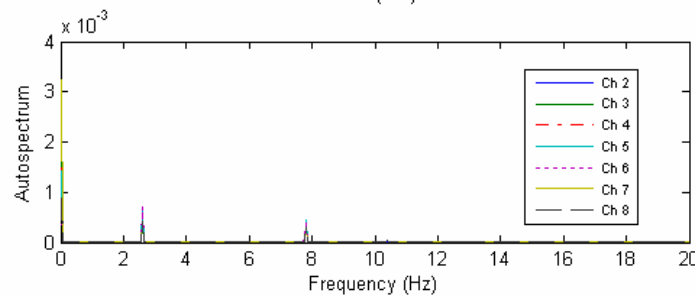
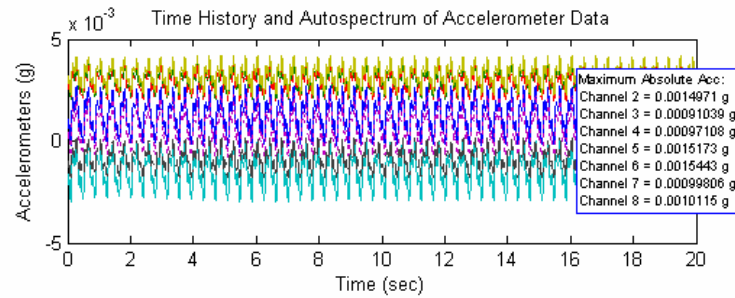
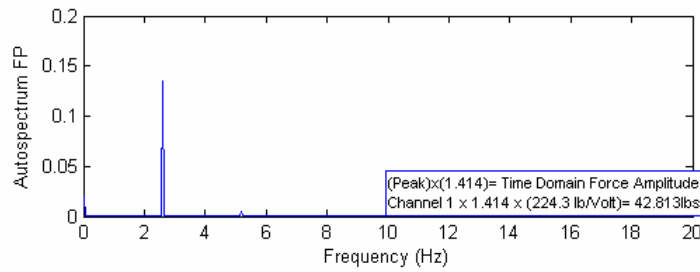
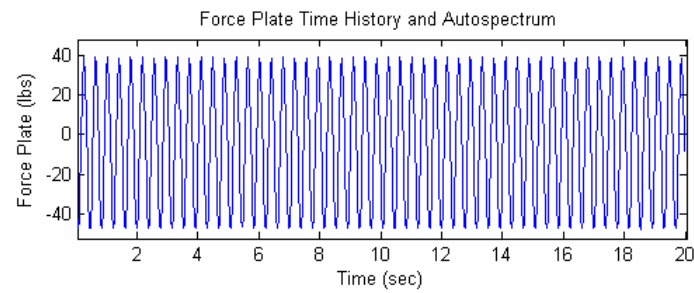
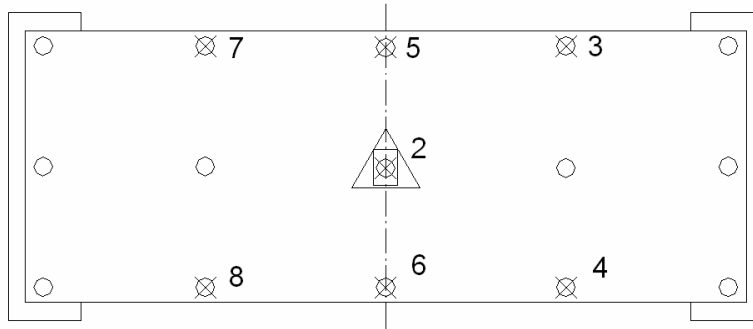
Single Span Floor- Stage 3- Bottom Chord Extensions Re-installed- Test 34



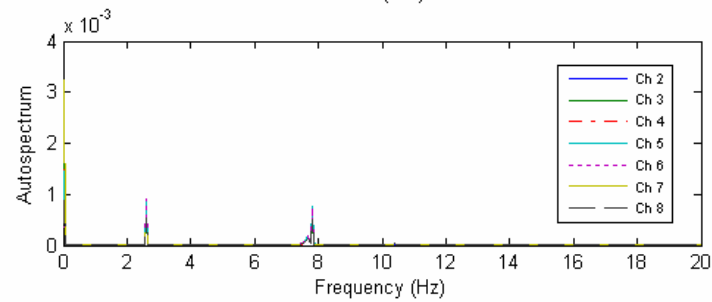
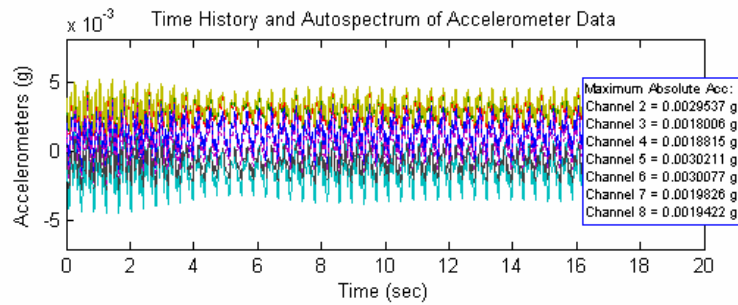
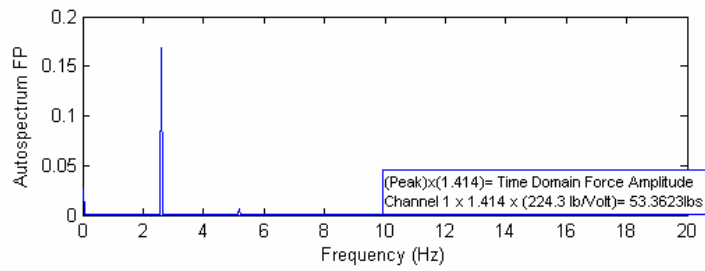
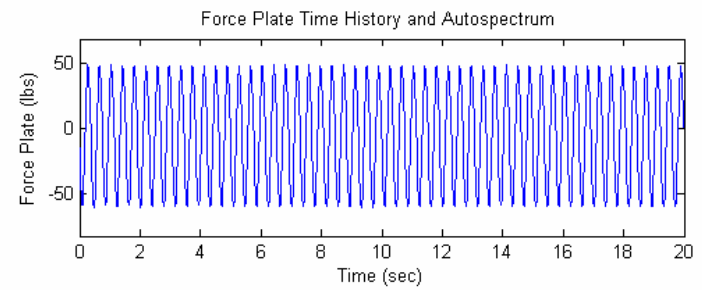
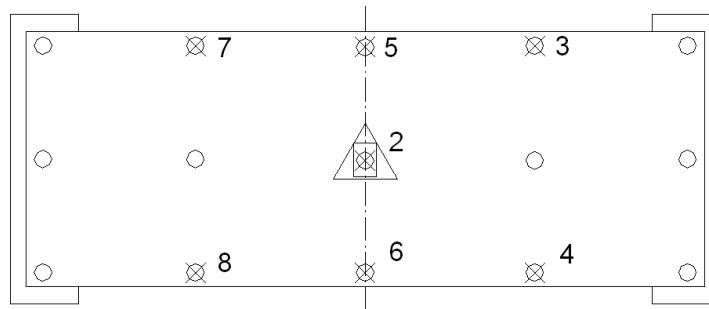
Single Span Floor- Stage 3- Bottom Chord Extensions Re-installed- Test 35



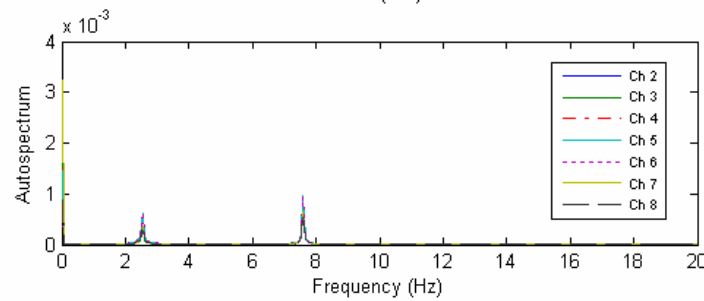
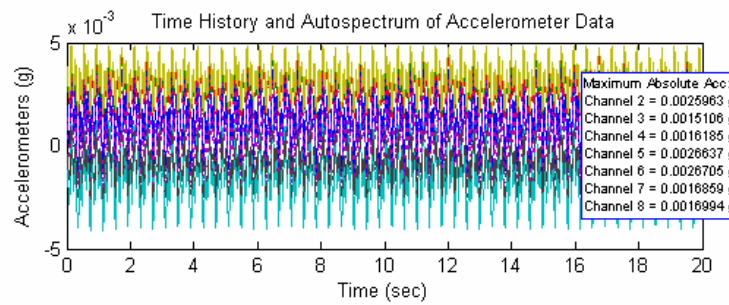
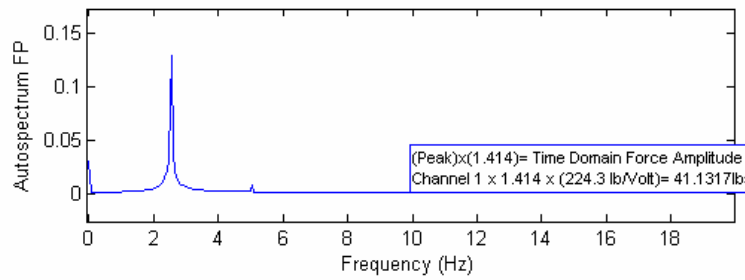
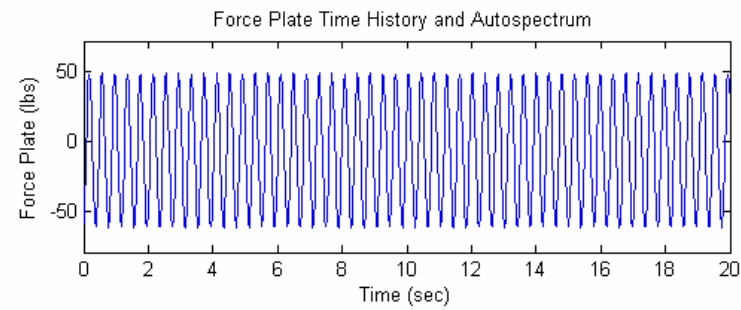
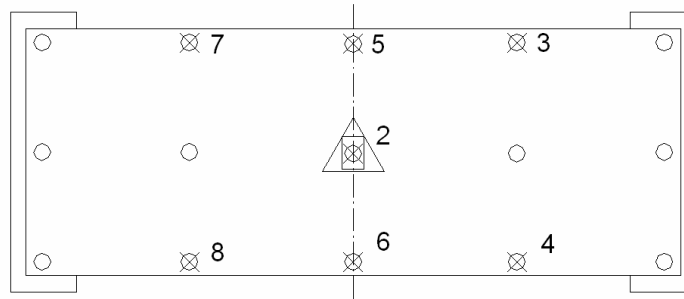
Single Span Floor- Stage 3- Bottom Chord Extensions Re-installed- Test 36



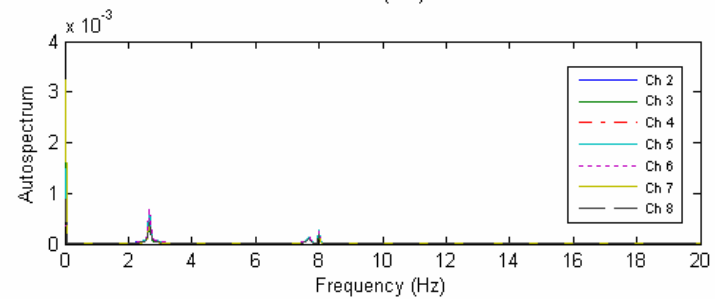
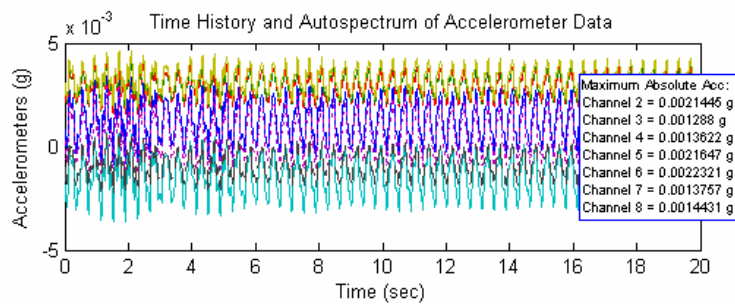
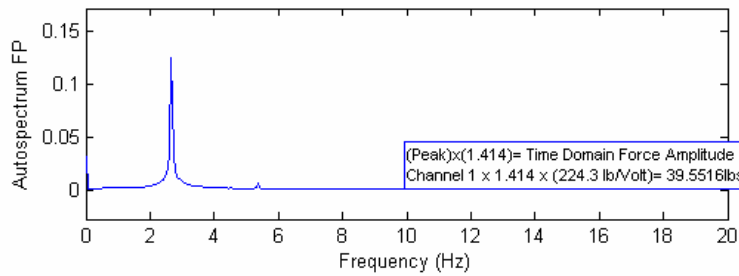
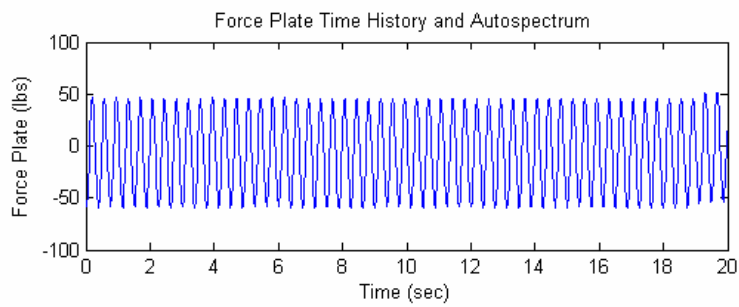
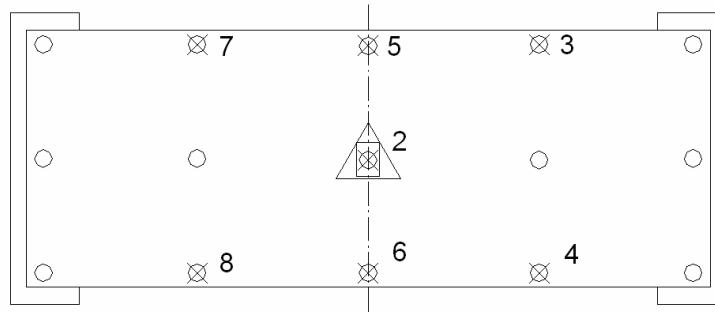
Single Span Floor- Stage 3- Bottom Chord Extensions Re-installed- Test 37



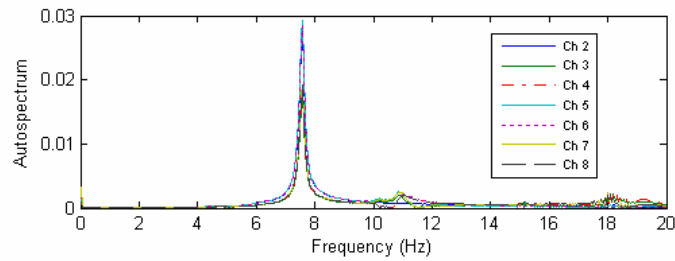
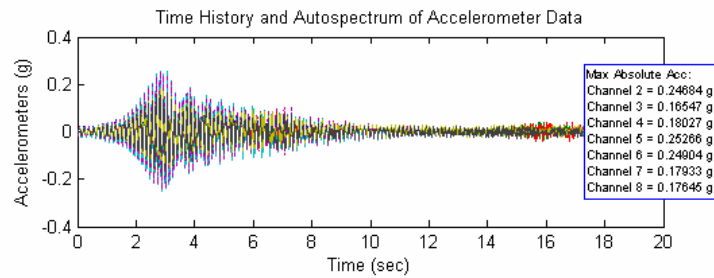
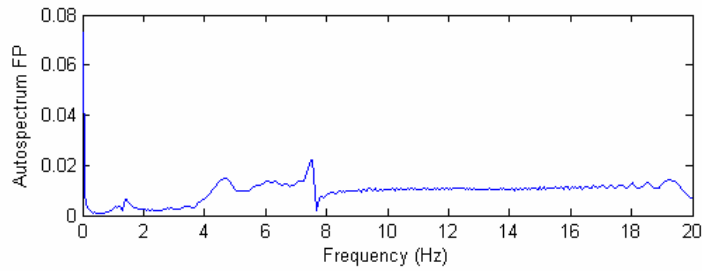
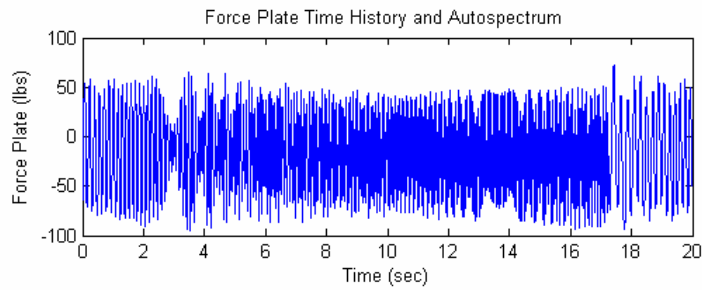
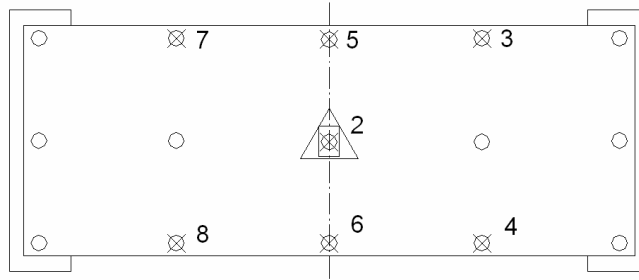
Single Span Floor- Stage 3- Bottom Chord Extensions Re-installed- Test 38

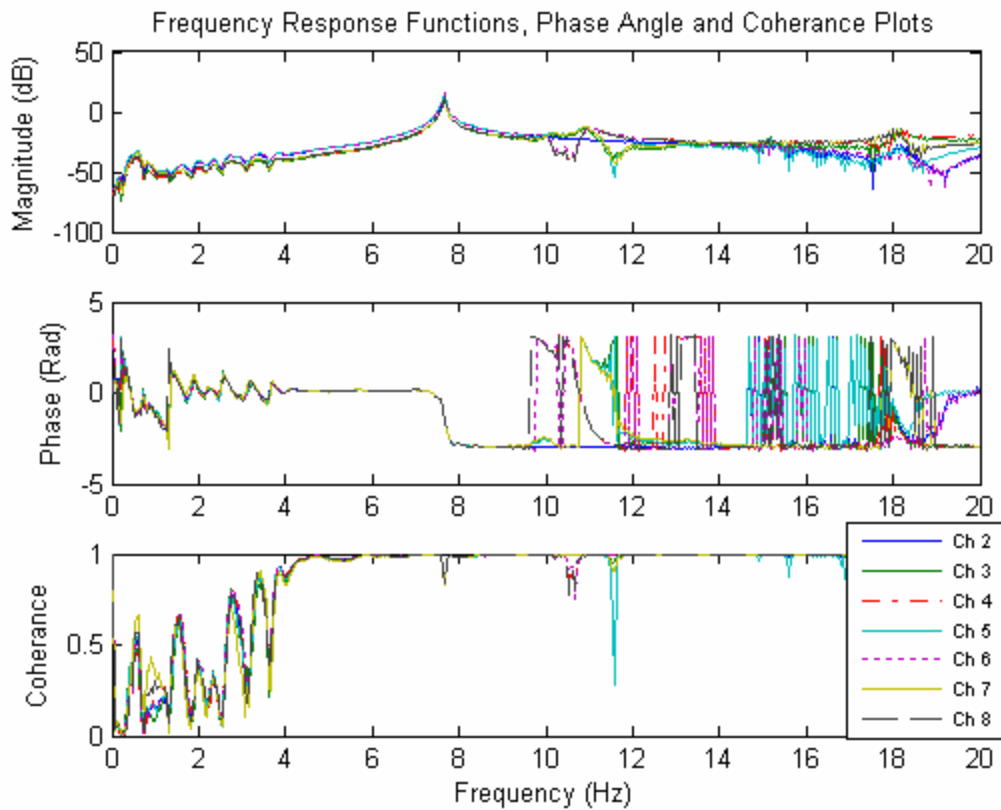
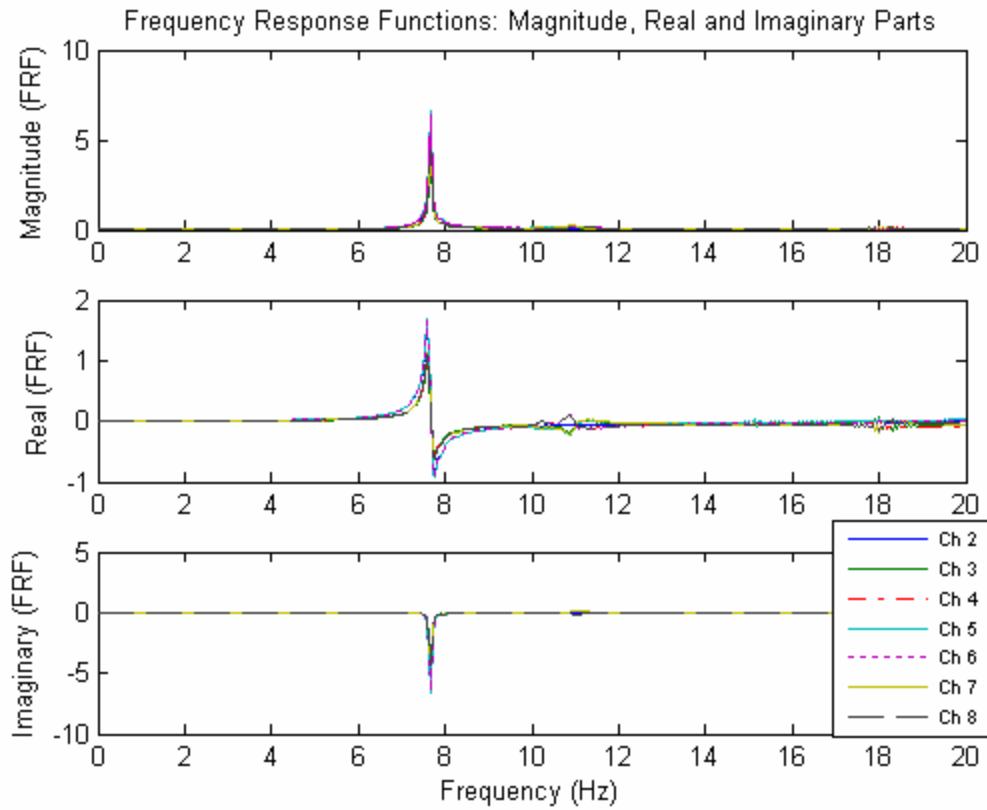


Single Span Floor- Stage 3- Bottom Chord Extensions Re-installed- Test 39



Single Span Floor- Stage 3- Bottom Chord Extensions Re-installed- Test 40





Single Span Floor- Stage 3- Bottom Chord Extensions Re-installed- Test 41

