

Project information		Coordinate System	
Name:	F:\Projects\Kansas\Adjustments\TGO\2331 Kansas CheckPointsAdj.vce	Name:	UTM
Size:	14 MB	Datum:	NAD 1983 (Conus)
Modified:	4/11/2012 3:30:45 PM (UTC:-6)	Zone:	14 North (99W)
Time zone:	Mountain Standard Time	Geoid:	GEOID09 (Conus)
Reference number:		Vertical datum:	
Description:			

Baseline Processing Report

Processing Summary

Observation	From	To	Solution Type	H. Prec. (Meter)	V. Prec. (Meter)	Geodetic Az.	Ellipsoid Dist. (Meter)	<Y][\h fA YHYfL
HH0162 --- FVA46-B2 (B40)	HH0162	FVA46-B2	Fixed	0.012	0.021	53°40'31"	6527.536	1.624
HH0162 --- SVA46-B2-OLD (B41)	HH0162	SVA46-B2-OLD	Fixed	0.015	0.022	43°26'44"	5231.582	-3.119
HH0162 --- FVA54-B2 (B42)	HH0162	FVA54-B2	Fixed	0.015	0.025	106°43'26"	8393.308	-7.960
HH0162 --- SVA54-B2 (B43)	HH0162	SVA54-B2	Fixed	0.011	0.033	81°05'48"	7461.160	16.351
HH0162 --- FVA56-B2 (B44)	HH0162	FVA56-B2	Fixed	0.012	0.015	117°34'39"	26754.006	-38.245
HH0162 --- SVA56-B2 (B45)	HH0162	SVA56-B2	Fixed	0.017	0.012	117°41'22"	26791.067	-37.894
HH0162 --- FVA37-B2-OLD (B46)	HH0162	FVA37-B2-OLD	Fixed	0.029	0.028	103°51'13"	29468.734	-3.674
HH0162 --- SVA37-B2 (B47)	HH0162	SVA37-B2	Fixed	0.011	0.017	103°48'19"	29497.007	-4.166
HH0162 --- FVA34-B2 (B48)	HH0162	FVA34-B2	Fixed	0.024	0.028	200°53'42"	33957.070	59.240
HH0162 --- SVA34-B2 (B49)	HH0162	SVA34-B2	Fixed	0.057	0.030	200°58'29"	33954.135	59.179
HH0162 --- FVA47-B2 (B50)	HH0162	FVA47-B2	Fixed	0.011	0.018	157°25'10"	22113.993	13.656

HH0162 --- SVA47-B2 (B51)	HH0162	SVA47-B2	Fixed	0.010	0.019	157°22'02"	22167.888	12.350
HH0162 --- FVA35-B2 (B52)	HH0162	FVA35-B2	Fixed	0.014	0.021	219°45'19"	19462.385	37.054
HH0162 --- SVA35-B2 (B53)	HH0162	SVA35-B2	Fixed	0.011	0.015	219°39'58"	19488.826	39.136
HH0162 --- FVA59-B2 (B54)	HH0162	FVA59-B2	Fixed	0.016	0.028	183°01'33"	14117.374	17.878
HH0162 --- SVA59-B2 (B55)	HH0162	SVA59-B2	Fixed	0.017	0.043	181°46'44"	11715.313	20.961
HH0162 --- FVA39-B2-OLD (B56)	HH0162	FVA39-B2-OLD	Fixed	0.017	0.023	136°49'47"	43381.331	-21.489
HH0162 --- SVA39-B2 (B57)	HH0162	SVA39-B2	Fixed	0.039	0.033	136°48'06"	43357.277	-22.613
HH0162 --- FVA58-B2-OLD (B58)	HH0162	FVA58-B2-OLD	Fixed	0.016	0.021	120°29'25"	49370.399	-40.480
HH0162 --- SVA58-B2 (B59)	HH0162	SVA58-B2	Fixed	0.014	0.022	120°34'56"	49389.468	-41.491
HH0162 --- FVA25-B2 (B60)	HH0162	FVA25-B2	Fixed	0.021	0.036	120°47'41"	66790.014	-37.585
HH0162 --- SVA25-B2 (B61)	HH0162	SVA25-B2	Fixed	0.040	0.076	120°47'29"	66837.770	-37.568
HH0162 --- FVA55-B2-OLD (B62)	HH0162	FVA55-B2-OLD	Fixed	0.070	0.133	108°19'40"	56587.141	-55.042
HH0162 --- SVA55-B2 (B63)	HH0162	SVA55-B2	Fixed	0.034	0.029	108°14'57"	56566.338	-55.097
HH0162 --- FVA24-B2-OLD (B64)	HH0162	FVA24-B2-OLD	Fixed	0.009	0.017	100°04'05"	61545.945	-56.423
HH0162 --- SVA24-B2 (B65)	HH0162	SVA24-B2	Fixed	0.011	0.019	100°02'56"	61574.207	-57.083
HH0162 --- FVA36-B2 (B66)	HH0162	FVA36-B2	Fixed	0.013	0.024	288°18'05"	13914.057	32.933
HH0162 --- SVA36-B2-OLD (B67)	HH0162	SVA36-B2-OLD	Fixed	0.017	0.025	288°11'30"	13892.028	32.644
HH0162 --- FVA11-B2-OLD (B68)	HH0162	FVA11-B2-OLD	Fixed	0.010	0.015	22°06'03"	20377.427	31.585
HH0162 --- SVA11-B2 (B69)	HH0162	SVA11-B2	Fixed	0.016	0.027	22°06'28"	20312.136	31.929
HH0162 --- FVA12-B2 (B70)	HH0162	FVA12-B2	Fixed	0.010	0.029	44°56'14"	26719.123	15.503
HH0162 --- SVA12-B2 (B71)	HH0162	SVA12-B2	Fixed	0.028	0.056	47°22'02"	30053.998	-9.329
HH0162 --- FVA45-B2-OLD (B72)	HH0162	FVA45-B2-OLD	Fixed	0.015	0.017	73°10'12"	43192.913	-31.036
HH0162 --- SVA45-B2 (B73)	HH0162	SVA45-B2	Fixed	0.041	0.040	73°08'58"	43175.931	-31.447
HH0162 --- FVA53-B2 (B74)	HH0162	FVA53-B2	Fixed	0.029	0.054	63°23'03"	48865.043	-86.663
HH0162 --- SVA53-B2 (B75)	HH0162	SVA53-B2	Fixed	0.031	0.043	63°24'41"	48920.857	-87.851

HH0162 --- FVA23-B2 (B76)	HH0162	FVA23-B2	Fixed	0.083	0.099	79°25'00"	58338.130	-66.994
HH0162 --- SVA23-B2 (B77)	HH0162	SVA23-B2	Fixed	0.029	0.031	81°06'39"	58085.269	-74.030
HH0162 --- FVA66-B2 (B78)	HH0162	FVA66-B2	Fixed	0.055	0.062	92°14'26"	55798.534	-56.672
HH0162 --- SVA66-B2 (B79)	HH0162	SVA66-B2	Fixed	0.030	0.029	92°18'11"	54142.901	-58.607
HH0162 --- SVA36-B2 (B86)	HH0162	SVA36-B2	Fixed	0.028	0.075	289°05'10"	13430.510	31.830
HH0162 --- SVA46-B2 (B87)	HH0162	SVA46-B2	Fixed	0.011	0.013	41°15'38"	5382.533	-2.394
HH0162 --- FVA39-B2 (B88)	HH0162	FVA39-B2	Fixed	0.015	0.026	136°56'37"	43231.542	-22.163
HH0162 --- FVA58-B2 (B89)	HH0162	FVA58-B2	Fixed	0.041	0.053	120°30'24"	49393.401	-40.444
HH0162 --- FVA24-B2 (B90)	HH0162	FVA24-B2	Fixed	0.047	0.043	100°03'54"	61579.366	-57.046
HH0162 --- FVA55-B2 (B91)	HH0162	FVA55-B2	Fixed	0.024	0.134	108°27'42"	56635.563	-56.671
HH0162 --- FVA11-B2 (B113)	HH0162	FVA11-B2	Fixed	0.016	0.027	22°25'12"	20053.144	30.032
HH0162 --- FVA45-B2 (B114)	HH0162	FVA45-B2	Fixed	0.021	0.121	73°45'54"	43037.152	-30.998
HH0162 --- FVA37-B2 (B115)	HH0162	FVA37-B2	Fixed	0.011	0.012	103°53'45"	29423.745	-3.690

Acceptance Summary

Processed	Passed	Flag 	Fail 
49	49	0	0

HH0162 - FVA46-B2 (7:40:29 AM-7:59:45 AM) (S40)

Baseline observation: HH0162 --- FVA46-B2 (B40)

Processed: 3/21/2012 10:57:52 AM

Solution type: Fixed

Frequency used: Dual Frequency (L1, L2)

Horizontal precision: 0.012 m

Vertical precision: 0.021 m

RMS: 0.007 m

Maximum PDOP: 3.690

Ephemeris used: Broadcast

Antenna model: US National Geodetic Survey Calibration

Processing start time: 2/7/2012 7:40:29 AM (Local: UTC-7hr)

Processing stop time: 2/7/2012 7:59:45 AM (Local: UTC-7hr)

Processing duration: 00:19:16

Processing interval: .5 second

Vector Components (Mark to Mark)

From:	HH0162				
Grid		Local		Global	
Easting	334883.094 m	Latitude	N37°57'51.89981"	Latitude	N37°57'51.89980"
Northing	4203533.480 m	Longitude	W100°52'46.80868"	Longitude	W100°52'46.80868"
Elevation	875.739 m	Height	850.245 m	Height	850.245 m

To:	FVA46-B2				
Grid		Local		Global	
Easting	340218.750 m	Latitude	N37°59'57.25475"	Latitude	N37°59'57.25475"
Northing	4207292.884 m	Longitude	W100°49'11.25753"	Longitude	W100°49'11.25753"
Elevation	877.332 m	Height	851.869 m	Height	851.869 m

Vector					
9Ughb[	5335.656 m	NS Fwd Azimuth	53°40'31"	L	5614.493 m
Bcfh\jb[	3759.404 m	Ellipsoid Dist.	6527.536 m	M	1344.790 m
9`Yj U]cb	1.593 m	<Y][\h	1.624 m	N	3047.804 m

Standard Errors

Vector errors:					
Point ID	0.004 m	Point ID	0°00'00"	Point ID	0.004 m
Point ID	0.005 m	Point ID	0.004 m	Point ID	0.010 m
Point ID	0.011 m	Point ID	0.011 m	Point ID	0.006 m

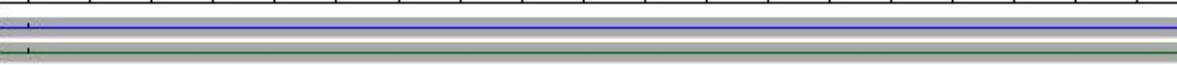


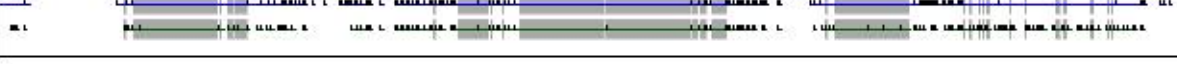



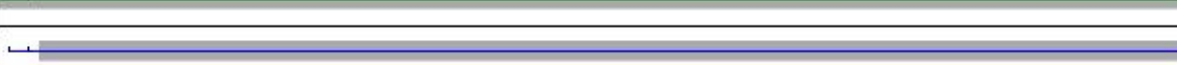


Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0000149383		
Y	0.0000147548	0.0000985888	
Z	-0.0000107224	-0.0000396106	0.0000376455

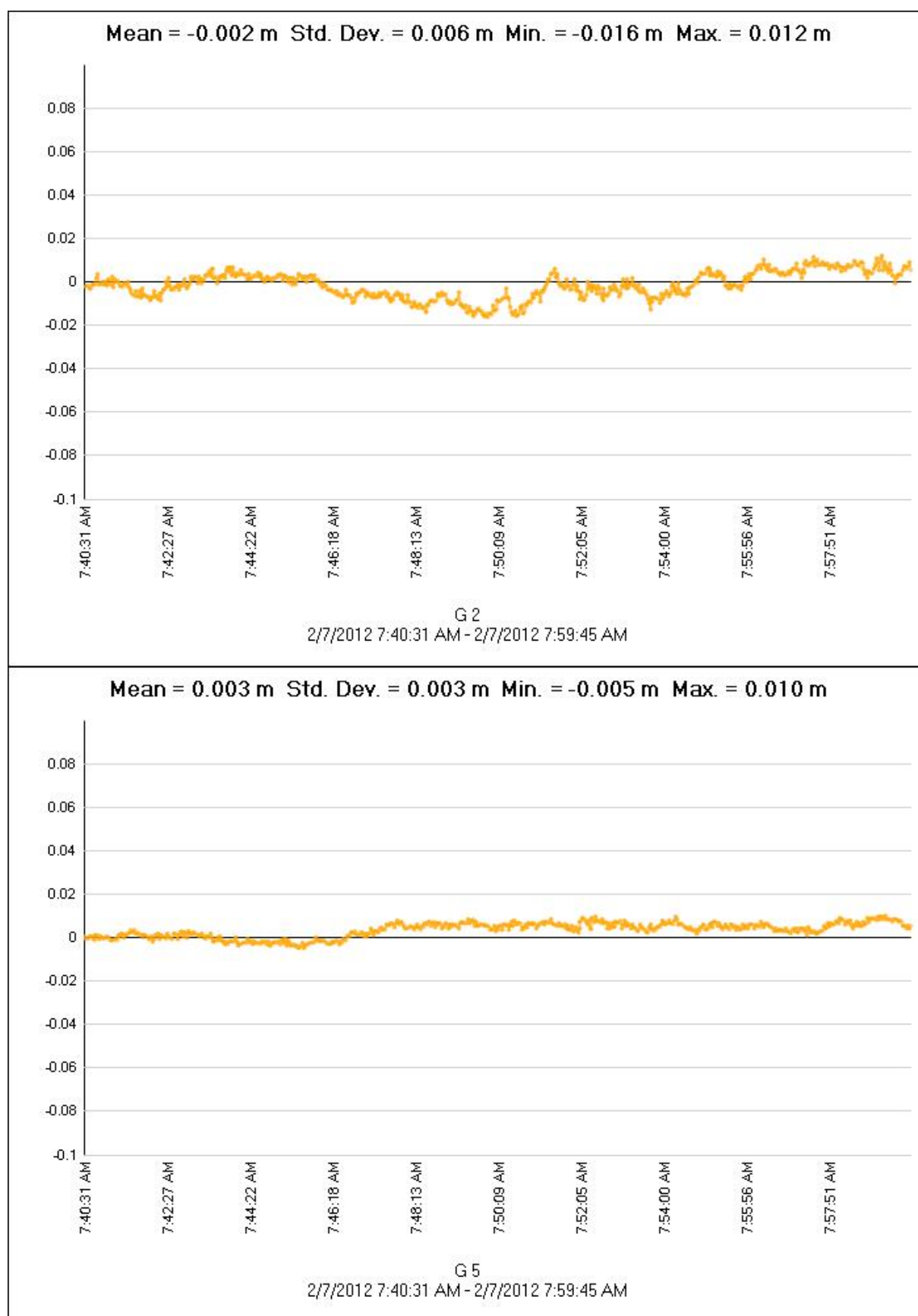
Occupations

	From	To
Point ID:	HH0162	FVA46-B2
Data file:	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00010380.12o	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00080380.12o
Receiver type:	Unknown	Unknown
Receiver serial number:		
Antenna type:	Unknown External	Unknown External
Antenna serial number:	-----	-----
Antenna height (measured):	1.565 m	2.065 m
Antenna method:	Antenna Phase Center	Antenna Phase Center

Tracking Summary

SV	2/7/2012 7:40:29 AM	Duration: 00:19:16	Major interval: 00:01:00	2/7/2012 7:59:45 AM
G 2	L1 L2			
G 4	L1 L2			
G 5	L1 L2			
G 10	L1 L2			
G 12	L1 L2			
G 15	L1 L2			
G 21	L1 L2			
G 25	L1 L2			
G 26	L1 L2			
G 29	L1 L2			

Residuals



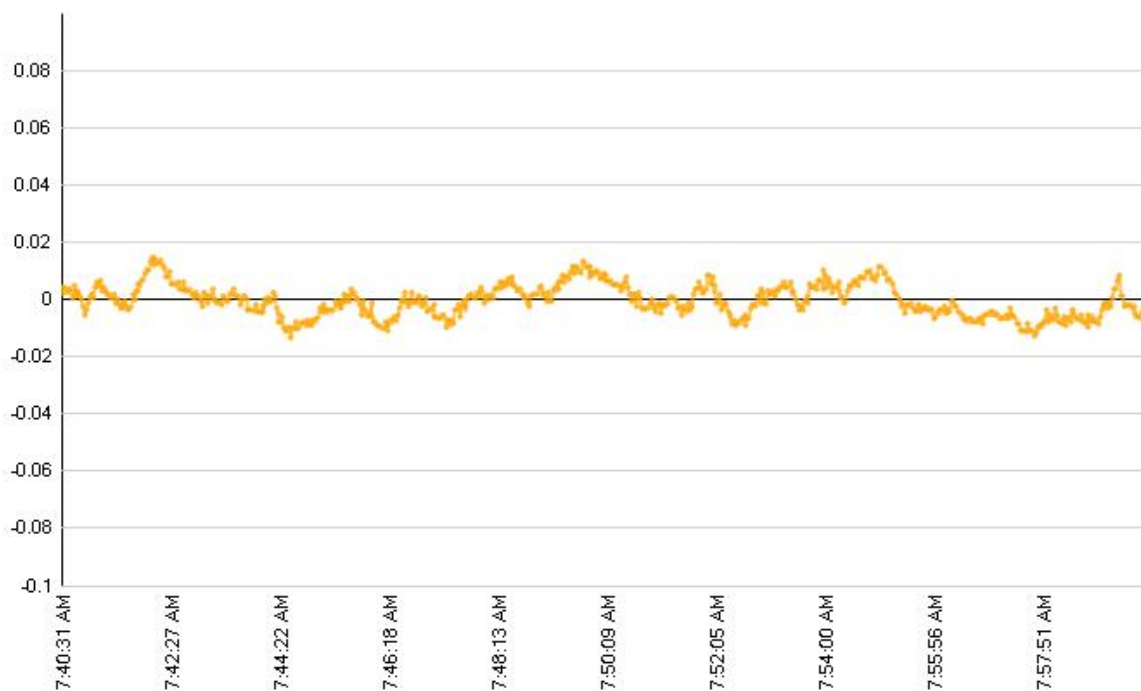
Mean = 0.009 m Std. Dev. = 0.032 m Min. = -0.061 m Max. = 0.062 m



G 10

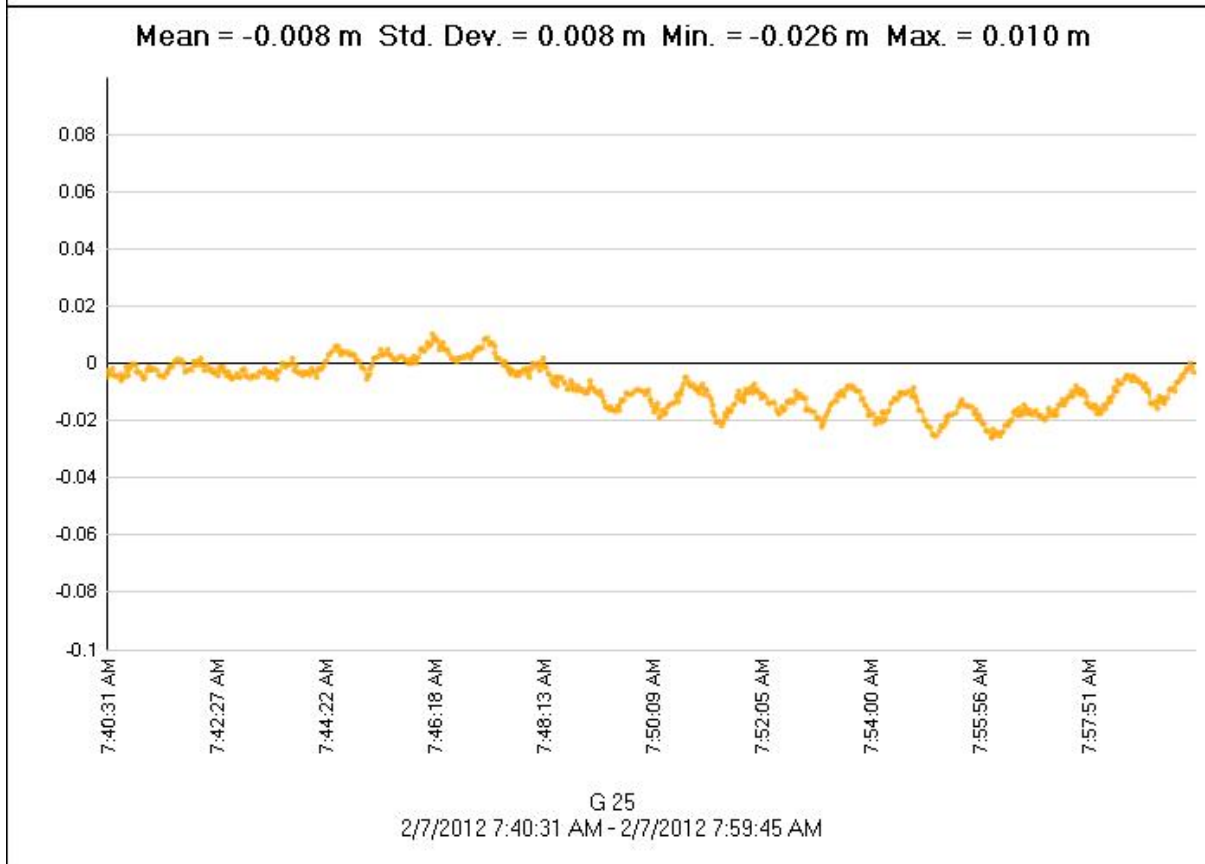
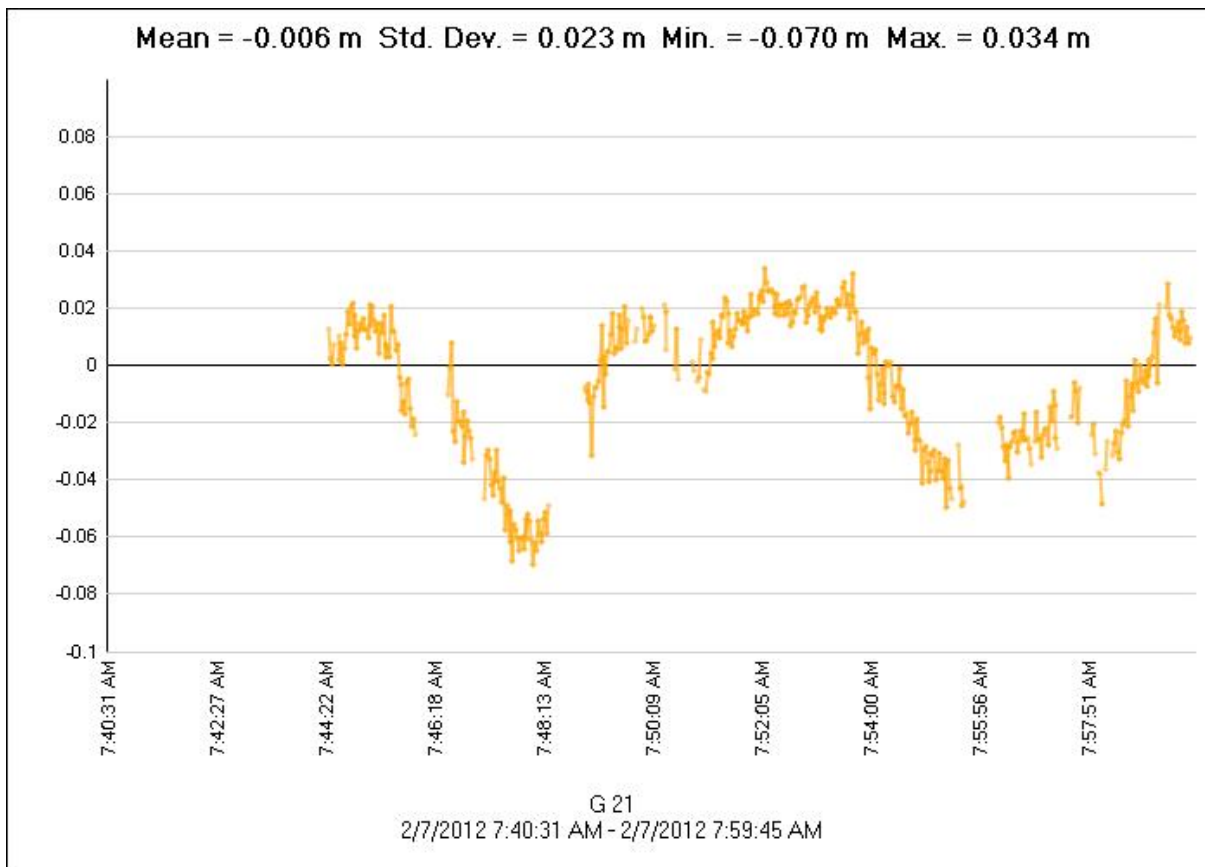
2/7/2012 7:40:31 AM - 2/7/2012 7:59:45 AM

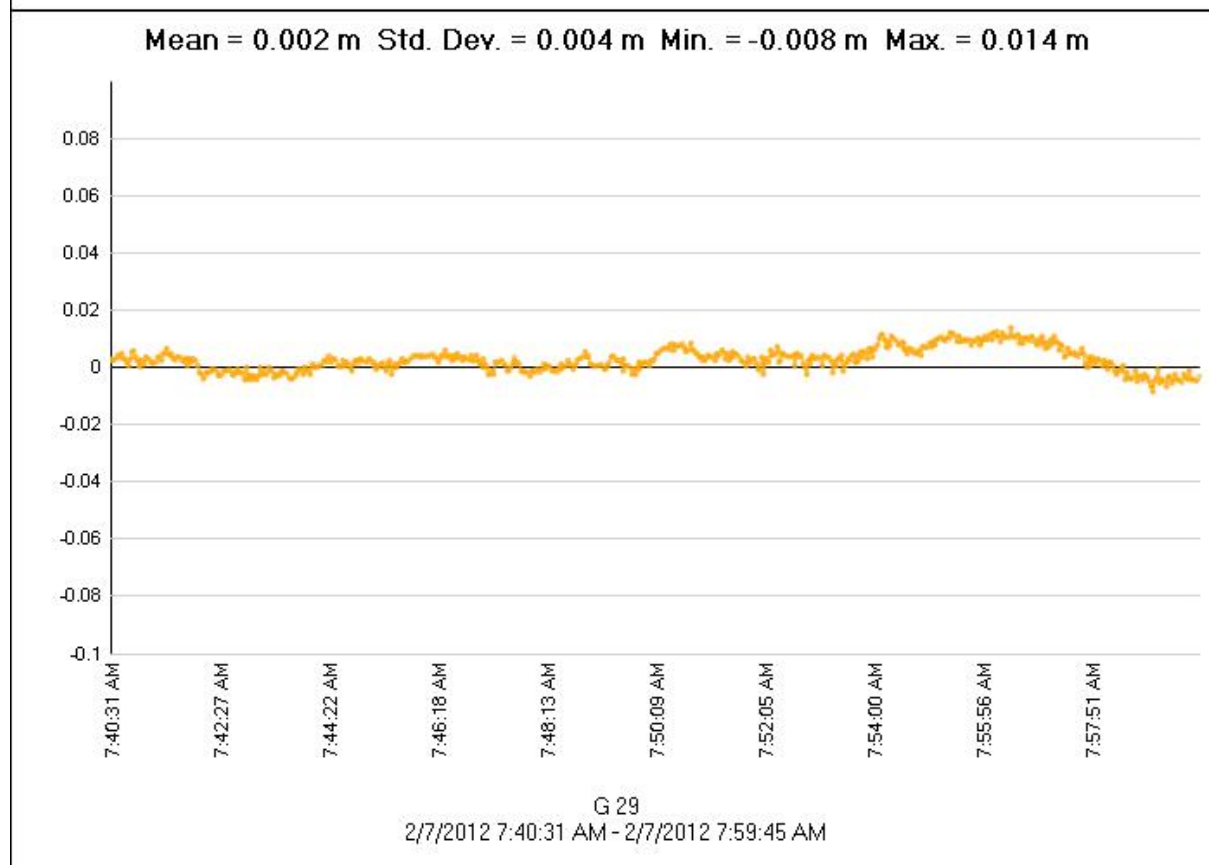
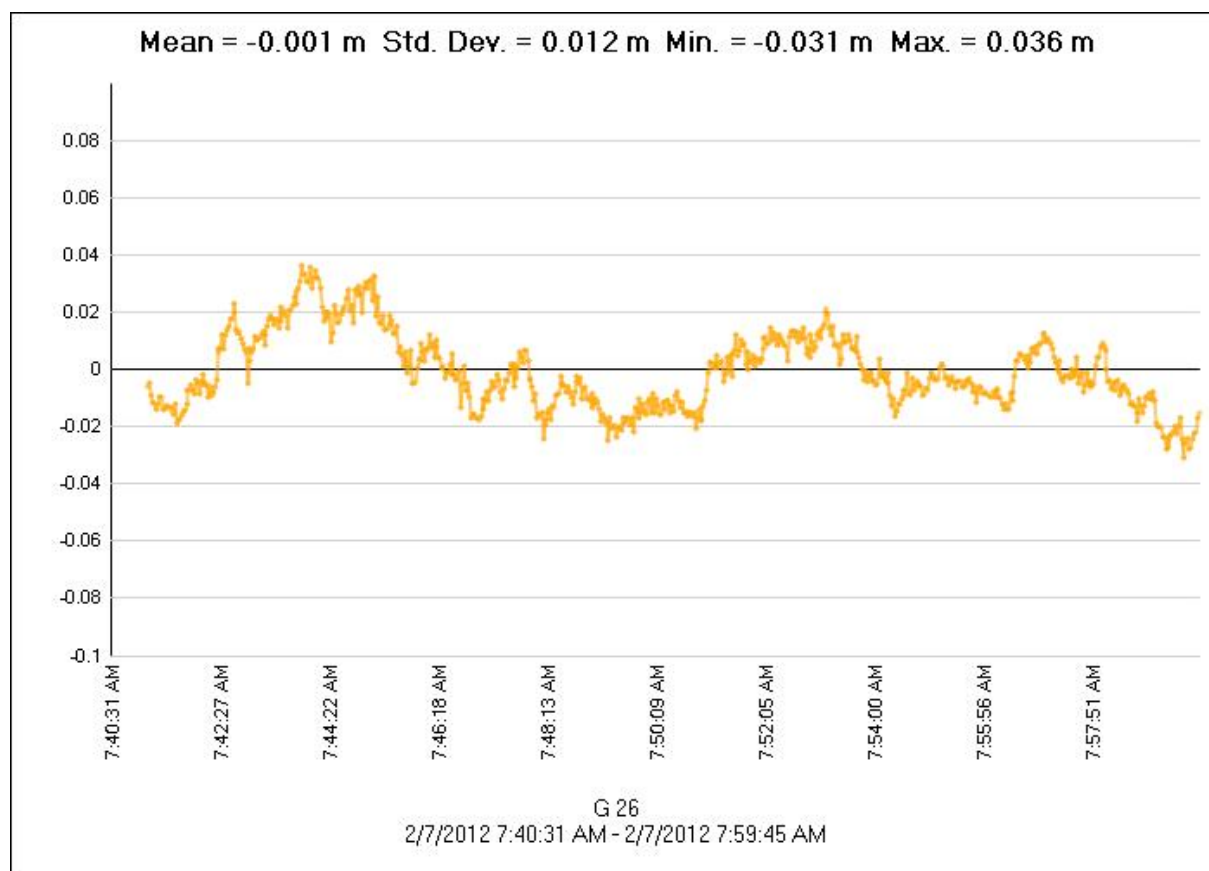
Mean = 0.000 m Std. Dev. = 0.005 m Min. = -0.013 m Max. = 0.014 m



G 12

2/7/2012 7:40:31 AM - 2/7/2012 7:59:45 AM







Processing style

Elevation mask:	10.0 deg
Auto start processing:	Yes
Start automatic ID numbering:	AUTO0001
Continuous vectors:	No
Generate residuals:	Yes
Antenna model:	Automatic
Ephemeris type:	Automatic
Frequency:	Dual Frequency (L1, L2)
Processing Interval:	Use all data
Force float:	No

Acceptance Criteria

Vector Component	Flag 	Fail 
Horizontal Precision >	0.050 m + 1.000 ppm	0.100 m + 1.000 ppm
Vertical Precision >	0.100 m + 1.000 ppm	0.200 m + 1.000 ppm

HH0162 - SVA46-B2-OLD (8:13:24 AM-8:32:04 AM) (S41)

Baseline observation: HH0162 --- SVA46-B2-OLD (B41)

Processed: 3/21/2012 10:58:05 AM

Solution type: Fixed

Frequency used: Dual Frequency (L1, L2)

Horizontal precision: 0.015 m

Vertical precision: 0.022 m

RMS: 0.006 m

Maximum PDOP: 4.732

Ephemeris used: Broadcast

Antenna model: US National Geodetic Survey Calibration

Processing start time: 2/7/2012 8:13:24 AM (Local: UTC-7hr)

Processing stop time: 2/7/2012 8:32:04 AM (Local: UTC-7hr)

Processing duration: 00:18:40

Processing interval: .5 second

Vector Components (Mark to Mark)

From:	HH0162				
Grid		Local		Global	
Easting	334883.094 m	Latitude	N37°57'51.89981"	Latitude	N37°57'51.89980"
Northing	4203533.480 m	Longitude	W100°52'46.80868"	Longitude	W100°52'46.80868"
Elevation	875.739 m	Height	850.245 m	Height	850.245 m

To:	SVA46-B2-OLD				
Grid		Local		Global	
Easting	338556.373 m	Latitude	N37°59'55.06563"	Latitude	N37°59'55.06562"
Northing	4207258.067 m	Longitude	W100°50'19.35695"	Longitude	W100°50'19.35695"
Elevation	872.581 m	Height	847.125 m	Height	847.125 m

Vector					
9Ughb[	3673.280 m	NS Fwd Azimuth	43°26'44"	L	3975.252 m
BcfA\jb[	3724.587 m	Ellipsoid Dist.	5231.582 m	M	1619.853 m
9Yj Uhcb	-3.158 m	<Y][\h	-3.119 m	N	2991.689 m

Standard Errors

Vector errors:					
Point ID	0.003 m	Point Description	0°00'00"	Point Type	0.003 m
Point ID	0.006 m	Point Description	0.004 m	Point Type	0.012 m
Point ID	0.011 m	Point Description	0.011 m	Point Type	0.004 m

Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0000093430		
Y	0.0000132424	0.0001445558	
Z	-0.0000042493	-0.0000329639	0.0000199923

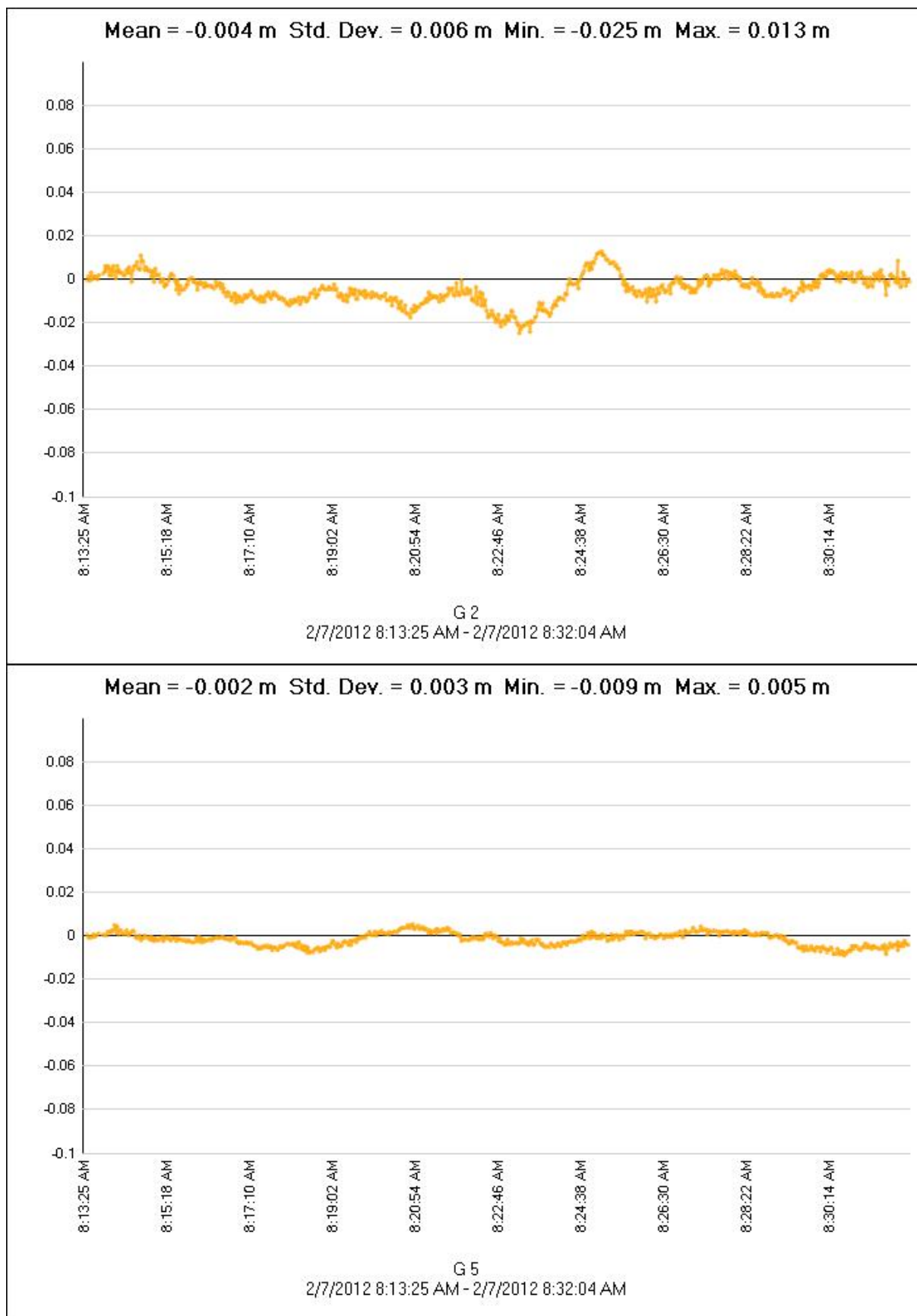
Occupations

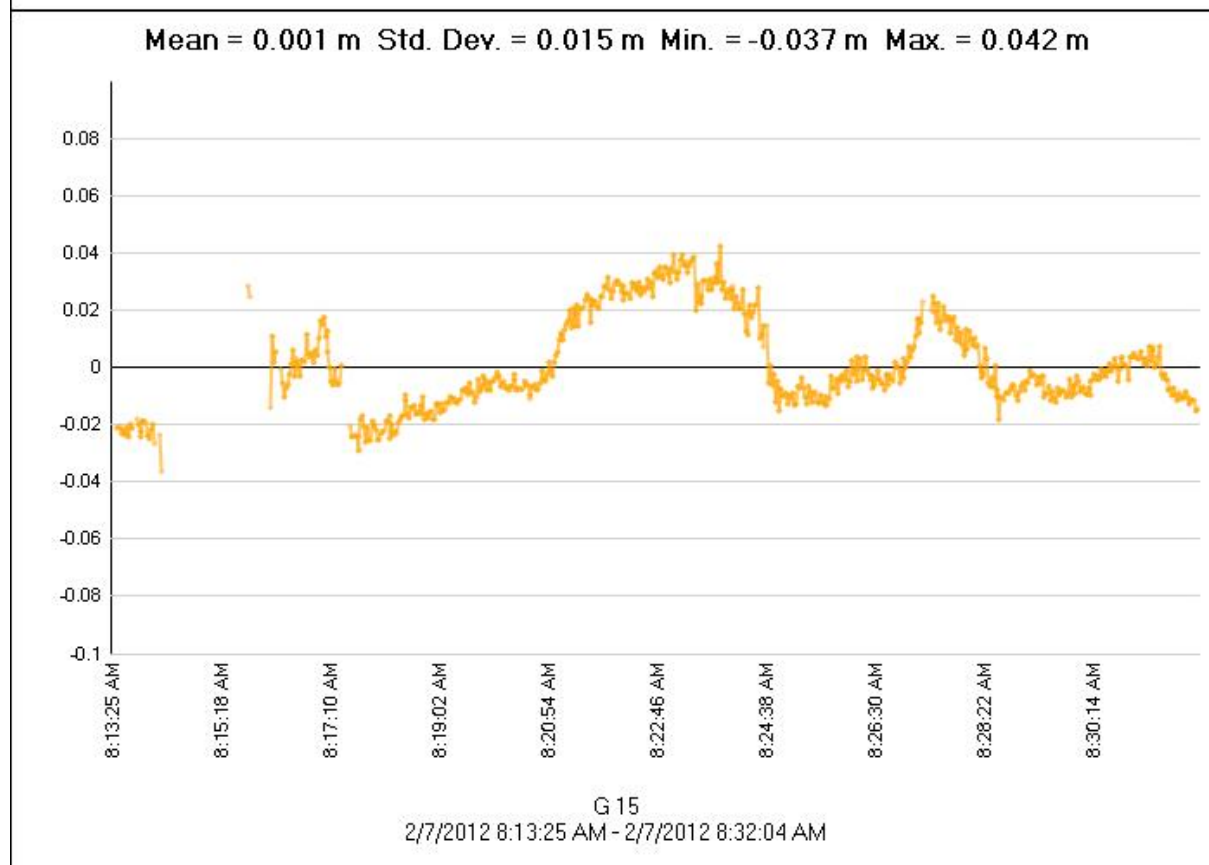
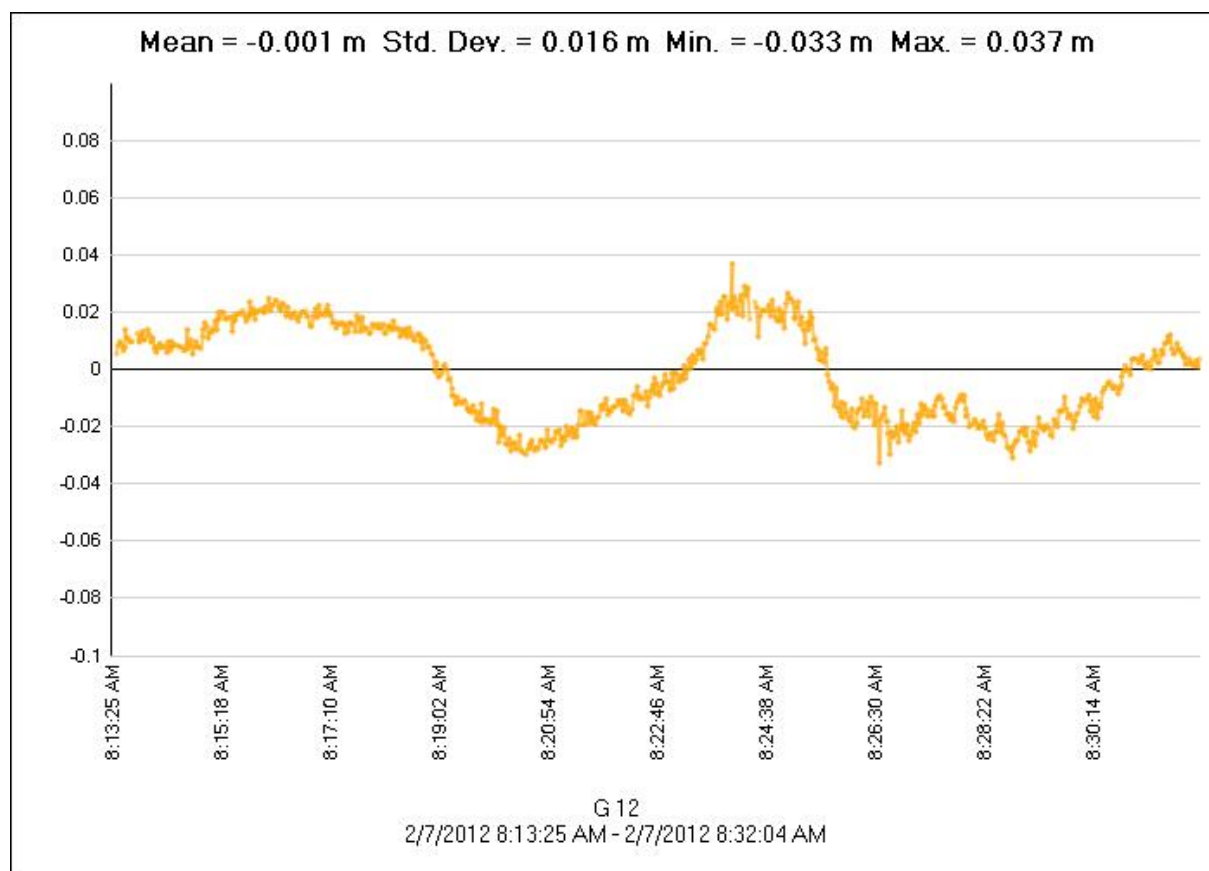
	From	To
Point ID:	HH0162	SVA46-B2-OLD
Data file:	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00010380.12o	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00080381.12o
Receiver type:	Unknown	Unknown
Receiver serial number:		
Antenna type:	Unknown External	Unknown External
Antenna serial number:	-----	-----
Antenna height (measured):	1.565 m	2.065 m
Antenna method:	Antenna Phase Center	Antenna Phase Center

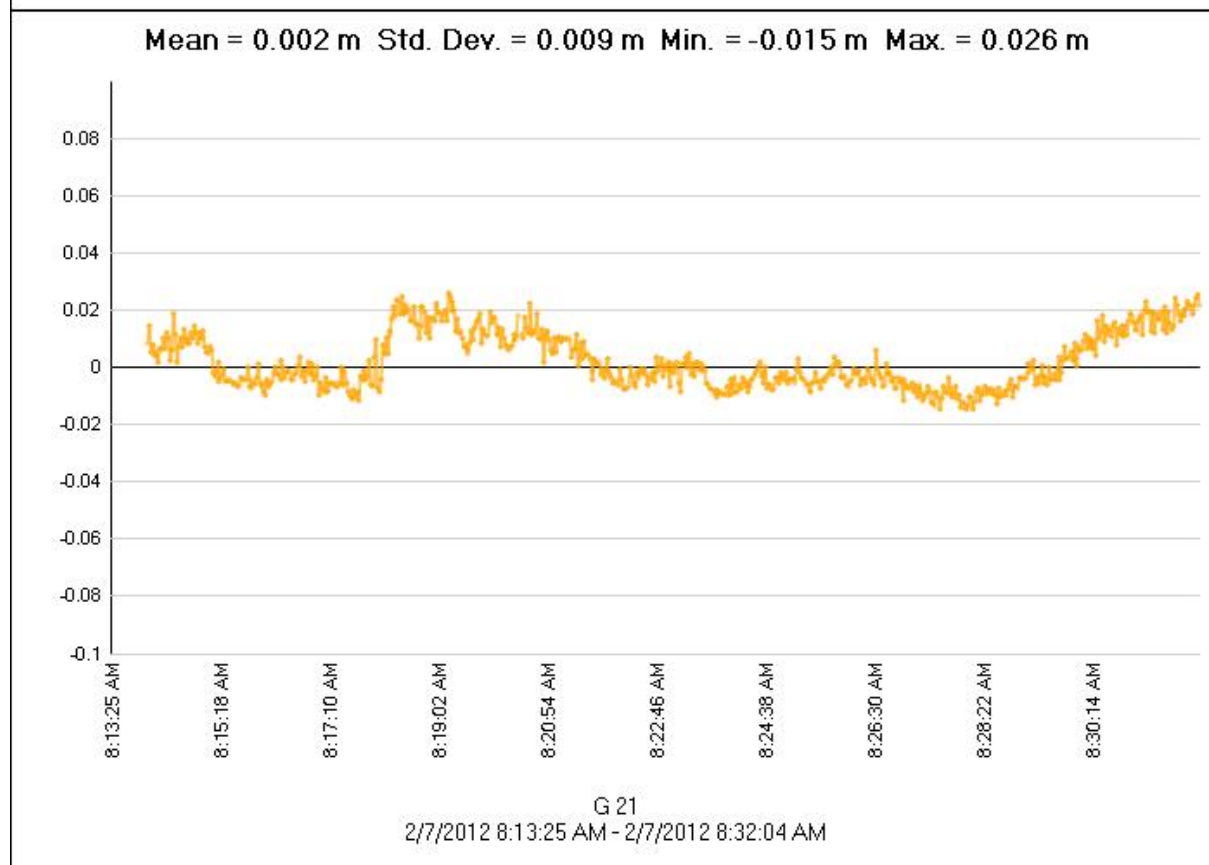
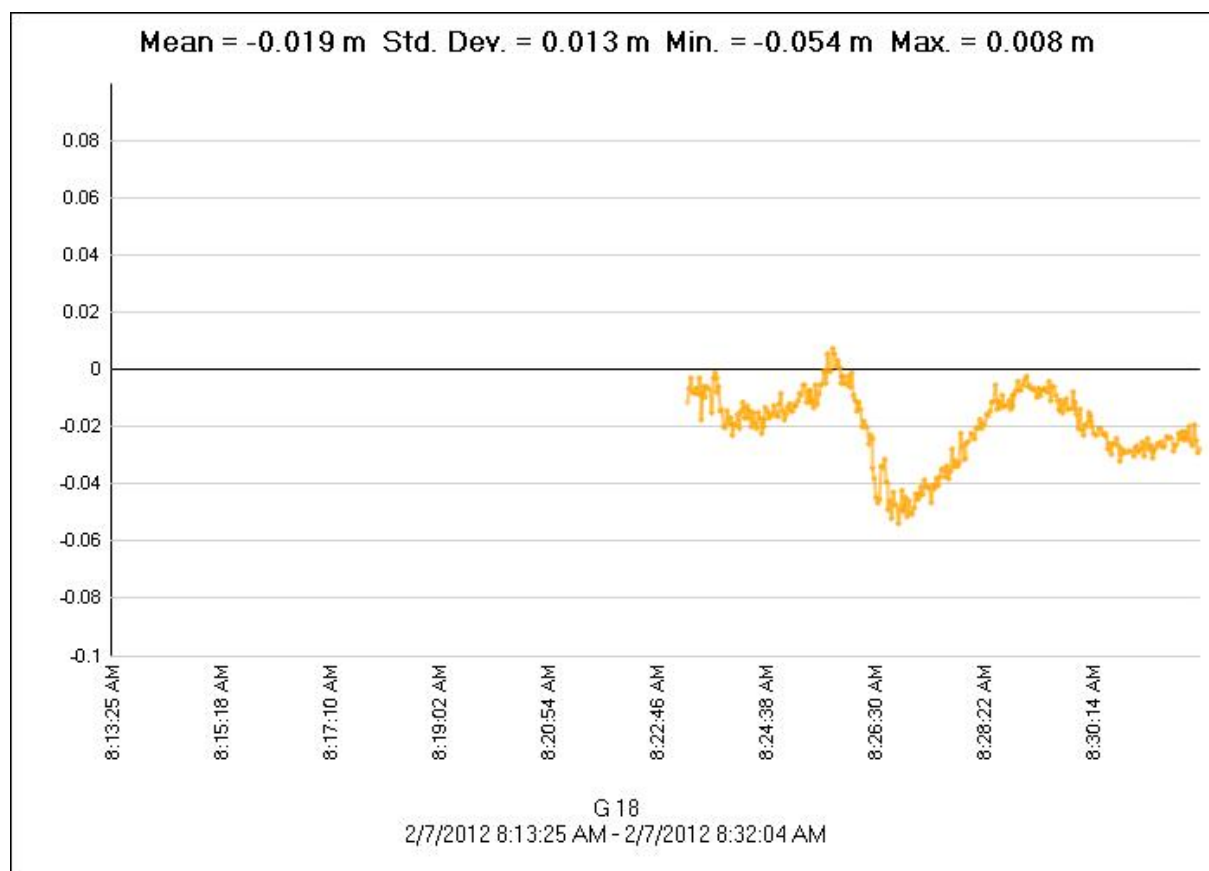
Tracking Summary

SV	2/7/2012 8:13:24 AM	Duration: 00:18:40	Major interval: 00:01:00	2/7/2012 8:32:04 AM
G 2	L1 L2			
G 5	L1 L2			
G 10	L1 L2			
G 12	L1 L2			
G 15	L1 L2			
G 18	L1 L2			
G 21	L1 L2			
G 25	L1 L2			
G 26	L1 L2			
G 29	L1 L2			
G 30	L1 L2			

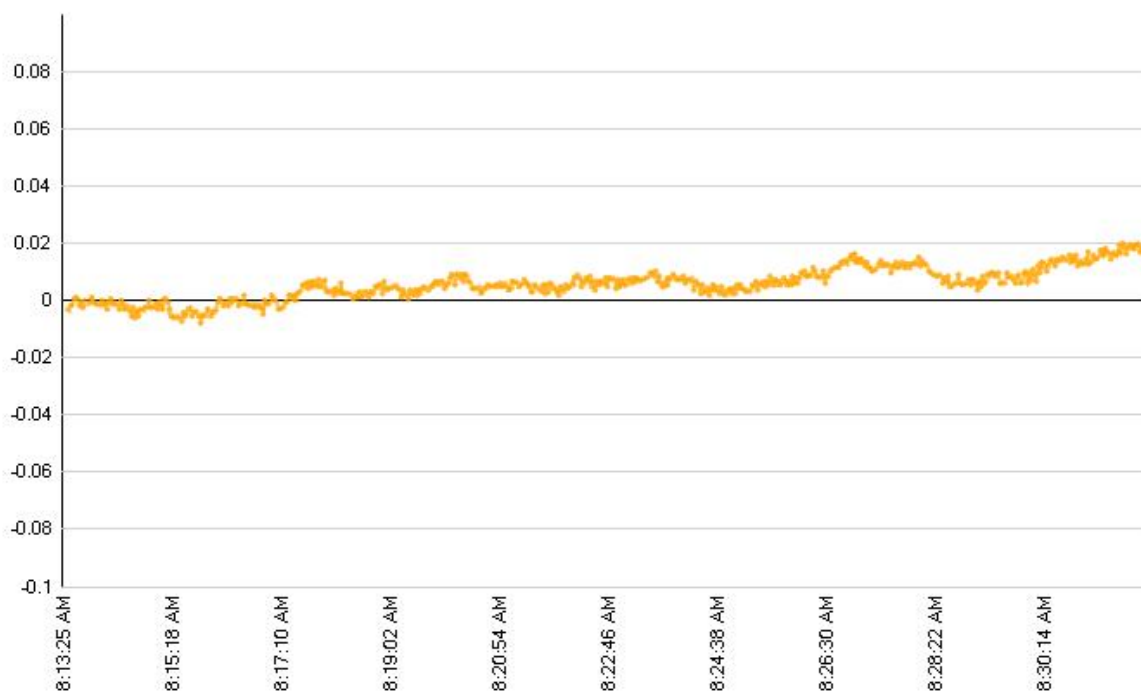
Residuals







Mean = 0.006 m Std. Dev. = 0.005 m Min. = -0.008 m Max. = 0.020 m

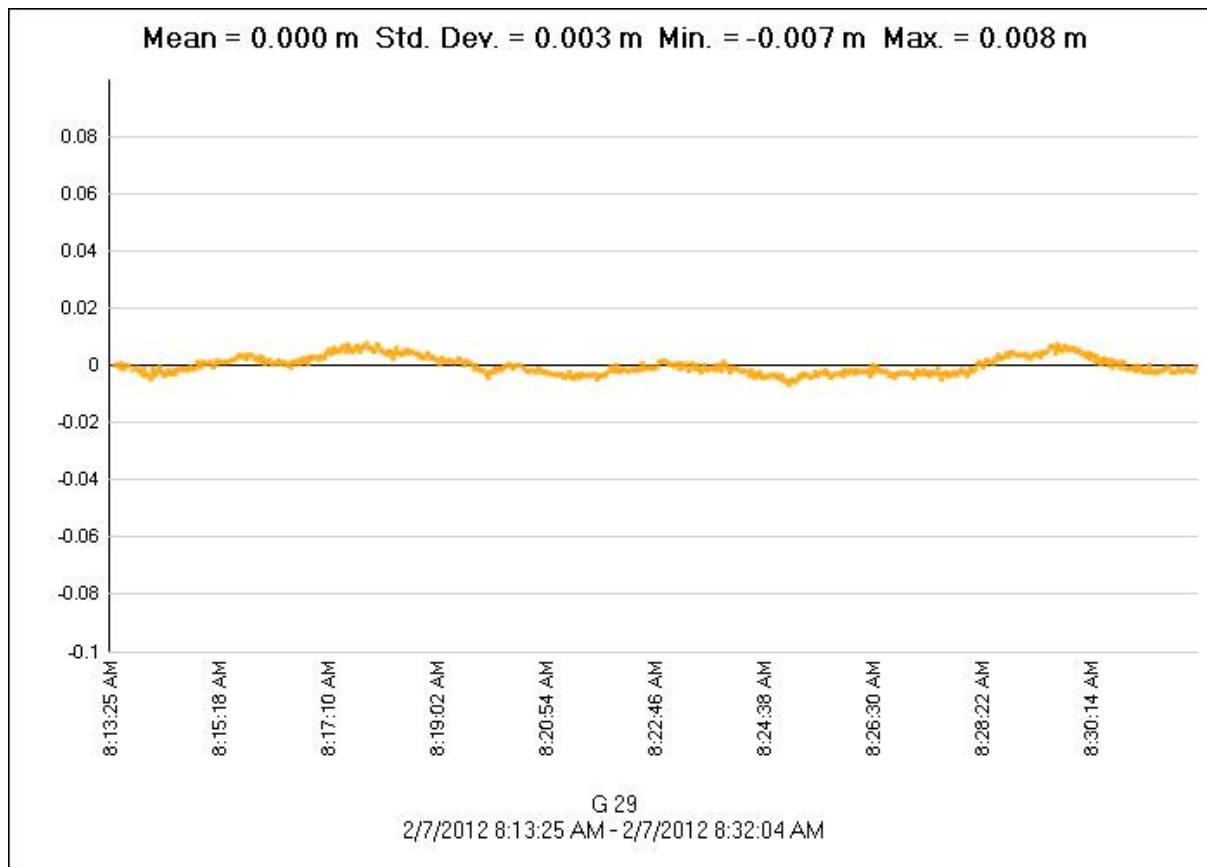


G 25
2/7/2012 8:13:25 AM - 2/7/2012 8:32:04 AM

Mean = 0.002 m Std. Dev. = 0.005 m Min. = -0.008 m Max. = 0.017 m



G 26
2/7/2012 8:13:25 AM - 2/7/2012 8:32:04 AM



Processing style

Elevation mask:	10.0 deg
Auto start processing:	Yes
Start automatic ID numbering:	AUTO0001
Continuous vectors:	No
Generate residuals:	Yes
Antenna model:	Automatic
Ephemeris type:	Automatic
Frequency:	Dual Frequency (L1, L2)
Processing Interval:	Use all data
Force float:	No

Acceptance Criteria

Vector Component	Flag 	Fail 
Horizontal Precision >	0.050 m + 1.000 ppm	0.100 m + 1.000 ppm
Vertical Precision >	0.100 m + 1.000 ppm	0.200 m + 1.000 ppm

HH0162 - FVA54-B2 (9:20:54 AM-9:41:40 AM) (S42)

Baseline observation: HH0162 --- FVA54-B2 (B42)

Processed: 3/21/2012 10:58:06 AM

Solution type: Fixed

Frequency used: Dual Frequency (L1, L2)

Horizontal precision: 0.015 m

Vertical precision: 0.025 m

RMS: 0.006 m

Maximum PDOP: 2.981

Ephemeris used: Broadcast

Antenna model: US National Geodetic Survey Calibration

Processing start time: 2/7/2012 9:20:54 AM (Local: UTC-7hr)

Processing stop time: 2/7/2012 9:41:40 AM (Local: UTC-7hr)

Processing duration: 00:20:46

Processing interval: .5 second

Vector Components (Mark to Mark)

From:	HH0162				
Grid		Local		Global	
Easting	334883.094 m	Latitude	N37°57'51.89981"	Latitude	N37°57'51.89980"
Northing	4203533.480 m	Longitude	W100°52'46.80868"	Longitude	W100°52'46.80868"
Elevation	875.739 m	Height	850.245 m	Height	850.245 m

To:	FVA54-B2				
Grid		Local		Global	
Easting	342870.370 m	Latitude	N37°56'33.43602"	Latitude	N37°56'33.43601"
Northing	4200956.710 m	Longitude	W100°47'17.59847"	Longitude	W100°47'17.59847"
Elevation	867.857 m	Height	842.285 m	Height	842.285 m

Vector					
9Ughb[	7987.276 m	NS Fwd Azimuth	106°43'26"	L	7616.378 m
Bcfh\jb[	-2576.770 m	Ellipsoid Dist.	8393.308 m	M	-2966.254 m
9`Yj Ufcb	-7.881 m	<Y][\h	-7.960 m	N	-1912.716 m

Standard Errors

Vector errors:					
Ughb[	0.004 m	BG`Zk X'5n]a i h	0°00'00"	L	0.005 m
Bcfh\]b[	0.006 m	'9~]dgc]X'8]gh	0.005 m	M	0.011 m
'9`Yj Uhcb	0.013 m	' <Y][\h	0.013 m	N	0.009 m

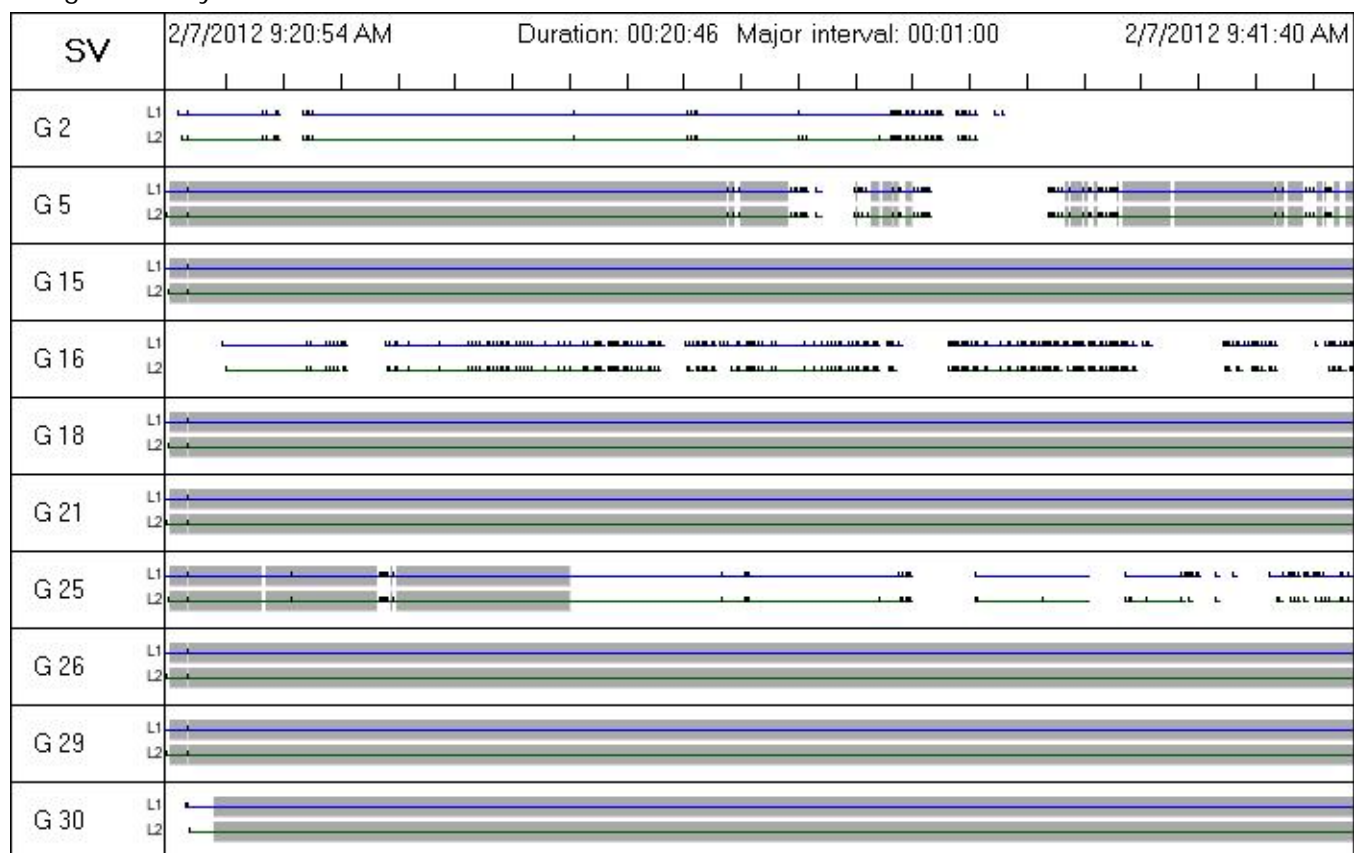
Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0000235336		
Y	0.0000203494	0.0001139219	
Z	-0.0000136207	-0.0000596875	0.0000858281

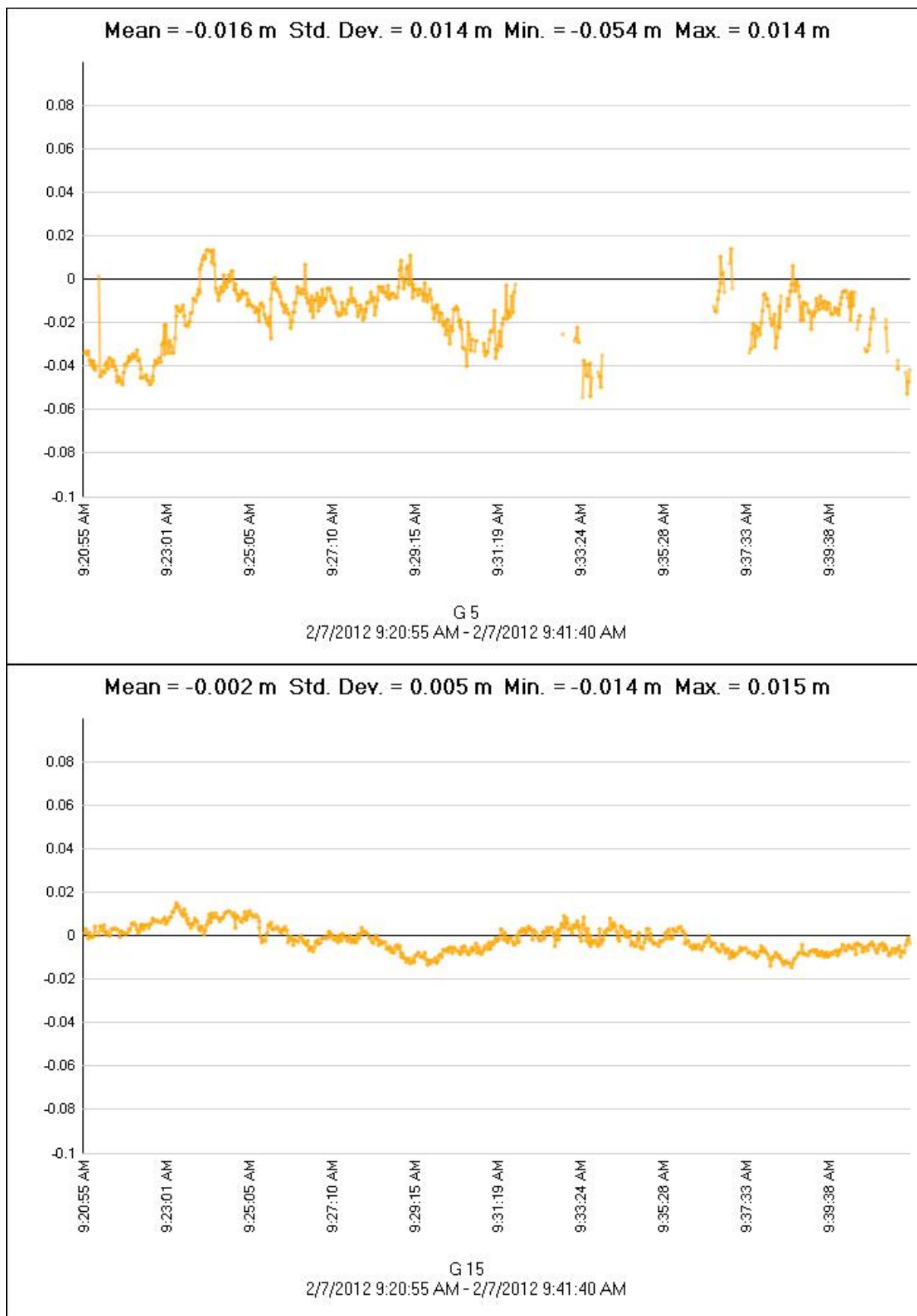
Occupations

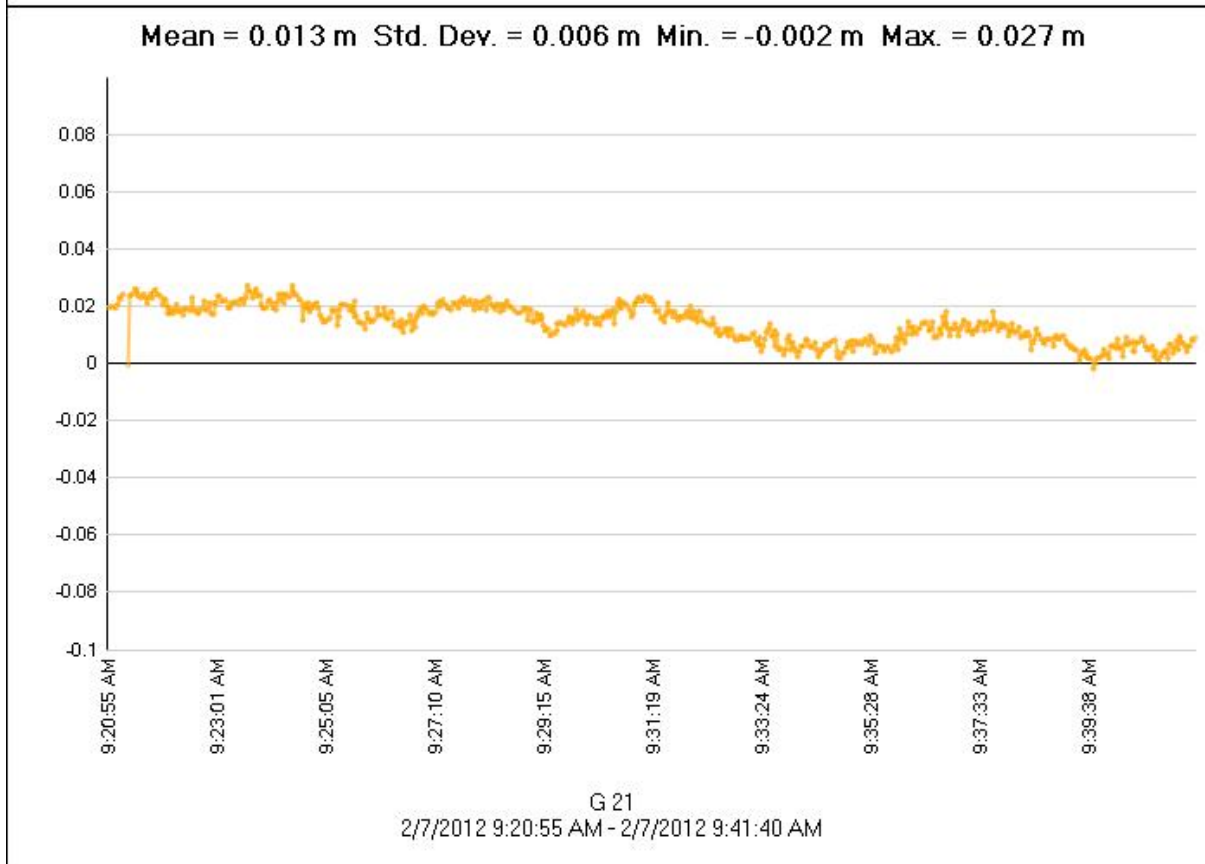
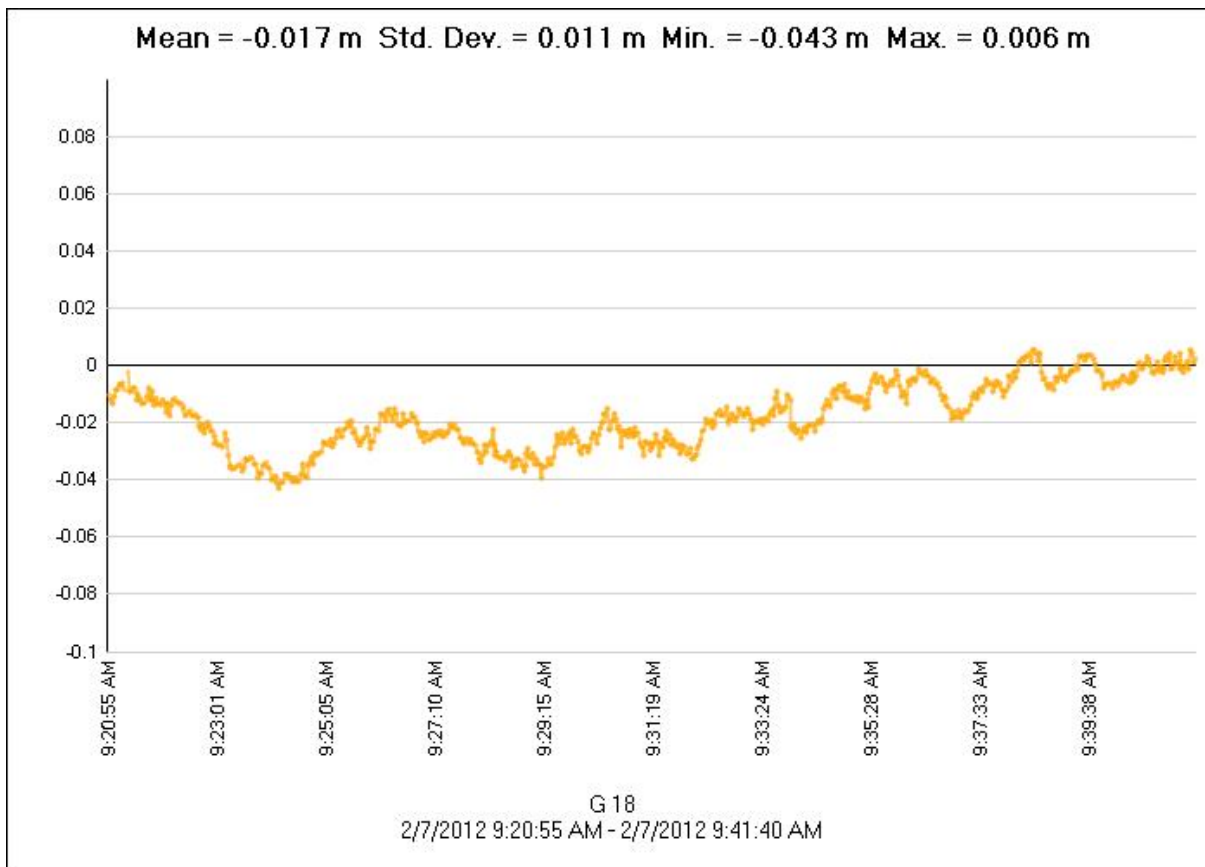
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Receiver type:	Unknown	Unknown
Receiver serial number:		
Antenna type:	Unknown External	Unknown External
Antenna serial number:	-----	-----
Antenna height (measured):	1.565 m	2.065 m
Antenna method:	Antenna Phase Center	Antenna Phase Center

Tracking Summary

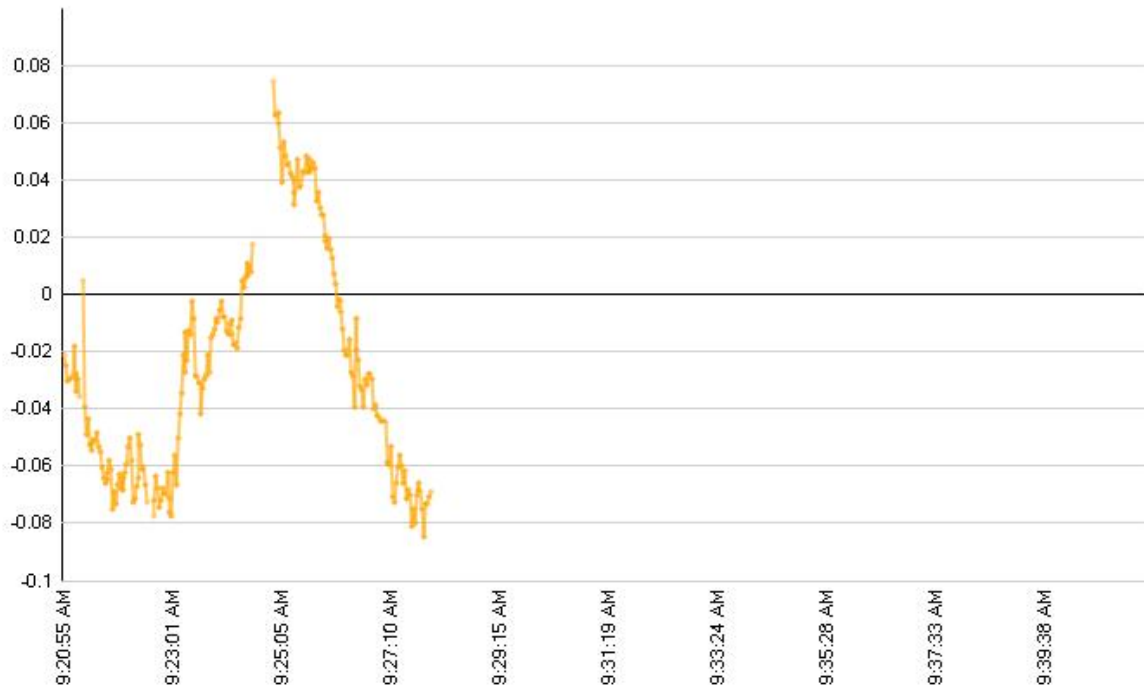


Residuals





Mean = -0.025 m Std. Dev. = 0.038 m Min. = -0.084 m Max. = 0.075 m



G 25

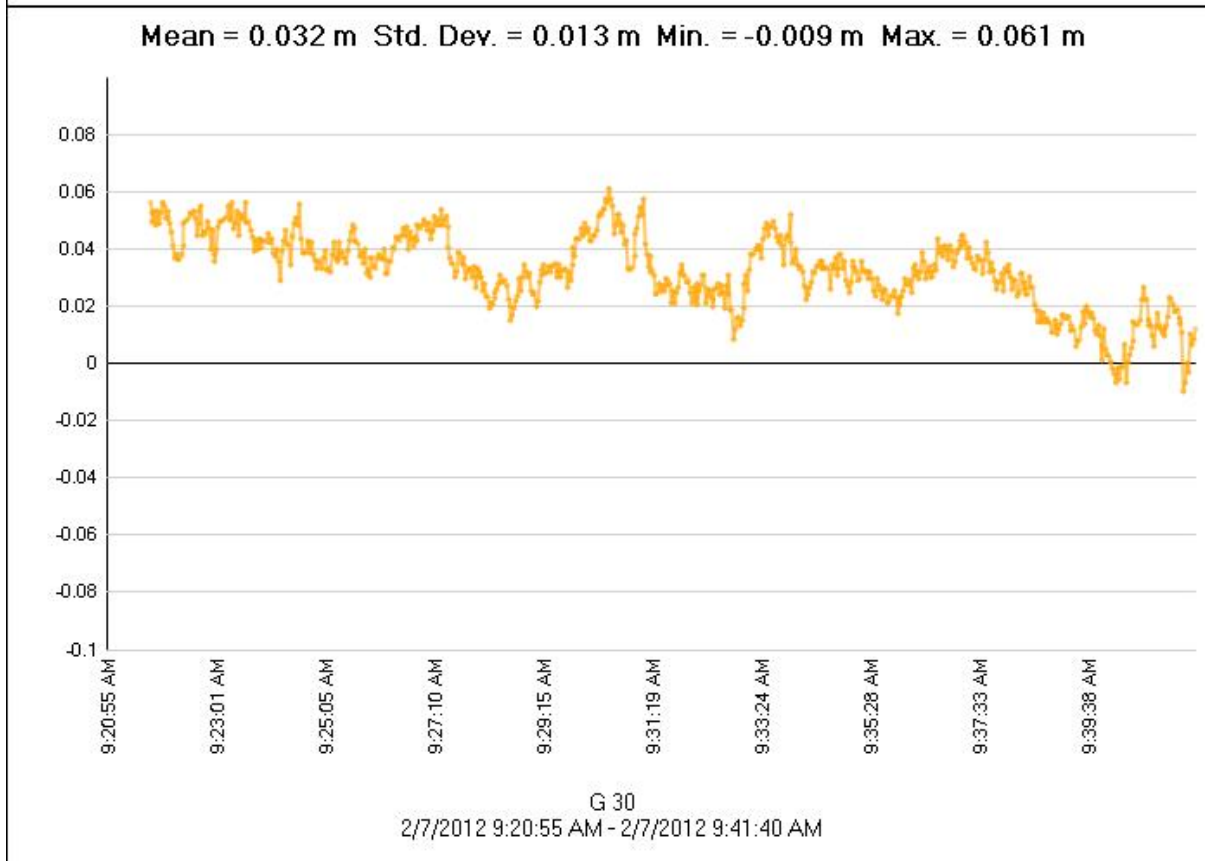
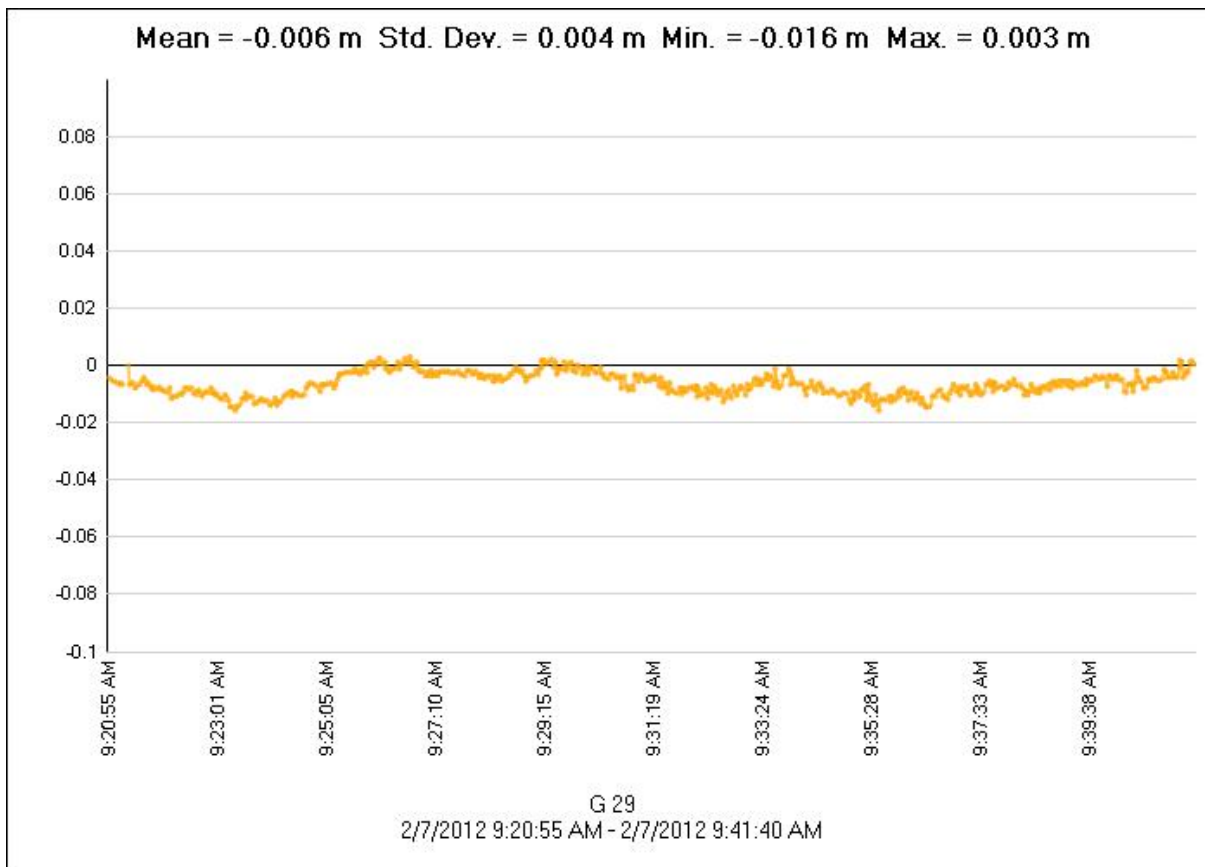
2/7/2012 9:20:55 AM - 2/7/2012 9:41:40 AM

Mean = 0.018 m Std. Dev. = 0.008 m Min. = -0.003 m Max. = 0.040 m



G 26

2/7/2012 9:20:55 AM - 2/7/2012 9:41:40 AM



Processing style

Elevation mask:10.0 deg

Auto start processing:Yes

Start automatic ID numbering:AUTO0001

Continuous vectors:No

Generate residuals:Yes

Antenna model:Automatic



Ephemeris type:Automatic

Frequency: Dual Frequency (L1, L2)

Processing Interval:Use all data

Force float:No

Acceptance Criteria

Vector Component	Flag 	Fail 
Horizontal Precision >	0.050 m + 1.000 ppm	0.100 m + 1.000 ppm
Vertical Precision >	0.100 m + 1.000 ppm	0.200 m + 1.000 ppm

HH0162 - SVA54-B2 (9:54:54 AM-10:16:51 AM) (S43)

Baseline observation: HH0162 --- SVA54-B2 (B43)

Processed: 3/21/2012 10:57:56 AM

Solution type: Fixed

Frequency used: Dual Frequency (L1, L2)

Horizontal precision: 0.011 m

Vertical precision: 0.033 m

RMS: 0.007 m

Maximum PDOP: 7.832

Ephemeris used: Broadcast

Antenna model: US National Geodetic Survey Calibration

Processing start time: 2/7/2012 9:54:54 AM (Local: UTC-7hr)

Processing stop time: 2/7/2012 10:16:51 AM (Local: UTC-7hr)

Processing duration: 00:21:57

Processing interval: .5 second

Vector Components (Mark to Mark)

From:	HH0162				
Grid		Local		Global	
Easting	334883.094 m	Latitude	N37°57'51.89981"	Latitude	N37°57'51.89980"
Northing	4203533.480 m	Longitude	W100°52'46.80868"	Longitude	W100°52'46.80868"
Elevation	875.739 m	Height	850.245 m	Height	850.245 m

To:	SVA54-B2				
Grid		Local		Global	
Easting	342275.579 m	Latitude	N37°58'29.24439"	Latitude	N37°58'29.24438"
Northing	4204539.098 m	Longitude	W100°47'44.78521"	Longitude	W100°47'44.78521"
Elevation	892.108 m	Height	866.595 m	Height	866.595 m

Vector					
9Ughb[	7392.485 m	NS Fwd Azimuth	81°05'48"	L	7372.061 m
BcfA\jb[	1005.619 m	Ellipsoid Dist.	7461.160 m	M	-703.088 m
9`Yj U\jcb	16.369 m	<Y][\h	16.351 m	N	917.886 m

Standard Errors

Vector errors:					
Point ID	0.003 m	Point ID	0°00'00"	Point ID	0.004 m
Point ID	0.005 m	Point ID	0.003 m	Point ID	0.012 m
Point ID	0.017 m	Point ID	0.017 m	Point ID	0.012 m



Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0000132587		
Y	0.0000231943	0.0001366940	
Z	-0.0000225515	-0.0001311283	0.0001560247

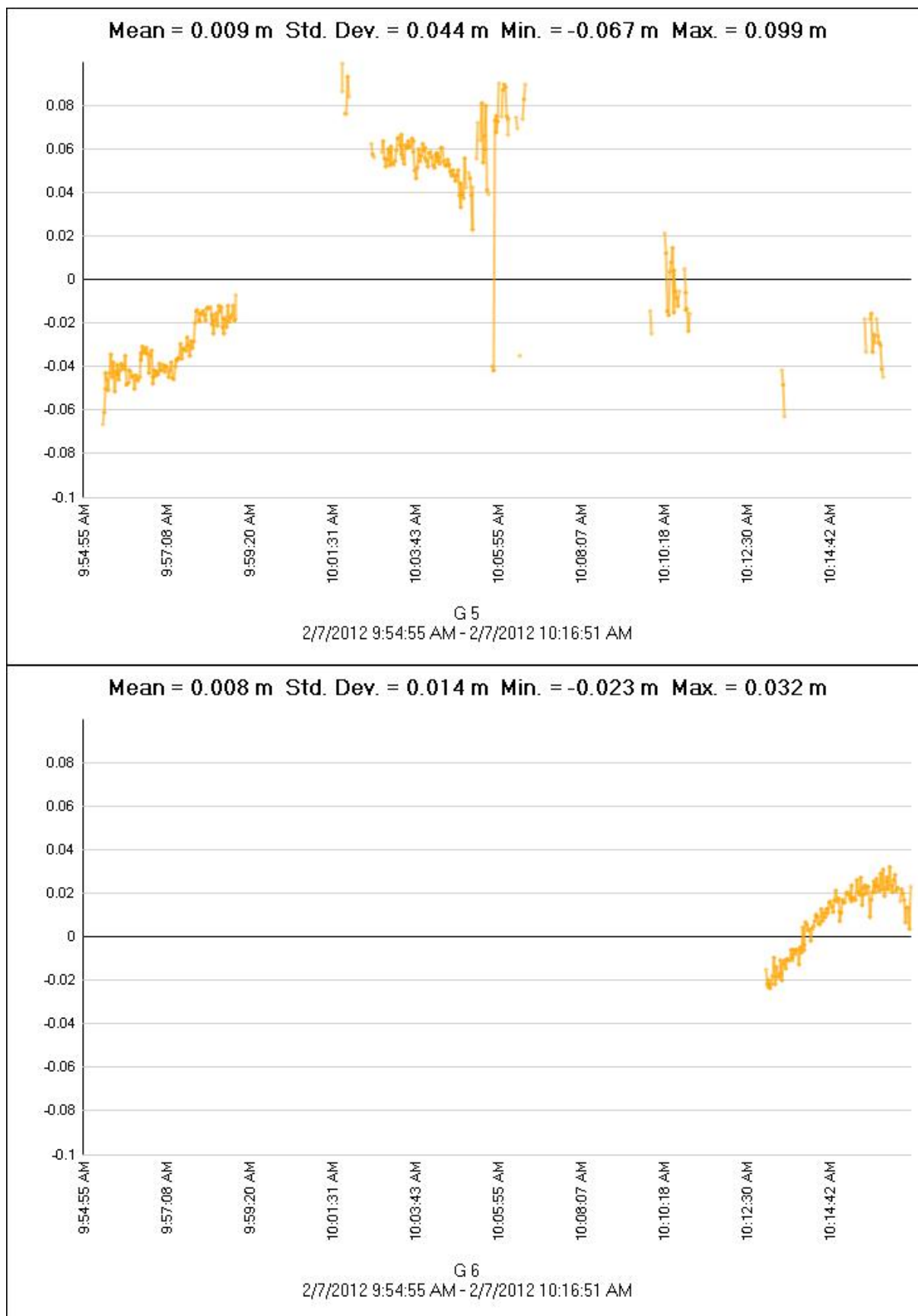
Occupations

	From	To
Point ID:	HH0162	SVA54-B2
Data file:	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00010380.12o	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00080383.12o
Receiver type:	Unknown	Unknown
Receiver serial number:		
Antenna type:	Unknown External	Unknown External
Antenna serial number:	-----	-----
Antenna height (measured):	1.565 m	2.065 m
Antenna method:	Antenna Phase Center	Antenna Phase Center

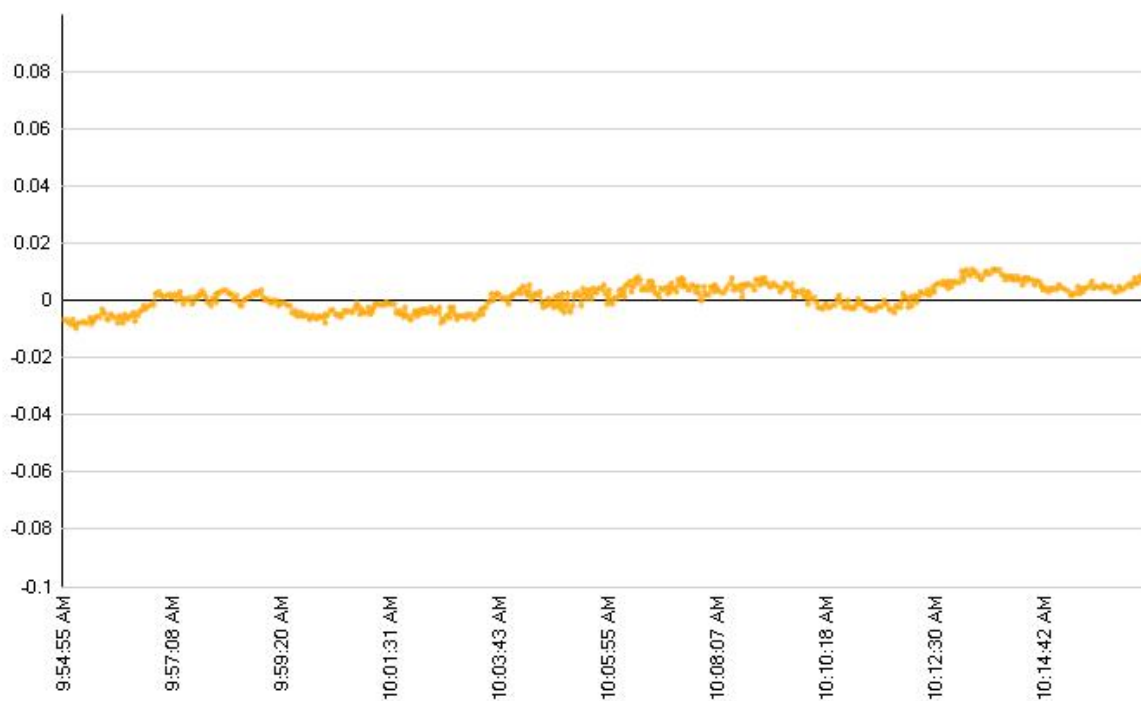
Tracking Summary

SV	2/7/2012 9:54:54 AM	Duration: 00:21:57	Major interval: 00:01:00	2/7/2012 10:16:51 AM
G 5				
G 6				
G 15				
G 16				
G 18				
G 21				
G 22				
G 25				
G 26				
G 27				
G 29				
G 30				

Residuals



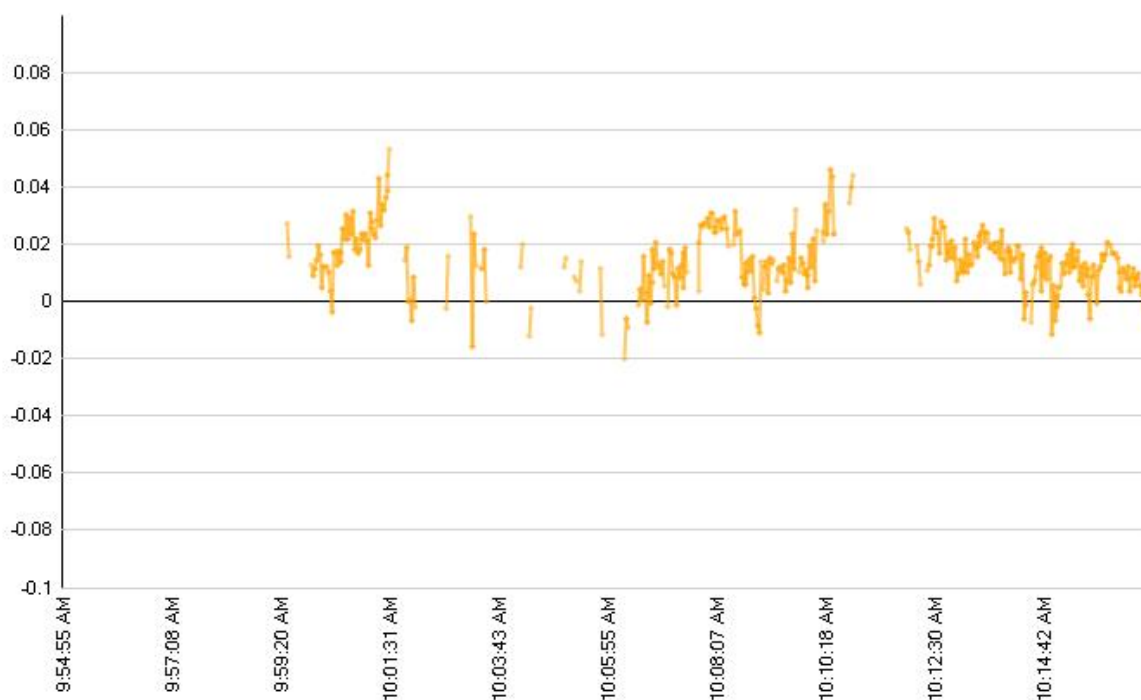
Mean = 0.001 m Std. Dev. = 0.004 m Min. = -0.010 m Max. = 0.011 m



G 15

2/7/2012 9:54:55 AM - 2/7/2012 10:16:51 AM

Mean = 0.013 m Std. Dev. = 0.010 m Min. = -0.020 m Max. = 0.053 m



G 16

2/7/2012 9:54:55 AM - 2/7/2012 10:16:51 AM

Mean = 0.005 m Std. Dev. = 0.004 m Min. = -0.006 m Max. = 0.014 m



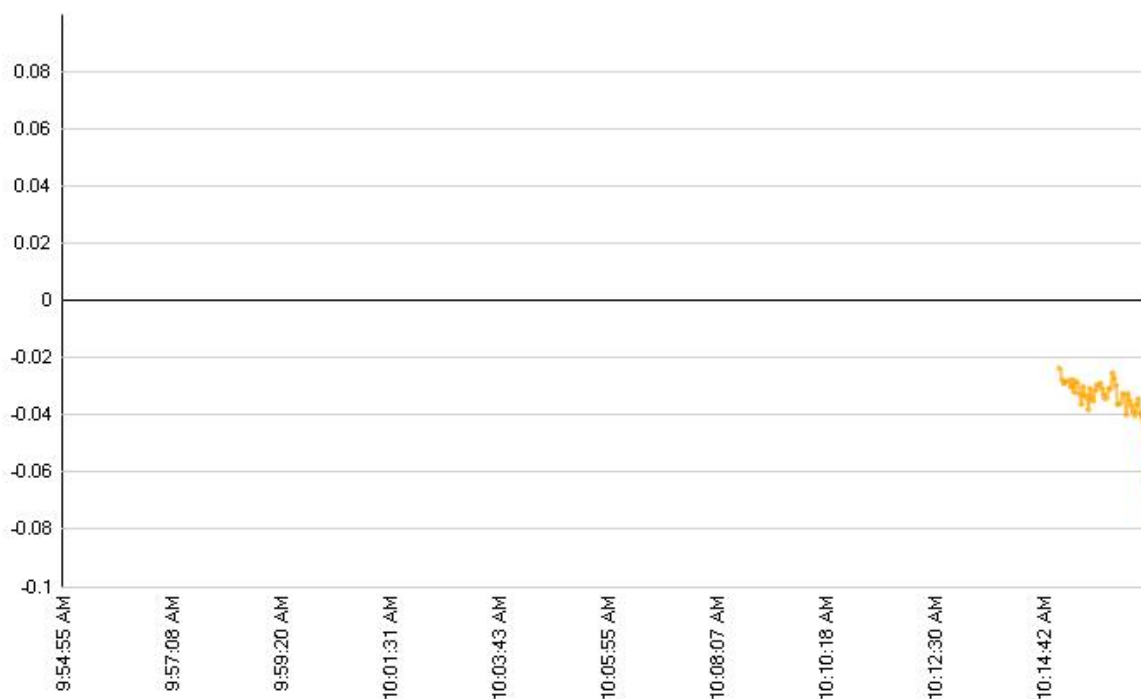
G 18
2/7/2012 9:54:55 AM - 2/7/2012 10:16:51 AM

Mean = 0.001 m Std. Dev. = 0.004 m Min. = -0.009 m Max. = 0.011 m



G 21
2/7/2012 9:54:55 AM - 2/7/2012 10:16:51 AM

Mean = -0.033 m Std. Dev. = 0.007 m Min. = -0.069 m Max. = -0.014 m

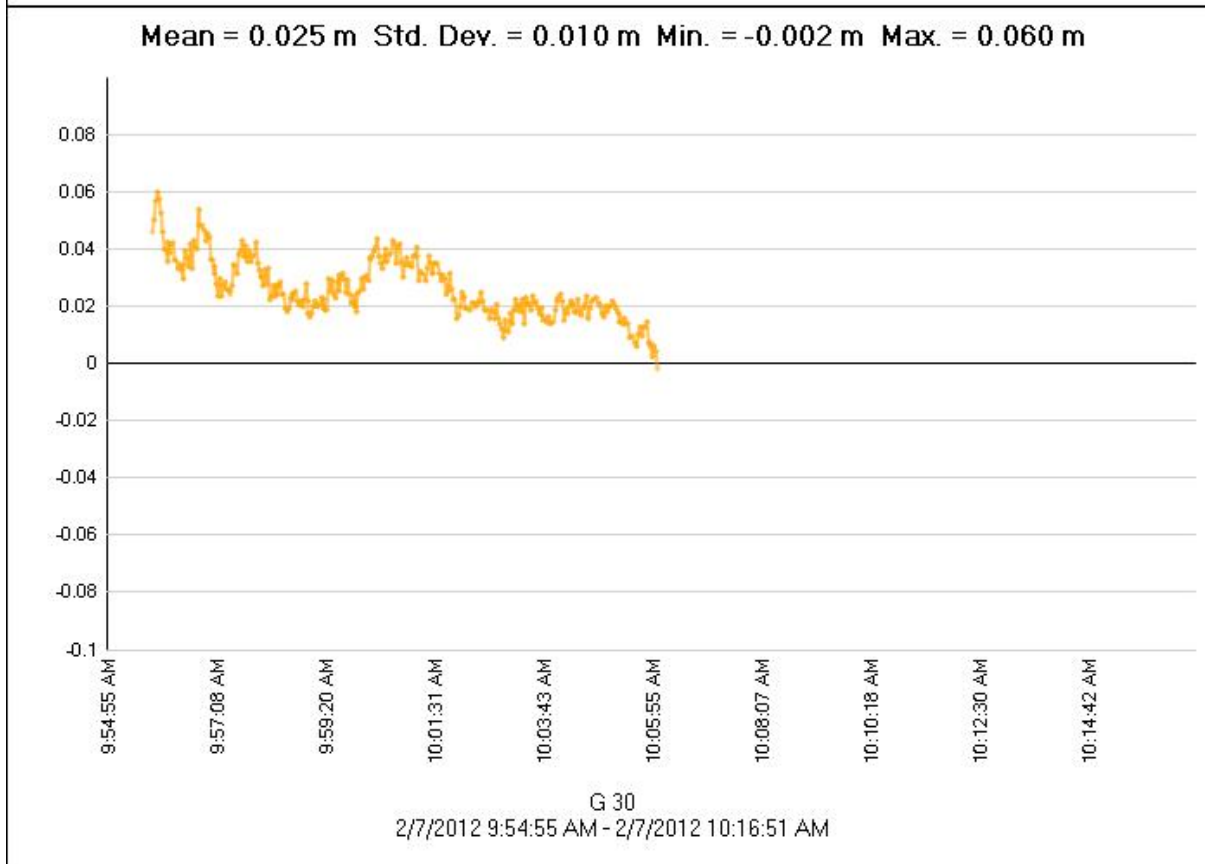
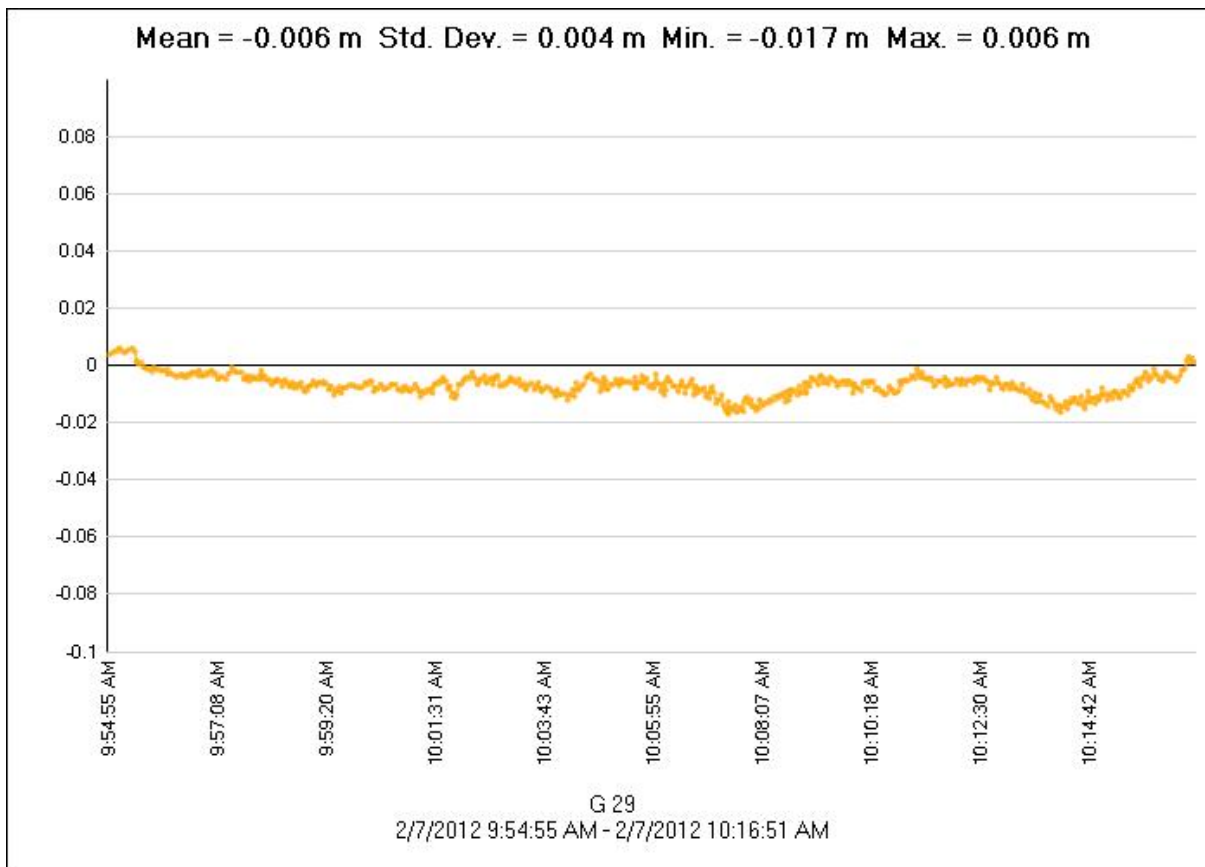


G 22
2/7/2012 9:54:55 AM - 2/7/2012 10:16:51 AM

Mean = -0.001 m Std. Dev. = 0.010 m Min. = -0.035 m Max. = 0.023 m





G 26
2/7/2012 9:54:55 AM - 2/7/2012 10:16:51 AM



Processing style

Elevation mask:	10.0 deg
Auto start processing:	Yes
Start automatic ID numbering:	AUTO0001
Continuous vectors:	No
Generate residuals:	Yes
Antenna model:	Automatic
Ephemeris type:	Automatic
Frequency:	Dual Frequency (L1, L2)
Processing Interval:	Use all data
Force float:	No

Acceptance Criteria

Vector Component	Flag 	Fail 
Horizontal Precision >	0.050 m + 1.000 ppm	0.100 m + 1.000 ppm
Vertical Precision >	0.100 m + 1.000 ppm	0.200 m + 1.000 ppm

HH0162 - FVA56-B2 (10:56:40 AM-11:15:44 AM) (S44)

Baseline observation: HH0162 --- FVA56-B2 (B44)

Processed: 3/21/2012 10:57:55 AM

Solution type: Fixed

Frequency used: Dual Frequency (L1, L2)

Horizontal precision: 0.012 m

Vertical precision: 0.015 m

RMS: 0.009 m

Maximum PDOP: 1.991

Ephemeris used: Broadcast

Antenna model: US National Geodetic Survey Calibration

Processing start time: 2/7/2012 10:56:40 AM (Local: UTC-7hr)

Processing stop time: 2/7/2012 11:15:44 AM (Local: UTC-7hr)

Processing duration: 00:19:04

Processing interval: .5 second

Vector Components (Mark to Mark)

From:	HH0162				
Grid		Local		Global	
Easting	334883.094 m	Latitude	N37°57'51.89981"	Latitude	N37°57'51.89980"
Northing	4203533.480 m	Longitude	W100°52'46.80868"	Longitude	W100°52'46.80868"
Elevation	875.739 m	Height	850.245 m	Height	850.245 m

To:	FVA56-B2				
Grid		Local		Global	
Easting	358340.378 m	Latitude	N37°51'09.07077"	Latitude	N37°51'09.07076"
Northing	4190673.630 m	Longitude	W100°36'36.76358"	Longitude	W100°36'36.76358"
Elevation	837.746 m	Height	811.999 m	Height	811.999 m

Vector					
9Ughb[	23457.284 m	NS Fwd Azimuth	117°34'39"	L	21866.748 m
Bcfh\jb[	-12859.849 m	Ellipsoid Dist.	26754.006 m	M	-11886.845 m
9Yj Uhcb	-37.993 m	<Y][\h	-38.245 m	N	-9824.053 m

Standard Errors

Vector errors:					
Point ID	0.003 m	Point ID	0°00'00"	Point ID	0.004 m
Point ID	0.005 m	Point ID	0.003 m	Point ID	0.007 m
Point ID	0.008 m	Point ID	0.008 m	Point ID	0.005 m

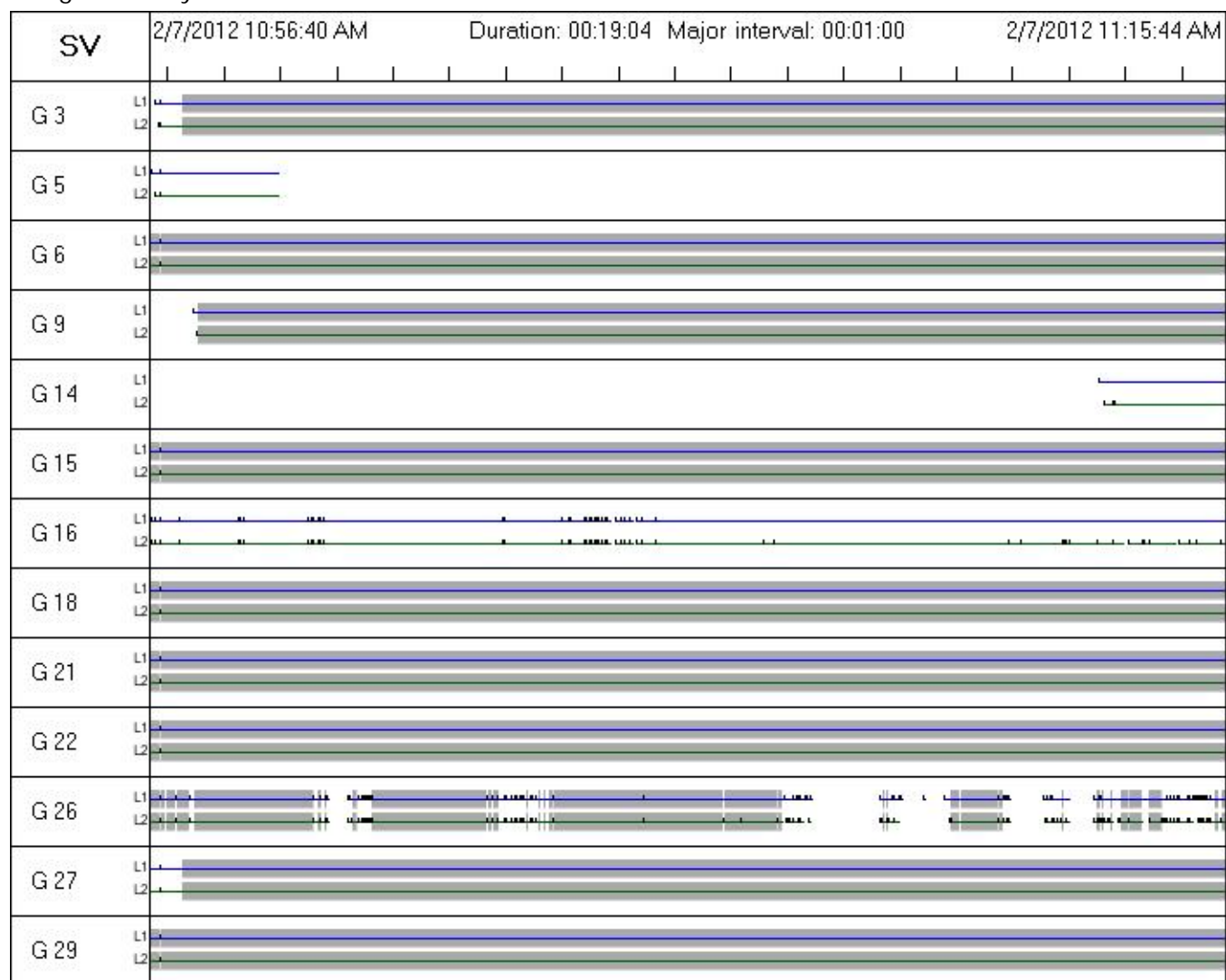
Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0000170345		
Y	0.0000175507	0.0000551710	
Z	-0.0000044893	-0.0000124638	0.0000230952

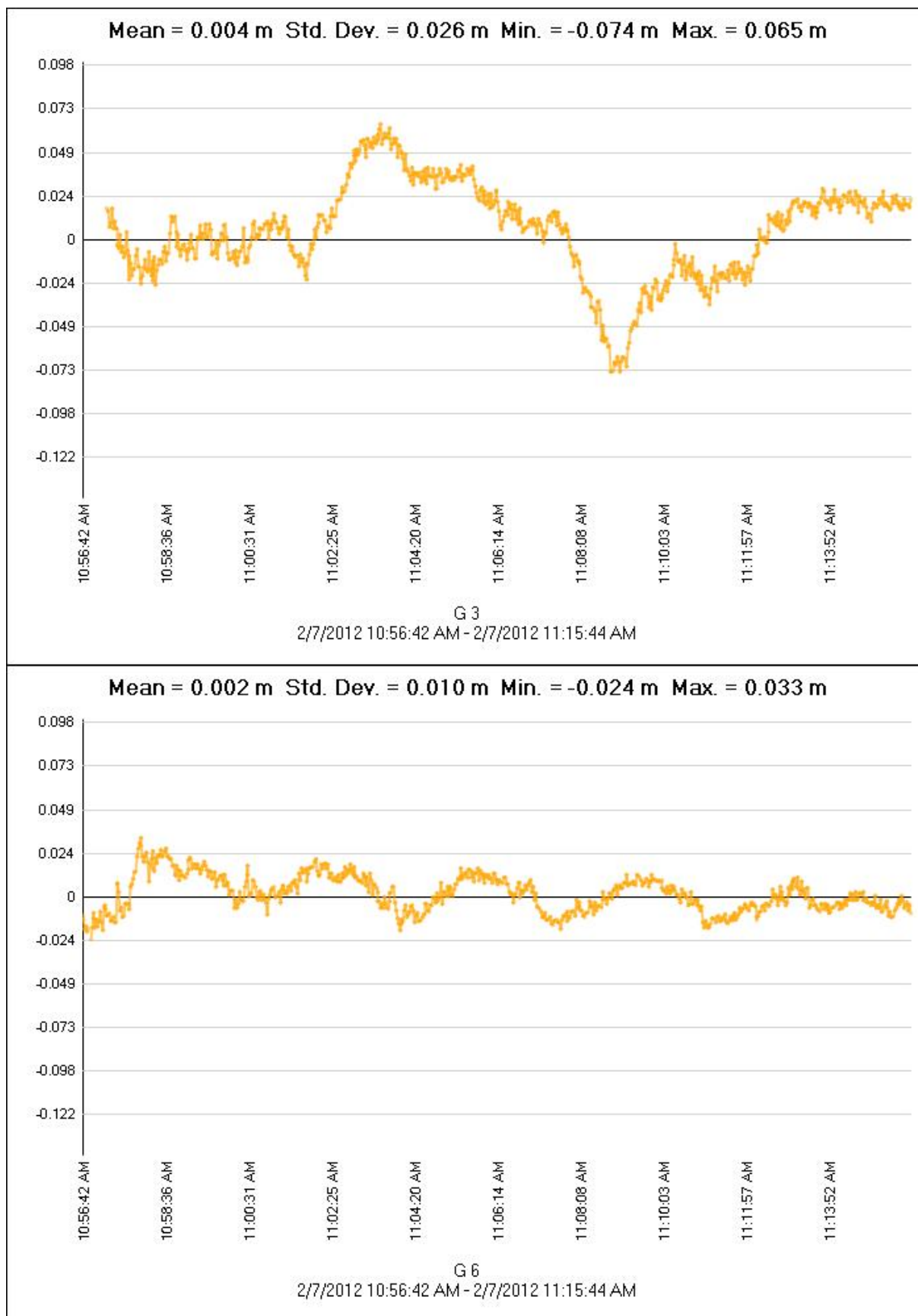
Occupations

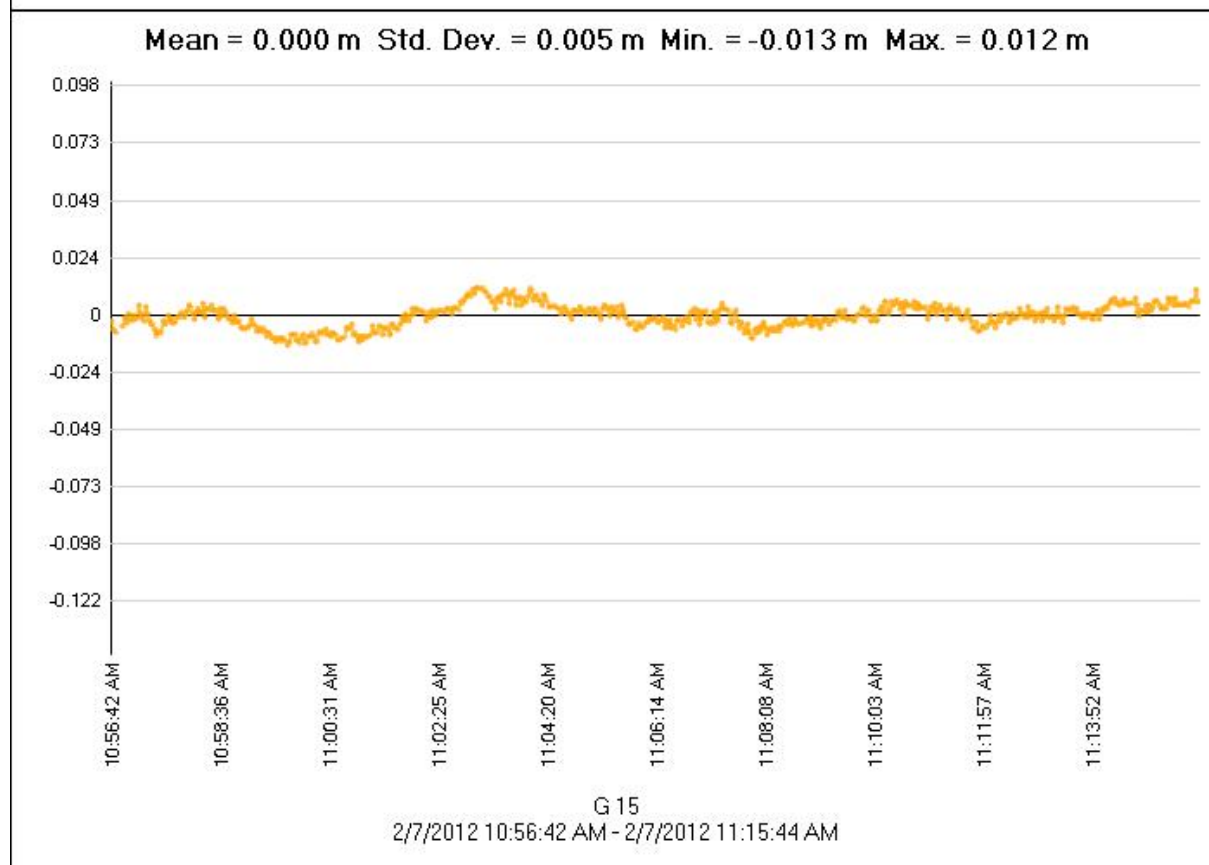
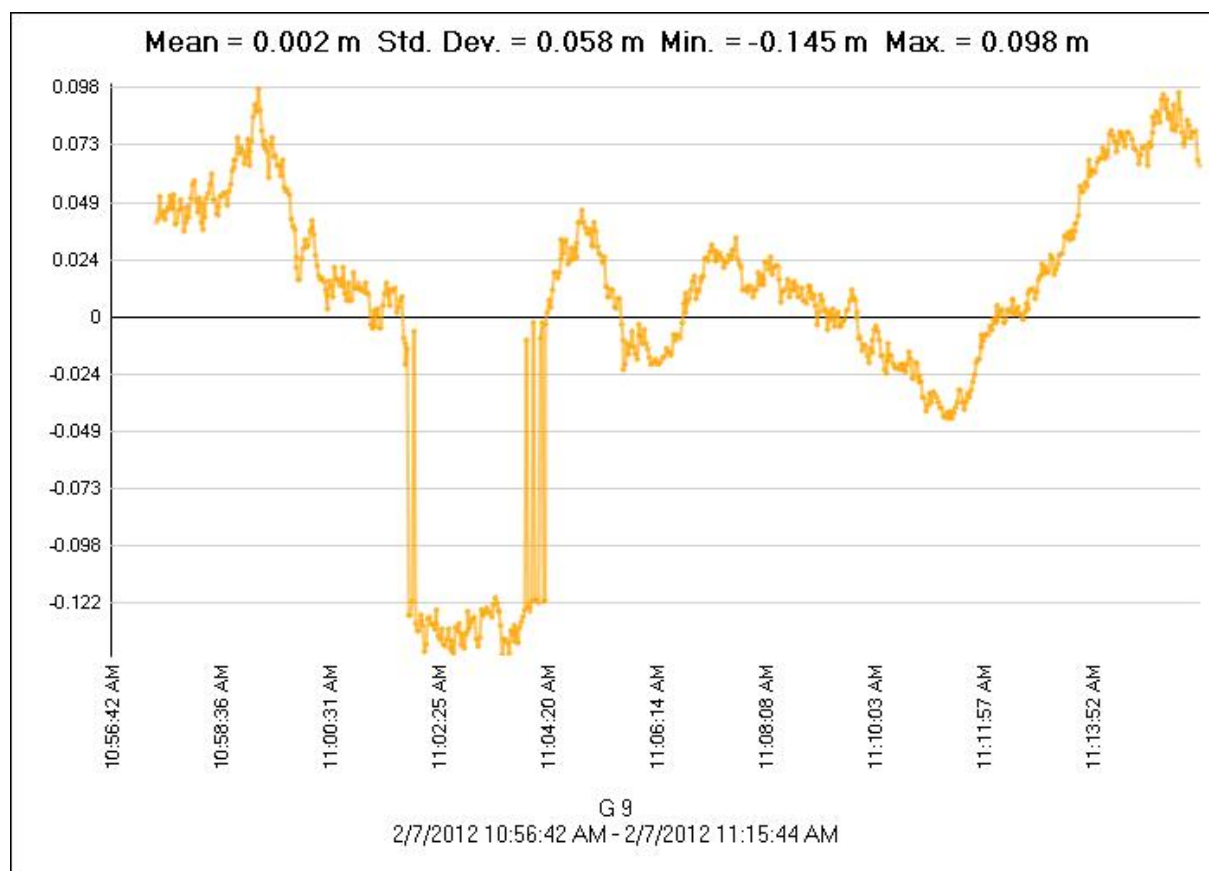
	From	To
Point ID:	HH0162	FVA56-B2
Data file:	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00010380.12o	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00080384.12o
Receiver type:	Unknown	Unknown
Receiver serial number:		
Antenna type:	Unknown External	Unknown External
Antenna serial number:	-----	-----
Antenna height (measured):	1.565 m	2.065 m
Antenna method:	Antenna Phase Center	Antenna Phase Center

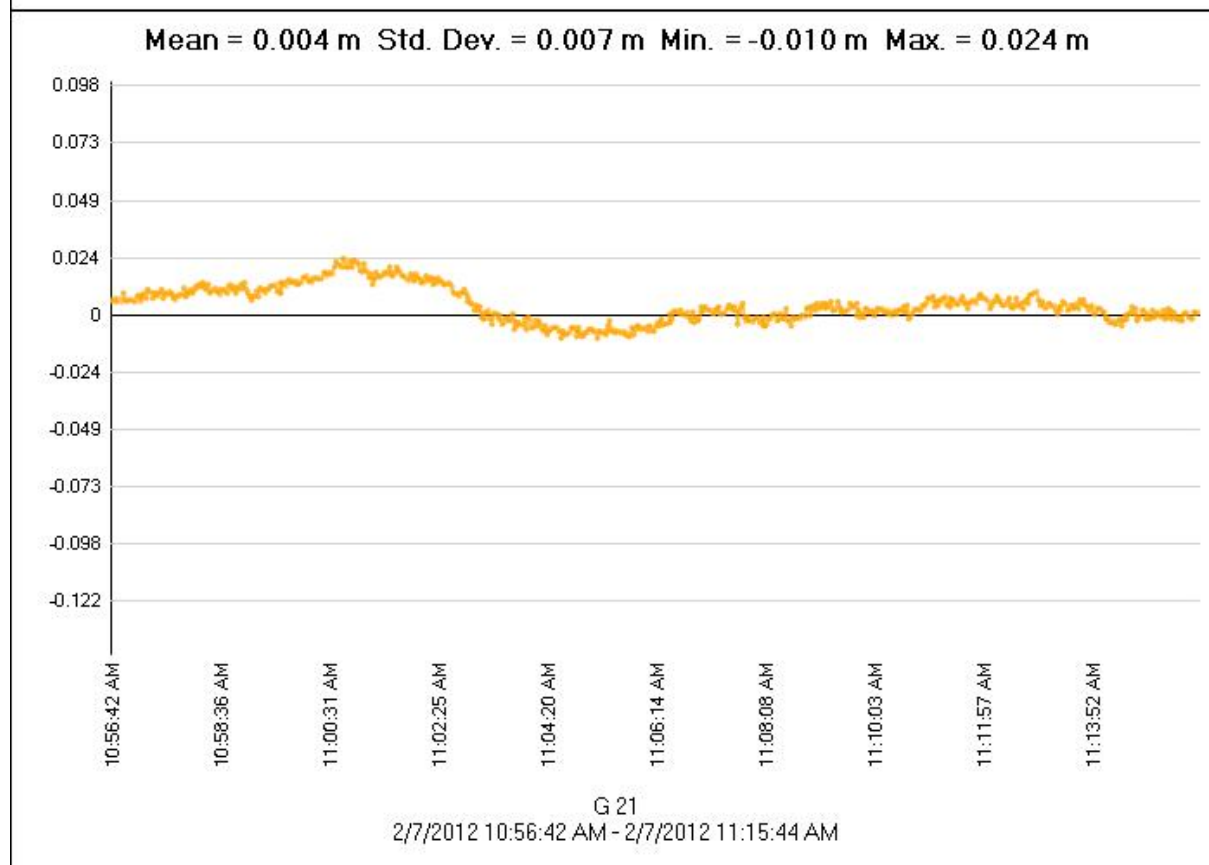
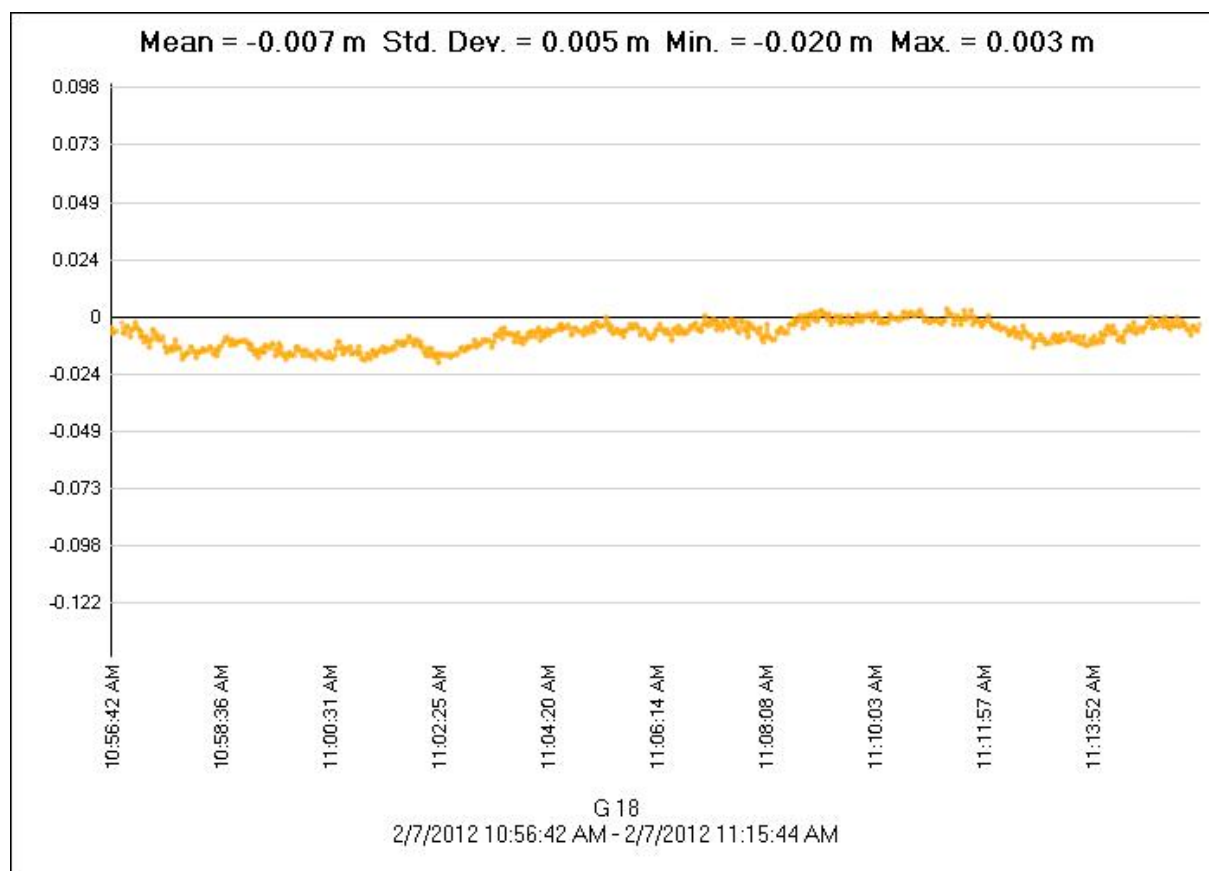
Tracking Summary

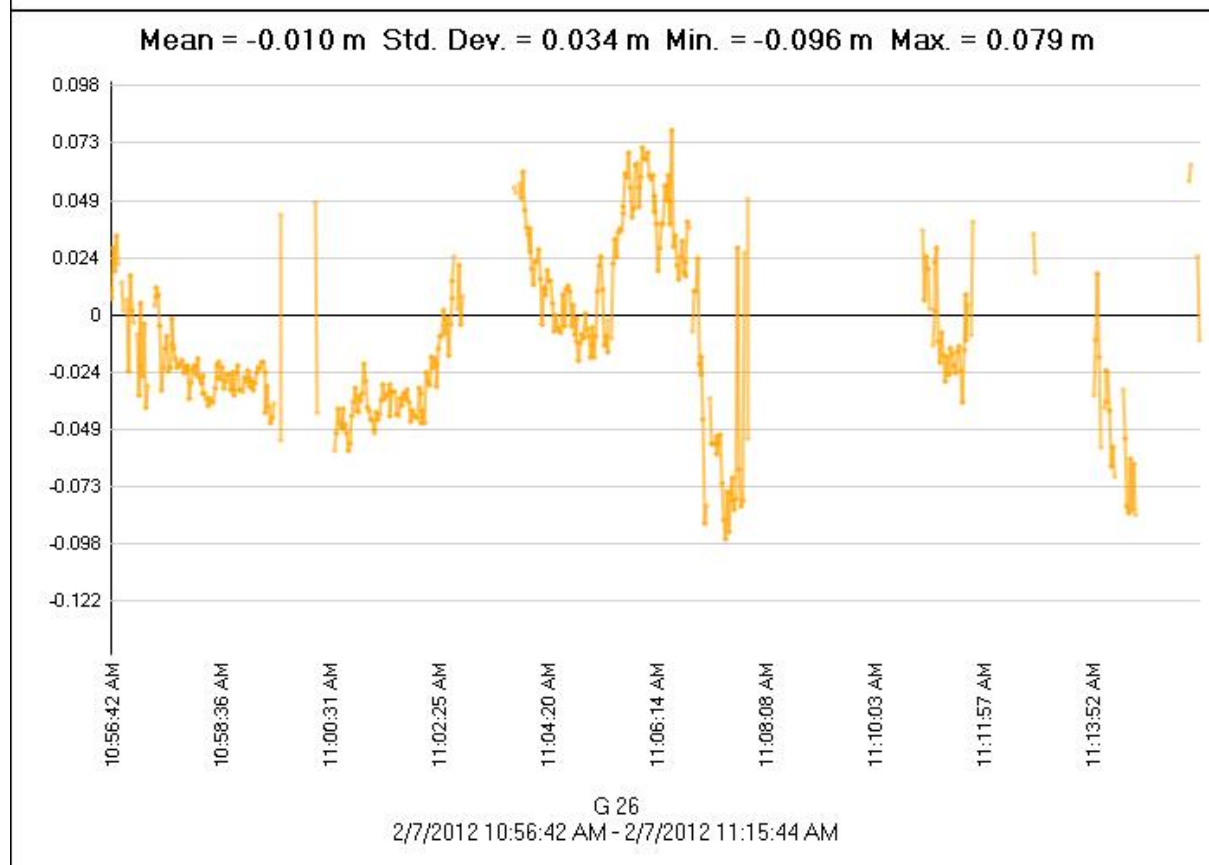
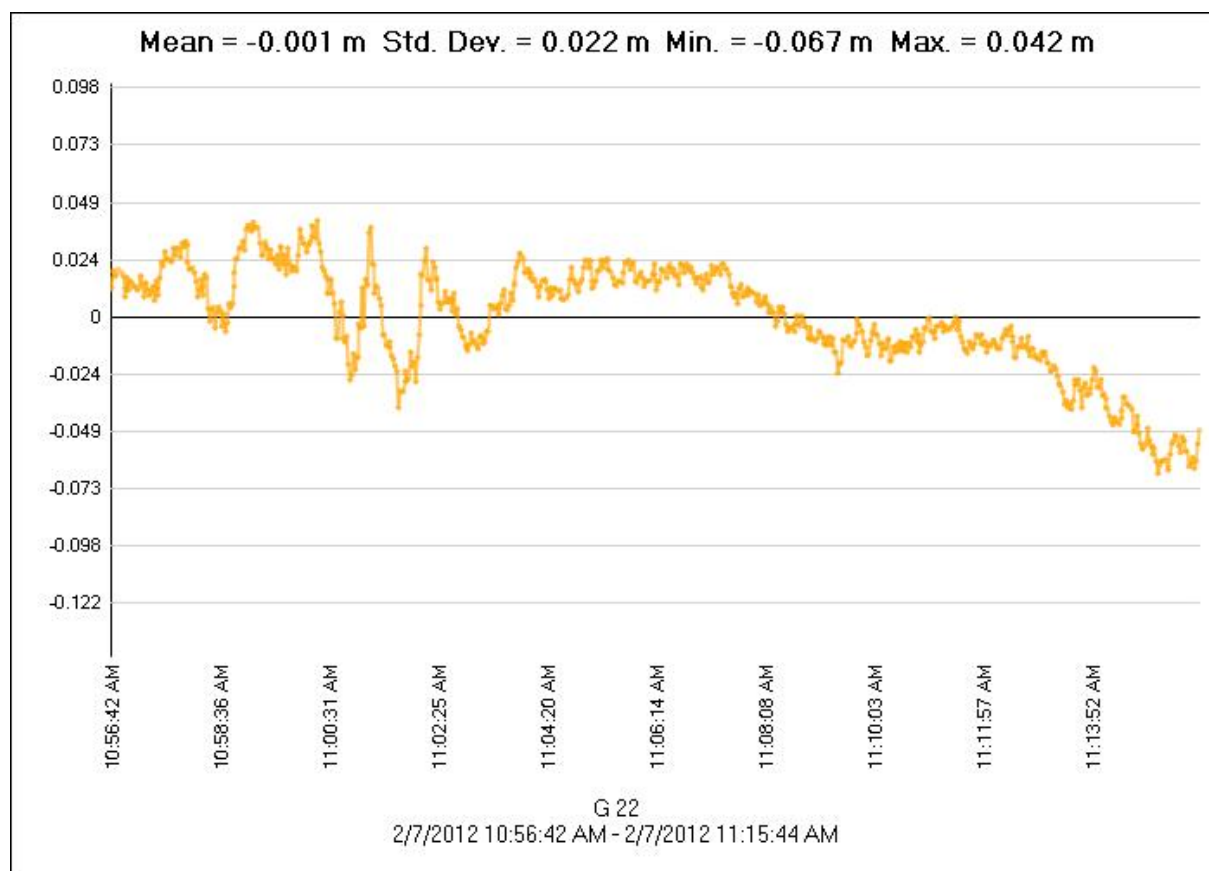


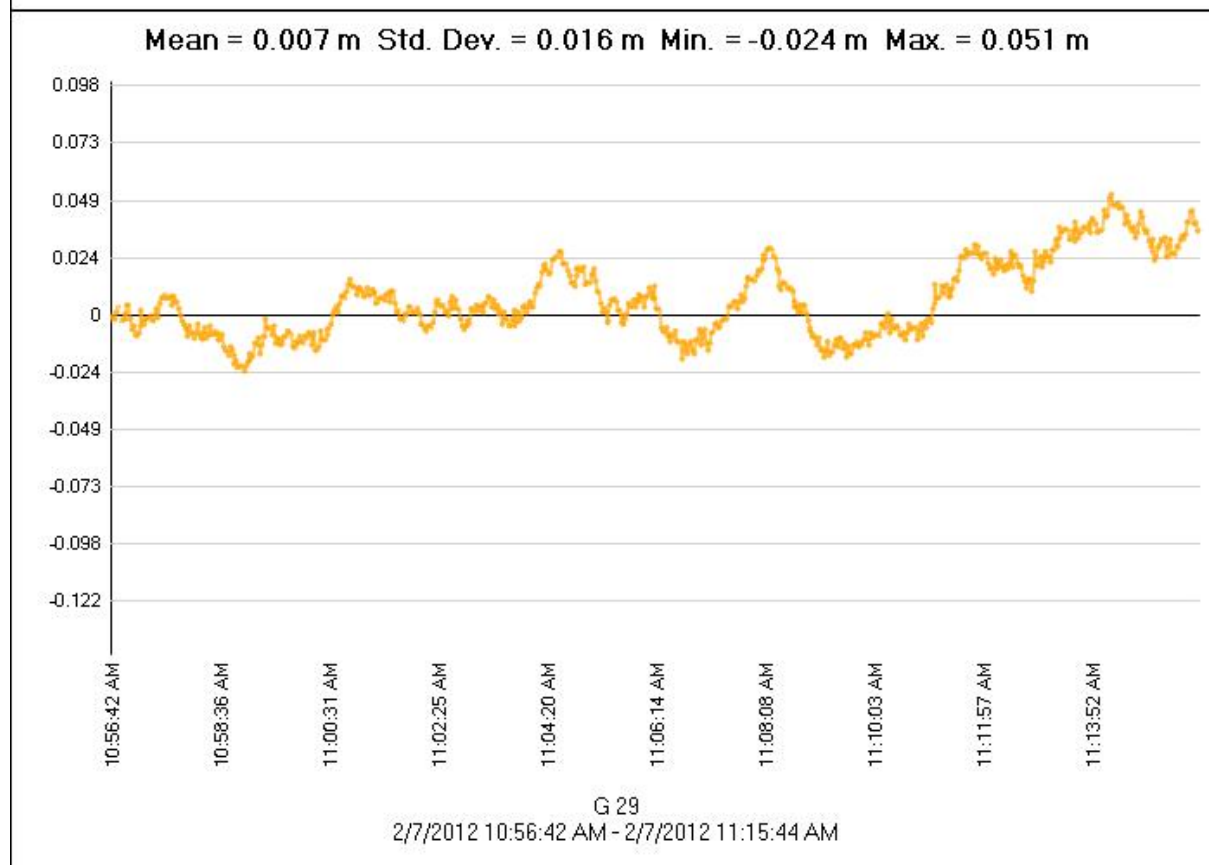
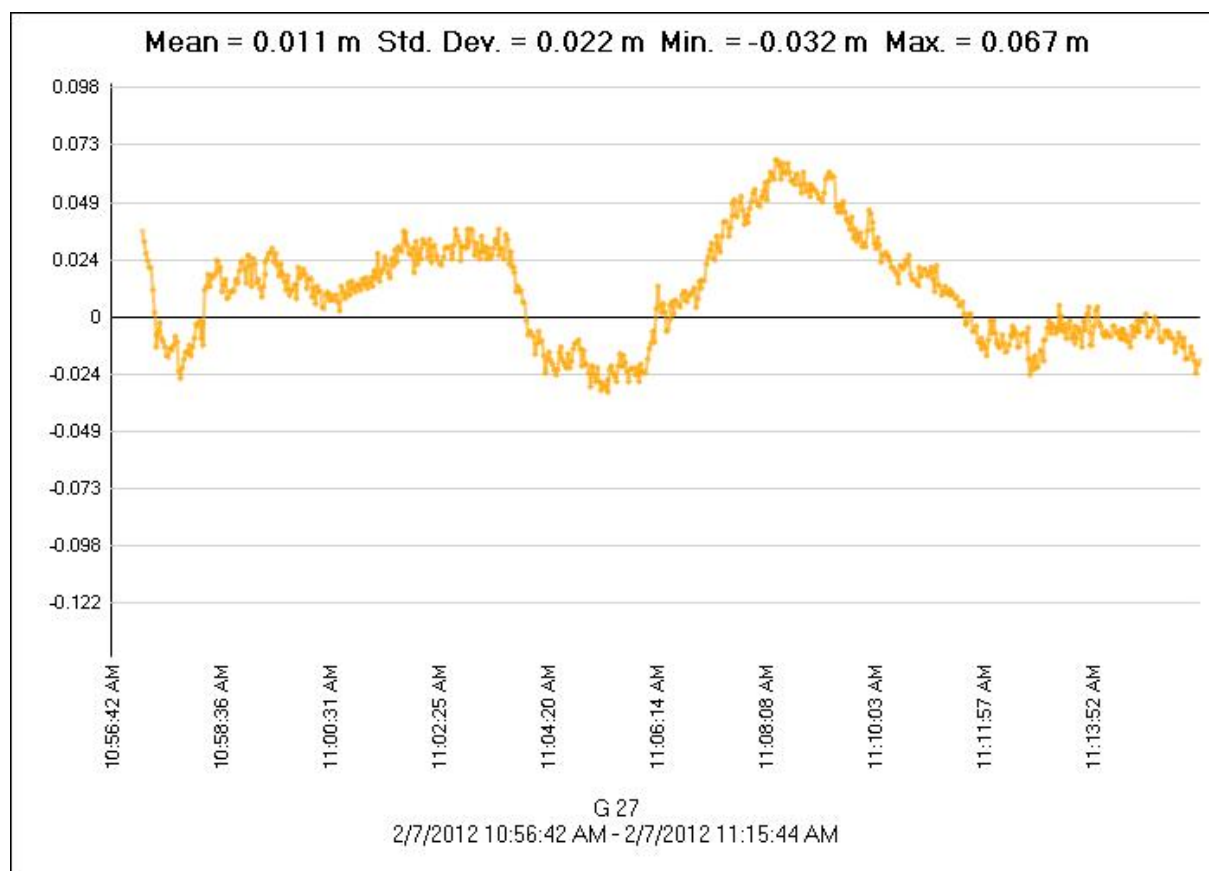
Residuals













Processing style

Elevation mask:	10.0 deg
Auto start processing:	Yes
Start automatic ID numbering:	AUTO0001
Continuous vectors:	No
Generate residuals:	Yes
Antenna model:	Automatic
Ephemeris type:	Automatic
Frequency:	Dual Frequency (L1, L2)
Processing Interval:	Use all data
Force float:	No

Acceptance Criteria

Vector Component	Flag 	Fail 
Horizontal Precision >	0.050 m + 1.000 ppm	0.100 m + 1.000 ppm
Vertical Precision >	0.100 m + 1.000 ppm	0.200 m + 1.000 ppm

HH0162 - SVA56-B2 (11:21:11 AM-11:41:03 AM) (S45)

Baseline observation: HH0162 --- SVA56-B2 (B45)

Processed: 3/21/2012 10:57:58 AM

Solution type: Fixed

Frequency used: Dual Frequency (L1, L2)

Horizontal precision: 0.017 m

Vertical precision: 0.012 m

RMS: 0.014 m

Maximum PDOP: 2.343

Ephemeris used: Broadcast

Antenna model: US National Geodetic Survey Calibration

Processing start time: 2/7/2012 11:21:11 AM (Local: UTC-7hr)

Processing stop time: 2/7/2012 11:41:03 AM (Local: UTC-7hr)

Processing duration: 00:19:51

Processing interval: .5 second

Vector Components (Mark to Mark)

From:	HH0162				
Grid		Local		Global	
Easting	334883.094 m	Latitude	N37°57'51.89981"	Latitude	N37°57'51.89980"
Northing	4203533.480 m	Longitude	W100°52'46.80868"	Longitude	W100°52'46.80868"
Elevation	875.739 m	Height	850.245 m	Height	850.245 m

To:	SVA56-B2				
Grid		Local		Global	
Easting	358347.670 m	Latitude	N37°51'07.00953"	Latitude	N37°51'07.00952"
Northing	4190609.953 m	Longitude	W100°36'36.42035"	Longitude	W100°36'36.42035"
Elevation	838.097 m	Height	812.350 m	Height	812.350 m

Vector					
9Ughb[	23464.576 m	NS Fwd Azimuth	117°41'22"	L	21867.764 m
BcfA\jb[	-12923.526 m	Ellipsoid Dist.	26791.067 m	M	-11926.997 m
9Yj Uhcb	-37.641 m	<Y][\h	-37.894 m	N	-9874.024 m

Standard Errors

Vector errors:					
Point ID	0.003 m	Point Description	0°00'00"	Point Type	0.003 m
Point ID	0.007 m	Point Description	0.004 m	Point Type	0.006 m
Point ID	0.006 m	Point Description	0.006 m	Point Type	0.006 m




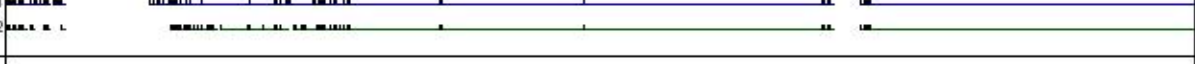









Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0000110799		
Y	0.0000111557	0.0000398680	
Z	0.0000033814	0.0000032597	0.0000412173

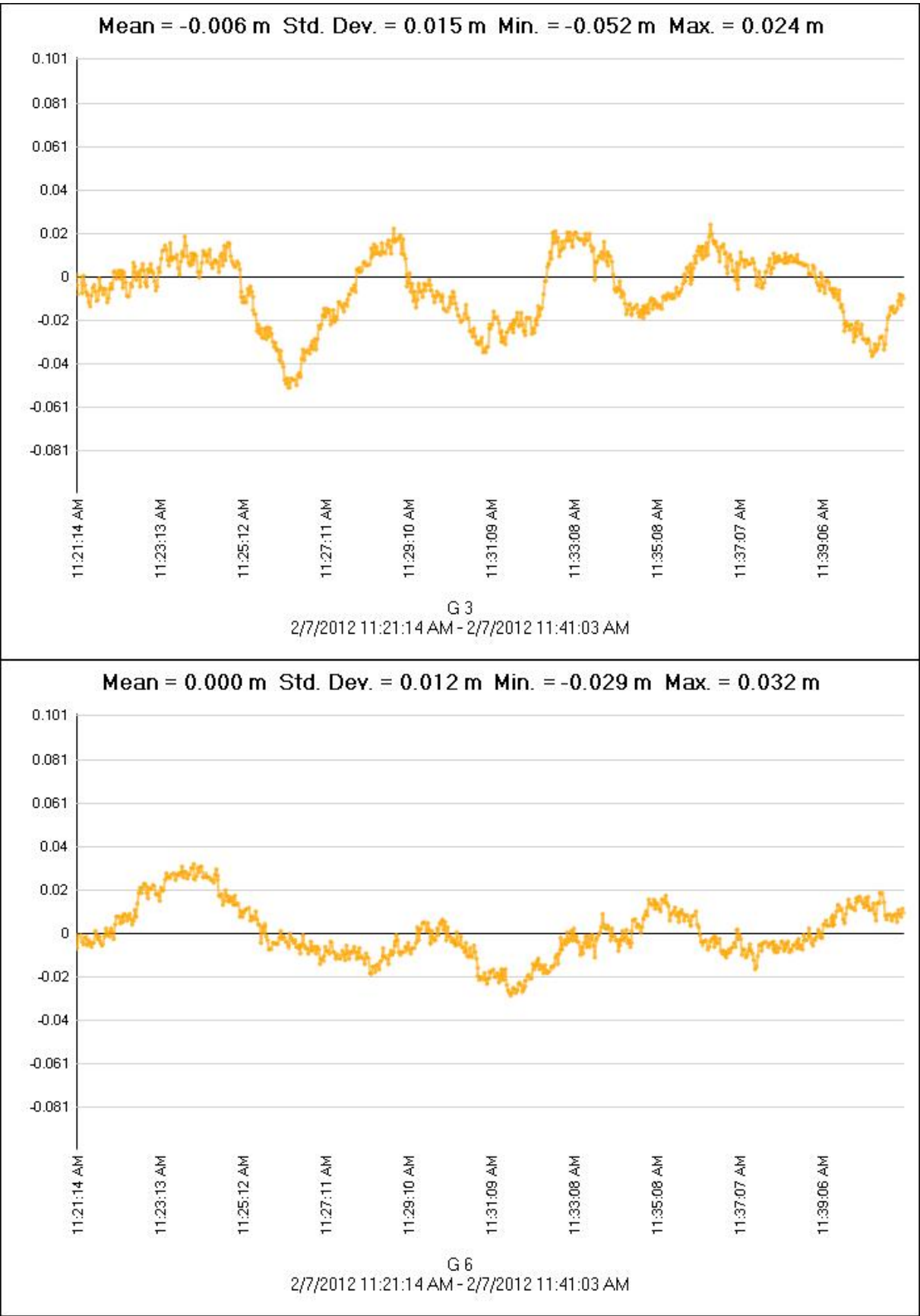
Occupations

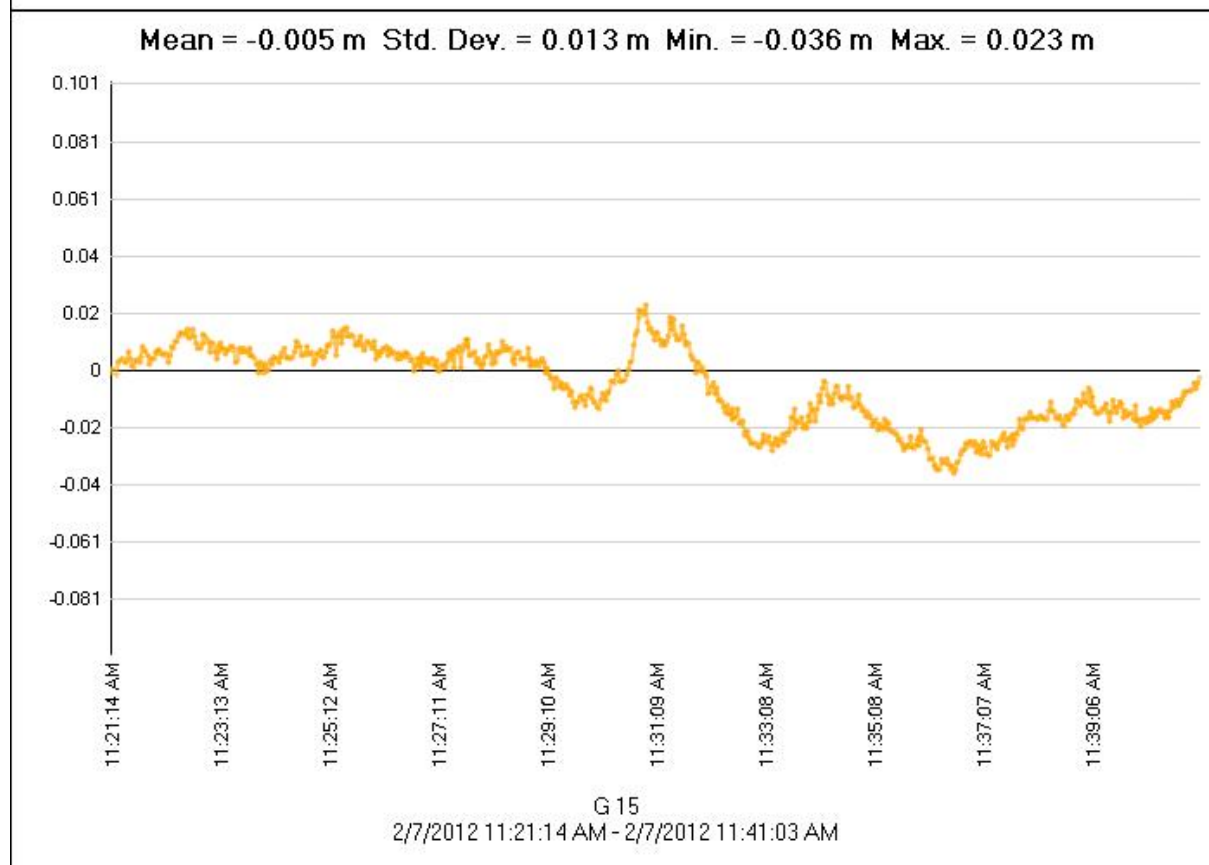
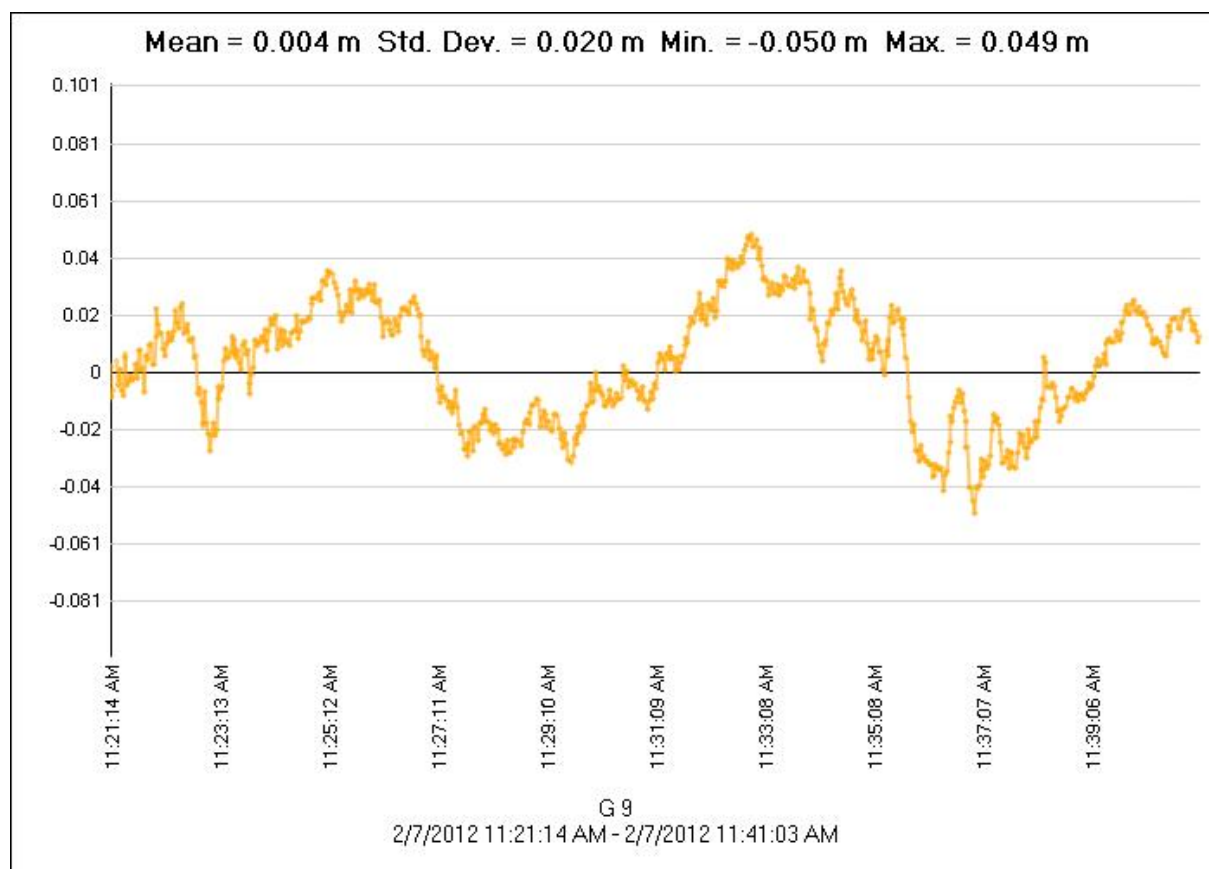
	From	To
Point ID:	HH0162	SVA56-B2
Data file:	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00010380.12o	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00080385.12o
Receiver type:	Unknown	Unknown
Receiver serial number:		
Antenna type:	Unknown External	Unknown External
Antenna serial number:	-----	-----
Antenna height (measured):	1.565 m	2.065 m
Antenna method:	Antenna Phase Center	Antenna Phase Center

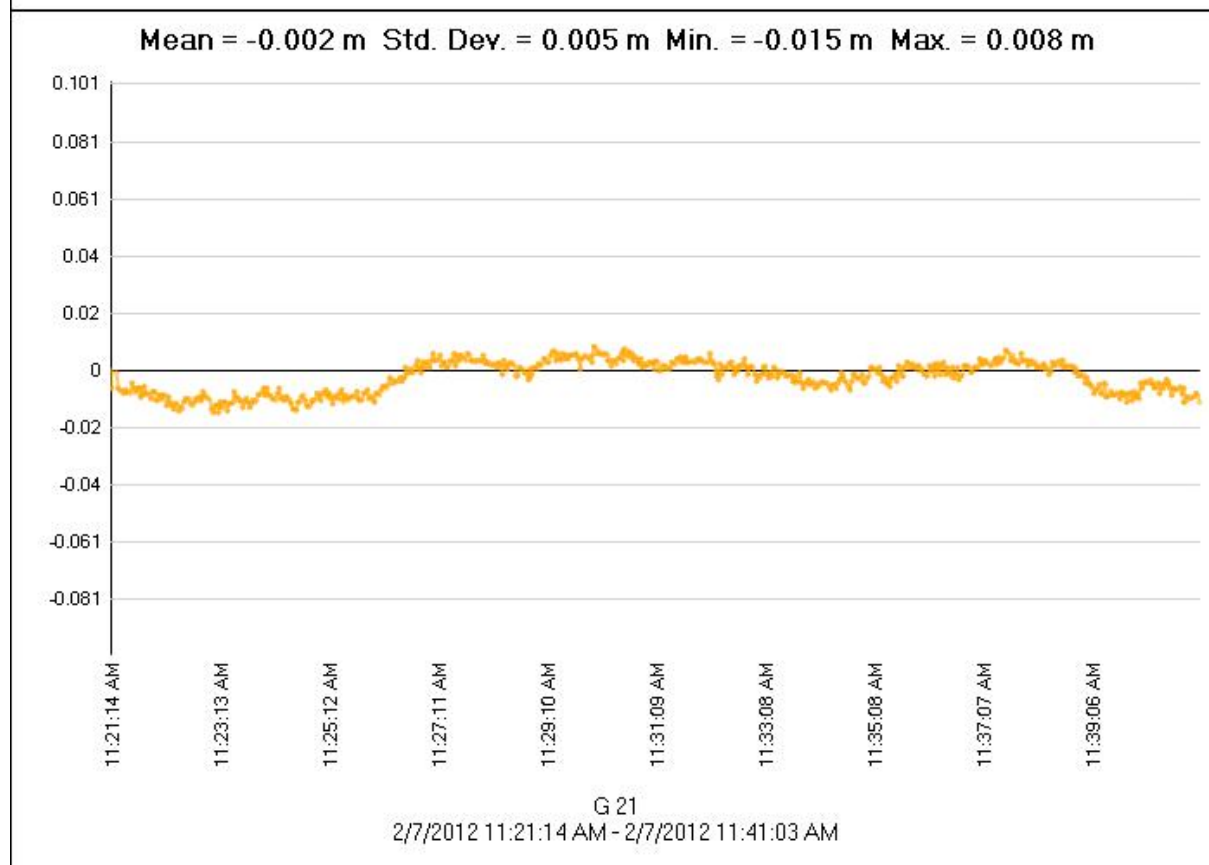
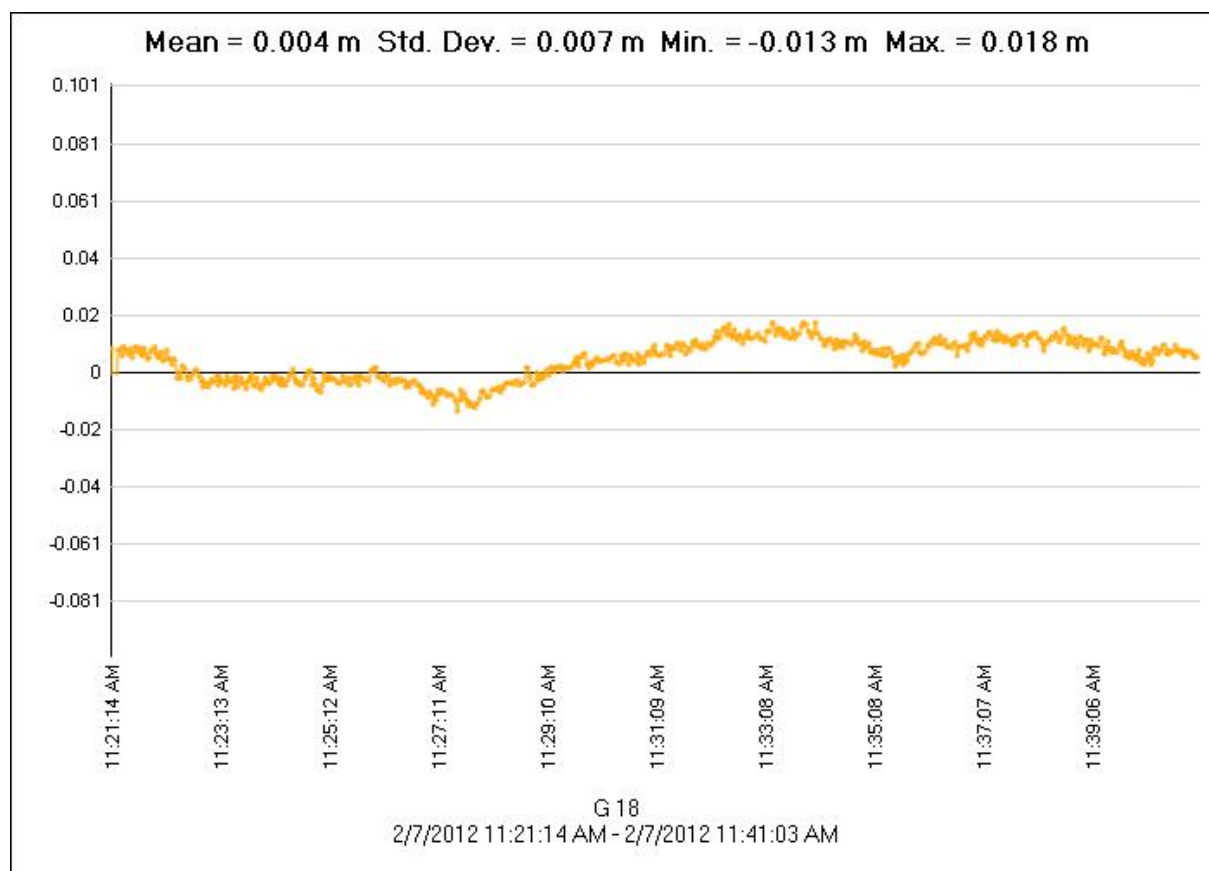
Tracking Summary

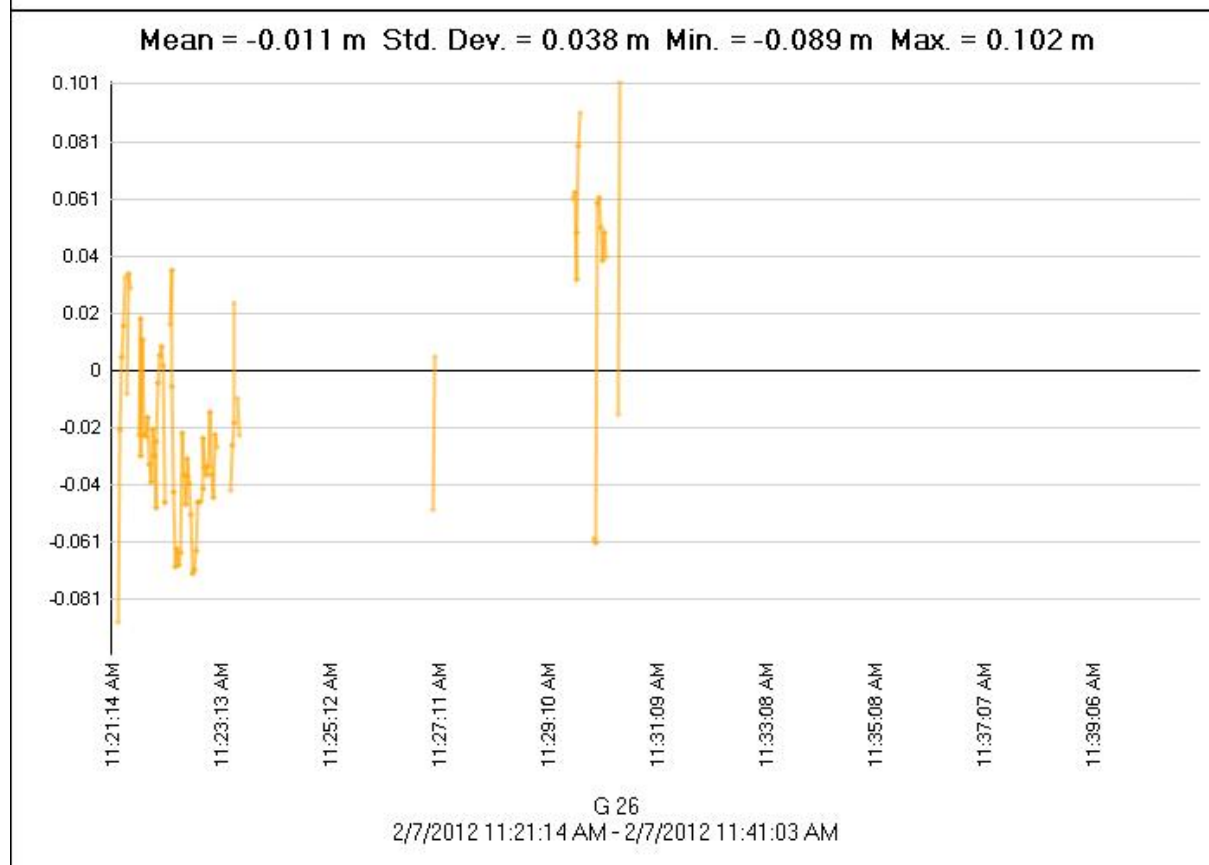
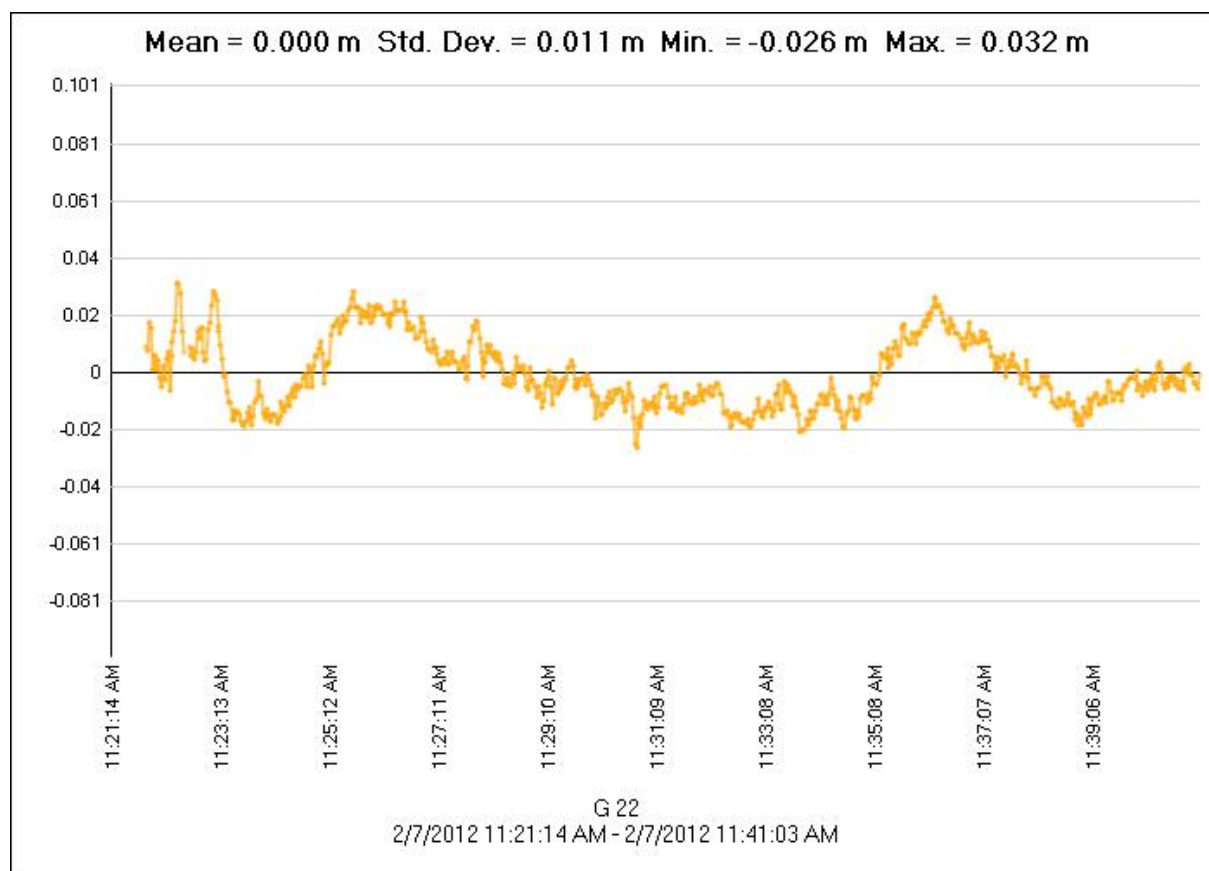
SV	2/7/2012 11:21:11 AM	Duration: 00:19:51.5000000	Major interval: 00:01:00	2/7/2012 11:41:03 AM
G 3	L1 L2			
G 6	L1 L2			
G 9	L1 L2			
G 14	L1 L2			
G 15	L1 L2			
G 16	L1 L2			
G 18	L1 L2			
G 19	L1 L2			
G 21	L1 L2			
G 22	L1 L2			
G 26	L1 L2			
G 27	L1 L2			
G 29	L1 L2			

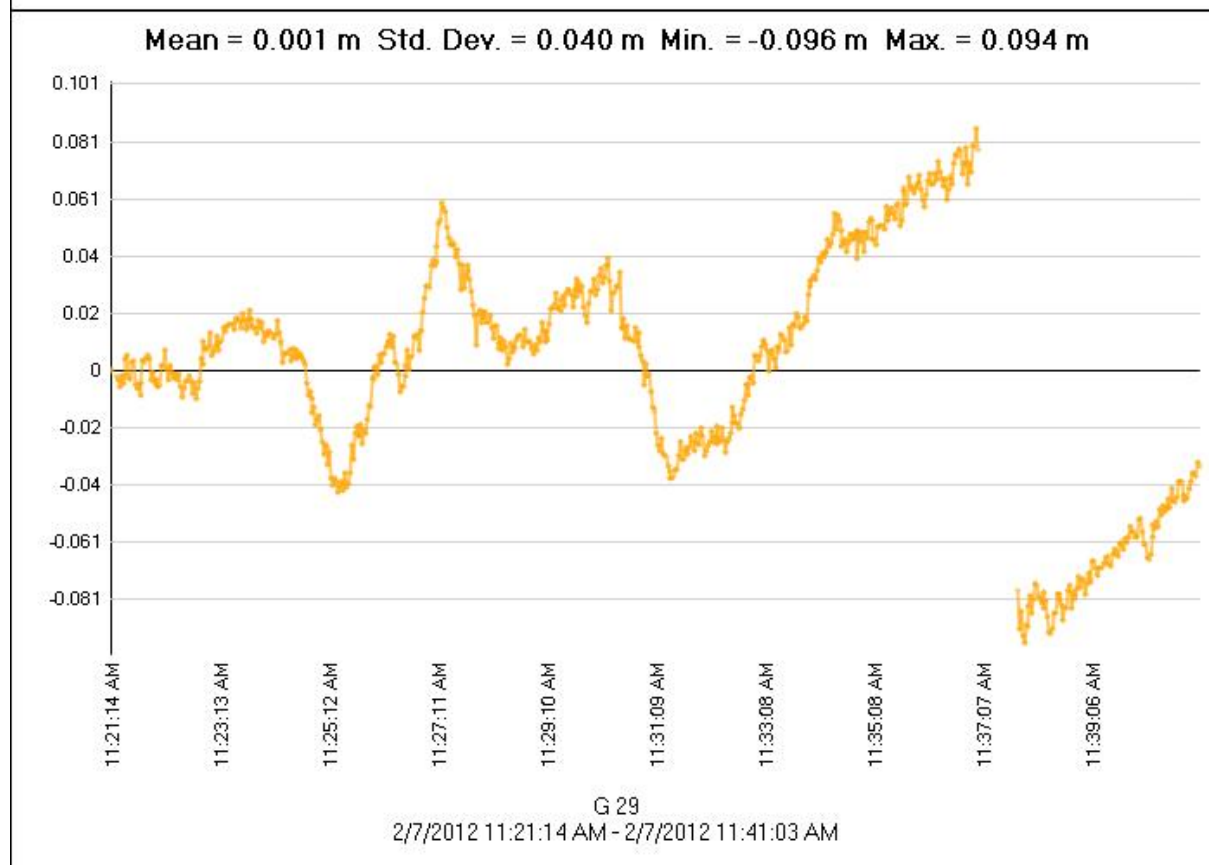
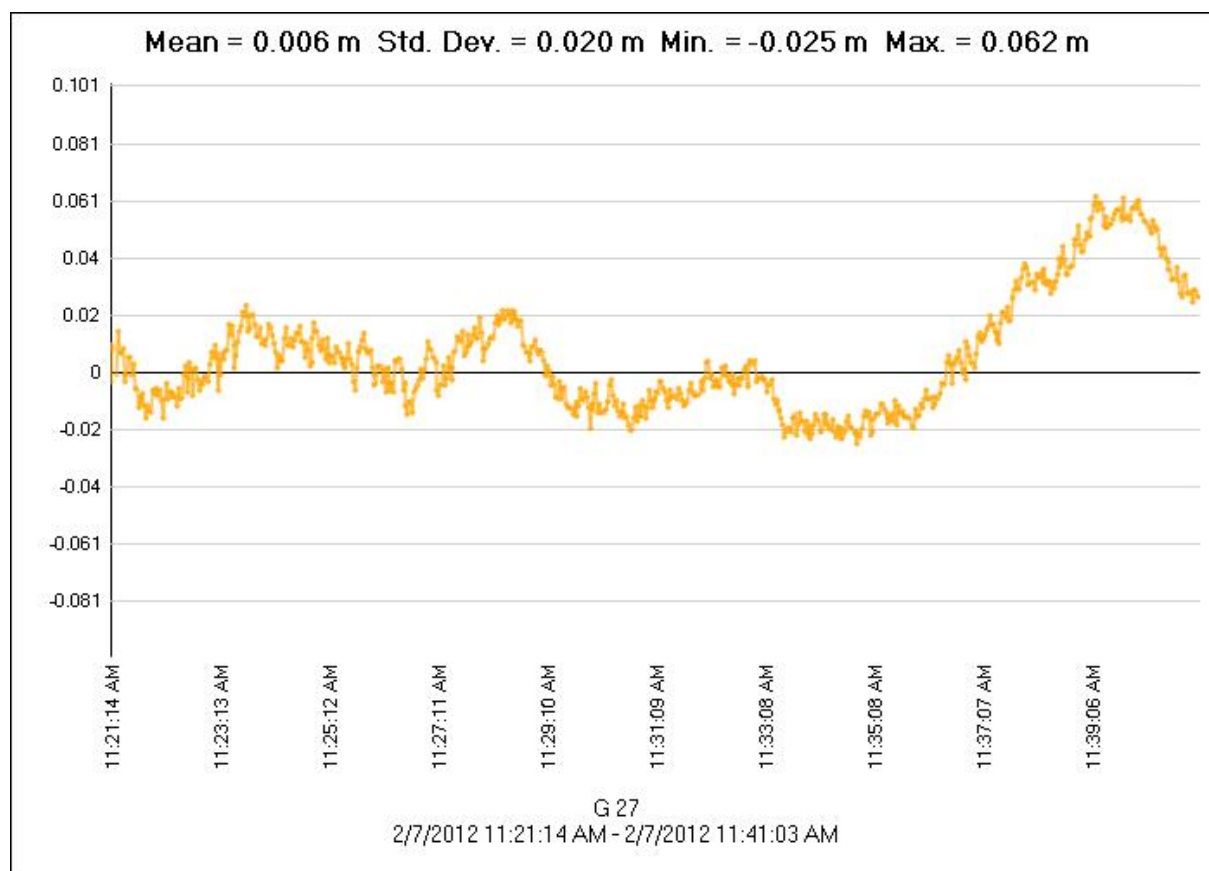
Residuals













Processing style

Elevation mask:	10.0 deg
Auto start processing:	Yes
Start automatic ID numbering:	AUTO0001
Continuous vectors:	No
Generate residuals:	Yes
Antenna model:	Automatic
Ephemeris type:	Automatic
Frequency:	Dual Frequency (L1, L2)
Processing Interval:	Use all data
Force float:	No

Acceptance Criteria

Vector Component	Flag 	Fail 
Horizontal Precision >	0.050 m + 1.000 ppm	0.100 m + 1.000 ppm
Vertical Precision >	0.100 m + 1.000 ppm	0.200 m + 1.000 ppm

Baseline observation: HH0162 --- FVA37-B2-OLD (B46)

Processed: 3/21/2012 10:58:13 AM

Solution type: Fixed

Frequency used: Dual Frequency (L1, L2)

Horizontal precision: 0.029 m

Vertical precision: 0.028 m

RMS: 0.011 m

Maximum PDOP: 2.846

Ephemeris used: Broadcast

Antenna model: US National Geodetic Survey Calibration

Processing start time: 2/7/2012 12:01:57 PM (Local: UTC-7hr)

Processing stop time: 2/7/2012 12:22:26 PM (Local: UTC-7hr)

Processing duration: 00:20:28

Processing interval: .5 second

Vector Components (Mark to Mark)

From:	HH0162				
Grid		Local		Global	
Easting	334883.094 m	Latitude	N37°57'51.89981"	Latitude	N37°57'51.89980"
Northing	4203533.480 m	Longitude	W100°52'46.80868"	Longitude	W100°52'46.80868"
Elevation	875.739 m	Height	850.245 m	Height	850.245 m

To:	FVA37-B2-OLD				
Grid		Local		Global	
Easting	363343.063 m	Latitude	N37°54'01.42314"	Latitude	N37°54'01.42314"
Northing	4195902.611 m	Longitude	W100°33'15.68595"	Longitude	W100°33'15.68595"
Elevation	872.254 m	Height	846.571 m	Height	846.571 m

Vector					
9Ughb[	28459.969 m	NS Fwd Azimuth	103°51'13"	L	27292.111 m
Bcfh\jb[	-7630.869 m	Ellipsoid Dist.	29468.734 m	M	-9608.780 m
9Yj Uhcb	-3.484 m	<Y][\h	-3.674 m	N	-5607.812 m

Standard Errors

Vector errors:					
Point ID	0.005 m	Point ID	0°00'00"	Point ID	0.005 m
Point ID	0.012 m	Point ID	0.005 m	Point ID	0.012 m
Point ID	0.014 m	Point ID	0.014 m	Point ID	0.014 m

Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0000299569		
Y	0.0000316101	0.0001455352	
Z	0.0000016864	-0.0000418518	0.0001882855

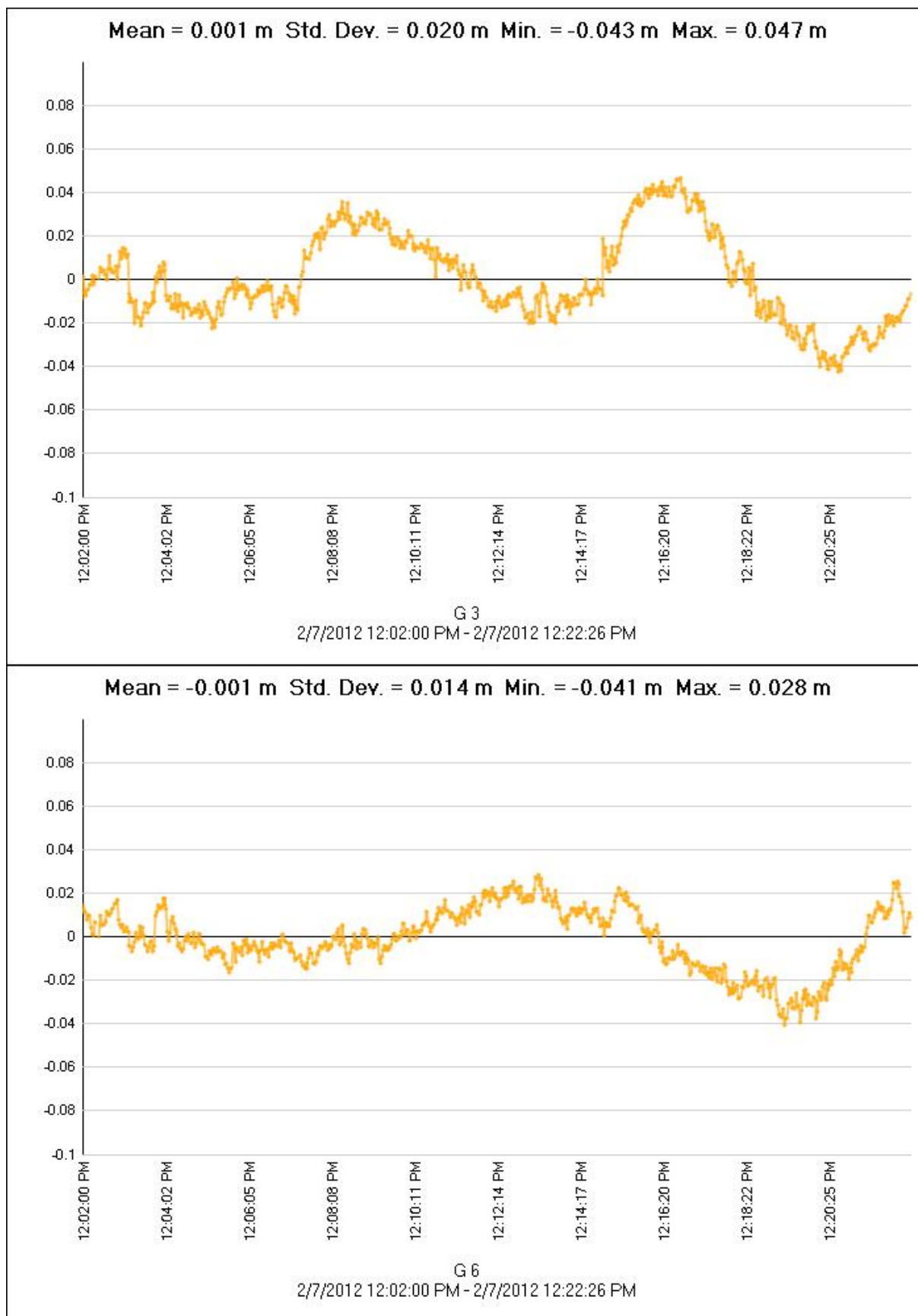
Occupations

	From	To
Point ID:	HH0162	FVA37-B2-OLD
Data file:	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00010380.12o	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00080386.12o
Receiver type:	Unknown	Unknown
Receiver serial number:		
Antenna type:	Unknown External	Unknown External
Antenna serial number:	-----	-----
Antenna height (measured):	1.565 m	2.065 m
Antenna method:	Antenna Phase Center	Antenna Phase Center

Tracking Summary

SV	2/7/2012 12:01:57 PM	Duration: 00:20:28.5000000	Major interval: 00:01:00	2/7/2012 12:22:26 PM
G 3				
G 6				
G 9				
G 14				
G 15				
G 18				
G 19				
G 21				
G 22				
G 27				
G 29				

Residuals



Mean = -0.005 m Std. Dev. = 0.010 m Min. = -0.030 m Max. = 0.017 m



G 9

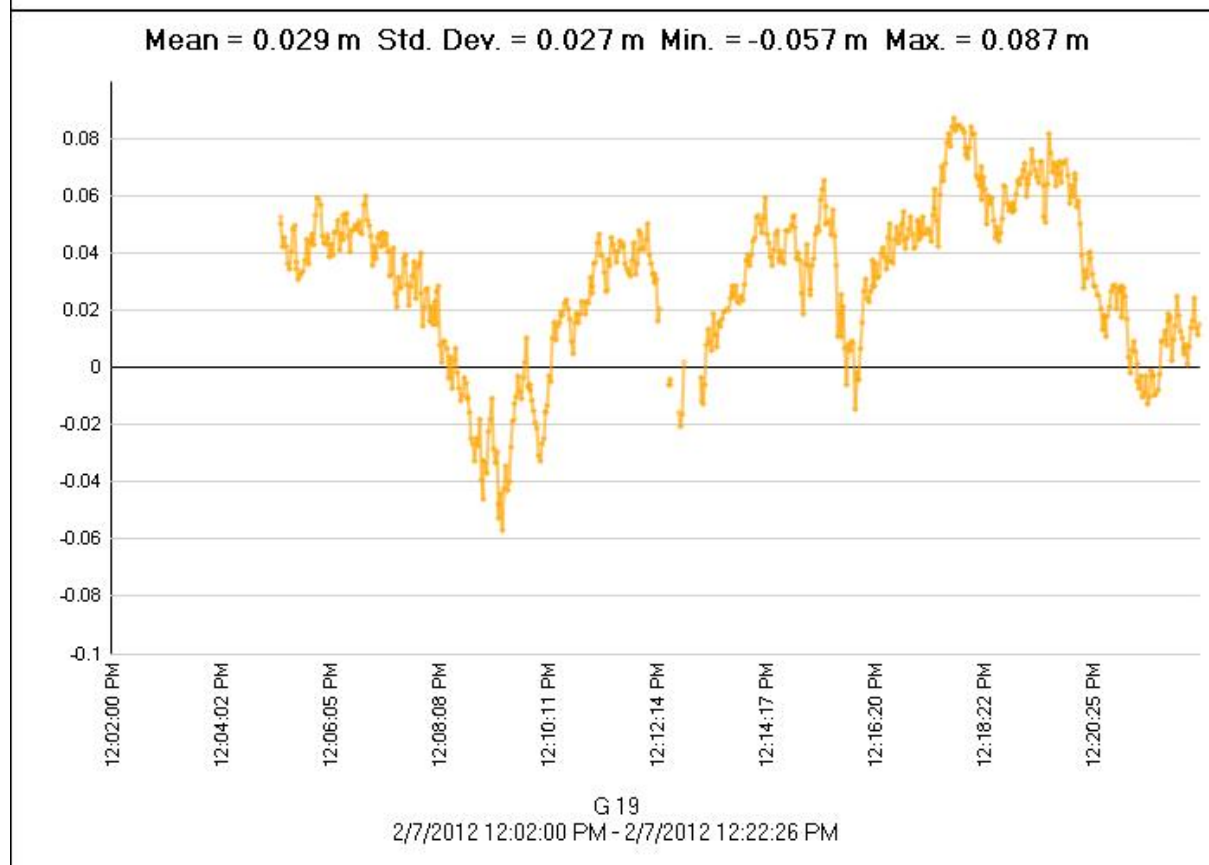
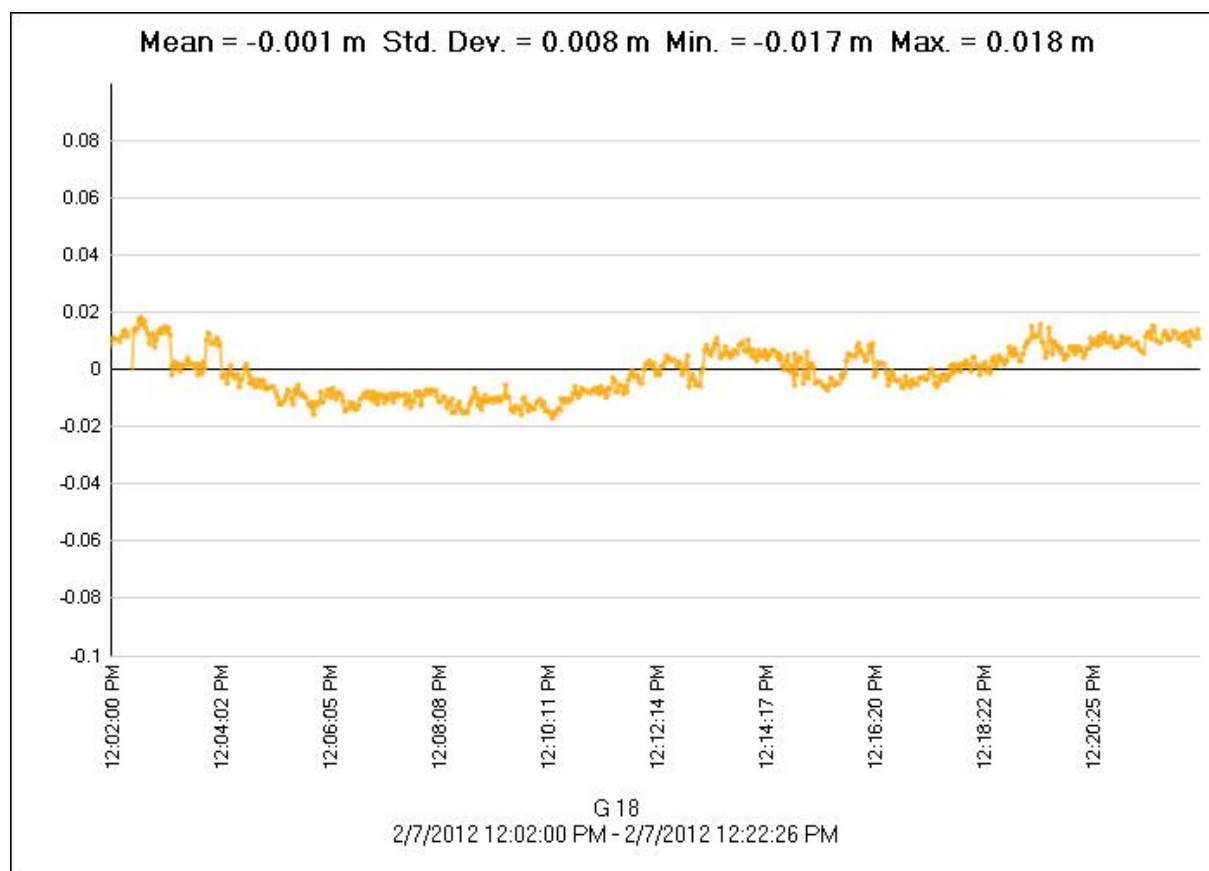
2/7/2012 12:02:00 PM - 2/7/2012 12:22:26 PM

Mean = 0.004 m Std. Dev. = 0.039 m Min. = -0.092 m Max. = 0.095 m



G 15

2/7/2012 12:02:00 PM - 2/7/2012 12:22:26 PM

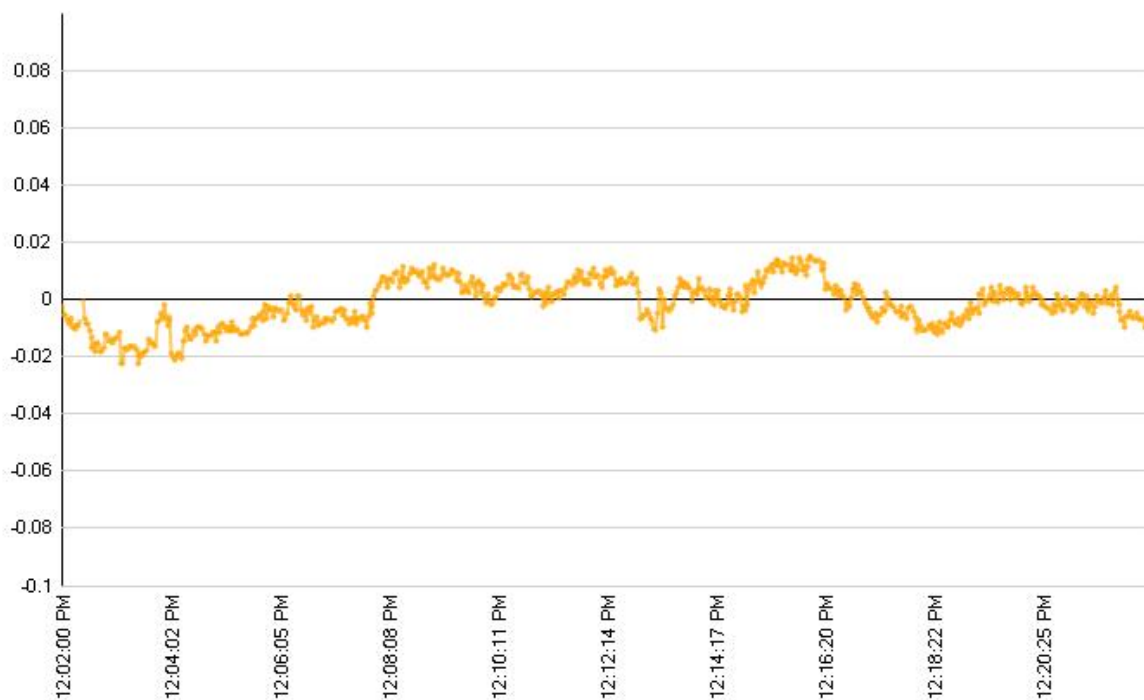


Mean = 0.002 m Std. Dev. = 0.007 m Min. = -0.018 m Max. = 0.018 m

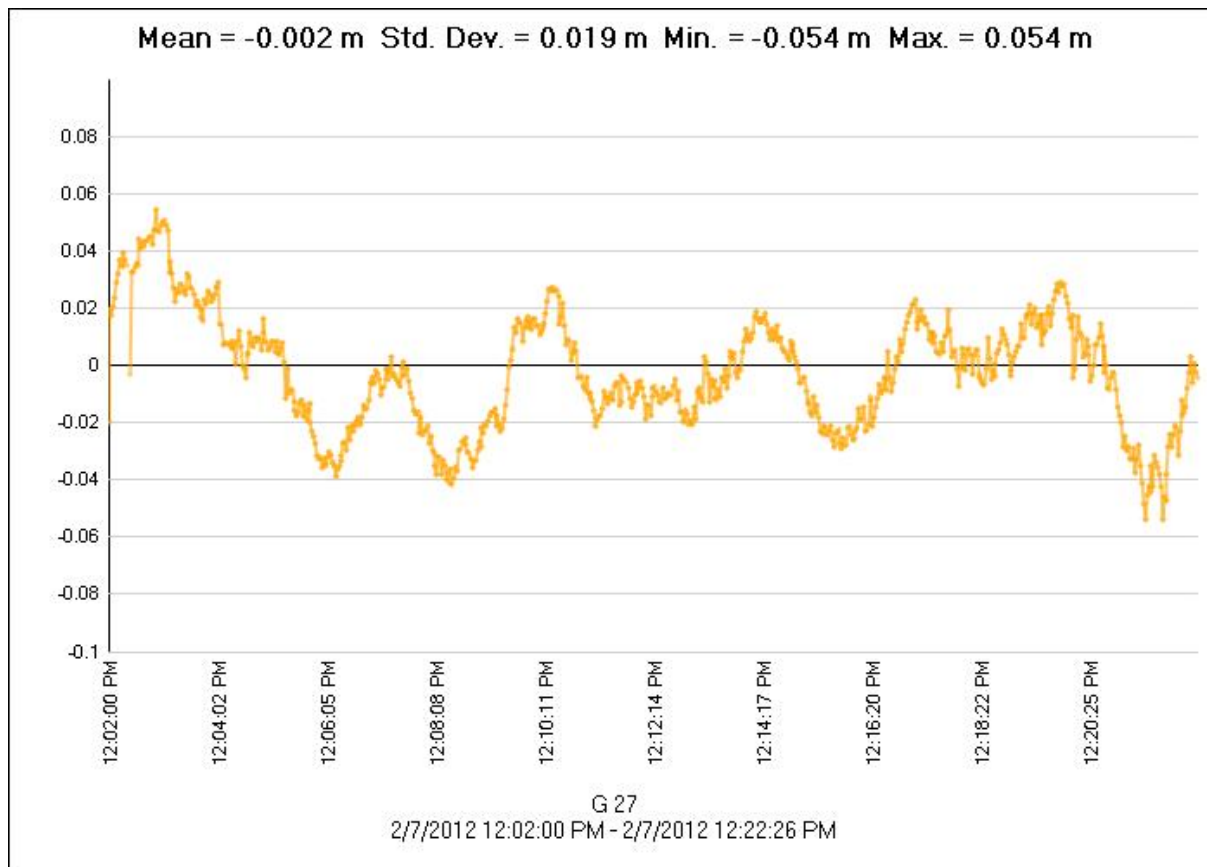


G 21
2/7/2012 12:02:00 PM - 2/7/2012 12:22:26 PM

Mean = -0.001 m Std. Dev. = 0.007 m Min. = -0.022 m Max. = 0.015 m



G 22
2/7/2012 12:02:00 PM - 2/7/2012 12:22:26 PM



Processing style

Elevation mask:	10.0 deg
Auto start processing:	Yes
Start automatic ID numbering:	AUTO0001
Continuous vectors:	No
Generate residuals:	Yes
Antenna model:	Automatic
Ephemeris type:	Automatic
Frequency:	Dual Frequency (L1, L2)
Processing Interval:	Use all data
Force float:	No

Acceptance Criteria

Vector Component	Flag 	Fail 
Horizontal Precision >	0.050 m + 1.000 ppm	0.100 m + 1.000 ppm
Vertical Precision >	0.100 m + 1.000 ppm	0.200 m + 1.000 ppm

HH0162 - SVA37-B2 (12:26:24 PM-12:45:46 PM) (S47)

Baseline observation: HH0162 --- SVA37-B2 (B47)

Processed: 3/21/2012 10:58:14 AM

Solution type: Fixed

Frequency used: Dual Frequency (L1, L2)

Horizontal precision: 0.011 m

Vertical precision: 0.017 m

RMS: 0.007 m

Maximum PDOP: 2.758

Ephemeris used: Broadcast

Antenna model: US National Geodetic Survey Calibration

Processing start time: 2/7/2012 12:26:24 PM (Local: UTC-7hr)

Processing stop time: 2/7/2012 12:45:46 PM (Local: UTC-7hr)

Processing duration: 00:19:21

Processing interval: .5 second

Vector Components (Mark to Mark)

From:	HH0162				
Grid		Local		Global	
Easting	334883.094 m	Latitude	N37°57'51.89981"	Latitude	N37°57'51.89980"
Northing	4203533.480 m	Longitude	W100°52'46.80868"	Longitude	W100°52'46.80868"
Elevation	875.739 m	Height	850.245 m	Height	850.245 m

To:	SVA37-B2				
Grid		Local		Global	
Easting	363376.802 m	Latitude	N37°54'01.98370"	Latitude	N37°54'01.98369"
Northing	4195919.331 m	Longitude	W100°33'14.31632"	Longitude	W100°33'14.31632"
Elevation	871.762 m	Height	846.079 m	Height	846.079 m

Vector					
9Ughb[	28493.708 m	NS Fwd Azimuth	103°48'19"	L	27327.026 m
Bcfh\jb[	-7614.149 m	Ellipsoid Dist.	29497.007 m	M	-9604.090 m
9`Yj Ufcb	-3.976 m	<Y][\h	-4.166 m	N	-5594.475 m

Standard Errors

Vector errors:					
Point ID	0.003 m	Point ID	0°00'00"	Point ID	0.004 m
Point ID	0.004 m	Point ID	0.003 m	Point ID	0.007 m
Point ID	0.009 m	Point ID	0.009 m	Point ID	0.006 m

Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0000124852		
Y	0.0000166562	0.0000477524	
Z	-0.0000085220	-0.0000247078	0.0000398776

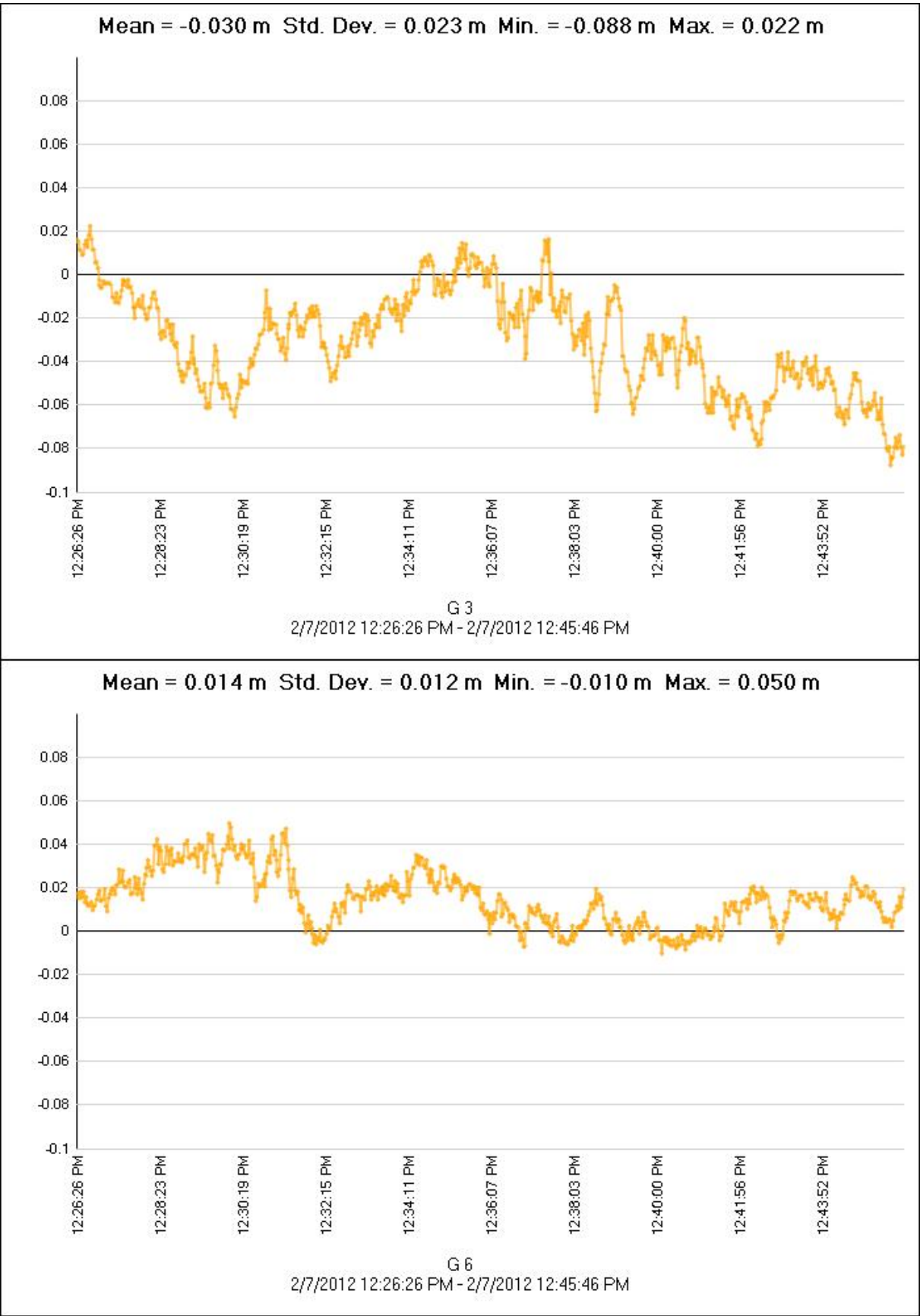
Occupations

	From	To
Point ID:	HH0162	SVA37-B2
Data file:	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00010380.12o	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00080387.12o
Receiver type:	Unknown	Unknown
Receiver serial number:		
Antenna type:	Unknown External	Unknown External
Antenna serial number:	-----	-----
Antenna height (measured):	1.565 m	2.065 m
Antenna method:	Antenna Phase Center	Antenna Phase Center

Tracking Summary

SV	2/7/2012 12:26:24 PM	Duration: 00:19:21.5000000	Major interval: 00:01:00	2/7/2012 12:45:46 PM
G 3				
G 6				
G 9				
G 14				
G 15				
G 18				
G 19				
G 21				
G 22				
G 27				

Residuals



Mean = 0.008 m Std. Dev. = 0.009 m Min. = -0.026 m Max. = 0.030 m



G 9

2/7/2012 12:26:26 PM - 2/7/2012 12:45:46 PM

Mean = -0.009 m Std. Dev. = 0.023 m Min. = -0.095 m Max. = 0.054 m



G 15

2/7/2012 12:26:26 PM - 2/7/2012 12:45:46 PM

Mean = 0.010 m Std. Dev. = 0.006 m Min. = -0.008 m Max. = 0.023 m



G 18

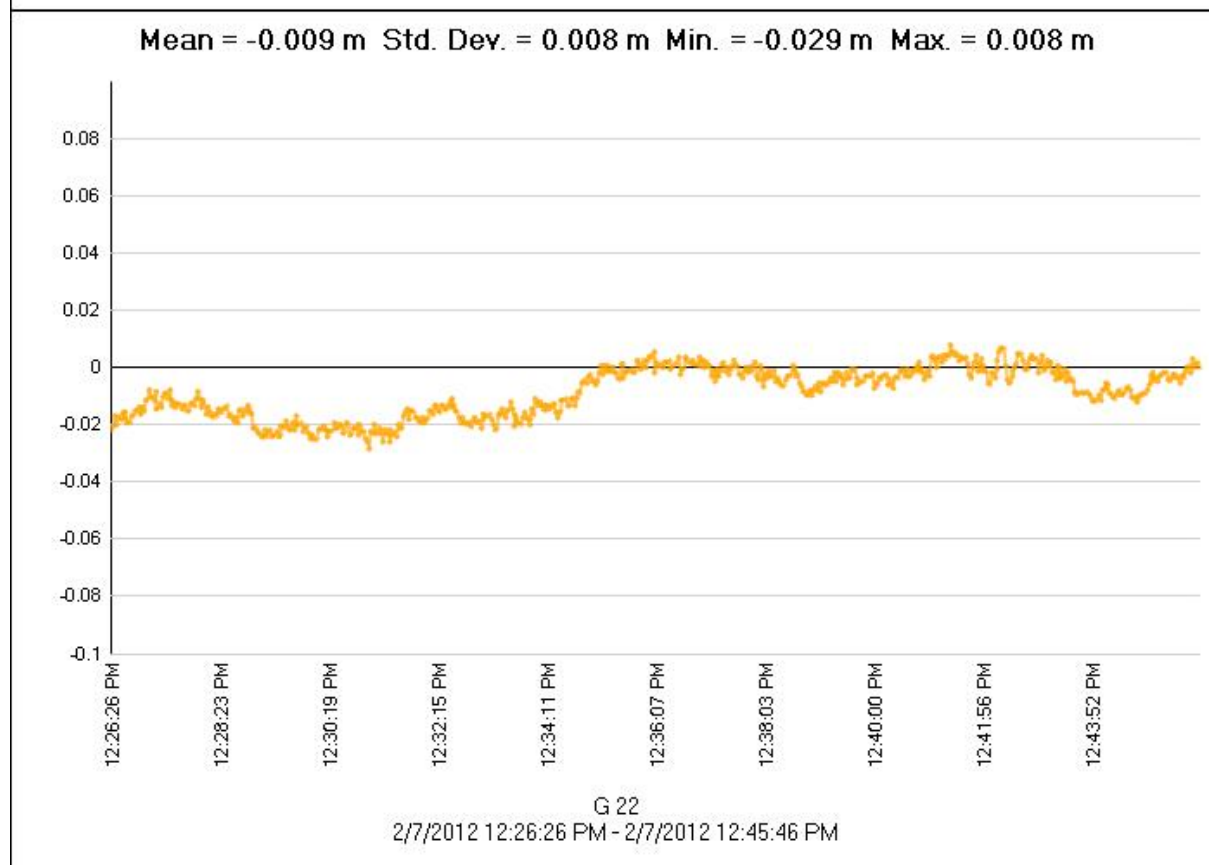
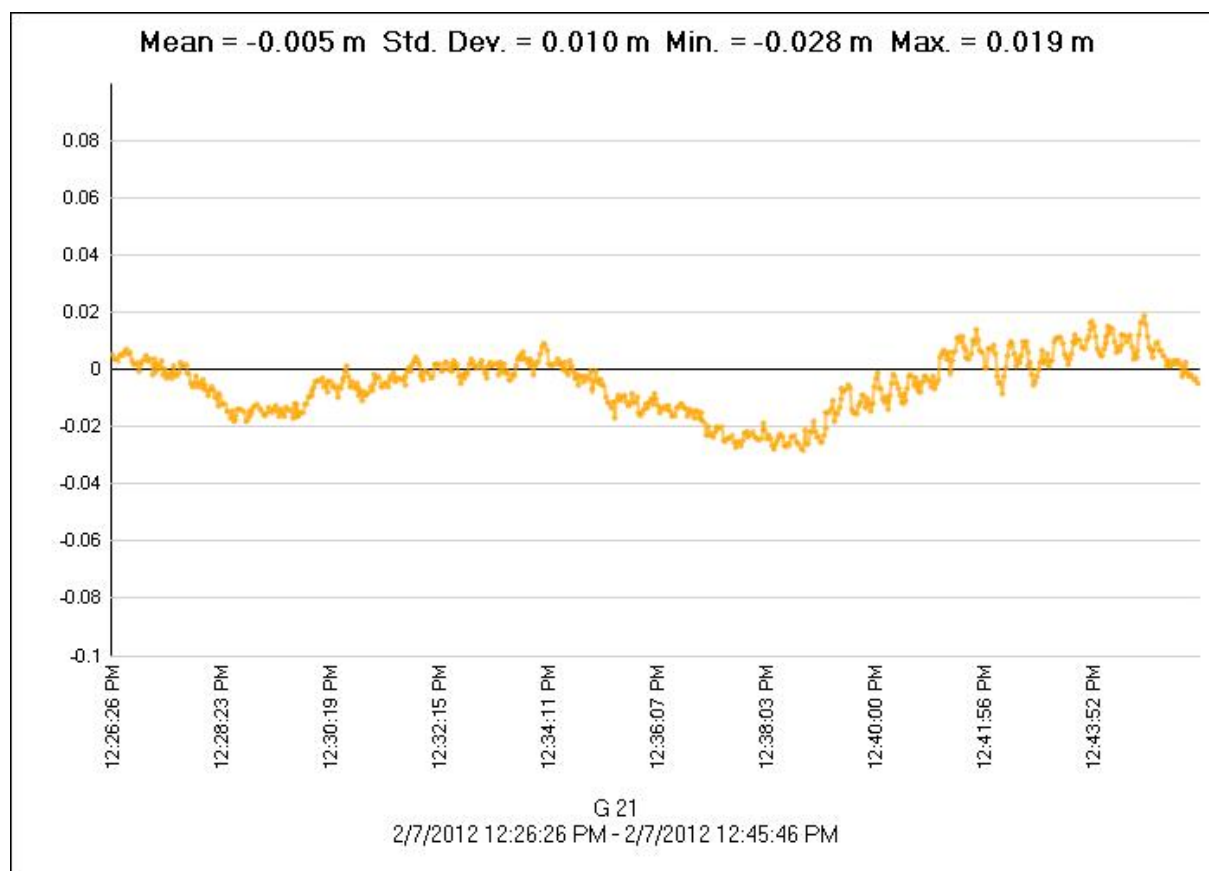
2/7/2012 12:26:26 PM - 2/7/2012 12:45:46 PM

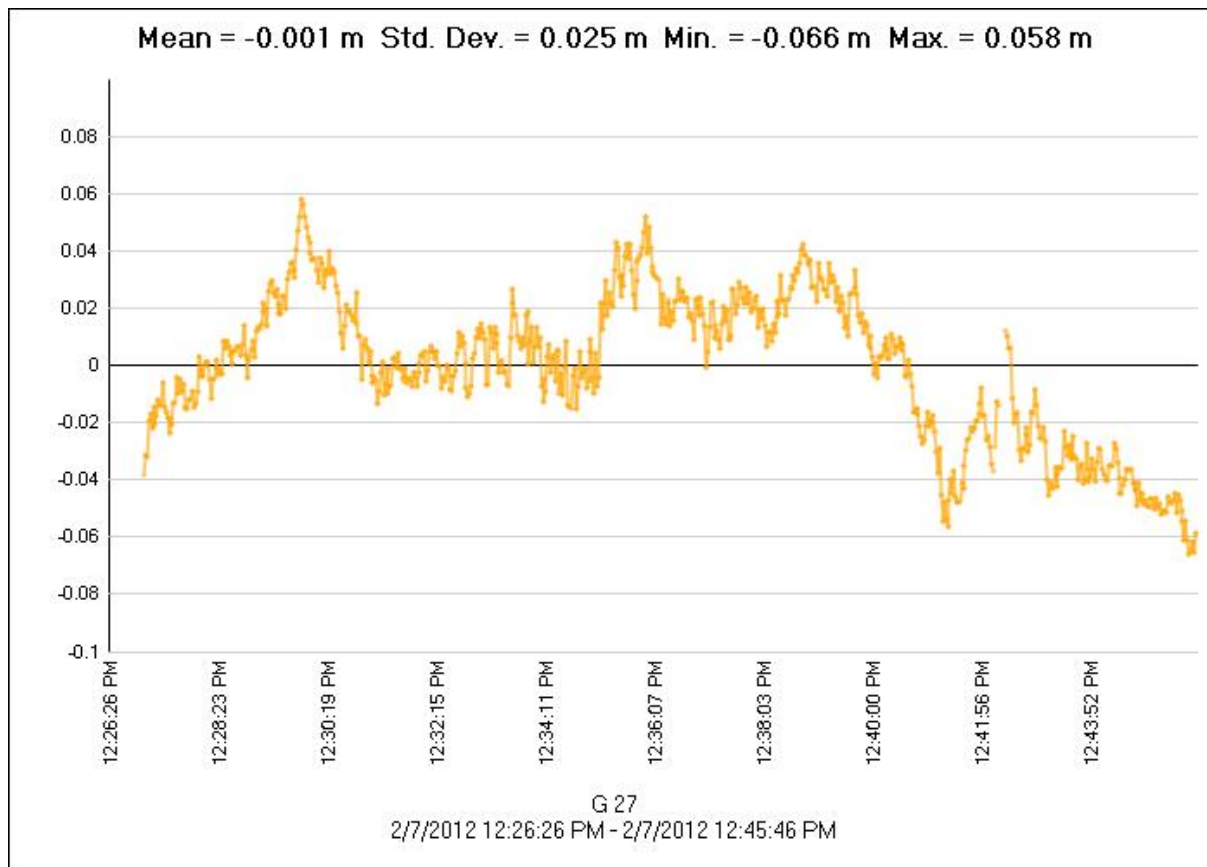
Mean = 0.011 m Std. Dev. = 0.024 m Min. = -0.048 m Max. = 0.069 m



G 19

2/7/2012 12:26:26 PM - 2/7/2012 12:45:46 PM





Processing style

Elevation mask:	10.0 deg
Auto start processing:	Yes
Start automatic ID numbering:	AUTO0001
Continuous vectors:	No
Generate residuals:	Yes
Antenna model:	Automatic
Ephemeris type:	Automatic
Frequency:	Dual Frequency (L1, L2)
Processing Interval:	Use all data
Force float:	No

Acceptance Criteria

Vector Component	Flag 	Fail 
Horizontal Precision >	0.050 m + 1.000 ppm	0.100 m + 1.000 ppm
Vertical Precision >	0.100 m + 1.000 ppm	0.200 m + 1.000 ppm

HH0162 - FVA34-B2 (1:47:09 PM-2:08:40 PM) (S48)

Baseline observation: HH0162 --- FVA34-B2 (B48)

Processed: 3/21/2012 10:58:23 AM

Solution type: Fixed

Frequency used: Dual Frequency (L1, L2)

Horizontal precision: 0.024 m

Vertical precision: 0.028 m

RMS: 0.006 m

Maximum PDOP: 2.014

Ephemeris used: Broadcast

Antenna model: US National Geodetic Survey Calibration

Processing start time: 2/7/2012 1:47:09 PM (Local: UTC-7hr)

Processing stop time: 2/7/2012 2:08:40 PM (Local: UTC-7hr)

Processing duration: 00:21:30

Processing interval: .5 second

Vector Components (Mark to Mark)

From:	HH0162				
Grid		Local		Global	
Easting	334883.094 m	Latitude	N37°57'51.89981"	Latitude	N37°57'51.89980"
Northing	4203533.480 m	Longitude	W100°52'46.80868"	Longitude	W100°52'46.80868"
Elevation	875.739 m	Height	850.245 m	Height	850.245 m

To:	FVA34-B2				
Grid		Local		Global	
Easting	322136.770 m	Latitude	N37°40'42.66344"	Latitude	N37°40'42.66343"
Northing	4172060.838 m	Longitude	W101°01'01.05197"	Longitude	W101°01'01.05197"
Elevation	935.254 m	Height	909.485 m	Height	909.485 m

Vector					
9Ughb[	-12746.324 m	NS Fwd Azimuth	200°53'42"	L	-15574.310 m
Bcfh\jb[	-31472.641 m	Ellipsoid Dist.	33957.070 m	M	-16857.003 m
9Yj Uhcb	59.515 m	<Y][\h	59.240 m	N	-25033.670 m

Standard Errors

Vector errors:					
Point ID	0.005 m	Point Description	0°00'00"	Point Type	0.005 m
Point B	0.009 m	Point C	0.008 m	Point M	0.016 m
Point D	0.015 m	Point E	0.015 m	Point N	0.007 m

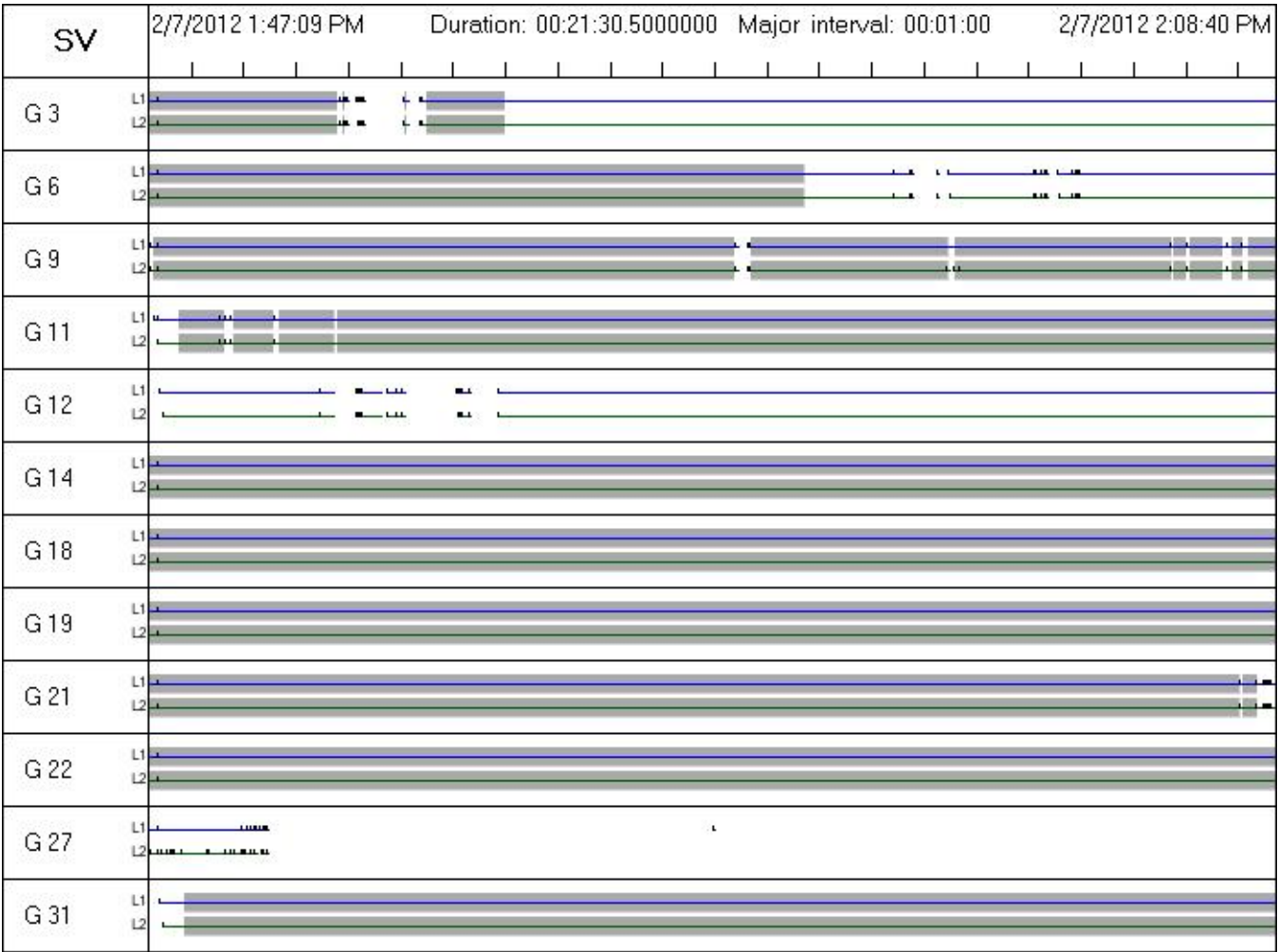
Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0000278617		
Y	0.0000190850	0.0002457674	
Z	-0.0000092967	-0.0000379483	0.0000552744

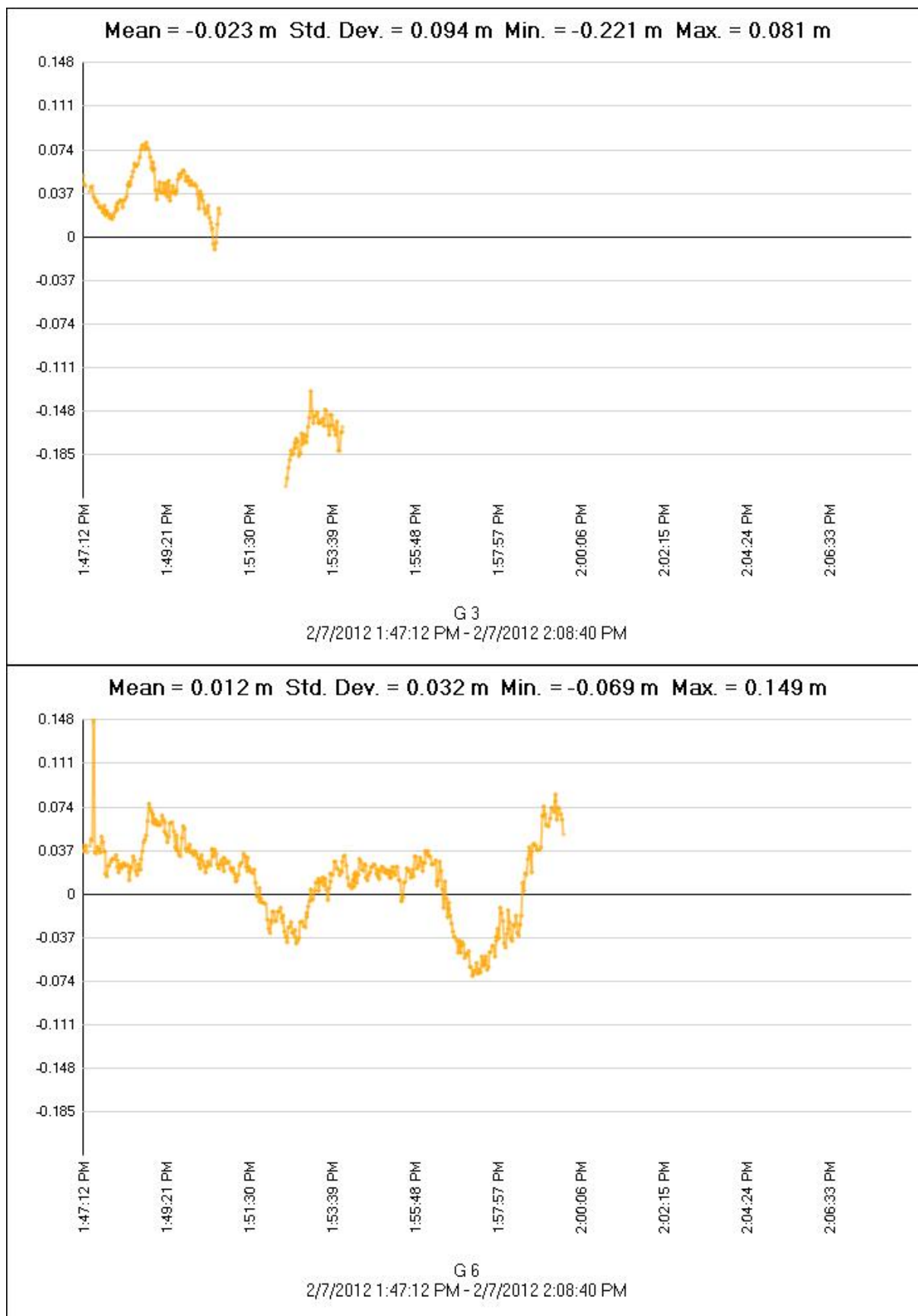
Occupations

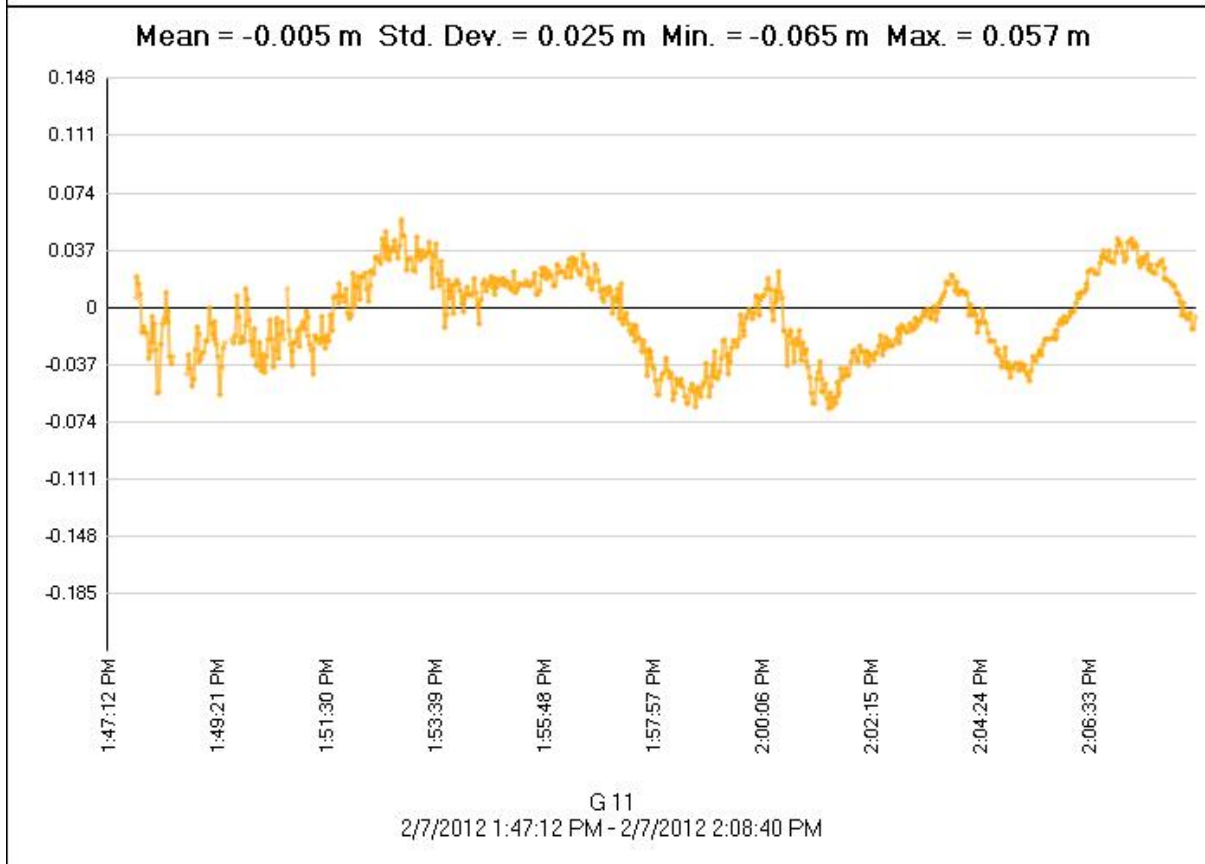
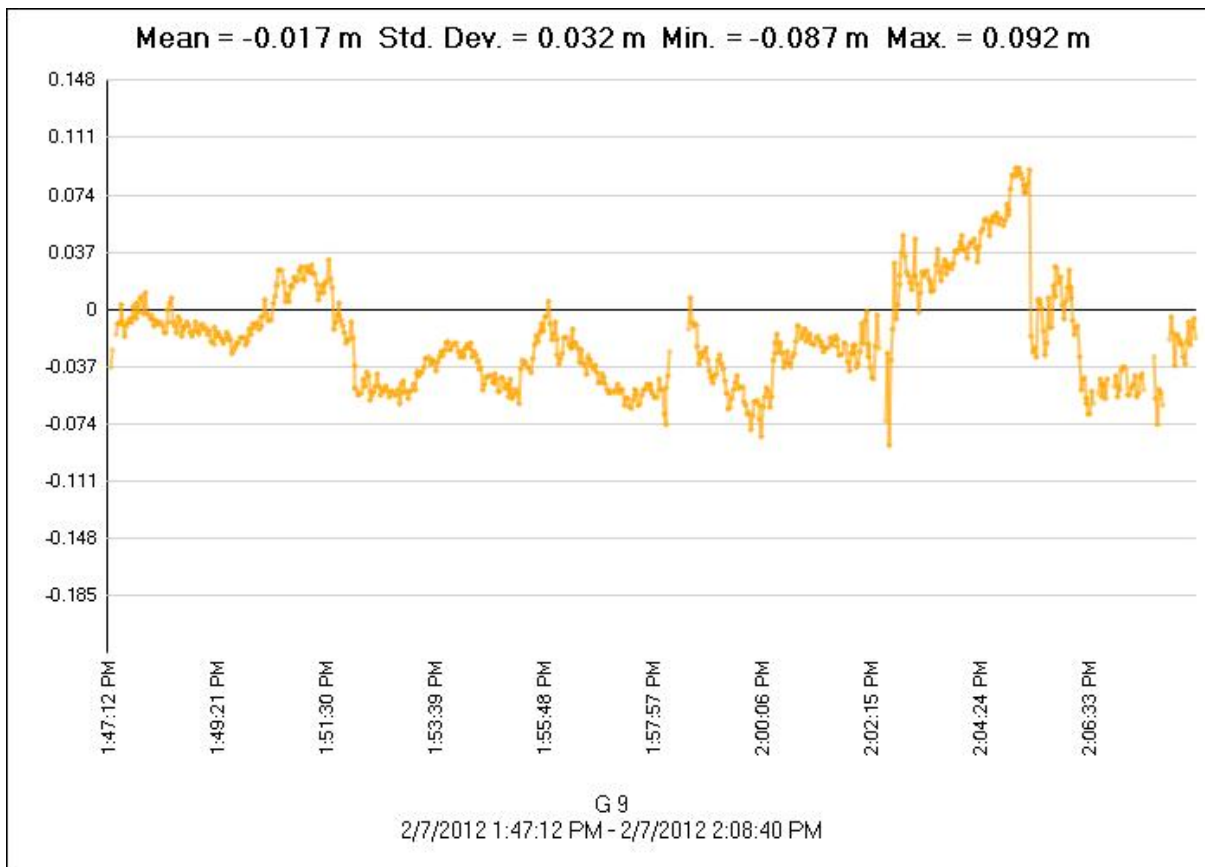
	From	To
Point ID:	HH0162	FVA34-B2
Data file:	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00010380.12o	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00080388.12o
Receiver type:	Unknown	Unknown
Receiver serial number:		
Antenna type:	Unknown External	Unknown External
Antenna serial number:	-----	-----
Antenna height (measured):	1.565 m	2.065 m
Antenna method:	Antenna Phase Center	Antenna Phase Center

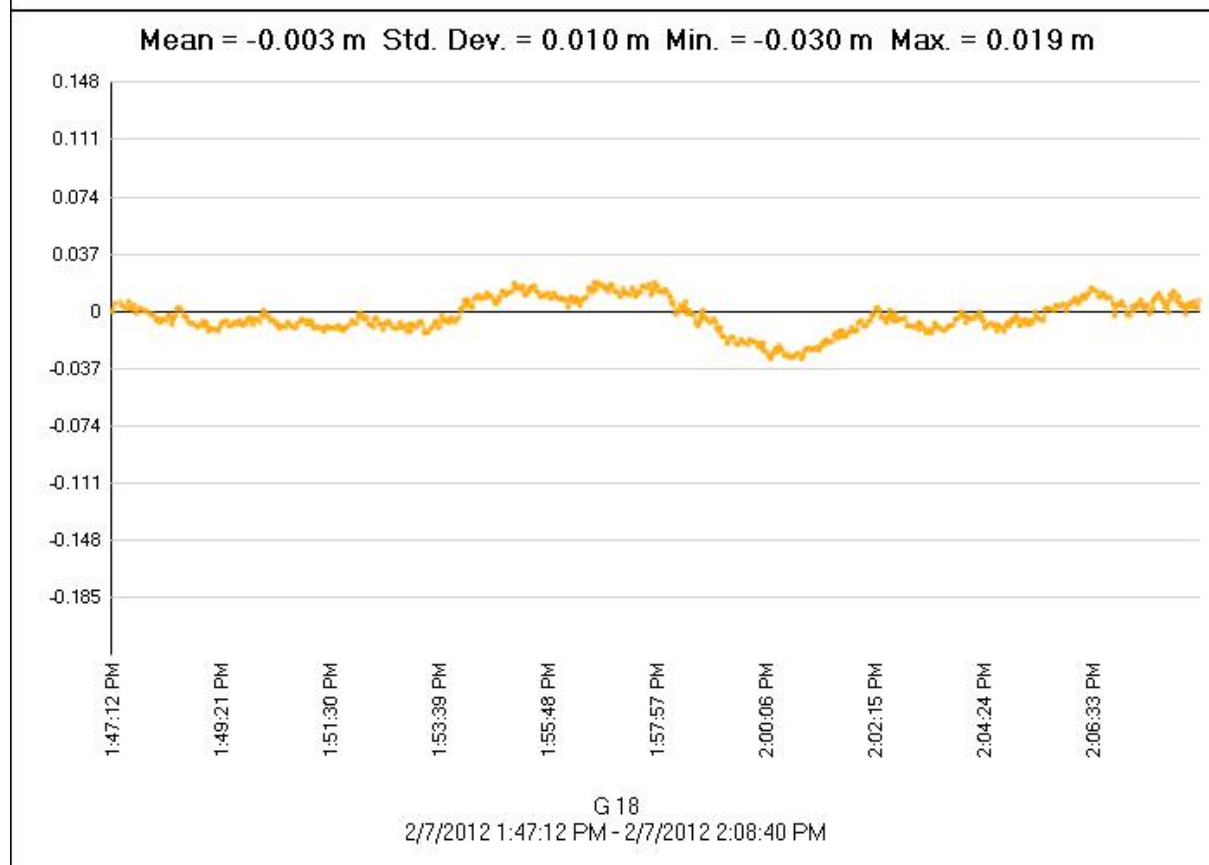
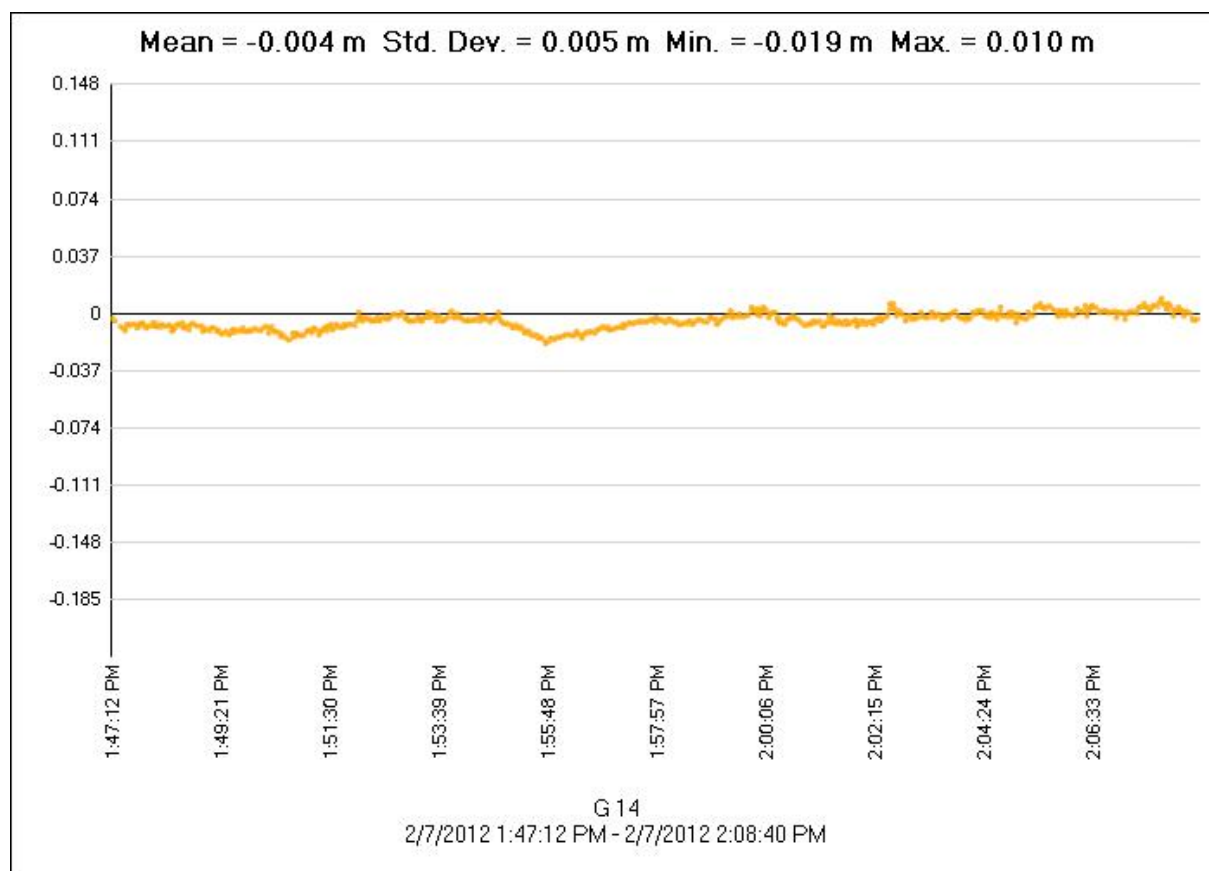
Tracking Summary

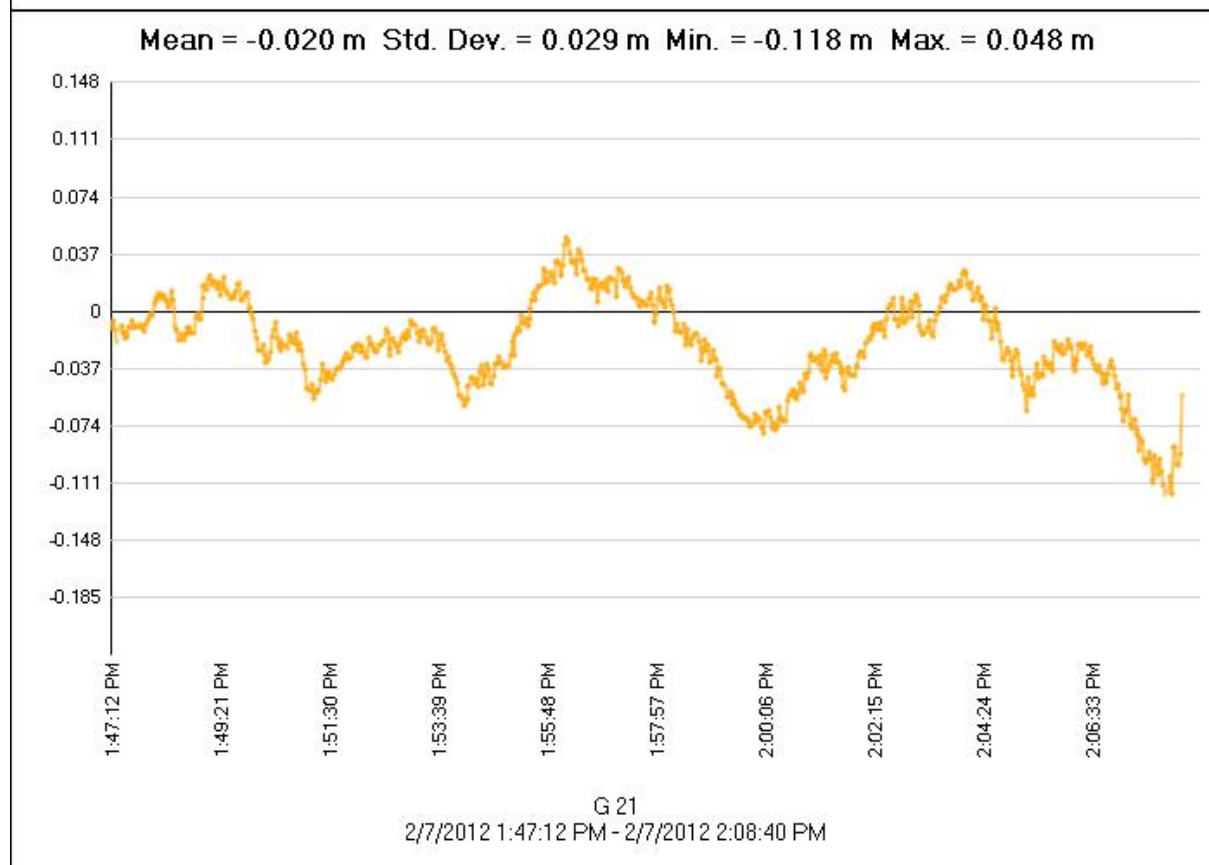
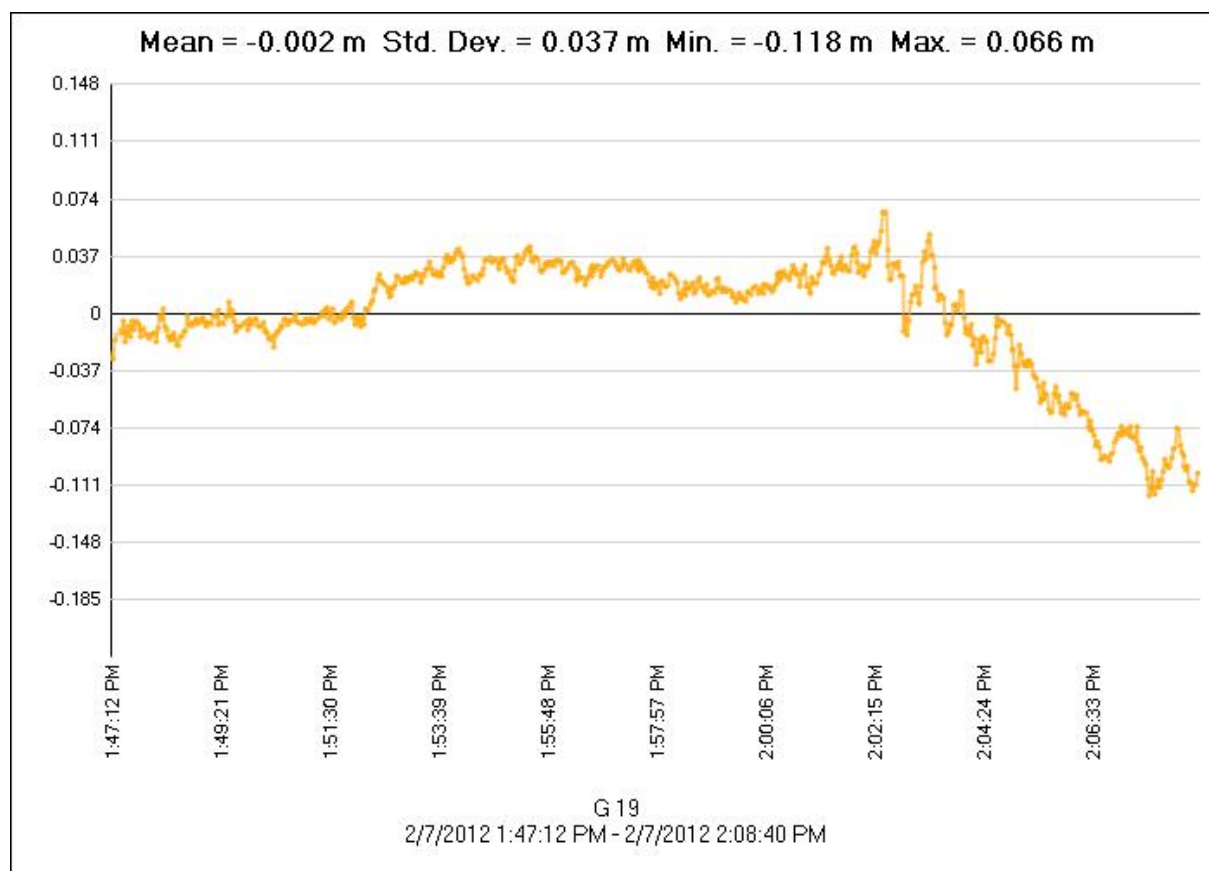


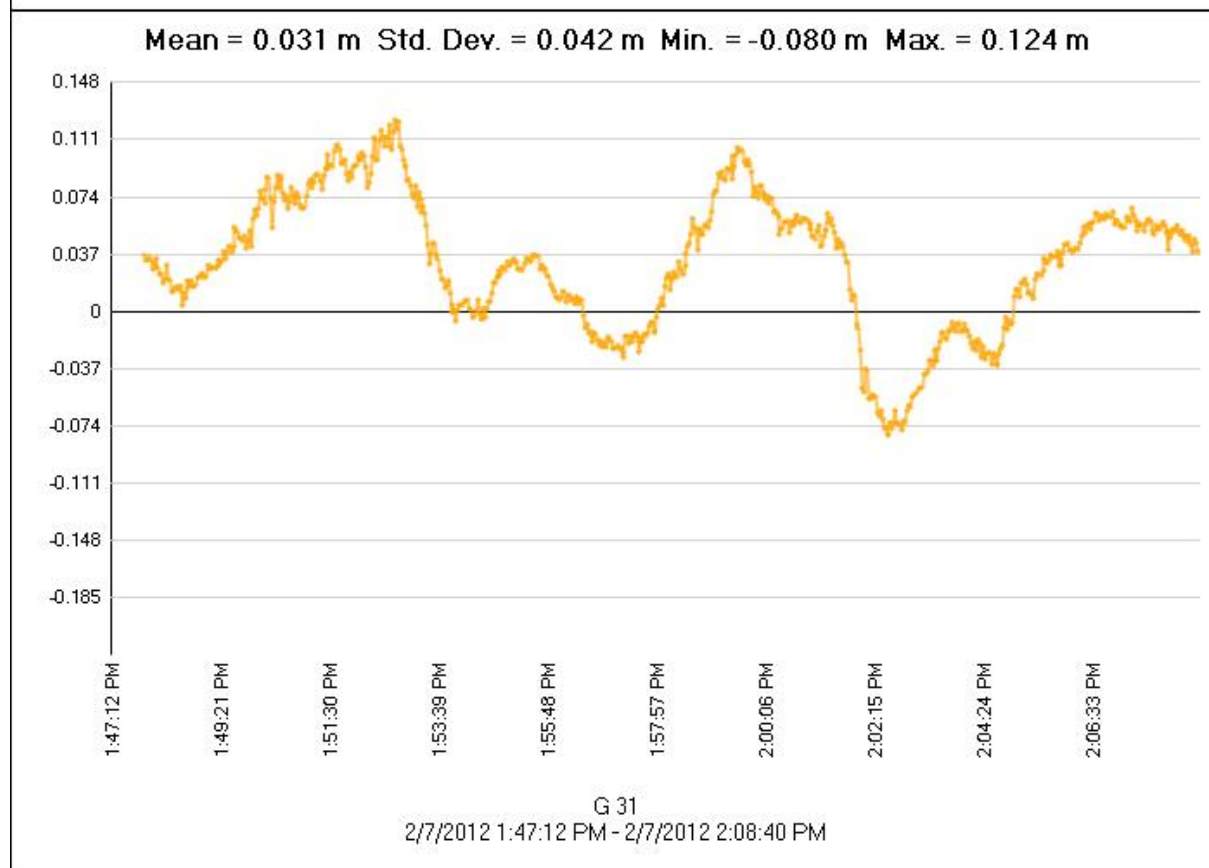
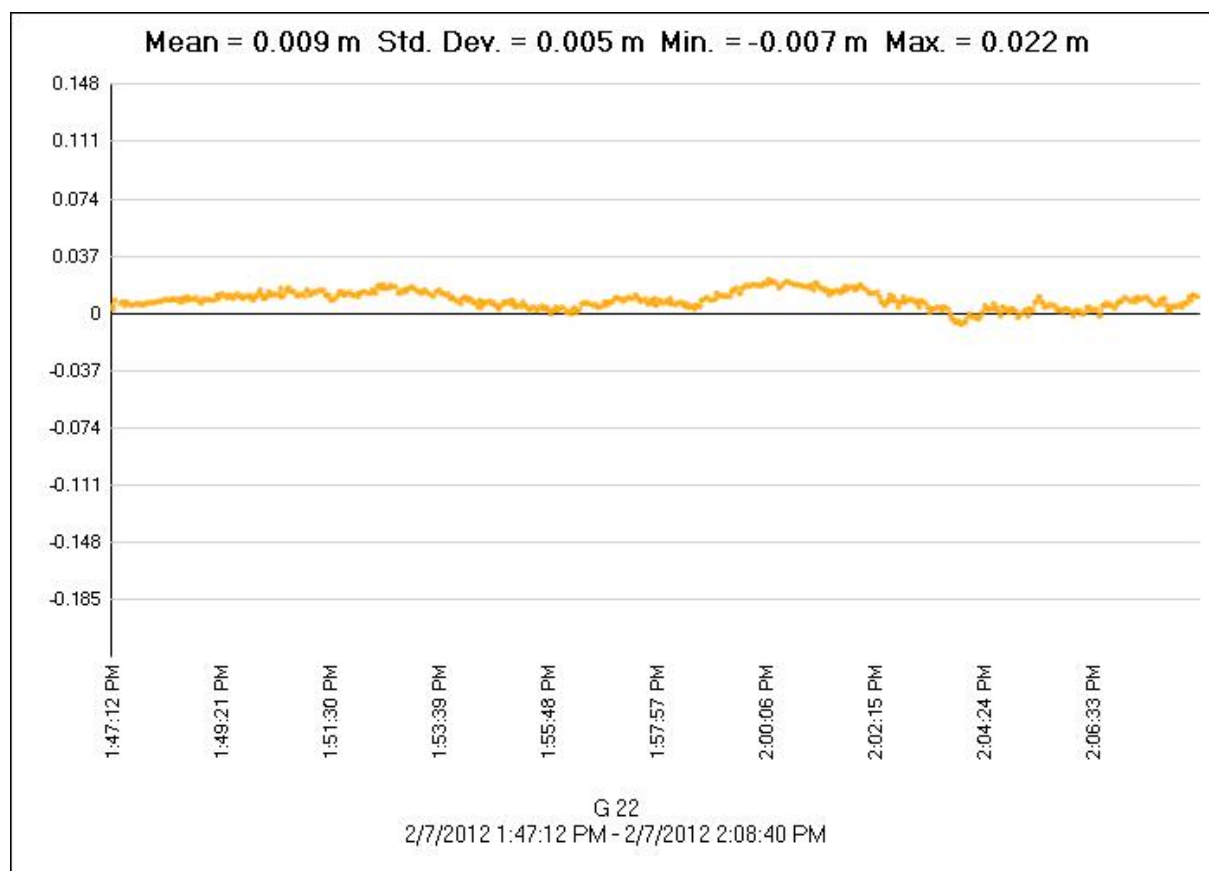
Residuals













Processing style

Elevation mask:	10.0 deg
Auto start processing:	Yes
Start automatic ID numbering:	AUTO0001
Continuous vectors:	No
Generate residuals:	Yes
Antenna model:	Automatic
Ephemeris type:	Automatic
Frequency:	Dual Frequency (L1, L2)
Processing Interval:	Use all data
Force float:	No

Acceptance Criteria

Vector Component	Flag 	Fail 
Horizontal Precision >	0.050 m + 1.000 ppm	0.100 m + 1.000 ppm
Vertical Precision >	0.100 m + 1.000 ppm	0.200 m + 1.000 ppm

HH0162 - SVA34-B2 (2:13:08 PM-2:28:51 PM) (S49)

Baseline observation: HH0162 --- SVA34-B2 (B49)

Processed: 3/21/2012 10:58:09 AM

Solution type: Fixed

Frequency used: Dual Frequency (L1, L2)

Horizontal precision: 0.057 m

Vertical precision: 0.030 m

RMS: 0.009 m

Maximum PDOP: 2.285

Ephemeris used: Broadcast

Antenna model: US National Geodetic Survey Calibration

Processing start time: 2/7/2012 2:13:08 PM (Local: UTC-7hr)

Processing stop time: 2/7/2012 2:28:51 PM (Local: UTC-7hr)

Processing duration: 00:15:42

Processing interval: .5 second

Vector Components (Mark to Mark)

From:	HH0162				
Grid		Local		Global	
Easting	334883.094 m	Latitude	N37°57'51.89981"	Latitude	N37°57'51.89980"
Northing	4203533.480 m	Longitude	W100°52'46.80868"	Longitude	W100°52'46.80868"
Elevation	875.739 m	Height	850.245 m	Height	850.245 m

To:	SVA34-B2				
Grid		Local		Global	
Easting	322094.096 m	Latitude	N37°40'43.29782"	Latitude	N37°40'43.29782"
Northing	4172081.320 m	Longitude	W101°01'02.81106"	Longitude	W101°01'02.81106"
Elevation	935.192 m	Height	909.424 m	Height	909.424 m

Vector					
9Ughb[	-12788.997 m	NS Fwd Azimuth	200°58'29"	L	-15614.332 m
BcfA\jb[	-31452.160 m	Ellipsoid Dist.	33954.135 m	M	-16836.981 m
9Yj Uhcb	59.454 m	<Y][\h	59.179 m	N	-25018.226 m

Standard Errors

Vector errors:					
Point ID	0.010 m	Point ID	0°00'00"	Point ID	0.011 m
Point ID	0.022 m	Point ID	0.023 m	Point ID	0.017 m
Point ID	0.015 m	Point ID	0.015 m	Point ID	0.020 m

Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0001312390		
Y	0.0001226057	0.0002821759	
Z	0.0001403843	0.0000991777	0.0004108813

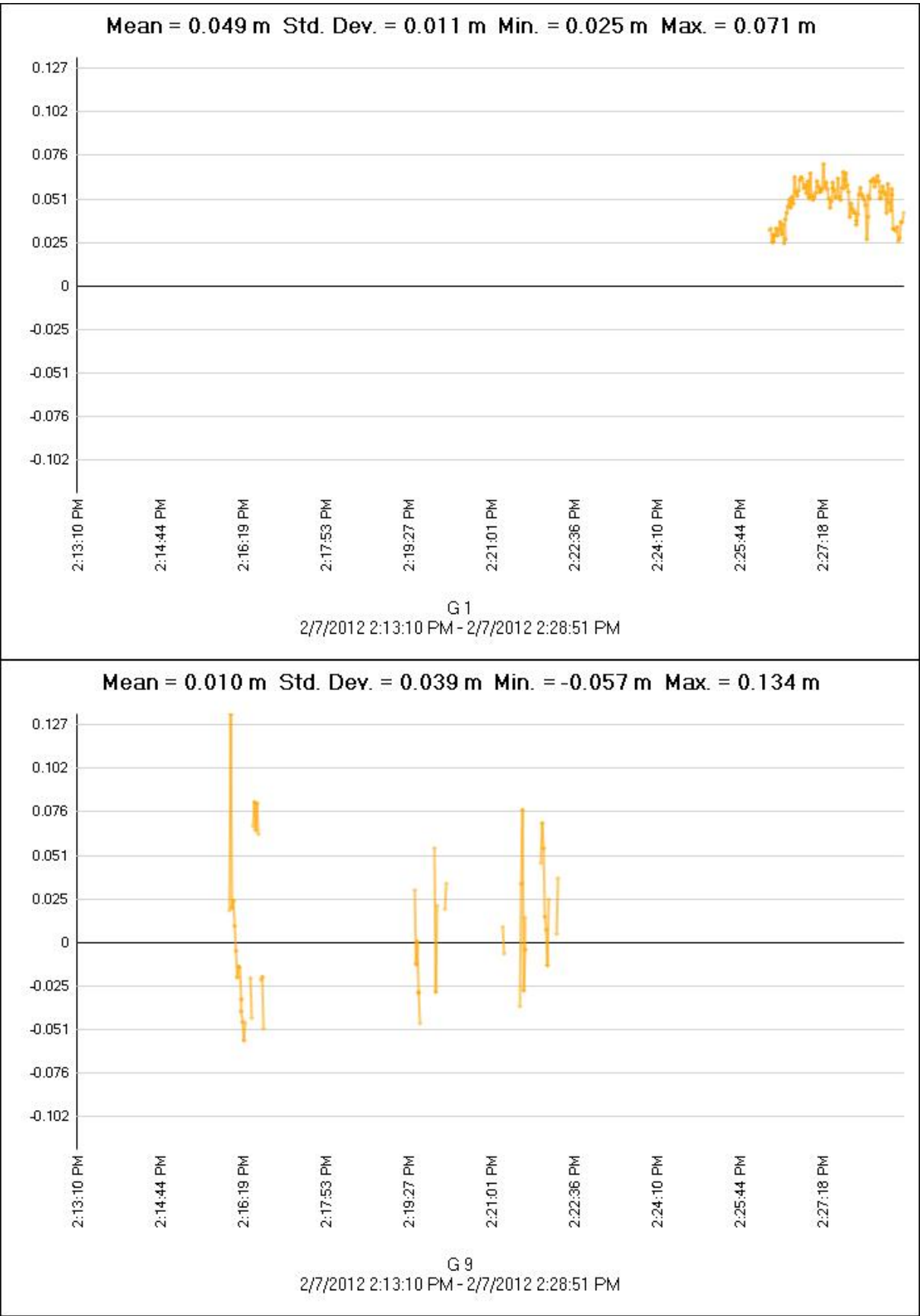
Occupations

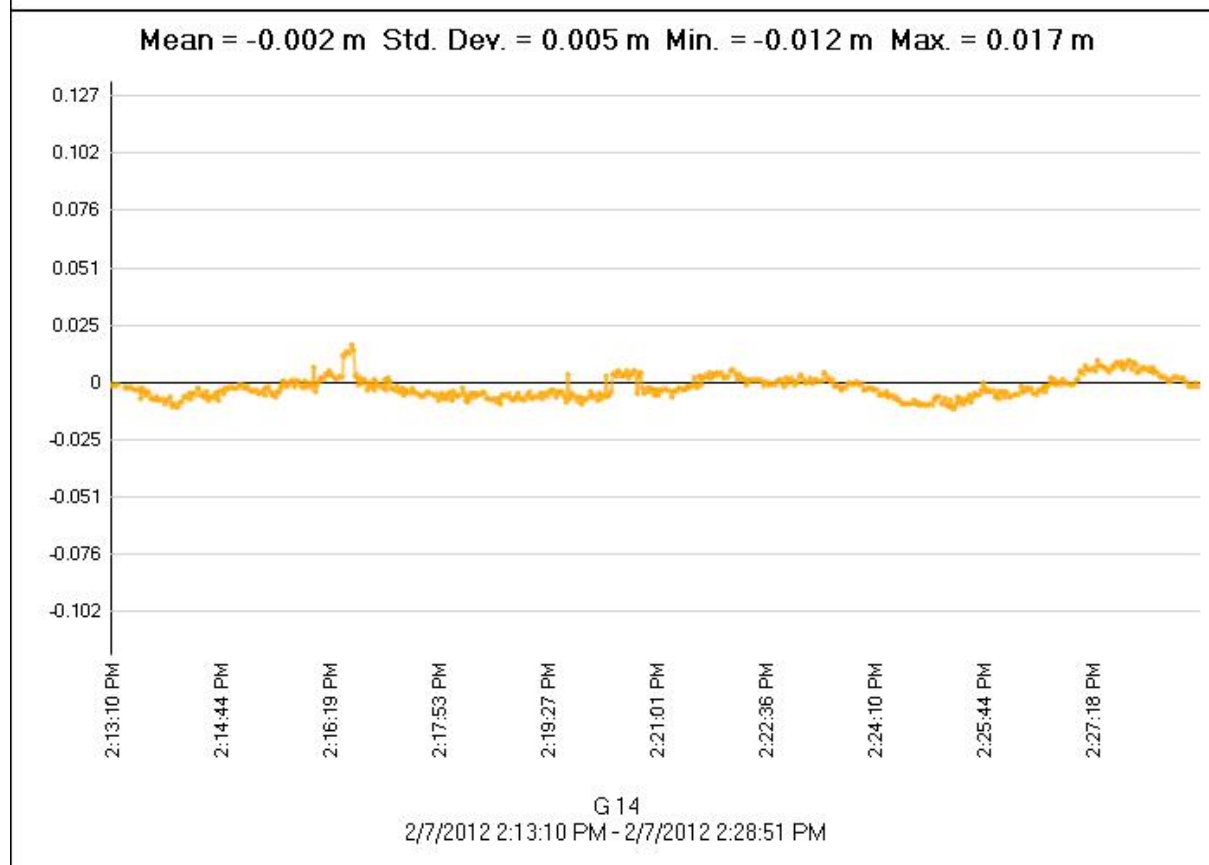
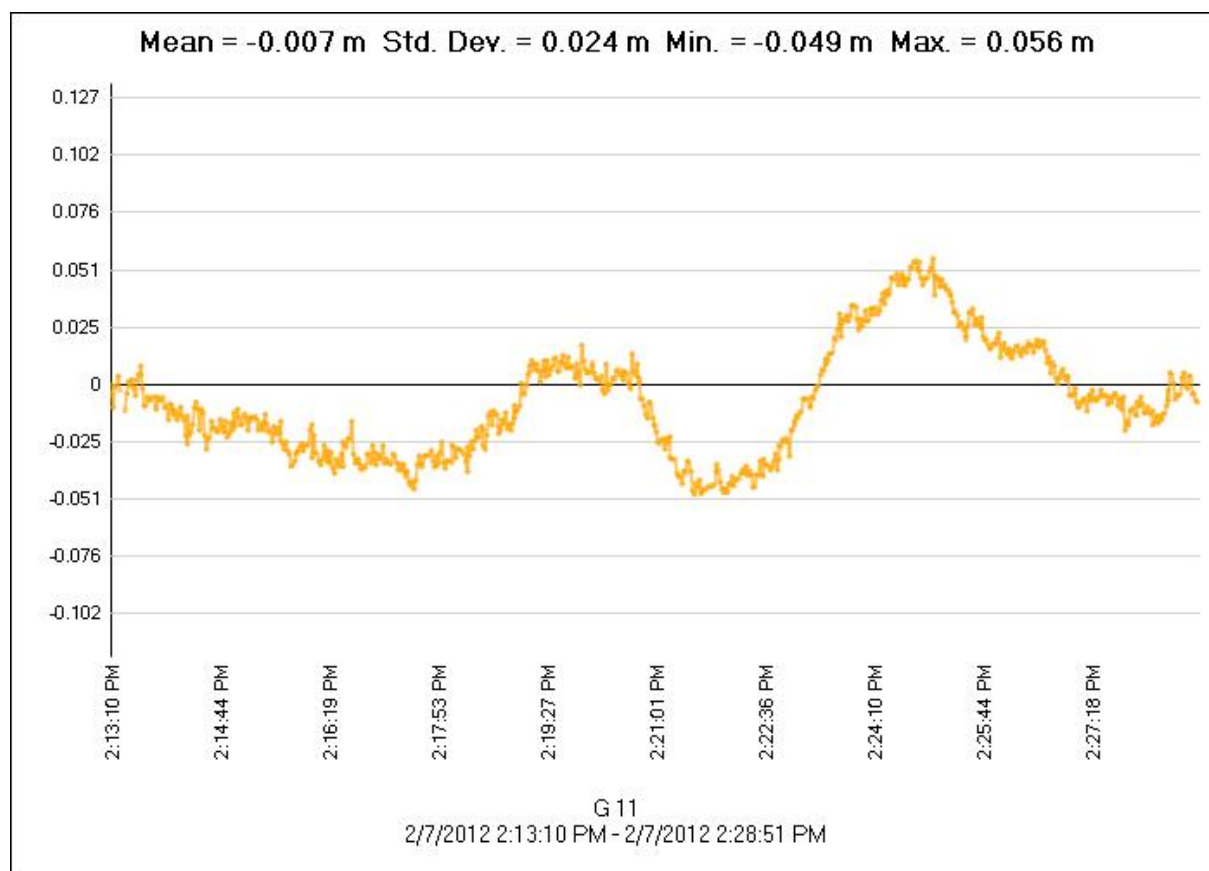
	From	To
Point ID:	HH0162	SVA34-B2
Data file:	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00010380.12o	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00080389.12o
Receiver type:	Unknown	Unknown
Receiver serial number:		
Antenna type:	Unknown External	Unknown External
Antenna serial number:	-----	-----
Antenna height (measured):	1.565 m	2.065 m
Antenna method:	Antenna Phase Center	Antenna Phase Center

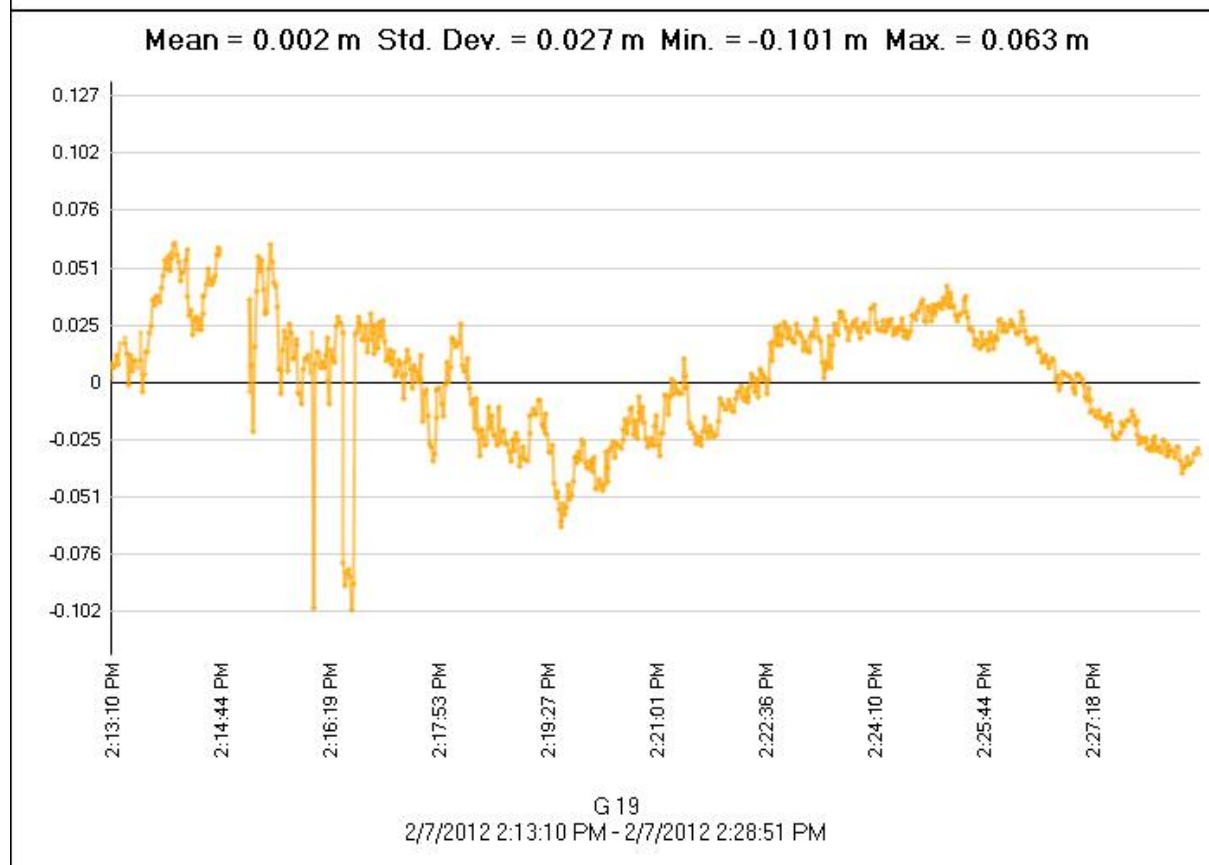
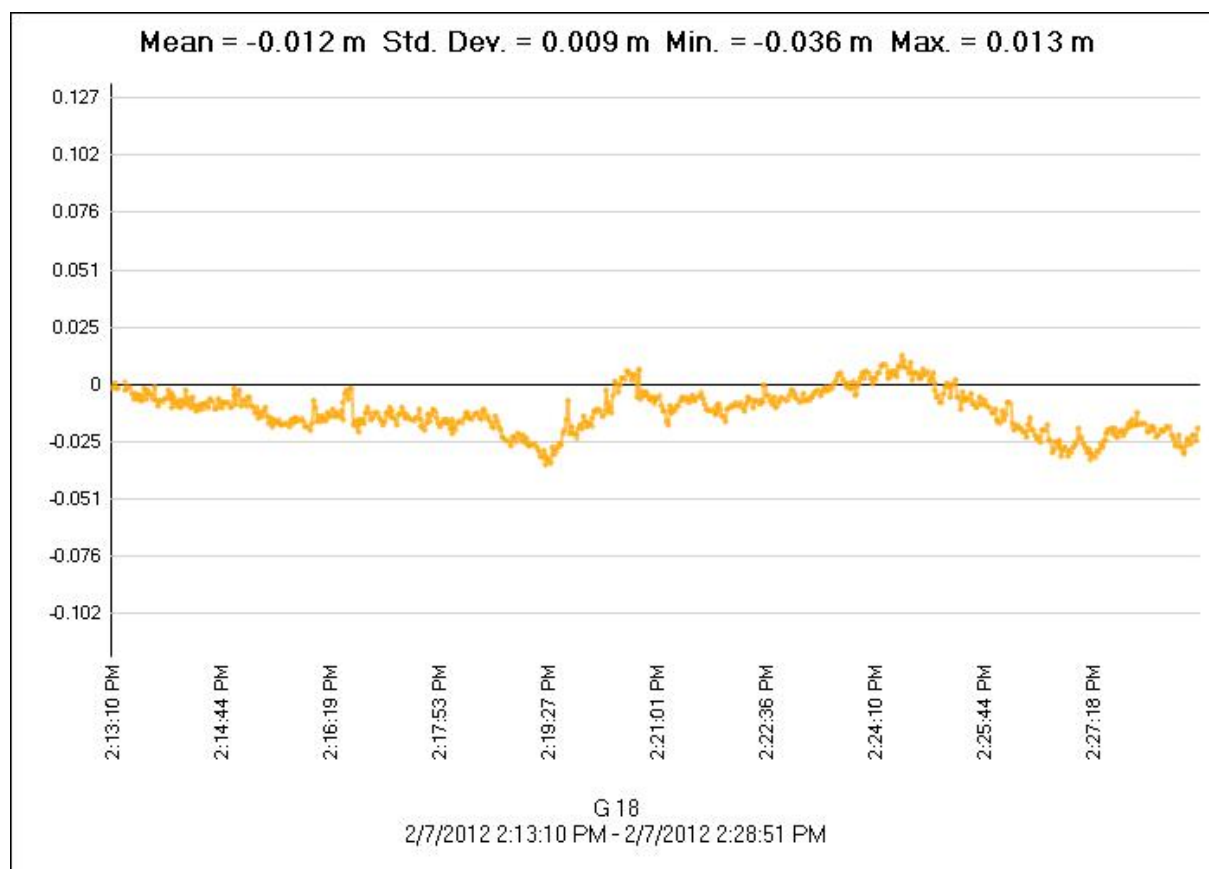
Tracking Summary

SV		2/7/2012 2:13:08 PM	Duration: 00:15:42.5000000	Major interval: 00:01:00	2/7/2012 2:28:51 PM
G 1	L1				
	L2				
G 3	L1				
	L2				
G 6	L1				
	L2				
G 9	L1				
	L2				
G 11	L1				
	L2				
G 12	L1				
	L2				
G 14	L1				
	L2				
G 18	L1				
	L2				
G 19	L1				
	L2				
G 21	L1				
	L2				
G 22	L1				
	L2				
G 31	L1				
	L2				

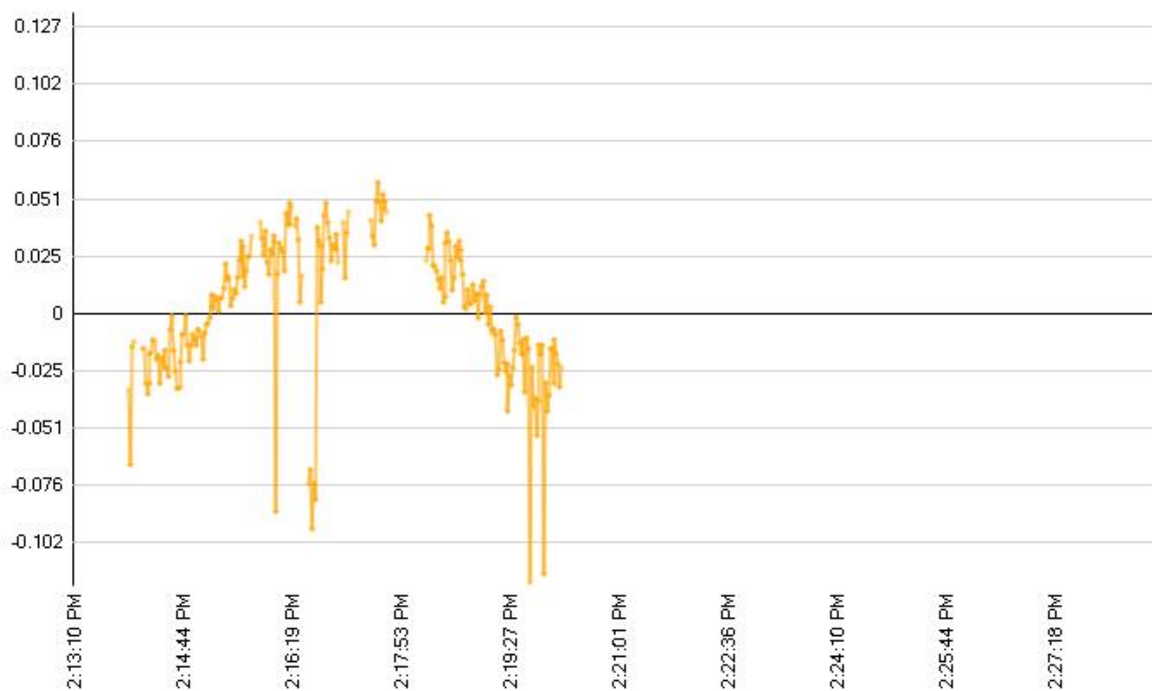
Residuals







Mean = 0.002 m Std. Dev. = 0.030 m Min. = -0.121 m Max. = 0.058 m



G 21

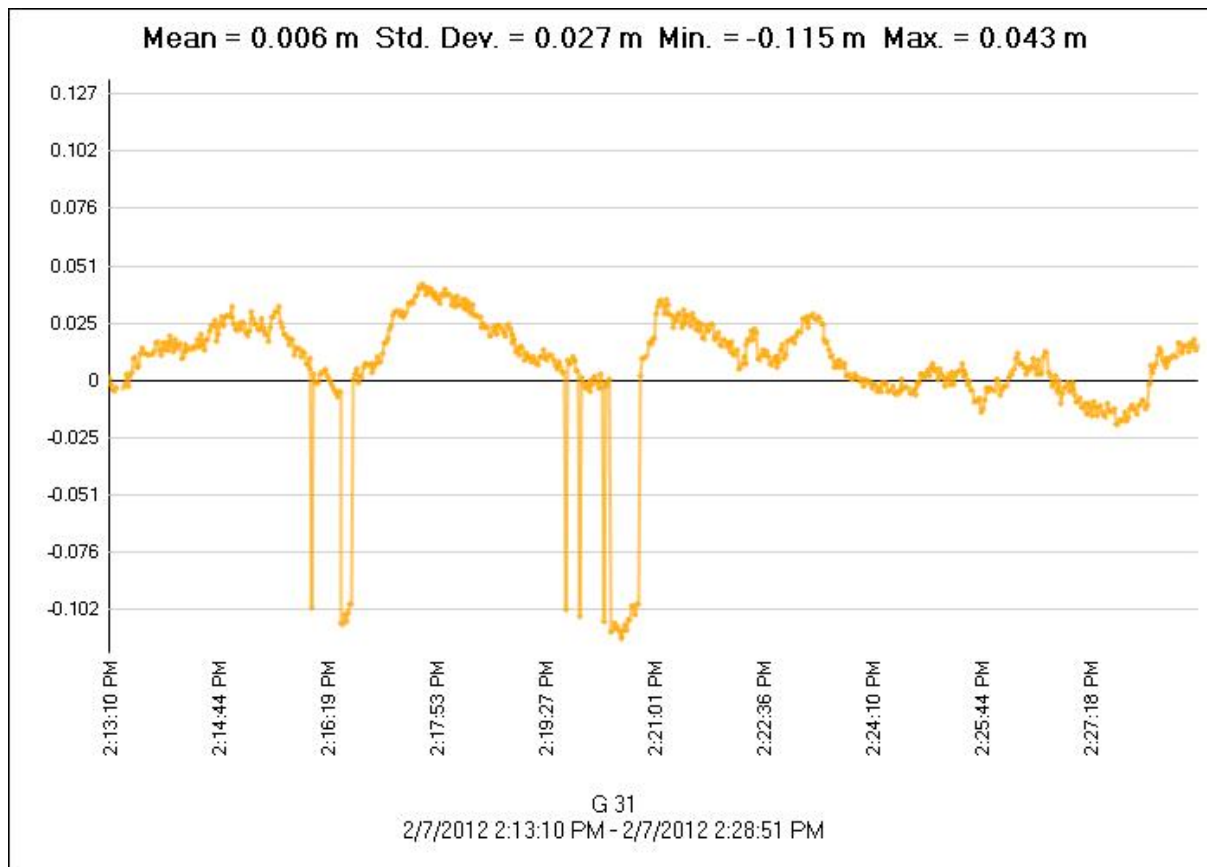
2/7/2012 2:13:10 PM - 2/7/2012 2:28:51 PM

Mean = 0.005 m Std. Dev. = 0.006 m Min. = -0.011 m Max. = 0.026 m



G 22

2/7/2012 2:13:10 PM - 2/7/2012 2:28:51 PM



Processing style

Elevation mask:	10.0 deg
Auto start processing:	Yes
Start automatic ID numbering:	AUTO0001
Continuous vectors:	No
Generate residuals:	Yes
Antenna model:	Automatic
Ephemeris type:	Automatic
Frequency:	Dual Frequency (L1, L2)
Processing Interval:	Use all data
Force float:	No

Acceptance Criteria

Vector Component	Flag 	Fail 
Horizontal Precision >	0.050 m + 1.000 ppm	0.100 m + 1.000 ppm
Vertical Precision >	0.100 m + 1.000 ppm	0.200 m + 1.000 ppm

HH0162 - FVA47-B2 (3:02:31 PM-3:21:43 PM) (S50)

Baseline observation: HH0162 --- FVA47-B2 (B50)

Processed: 3/21/2012 10:58:40 AM

Solution type: Fixed

Frequency used: Dual Frequency (L1, L2)

Horizontal precision: 0.011 m

Vertical precision: 0.018 m

RMS: 0.008 m

Maximum PDOP: 2.517

Ephemeris used: Broadcast

Antenna model: US National Geodetic Survey Calibration

Processing start time: 2/7/2012 3:02:31 PM (Local: UTC-7hr)

Processing stop time: 2/7/2012 3:21:43 PM (Local: UTC-7hr)

Processing duration: 00:19:11

Processing interval: .5 second

Vector Components (Mark to Mark)

From:	HH0162				
Grid		Local		Global	
Easting	334883.094 m	Latitude	N37°57'51.89981"	Latitude	N37°57'51.89980"
Northing	4203533.480 m	Longitude	W100°52'46.80868"	Longitude	W100°52'46.80868"
Elevation	875.739 m	Height	850.245 m	Height	850.245 m

To:	FVA47-B2				
Grid		Local		Global	
Easting	342960.815 m	Latitude	N37°46'49.49278"	Latitude	N37°46'49.49277"
Northing	4182949.493 m	Longitude	W100°46'59.80326"	Longitude	W100°46'59.80326"
Elevation	889.717 m	Height	863.901 m	Height	863.900 m

Vector					
9Ughb[	8077.722 m	NS Fwd Azimuth	157°25'10"	L	5972.397 m
Bcfh\jb[	-20583.987 m	Ellipsoid Dist.	22113.993 m	M	-13920.669 m
9`Yj Ufcb	13.978 m	<Y][\h	13.656 m	N	-16115.383 m

Standard Errors

Vector errors:					
Point ID	0.004 m	Point ID	0°00'00"	Point ID	0.005 m
Point ID	0.004 m	Point ID	0.004 m	Point ID	0.007 m
Point ID	0.009 m	Point ID	0.009 m	Point ID	0.007 m

Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0000227383		
Y	0.0000228847	0.0000523011	
Z	-0.0000127165	-0.0000331074	0.0000433442

Occupations

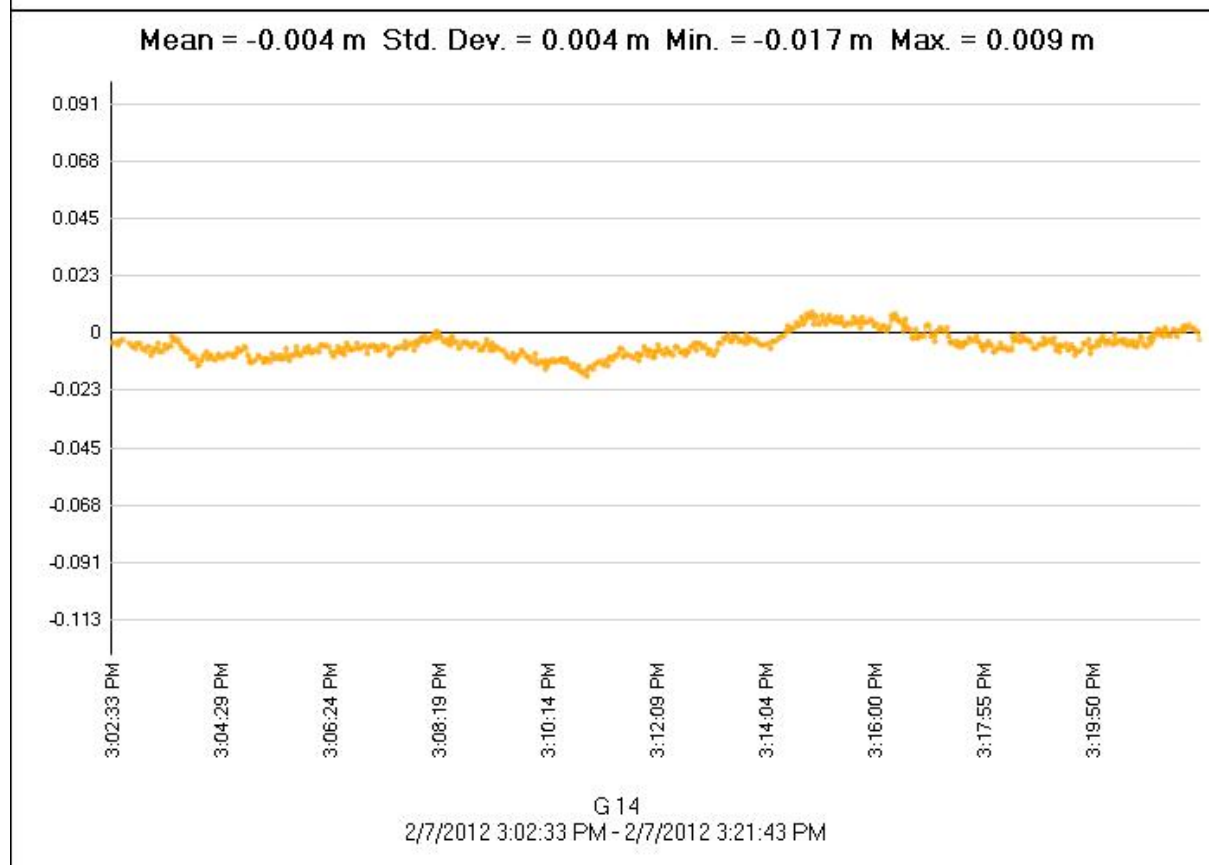
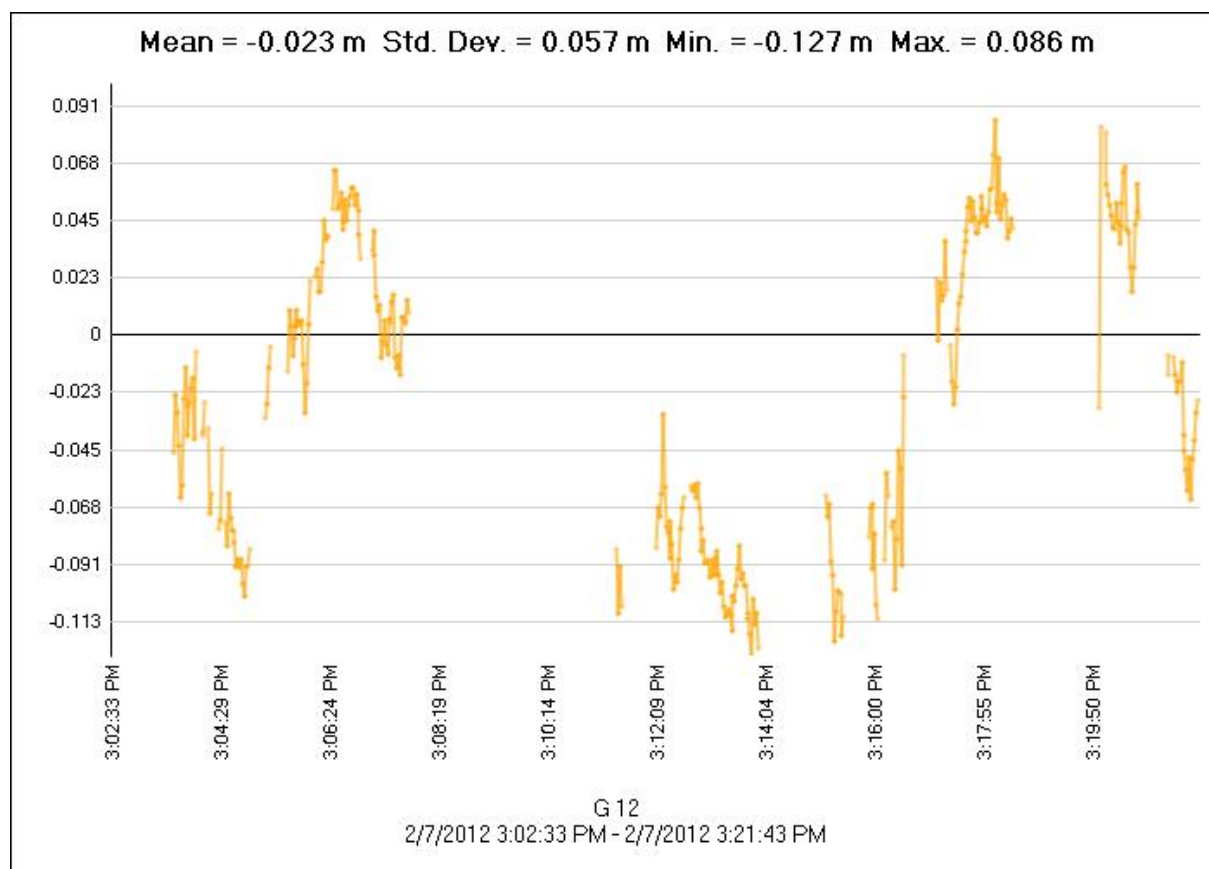
	From	To
Point ID:	HH0162	FVA47-B2
Data file:	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00010380.12o	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\0008038A.12o
Receiver type:	Unknown	Unknown
Receiver serial number:		
Antenna type:	Unknown External	Unknown External
Antenna serial number:	-----	-----
Antenna height (measured):	1.565 m	2.065 m
Antenna method:	Antenna Phase Center	Antenna Phase Center

Tracking Summary

SV	2/7/2012 3:02:31 PM		Duration: 00:19:11.5000000		Major interval: 00:01:00		2/7/2012 3:21:43 PM	
	L1	L2						
G 1								
G 9								
G 11								
G 12								
G 14								
G 18								
G 19								
G 22								
G 25								
G 31								
G 32								

Residuals





Mean = 0.009 m Std. Dev. = 0.026 m Min. = -0.072 m Max. = 0.065 m

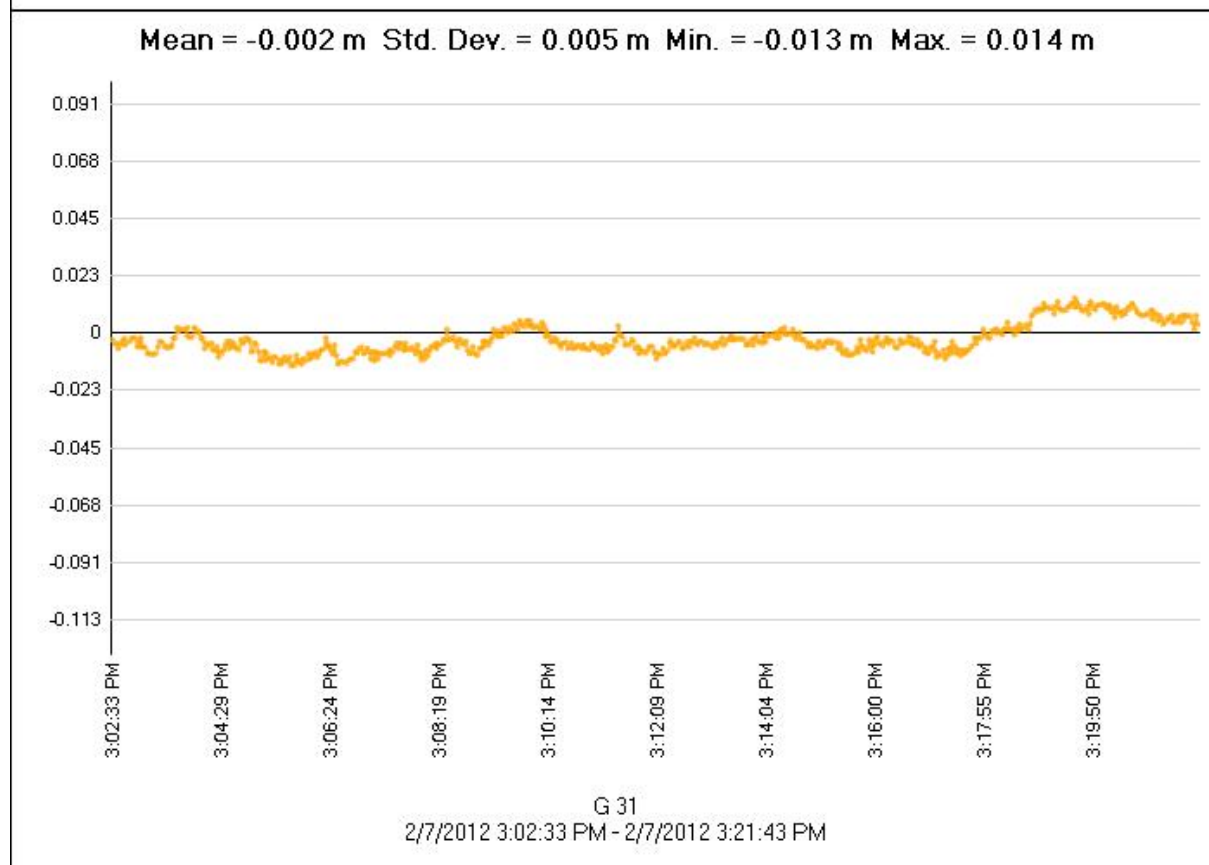
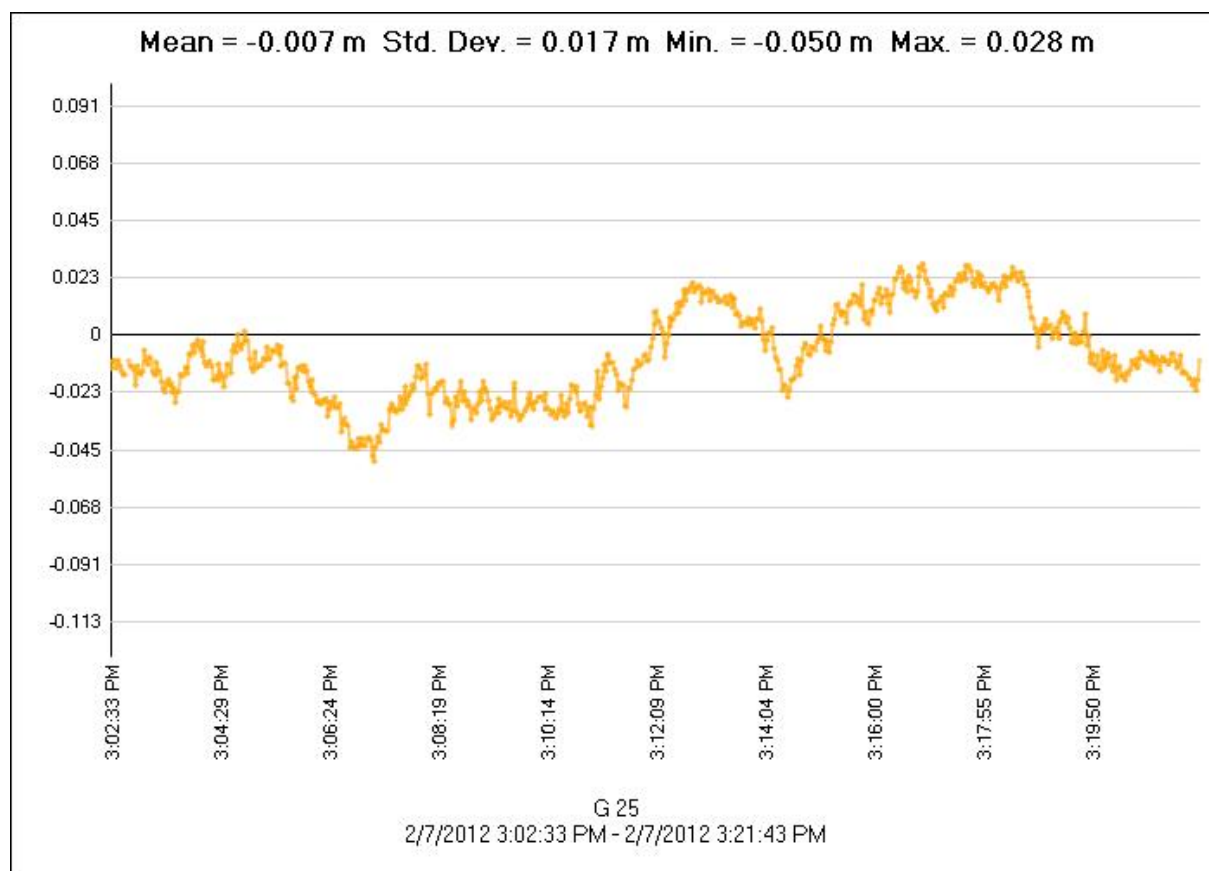


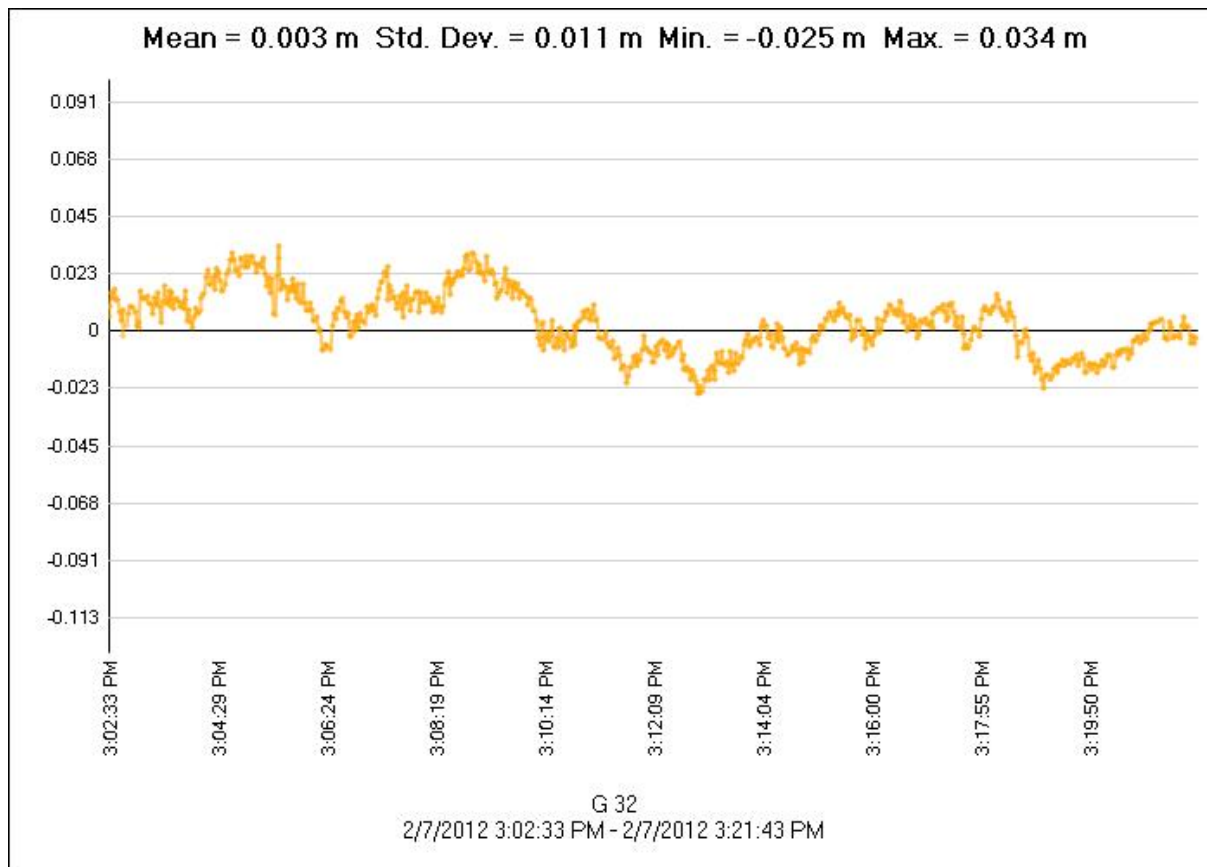
G 18
2/7/2012 3:02:33 PM - 2/7/2012 3:21:43 PM

Mean = 0.003 m Std. Dev. = 0.009 m Min. = -0.018 m Max. = 0.018 m



G 22
2/7/2012 3:02:33 PM - 2/7/2012 3:21:43 PM





Processing style

Elevation mask:	10.0 deg
Auto start processing:	Yes
Start automatic ID numbering:	AUTO0001
Continuous vectors:	No
Generate residuals:	Yes
Antenna model:	Automatic
Ephemeris type:	Automatic
Frequency:	Dual Frequency (L1, L2)
Processing Interval:	Use all data
Force float:	No

Acceptance Criteria

Vector Component	Flag 	Fail 
Horizontal Precision >	0.050 m + 1.000 ppm	0.100 m + 1.000 ppm
Vertical Precision >	0.100 m + 1.000 ppm	0.200 m + 1.000 ppm

Baseline observation: HH0162 --- SVA47-B2 (B51)

Processed: 3/21/2012 10:58:19 AM

Solution type: Fixed

Frequency used: Dual Frequency (L1, L2)

Horizontal precision: 0.010 m

Vertical precision: 0.019 m

RMS: 0.005 m

Maximum PDOP: 2.735

Ephemeris used: Broadcast

Antenna model: US National Geodetic Survey Calibration

Processing start time: 2/7/2012 3:26:07 PM (Local: UTC-7hr)

Processing stop time: 2/7/2012 3:44:21 PM (Local: UTC-7hr)

Processing duration: 00:18:13

Processing interval: .5 second

Vector Components (Mark to Mark)

From:	HH0162				
Grid		Local		Global	
Easting	334883.094 m	Latitude	N37°57'51.89981"	Latitude	N37°57'51.89980"
Northing	4203533.480 m	Longitude	W100°52'46.80868"	Longitude	W100°52'46.80868"
Elevation	875.739 m	Height	850.245 m	Height	850.245 m

To:	SVA47-B2				
Grid		Local		Global	
Easting	342999.318 m	Latitude	N37°46'48.12948"	Latitude	N37°46'48.12948"
Northing	4182906.723 m	Longitude	W100°46'58.19663"	Longitude	W100°46'58.19663"
Elevation	888.412 m	Height	862.595 m	Height	862.595 m

Vector					
9Ughb[	8116.225 m	NS Fwd Azimuth	157°22'02"	L	6006.398 m
Bcfh\jb[	-20626.757 m	Ellipsoid Dist.	22167.888 m	M	-13952.311 m
9`Yj Uhcb	12.673 m	<Y][\h	12.350 m	N	-16149.408 m

Standard Errors

Vector errors:					
Point ID	0.003 m	Point Description	0°00'00"	Point Type	0.004 m
Point ID	0.004 m	Point Description	0.004 m	Point Type	0.007 m
Point ID	0.010 m	Point Description	0.010 m	Point Type	0.008 m



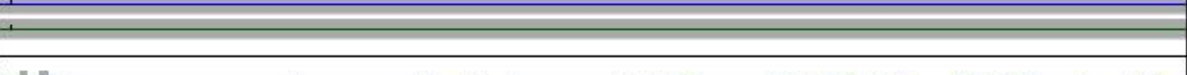
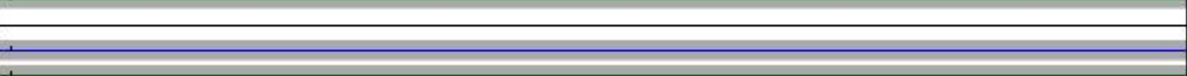

Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0000145212		
Y	0.0000157154	0.0000482403	
Z	-0.0000118646	-0.0000401369	0.0000599883

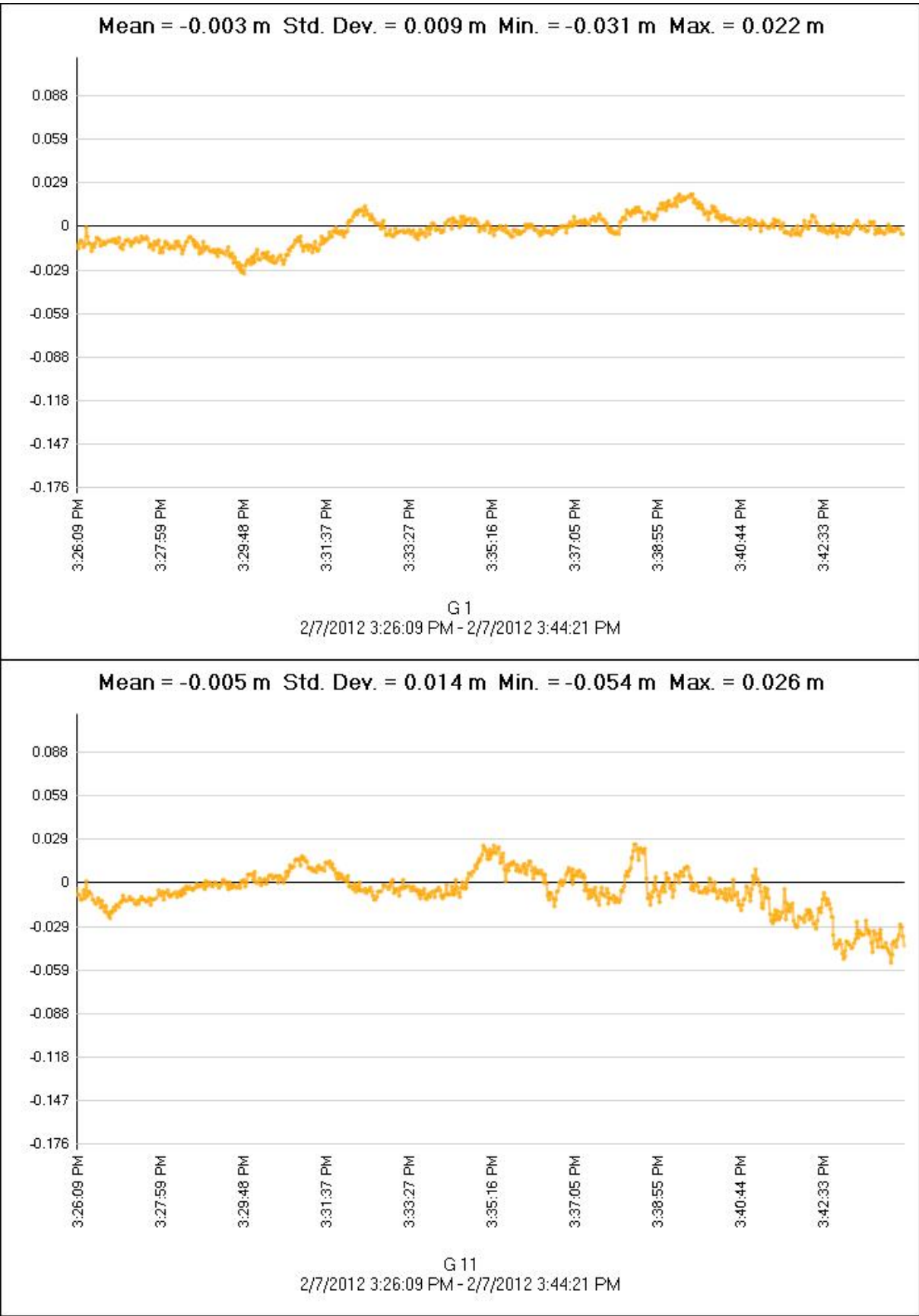
Occupations

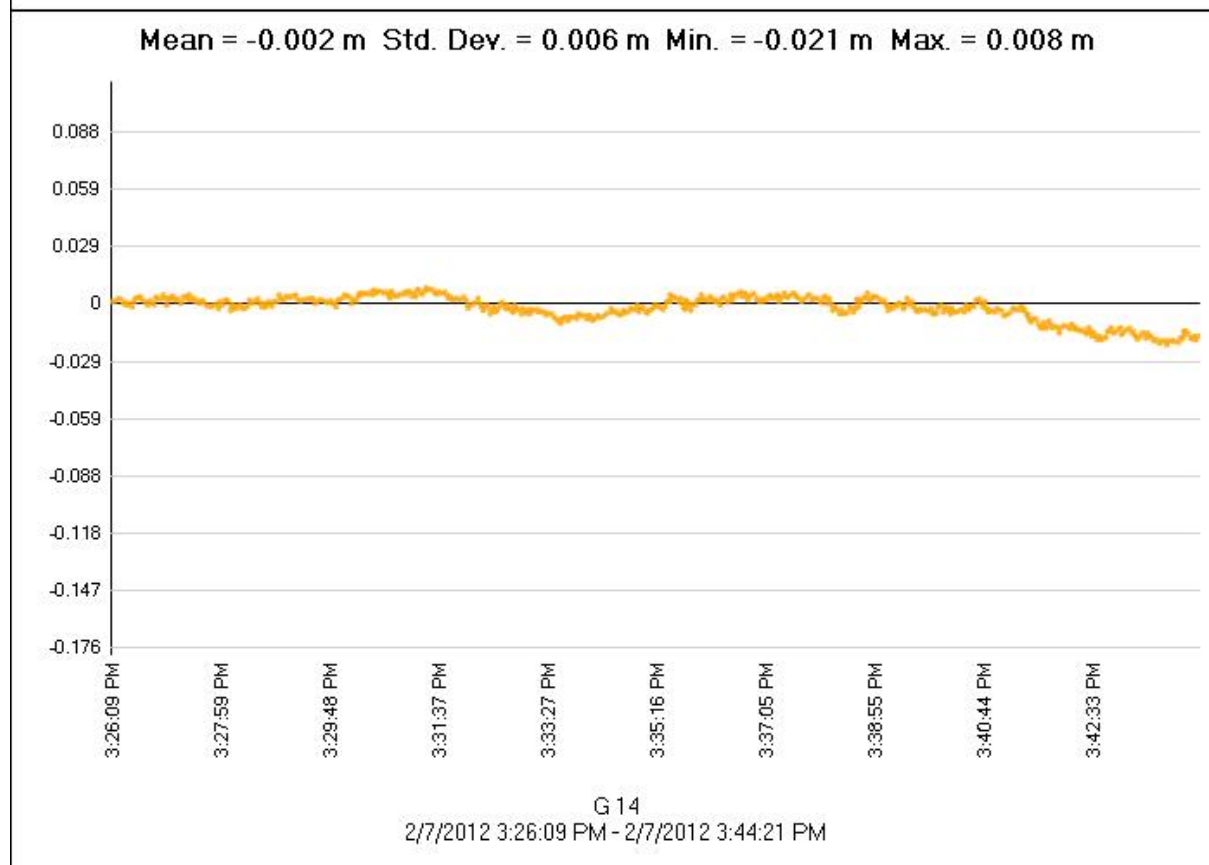
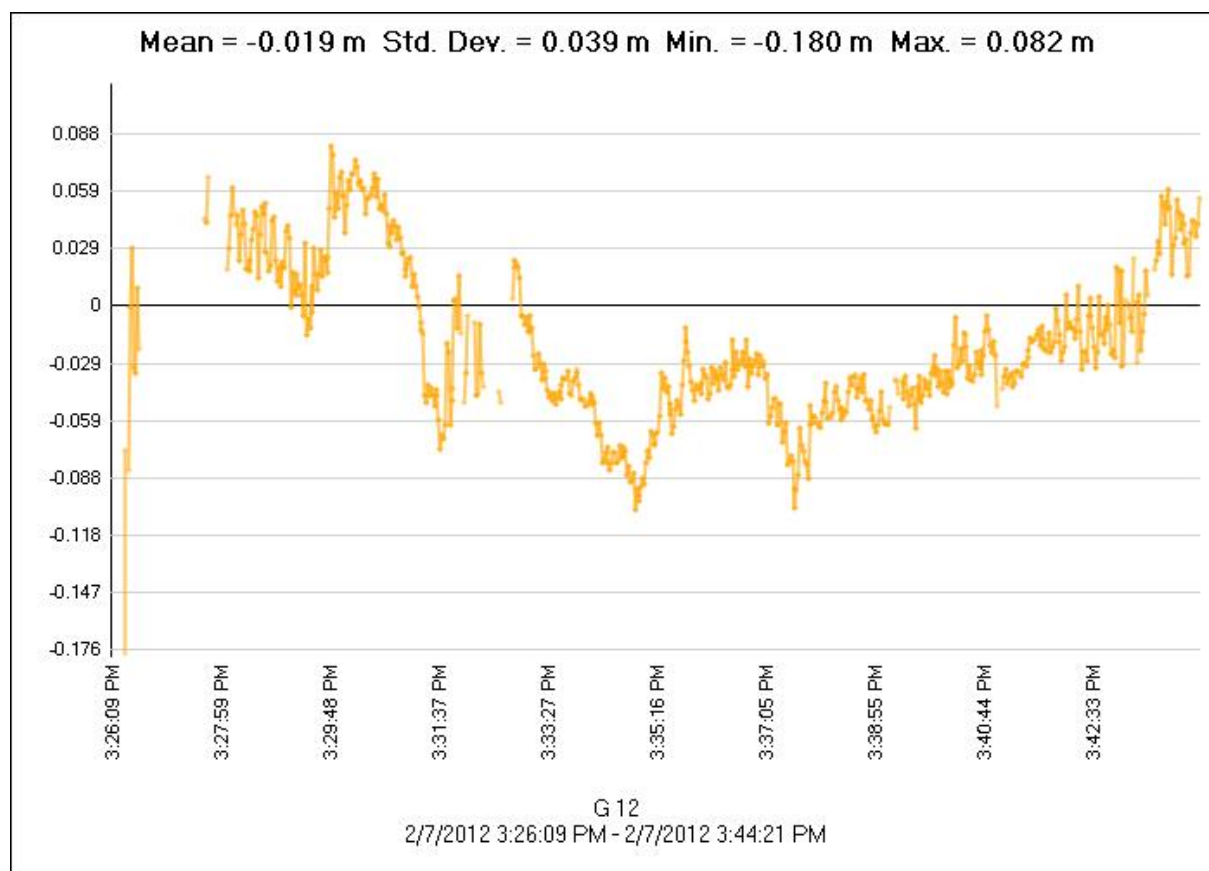
	From	To
Point ID:	HH0162	SVA47-B2
Data file:	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00010380.12o	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\0008038B.12o
Receiver type:	Unknown	Unknown
Receiver serial number:		
Antenna type:	Unknown External	Unknown External
Antenna serial number:	-----	-----
Antenna height (measured):	1.565 m	2.065 m
Antenna method:	Antenna Phase Center	Antenna Phase Center

Tracking Summary

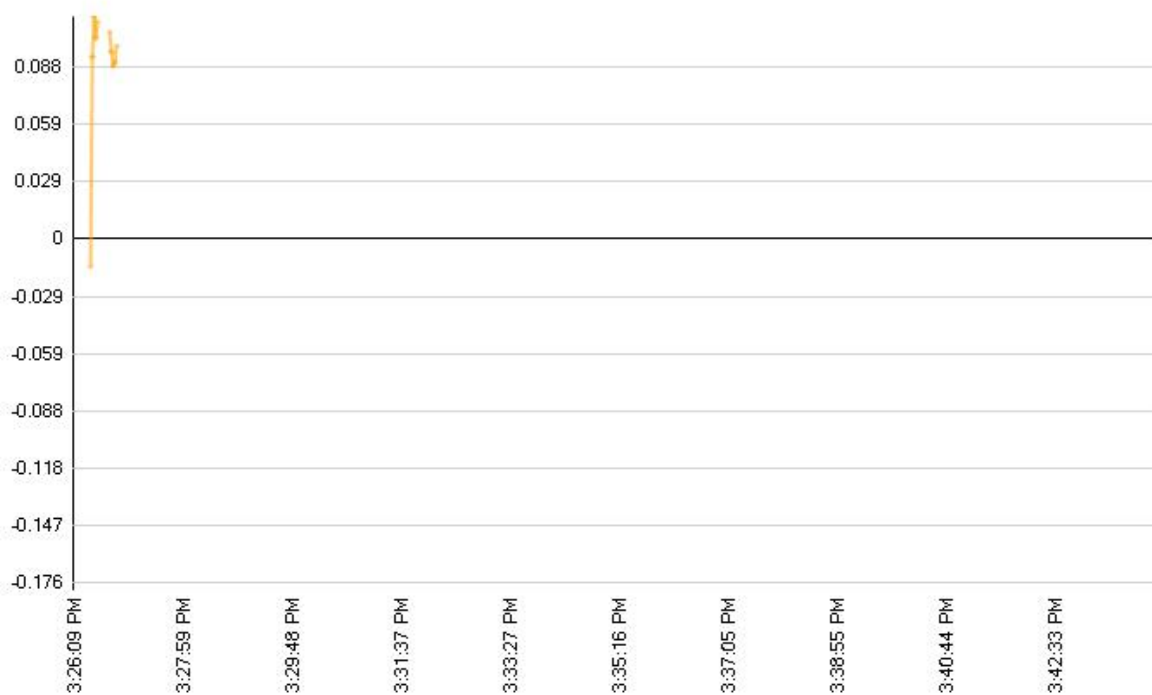
SV	2/7/2012 3:26:07 PM	Duration: 00:18:13.5000000	Major interval: 00:01:00	2/7/2012 3:44:21 PM
G 1	L1 L2			
G 11	L1 L2			
G 12	L1 L2			
G 14	L1 L2			
G 18	L1 L2			
G 19	L1 L2			
G 20	L1 L2			
G 22	L1 L2			
G 25	L1 L2			
G 30	L1 L2			
G 31	L1 L2			
G 32	L1 L2			

Residuals





Mean = 0.090 m Std. Dev. = 0.029 m Min. = -0.014 m Max. = 0.115 m



G 18

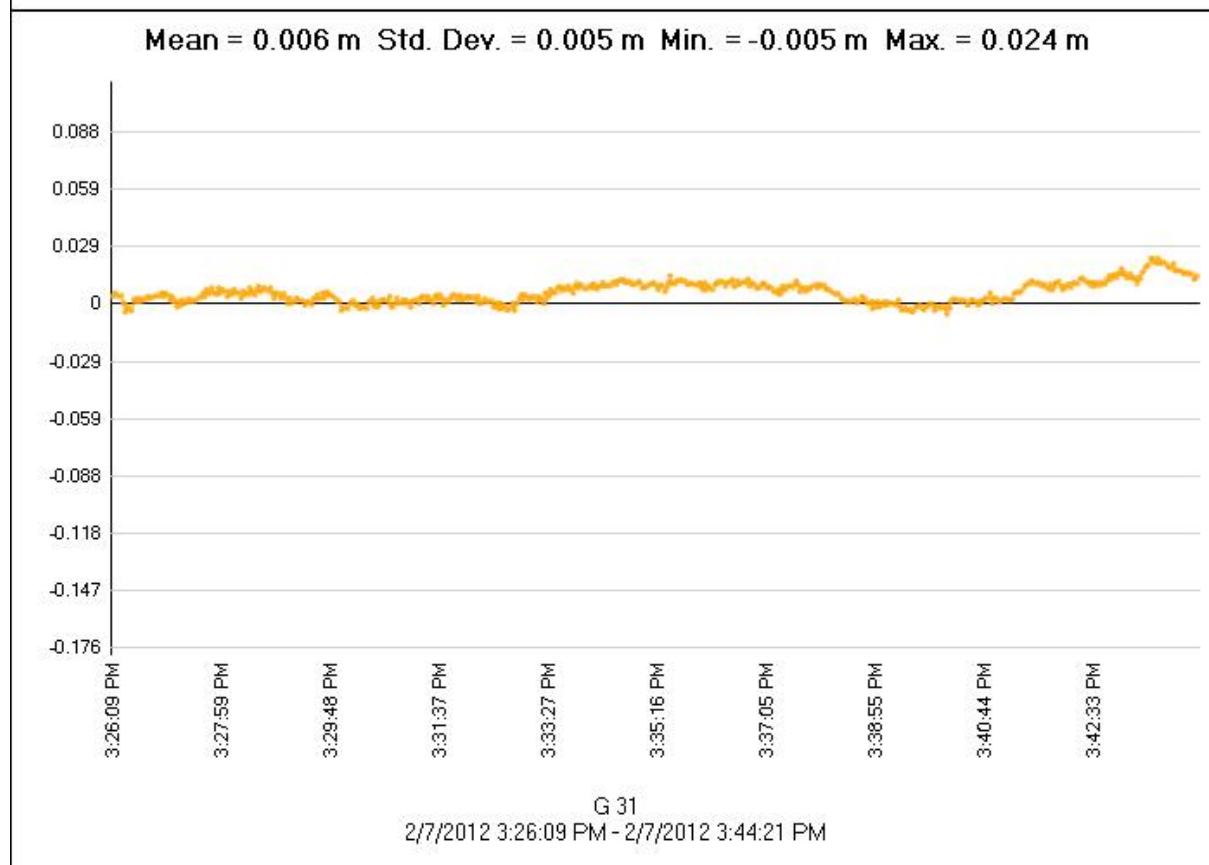
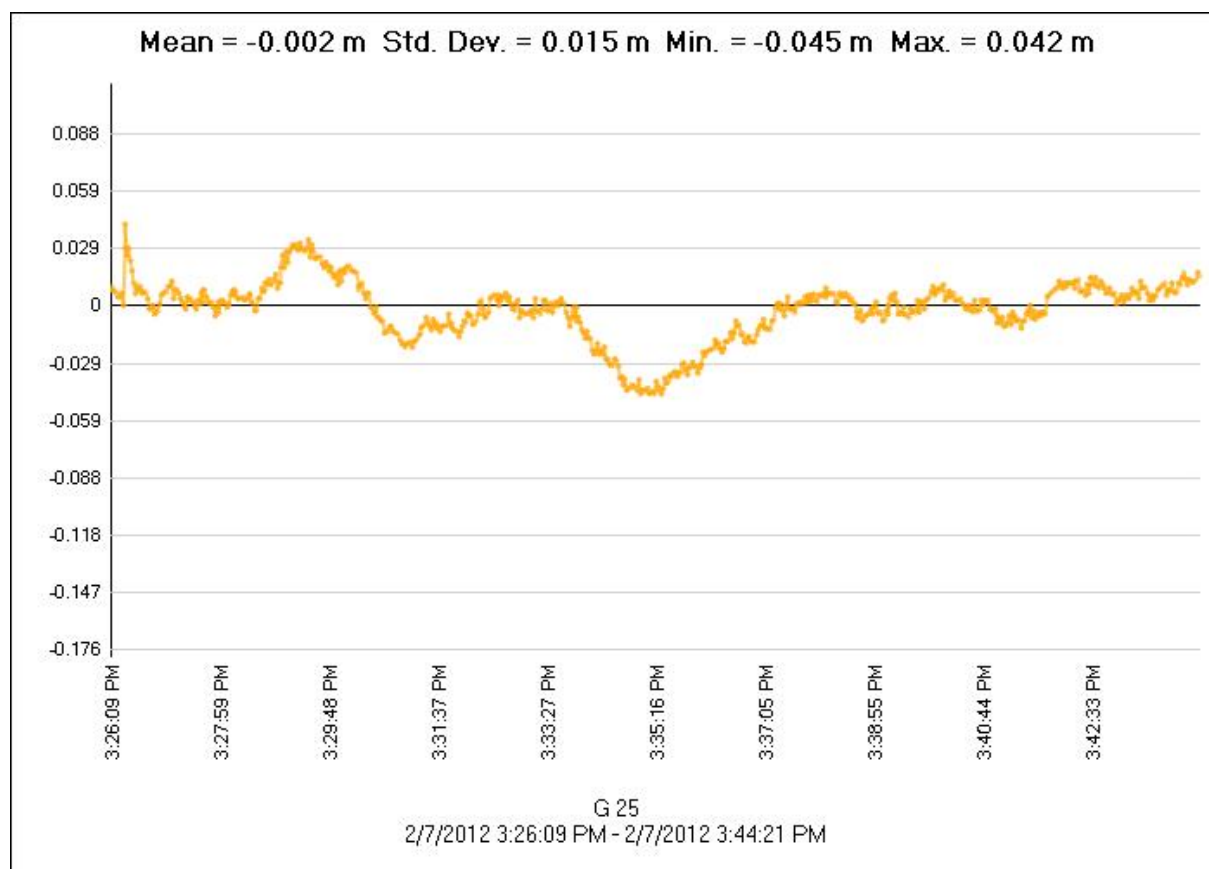
2/7/2012 3:26:09 PM - 2/7/2012 3:44:21 PM

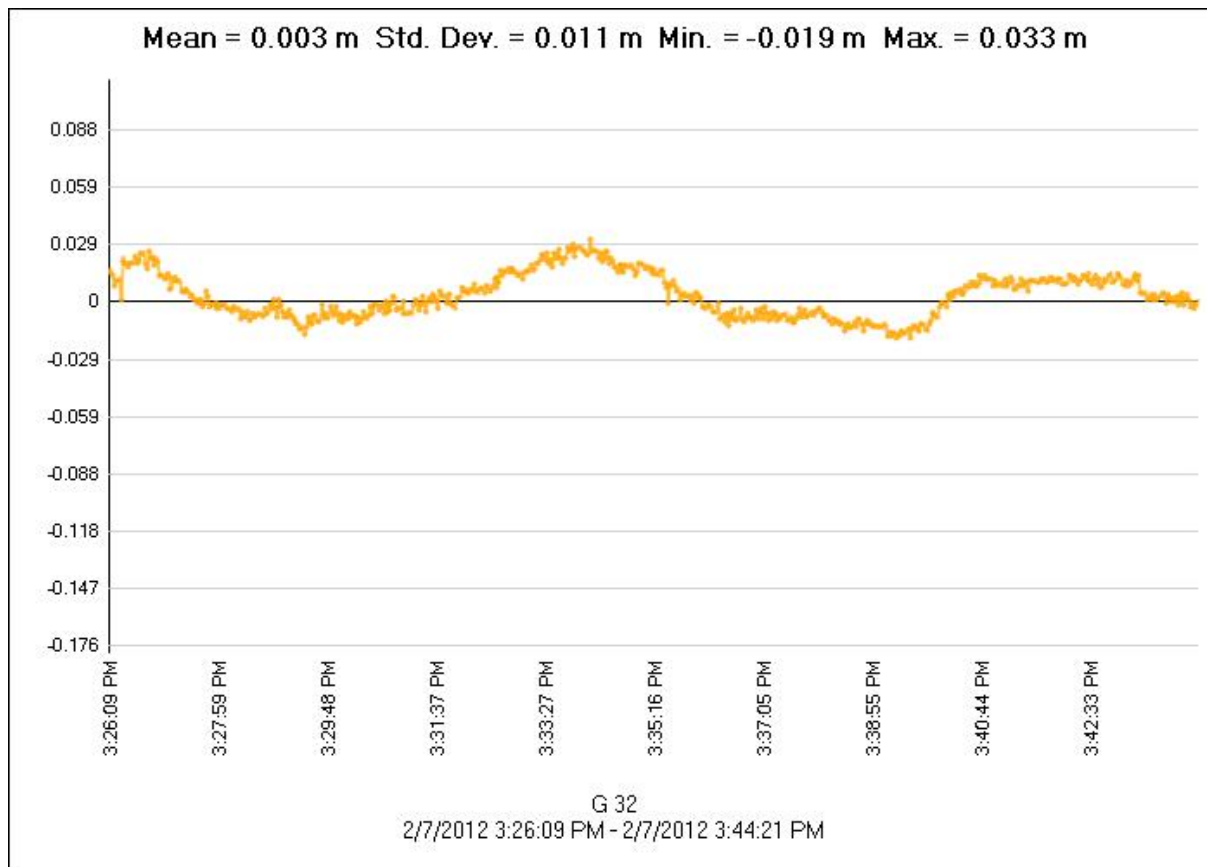
Mean = -0.002 m Std. Dev. = 0.005 m Min. = -0.014 m Max. = 0.012 m



G 22

2/7/2012 3:26:09 PM - 2/7/2012 3:44:21 PM







Processing style

Elevation mask:	10.0 deg
Auto start processing:	Yes
Start automatic ID numbering:	AUTO0001
Continuous vectors:	No
Generate residuals:	Yes
Antenna model:	Automatic
Ephemeris type:	Automatic
Frequency:	Dual Frequency (L1, L2)
Processing Interval:	Use all data
Force float:	No

Acceptance Criteria

Vector Component	Flag 	Fail 
Horizontal Precision >	0.050 m + 1.000 ppm	0.100 m + 1.000 ppm
Vertical Precision >	0.100 m + 1.000 ppm	0.200 m + 1.000 ppm

HH0162 - FVA35-B2 (8:17:30 AM-8:37:47 AM) (S52)

Baseline observation: HH0162 --- FVA35-B2 (B52)

Processed: 3/21/2012 10:58:20 AM

Solution type: Fixed

Frequency used: Dual Frequency (L1, L2)

Horizontal precision: 0.014 m

Vertical precision: 0.021 m

RMS: 0.008 m

Maximum PDOP: 2.446

Ephemeris used: Broadcast

Antenna model: US National Geodetic Survey Calibration

Processing start time: 2/8/2012 8:17:30 AM (Local: UTC-7hr)

Processing stop time: 2/8/2012 8:37:47 AM (Local: UTC-7hr)

Processing duration: 00:20:17

Processing interval: .5 second

Vector Components (Mark to Mark)

From:	HH0162				
Grid		Local		Global	
Easting	334883.094 m	Latitude	N37°57'51.89981"	Latitude	N37°57'51.89980"
Northing	4203533.480 m	Longitude	W100°52'46.80868"	Longitude	W100°52'46.80868"
Elevation	875.739 m	Height	850.245 m	Height	850.245 m

To:	FVA35-B2				
Grid		Local		Global	
Easting	322138.175 m	Latitude	N37°49'46.30406"	Latitude	N37°49'46.30406"
Northing	4188825.557 m	Longitude	W101°01'15.77352"	Longitude	W101°01'15.77352"
Elevation	912.928 m	Height	887.298 m	Height	887.298 m

Vector					
9Ughb[	-12744.918 m	NS Fwd Azimuth	219°45'19"	L	-13962.974 m
Bcfh\jb[	-14707.923 m	Ellipsoid Dist.	19462.385 m	M	-6696.358 m
9`Yj Uhcb	37.189 m	<Y][\h	37.054 m	N	-11793.344 m

Standard Errors

Vector errors:					
Point ID	0.003 m	Point ID	0°00'00"	Point ID	0.003 m
Point ID	0.006 m	Point ID	0.005 m	Point ID	0.011 m
Point ID	0.011 m	Point ID	0.011 m	Point ID	0.005 m

Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0000114369		
Y	0.0000149580	0.0001302692	
Z	-0.0000037254	-0.0000299906	0.0000213058

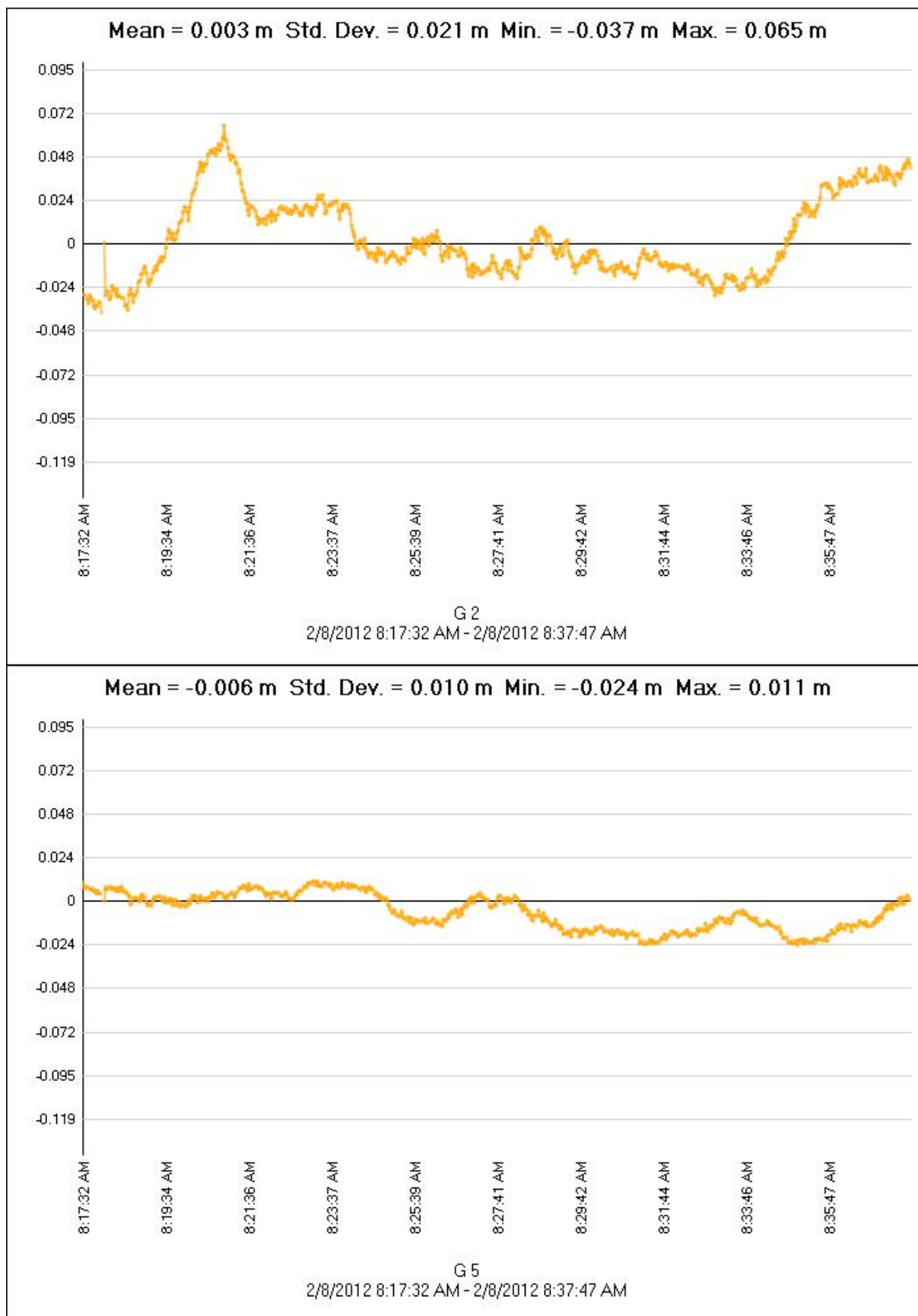
Occupations

	From	To
Point ID:	HH0162	FVA35-B2
Data file:	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00010390.12o	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00080390.12o
Receiver type:	Unknown	Unknown
Receiver serial number:		
Antenna type:	Unknown External	Unknown External
Antenna serial number:	-----	-----
Antenna height (measured):	1.565 m	2.065 m
Antenna method:	Antenna Phase Center	Antenna Phase Center

Tracking Summary

SV	2/8/2012 8:17:30 AM	Duration: 00:20:17 Major interval: 00:01:00	2/8/2012 8:37:47 AM
G 2			
G 5			
G 10			
G 12			
G 15			
G 18			
G 21			
G 25			
G 26			
G 29			
G 30			

Residuals



Mean = 0.003 m Std. Dev. = 0.027 m Min. = -0.056 m Max. = 0.069 m



G 12

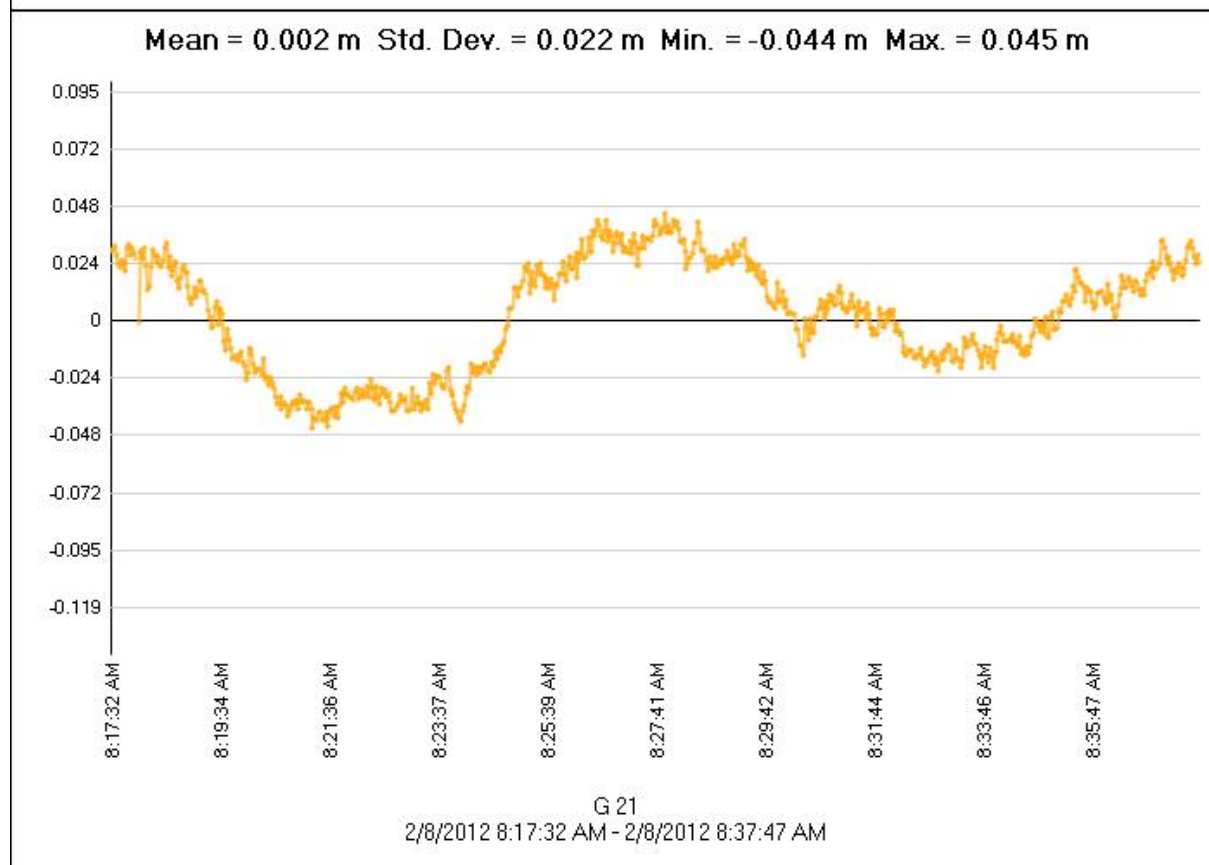
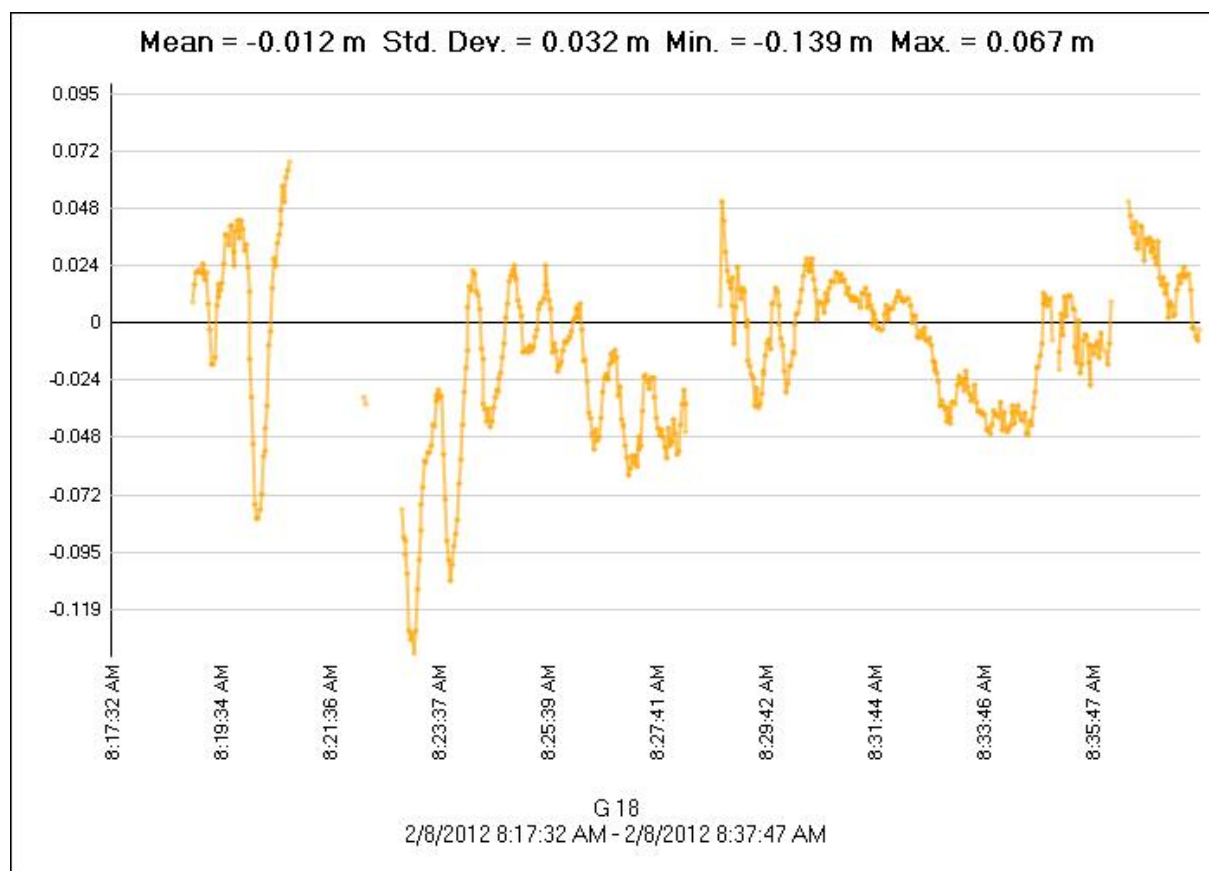
2/8/2012 8:17:32 AM - 2/8/2012 8:37:47 AM

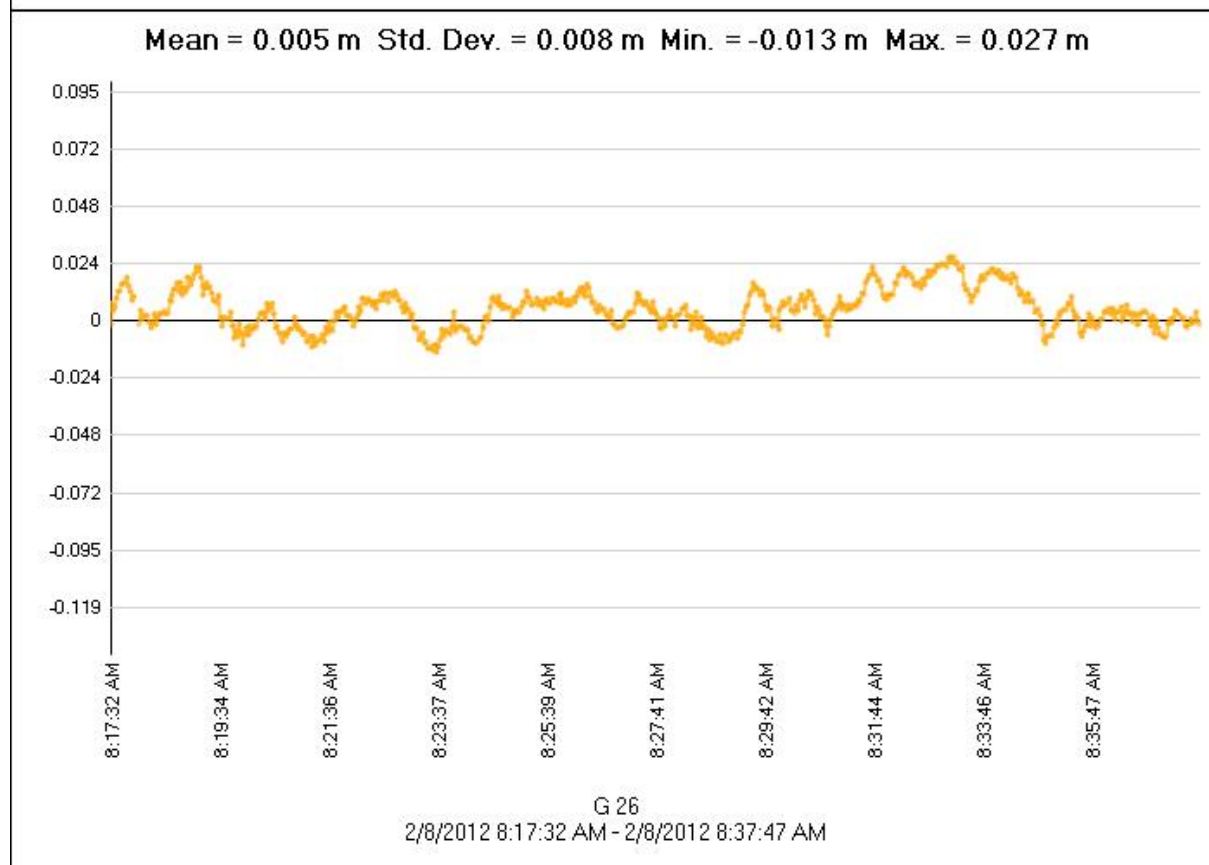
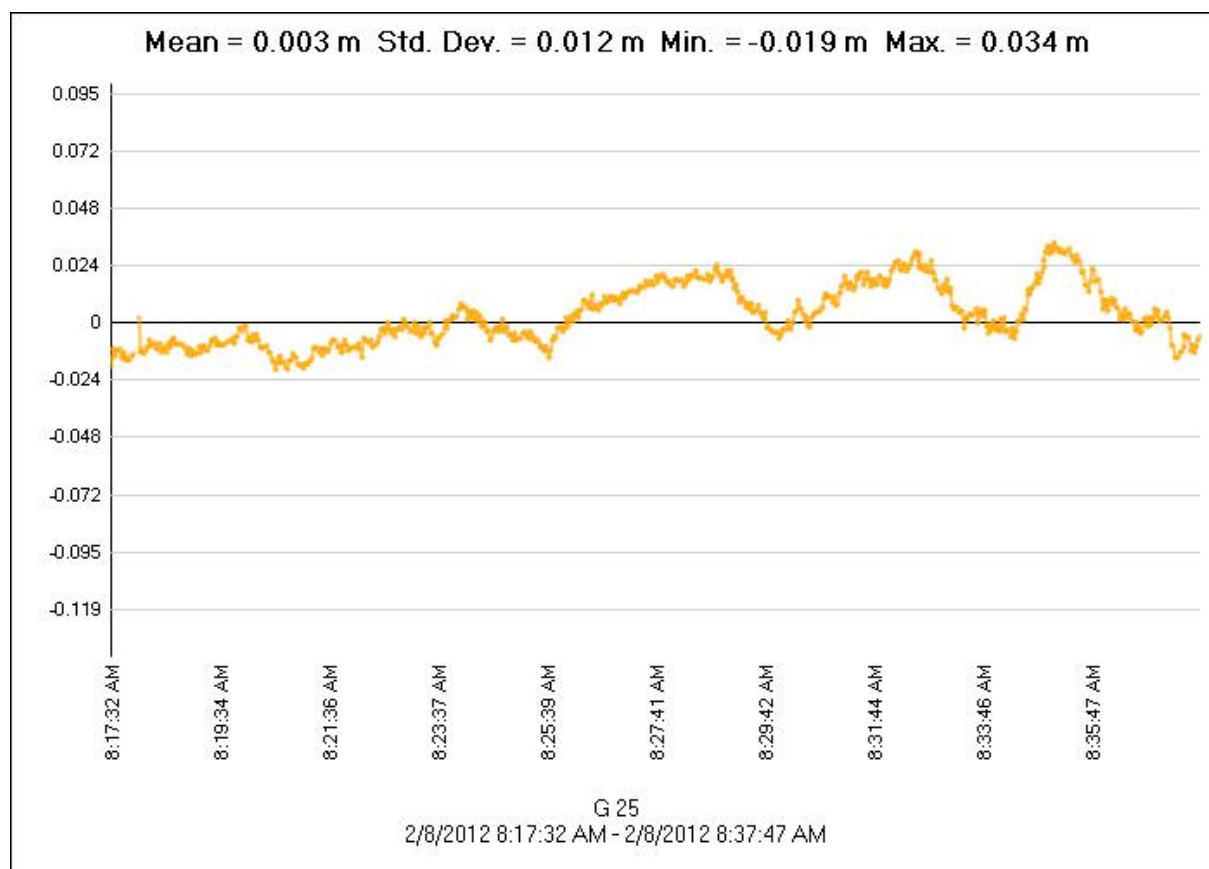
Mean = 0.008 m Std. Dev. = 0.018 m Min. = -0.039 m Max. = 0.069 m

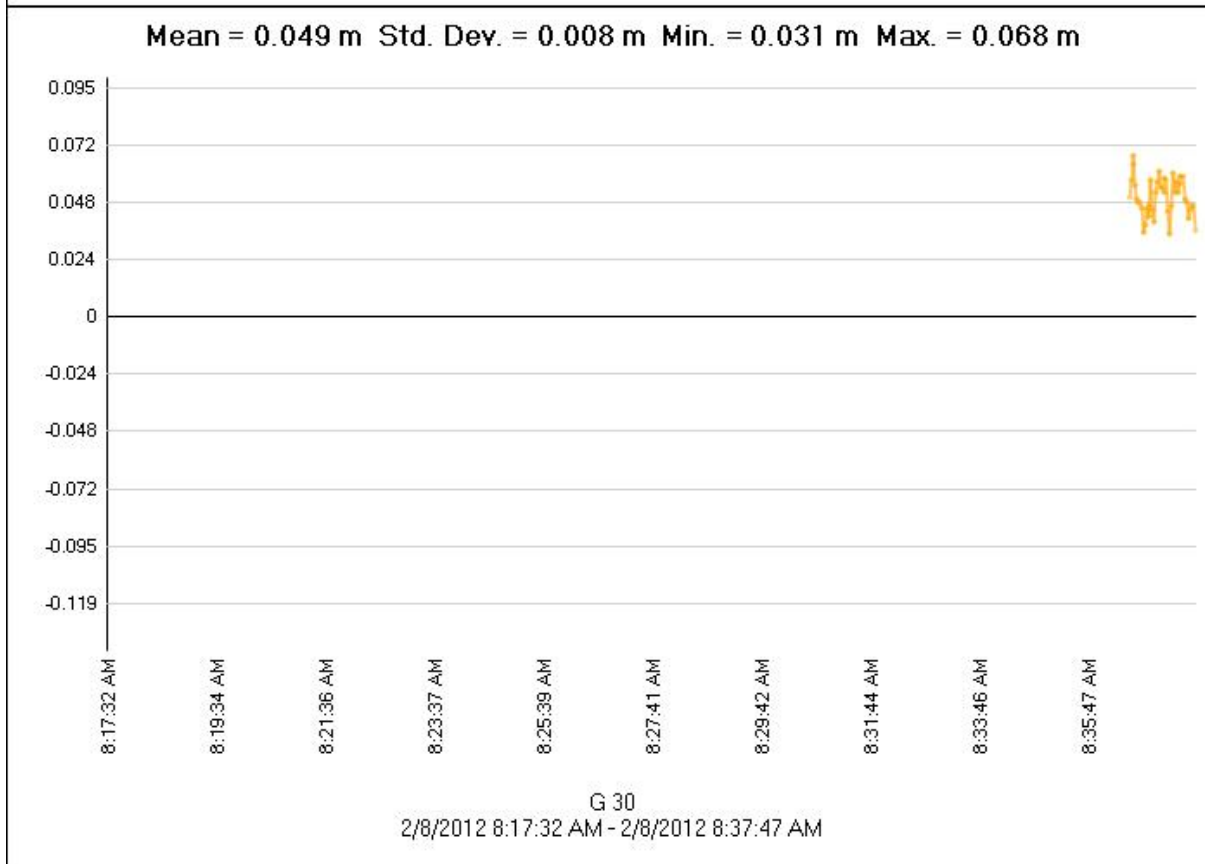
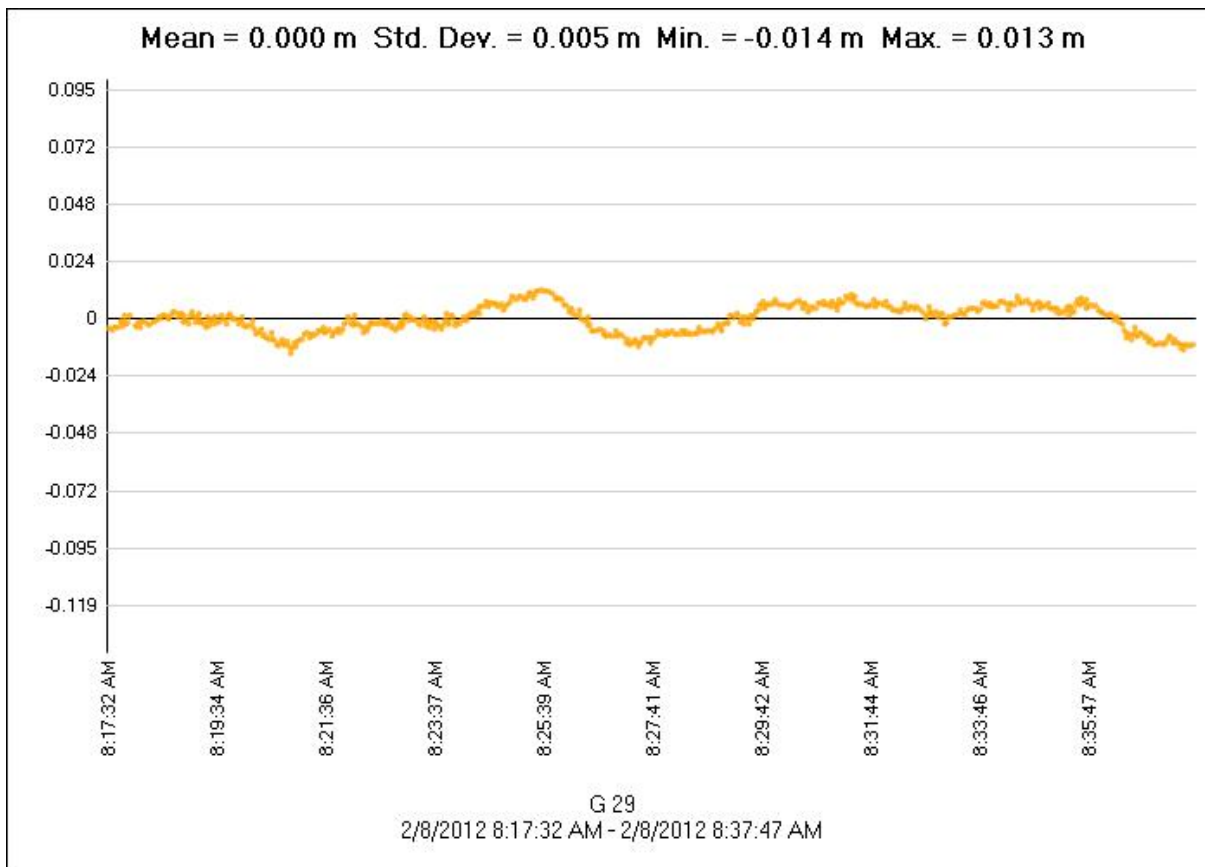


G 15

2/8/2012 8:17:32 AM - 2/8/2012 8:37:47 AM









Processing style

Elevation mask:	10.0 deg
Auto start processing:	Yes
Start automatic ID numbering:	AUTO0001
Continuous vectors:	No
Generate residuals:	Yes
Antenna model:	Automatic
Ephemeris type:	Automatic
Frequency:	Dual Frequency (L1, L2)
Processing Interval:	Use all data
Force float:	No

Acceptance Criteria

Vector Component	Flag 	Fail 
Horizontal Precision >	0.050 m + 1.000 ppm	0.100 m + 1.000 ppm
Vertical Precision >	0.100 m + 1.000 ppm	0.200 m + 1.000 ppm

HH0162 - SVA35-B2 (8:42:59 AM-9:01:40 AM) (S53)

Baseline observation: HH0162 --- SVA35-B2 (B53)

Processed: 3/21/2012 10:58:23 AM

Solution type: Fixed

Frequency used: Dual Frequency (L1, L2)

Horizontal precision: 0.011 m

Vertical precision: 0.015 m

RMS: 0.006 m

Maximum PDOP: 3.103

Ephemeris used: Broadcast

Antenna model: US National Geodetic Survey Calibration

Processing start time: 2/8/2012 8:42:59 AM (Local: UTC-7hr)

Processing stop time: 2/8/2012 9:01:40 AM (Local: UTC-7hr)

Processing duration: 00:18:41

Processing interval: .5 second

Vector Components (Mark to Mark)

From:	HH0162				
Grid		Local		Global	
Easting	334883.094 m	Latitude	N37°57'51.89981"	Latitude	N37°57'51.89980"
Northing	4203533.480 m	Longitude	W100°52'46.80868"	Longitude	W100°52'46.80868"
Elevation	875.739 m	Height	850.245 m	Height	850.245 m

To:	SVA35-B2				
Grid		Local		Global	
Easting	322143.780 m	Latitude	N37°49'45.01703"	Latitude	N37°49'45.01702"
Northing	4188785.746 m	Longitude	W101°01'15.50915"	Longitude	W101°01'15.50915"
Elevation	915.010 m	Height	889.380 m	Height	889.380 m

Vector					
9Ughb[	-12739.313 m	NS Fwd Azimuth	219°39'58"	L	-13961.595 m
Bcfh\jb[	-14747.734 m	Ellipsoid Dist.	19488.826 m	M	-6723.099 m
9`Yj Ufcb	39.272 m	<Y][\h	39.136 m	N	-11823.414 m

Standard Errors

Vector errors:					
Ughb[	0.003 m	BG`Zk X'5n]a i h	0°00'00"	L	0.003 m
Bcfh\]b[	0.004 m	'9~]dgc]X'8]gh	0.004 m	M	0.008 m
'9`Yj Uhcb	0.008 m	' <Y][\h	0.008 m	N	0.005 m

Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0000112188		
Y	0.0000075985	0.0000575559	
Z	-0.0000027033	-0.0000172548	0.0000236237

Occupations

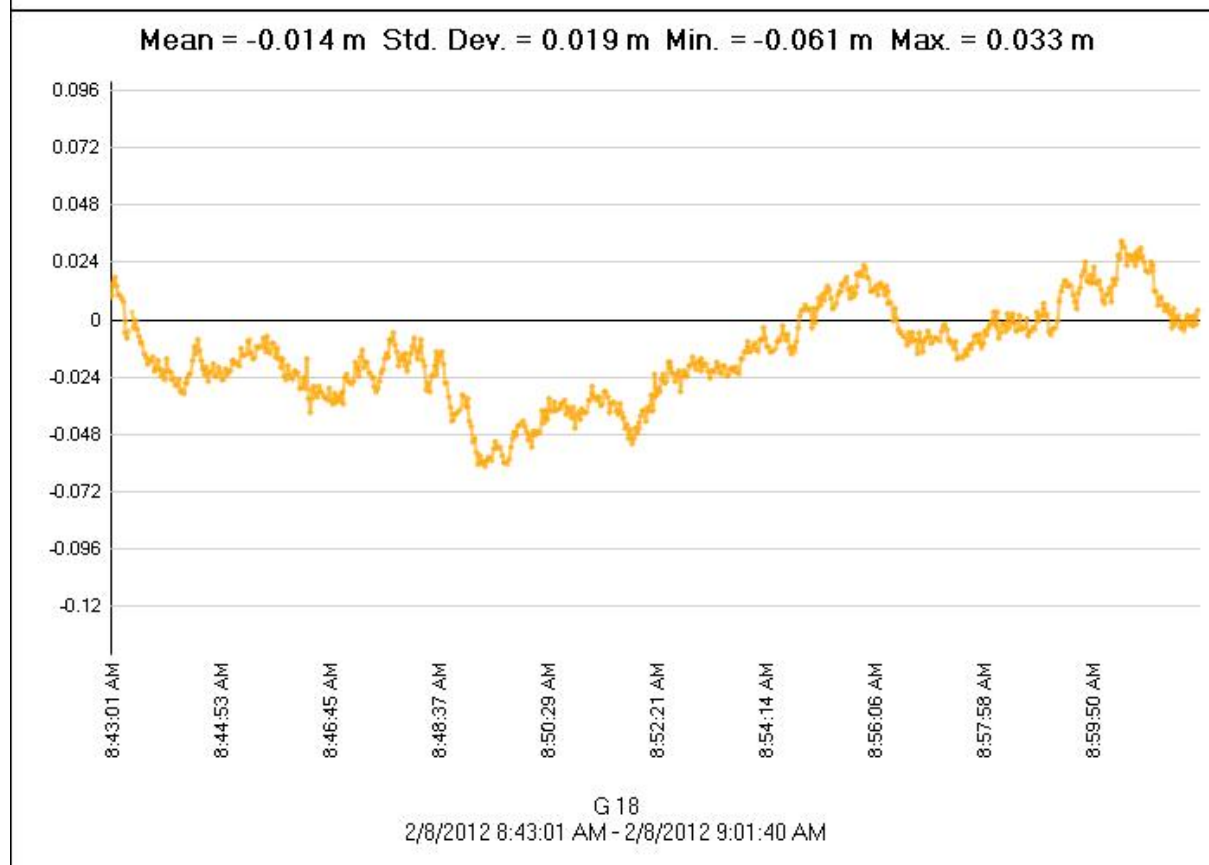
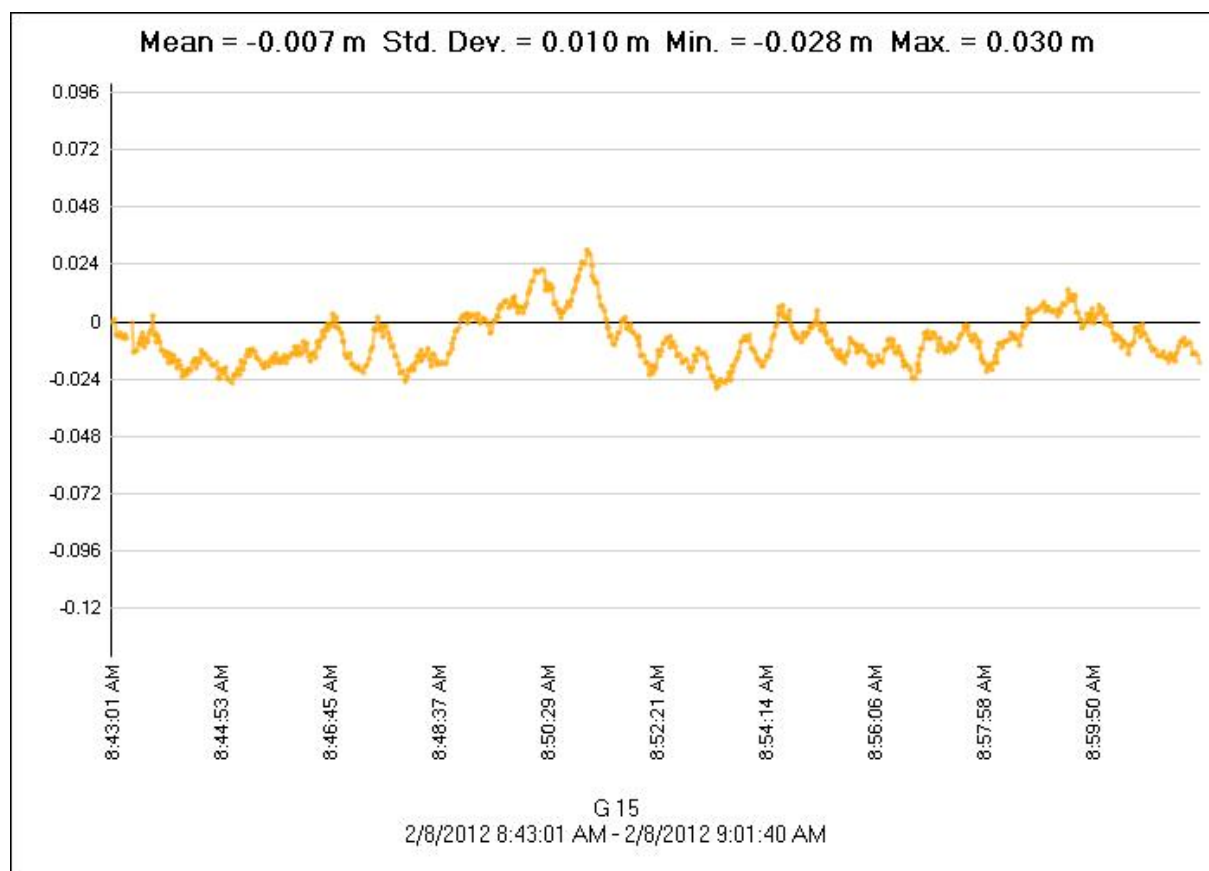
	From	To
Point ID:	HH0162	SVA35-B2
Data file:	F:\Projects\Kansas\Adjustments\TGO\2331 Kansas CheckPointsAdj\00010390.12o	F:\Projects\Kansas\Adjustments\TGO\2331 Kansas CheckPointsAdj\00080391.12o
Receiver type:	Unknown	Unknown
Receiver serial number:		
Antenna type:	Unknown External	Unknown External
Antenna serial number:	-----	-----
Antenna height (measured):	1.565 m	2.065 m
Antenna method:	Antenna Phase Center	Antenna Phase Center

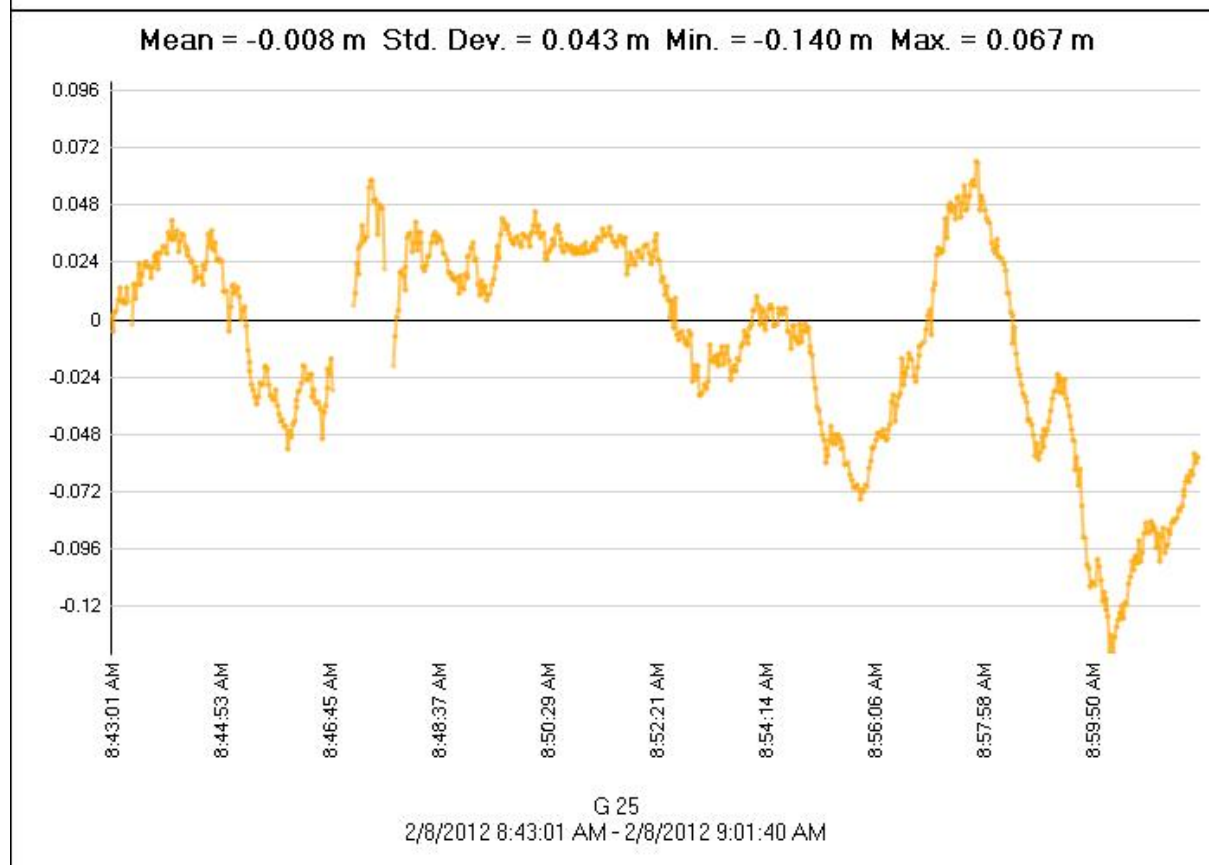
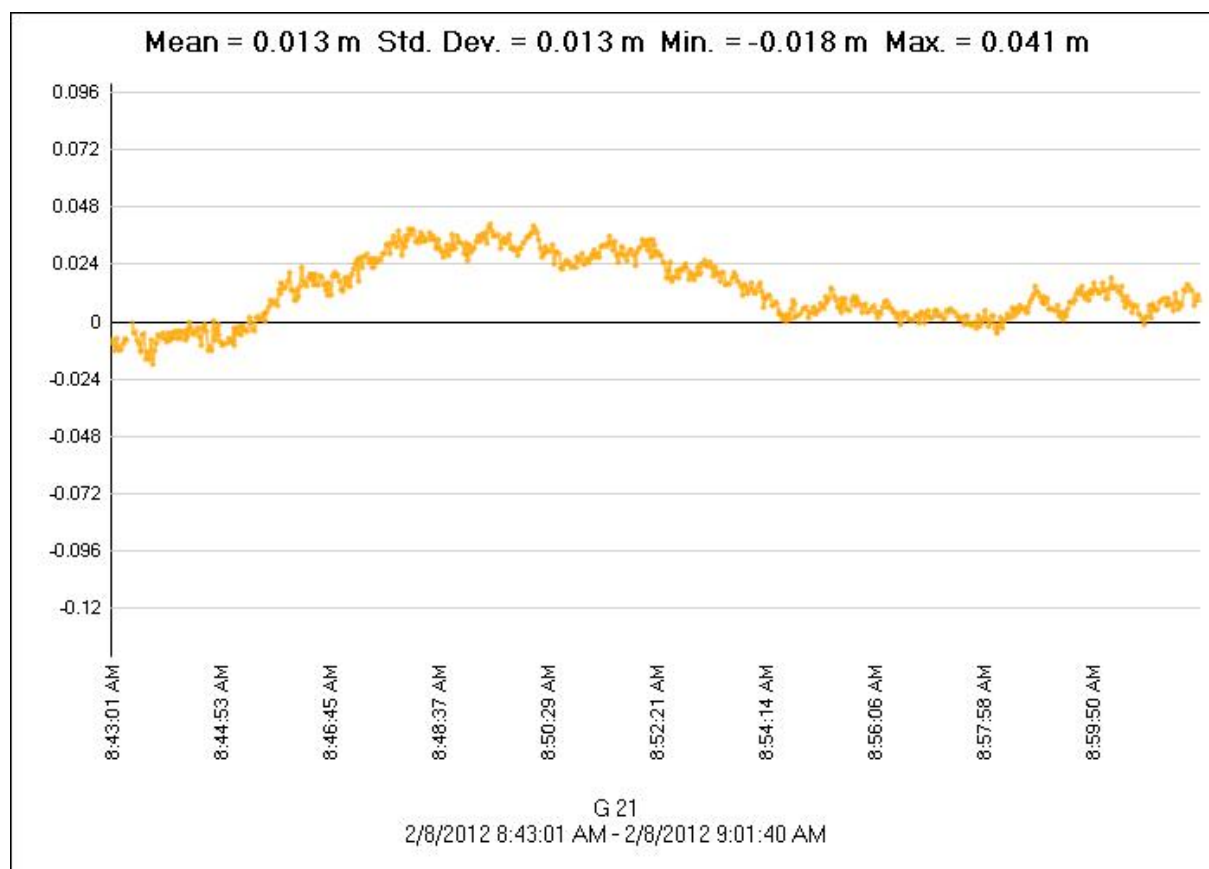
Tracking Summary



Residuals







Mean = 0.002 m Std. Dev. = 0.008 m Min. = -0.018 m Max. = 0.029 m

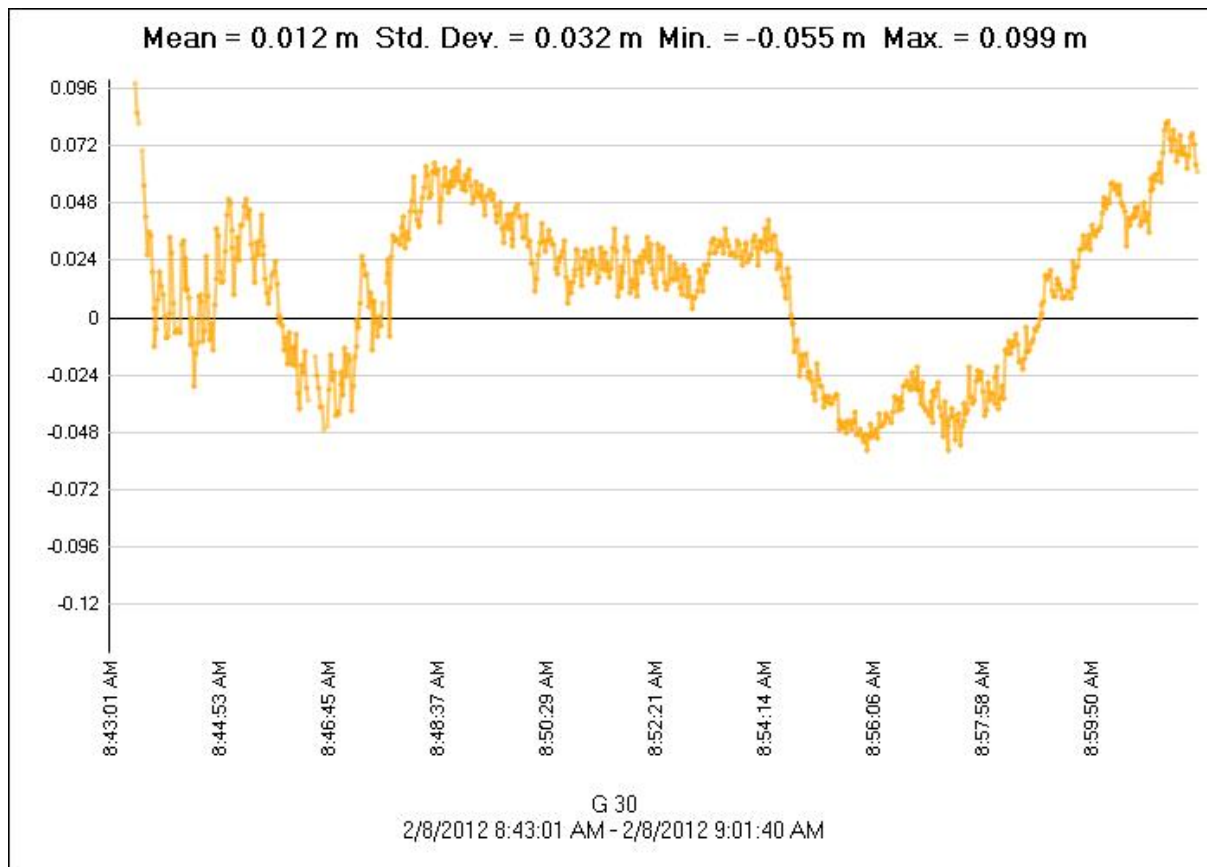


G 26
2/8/2012 8:43:01 AM - 2/8/2012 9:01:40 AM

Mean = 0.004 m Std. Dev. = 0.006 m Min. = -0.011 m Max. = 0.018 m





G 29
2/8/2012 8:43:01 AM - 2/8/2012 9:01:40 AM



Processing style

Elevation mask:	10.0 deg
Auto start processing:	Yes
Start automatic ID numbering:	AUTO0001
Continuous vectors:	No
Generate residuals:	Yes
Antenna model:	Automatic
Ephemeris type:	Automatic
Frequency:	Dual Frequency (L1, L2)
Processing Interval:	Use all data
Force float:	No

Acceptance Criteria

Vector Component	Flag 	Fail 
Horizontal Precision >	0.050 m + 1.000 ppm	0.100 m + 1.000 ppm
Vertical Precision >	0.100 m + 1.000 ppm	0.200 m + 1.000 ppm

HH0162 - FVA59-B2 (9:18:34 AM-9:37:34 AM) (S54)

Baseline observation: HH0162 --- FVA59-B2 (B54)

Processed: 3/21/2012 10:58:42 AM

Solution type: Fixed

Frequency used: Dual Frequency (L1, L2)

Horizontal precision: 0.016 m

Vertical precision: 0.028 m

RMS: 0.003 m

Maximum PDOP: 3.064

Ephemeris used: Broadcast

Antenna model: US National Geodetic Survey Calibration

Processing start time: 2/8/2012 9:18:34 AM (Local: UTC-7hr)

Processing stop time: 2/8/2012 9:37:34 AM (Local: UTC-7hr)

Processing duration: 00:19:00

Processing interval: .5 second

Vector Components (Mark to Mark)

From:	HH0162				
Grid		Local		Global	
Easting	334883.094 m	Latitude	N37°57'51.89981"	Latitude	N37°57'51.89980"
Northing	4203533.480 m	Longitude	W100°52'46.80868"	Longitude	W100°52'46.80868"
Elevation	875.739 m	Height	850.245 m	Height	850.245 m

To:	FVA59-B2				
Grid		Local		Global	
Easting	333853.939 m	Latitude	N37°50'14.65407"	Latitude	N37°50'14.65406"
Northing	4189454.548 m	Longitude	W100°53'17.28575"	Longitude	W100°53'17.28575"
Elevation	893.827 m	Height	868.123 m	Height	868.123 m

Vector					
9Ughb[	-1029.155 m	NS Fwd Azimuth	183°01'33"	L	-2369.380 m
Bcfh\jb[	-14078.932 m	Ellipsoid Dist.	14117.374 m	M	-8378.811 m
9`Yj Uhcb	18.088 m	<Y][\h	17.878 m	N	-11114.671 m

Standard Errors

Vector errors:

Point ID	0.004 m	Point Description	0°00'00"	Point Type	0.005 m
Point ID	0.007 m	Point Description	0.007 m	Point Type	0.010 m
Point ID	0.014 m	Point Description	0.014 m	Point Type	0.012 m

Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0000260099		
Y	0.0000242316	0.0001087480	
Z	-0.0000213127	-0.0000831127	0.0001343632

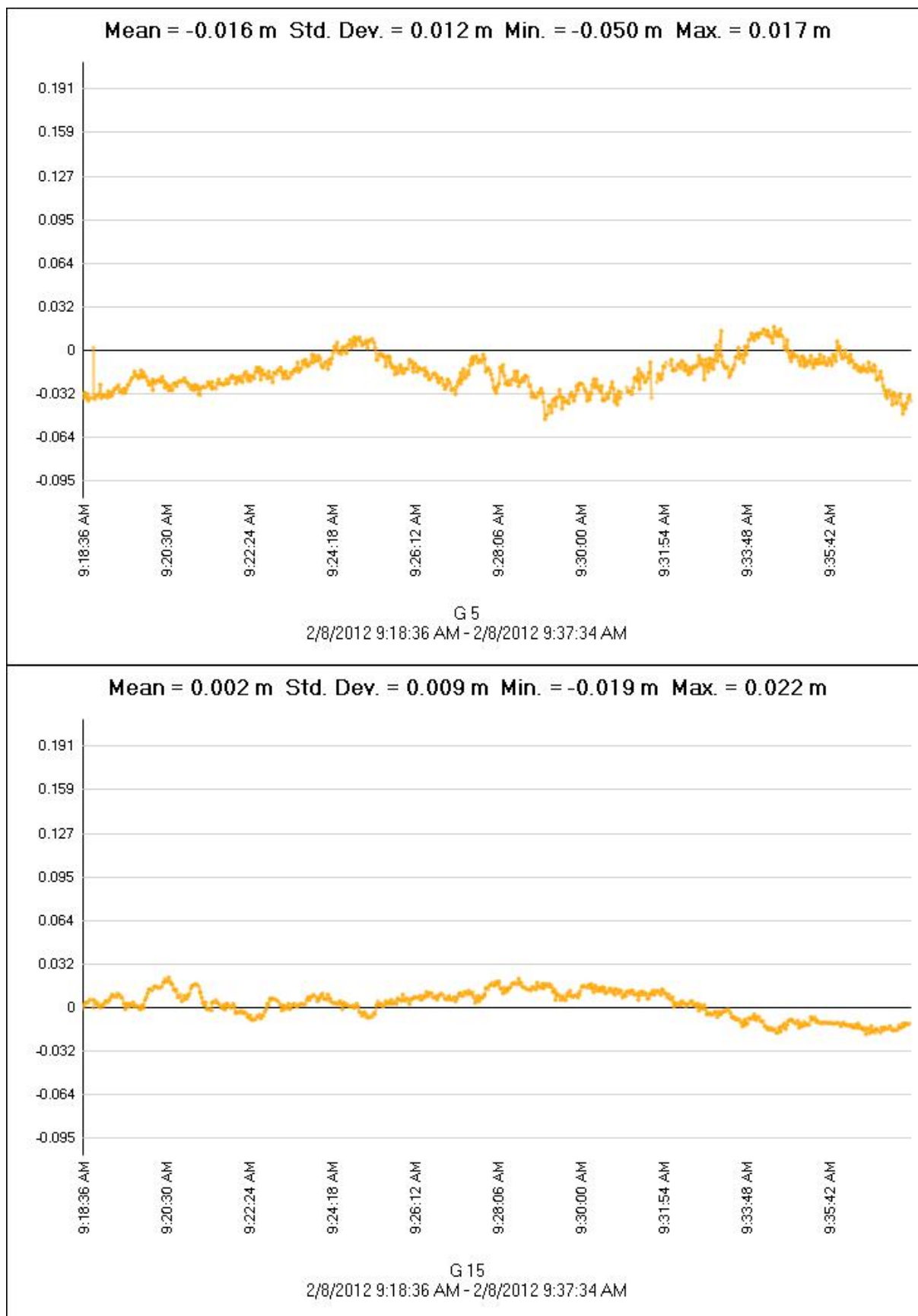
Occupations

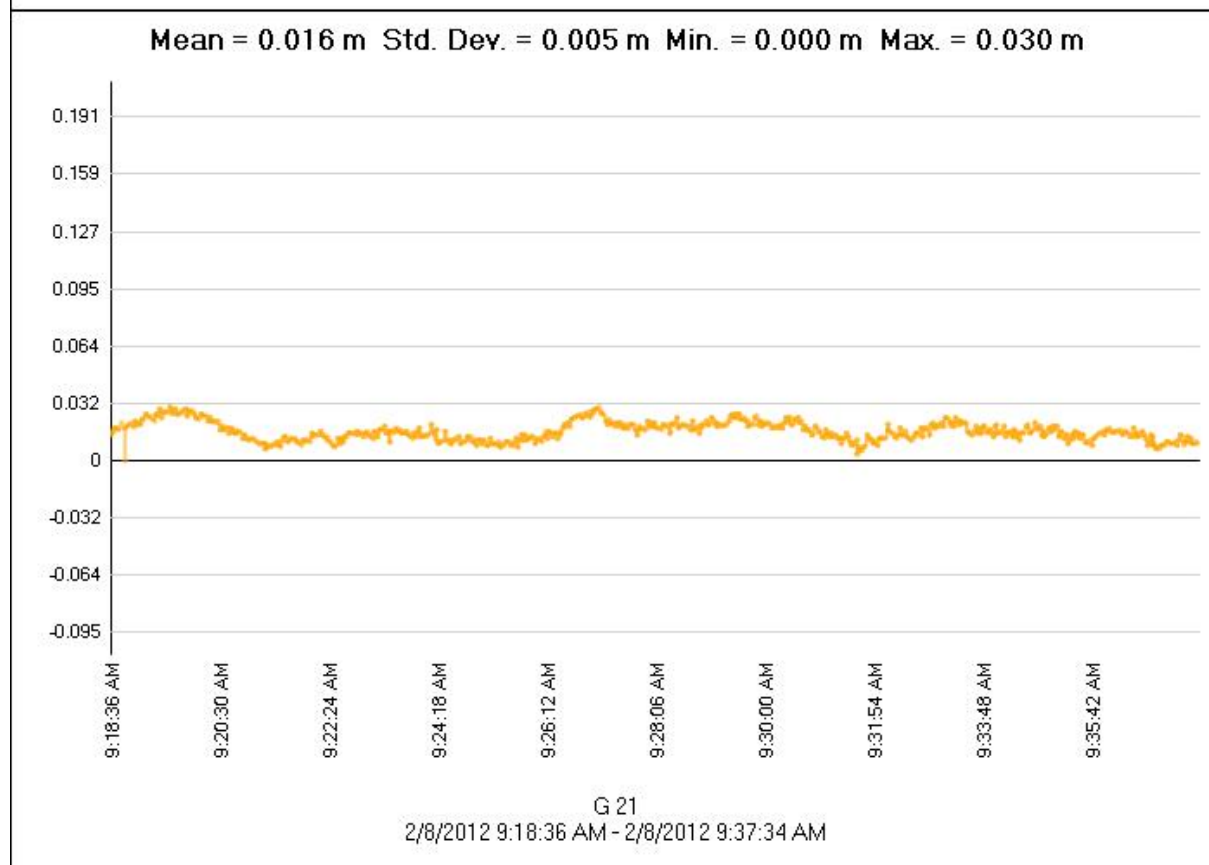
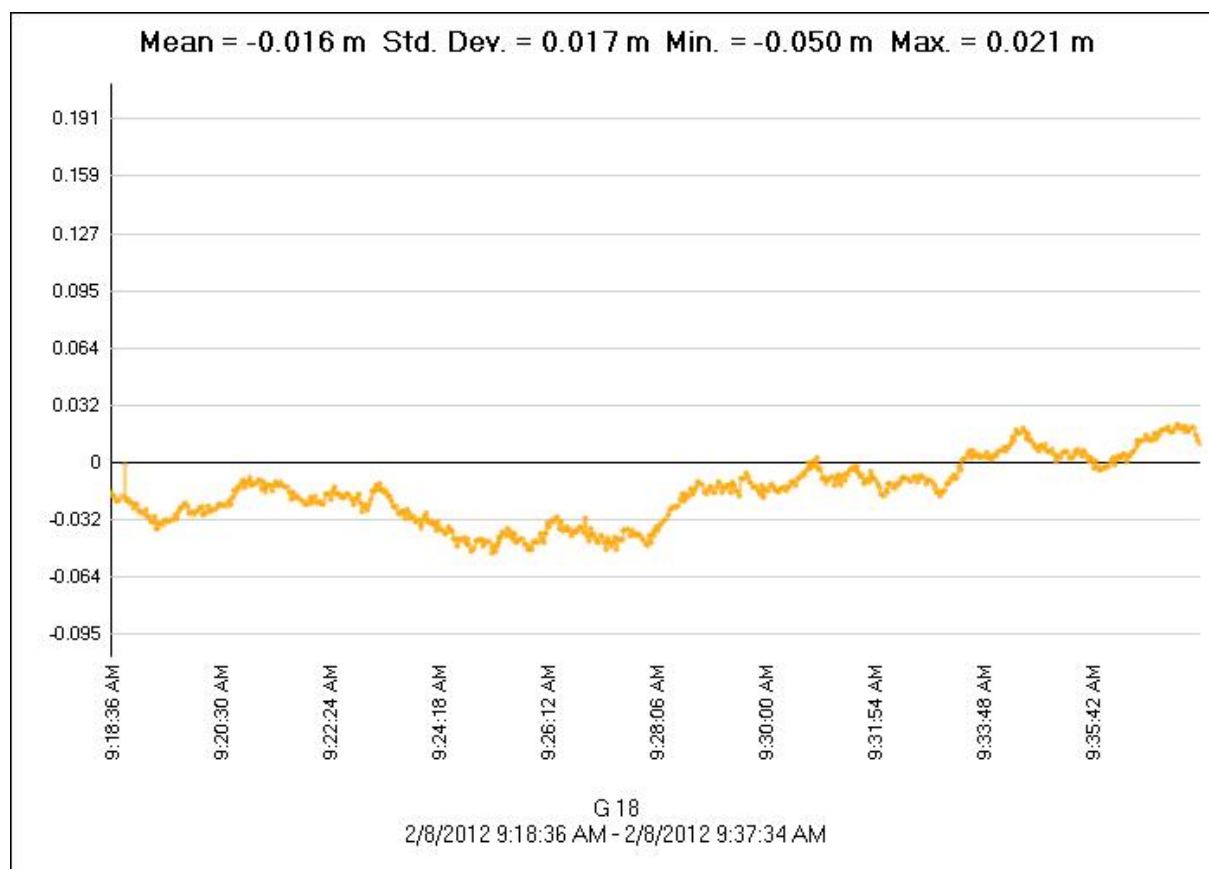
	From	To
Point ID:	HH0162	FVA59-B2
Data file:	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00010390.12o	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00080392.12o
Receiver type:	Unknown	Unknown
Receiver serial number:		
Antenna type:	Unknown External	Unknown External
Antenna serial number:	-----	-----
Antenna height (measured):	1.565 m	2.065 m
Antenna method:	Antenna Phase Center	Antenna Phase Center

Tracking Summary

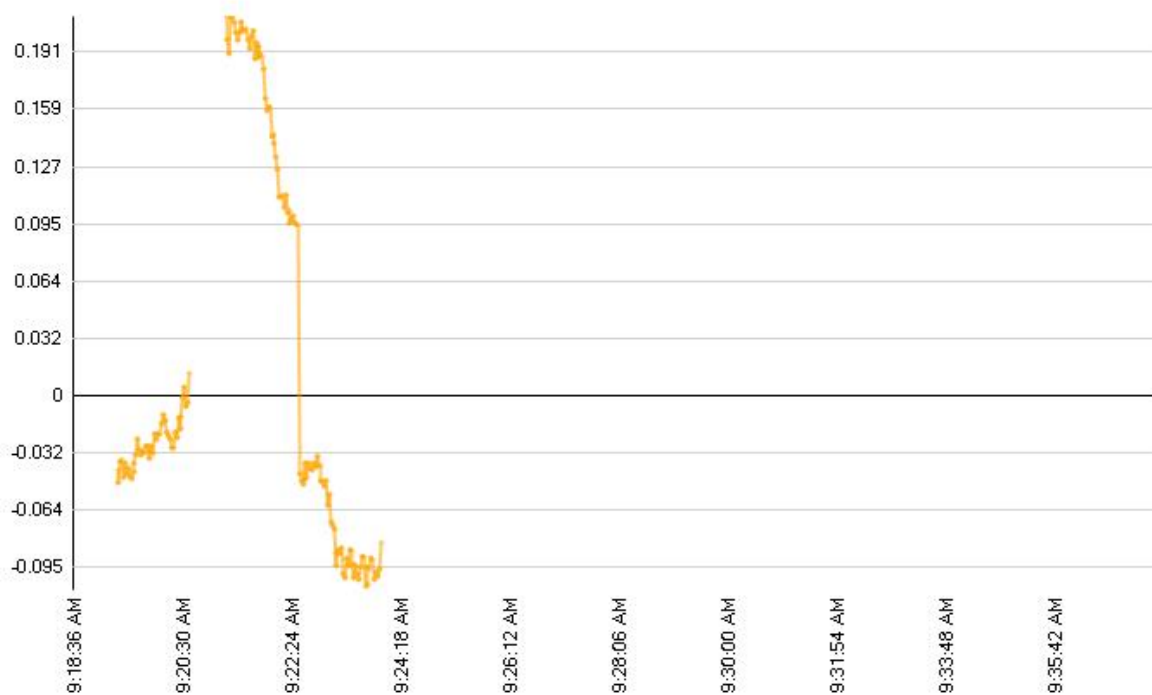
SV	2/8/2012 9:18:34 AM	Duration: 00:19:00	Major interval: 00:01:00	2/8/2012 9:37:34 AM
G 2	<div><div>L1</div><div>L2</div></div>			
G 5	<div><div>L1</div><div>L2</div></div>			
G 15	<div><div>L1</div><div>L2</div></div>			
G 16	<div><div>L1</div><div>L2</div></div>			
G 18	<div><div>L1</div><div>L2</div></div>			
G 21	<div><div>L1</div><div>L2</div></div>			
G 25	<div><div>L1</div><div>L2</div></div>			
G 26	<div><div>L1</div><div>L2</div></div>			
G 29	<div><div>L1</div><div>L2</div></div>			
G 30	<div><div>L1</div><div>L2</div></div>			

Residuals





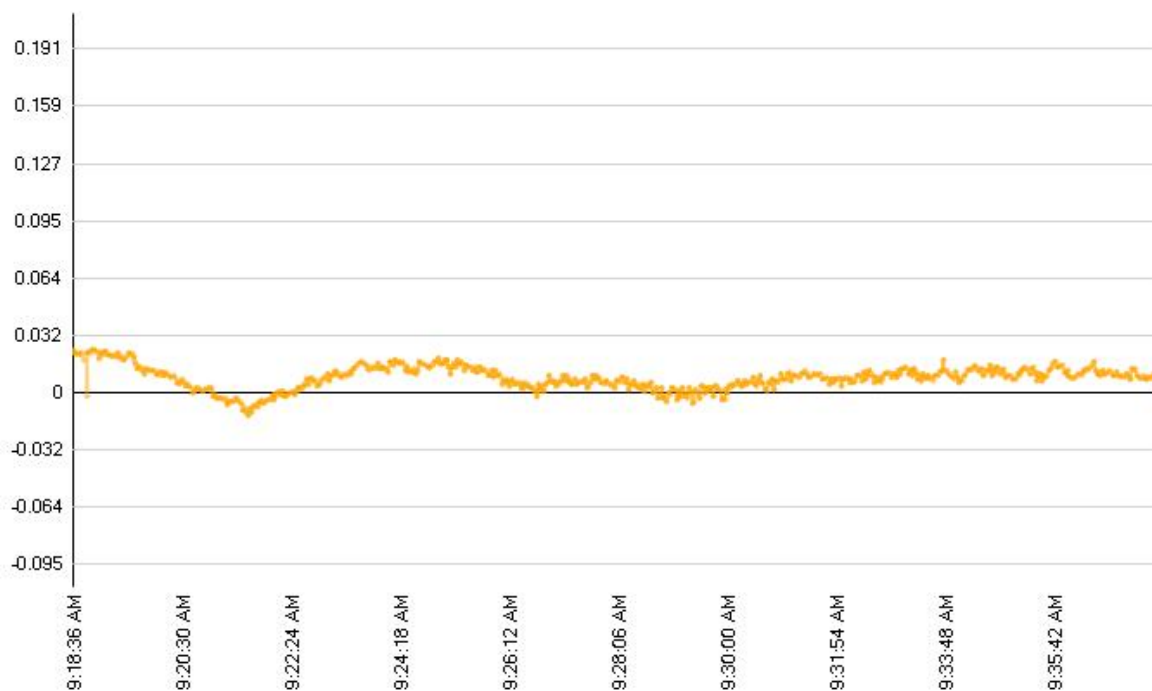
Mean = 0.018 m Std. Dev. = 0.105 m Min. = -0.107 m Max. = 0.211 m



G 25

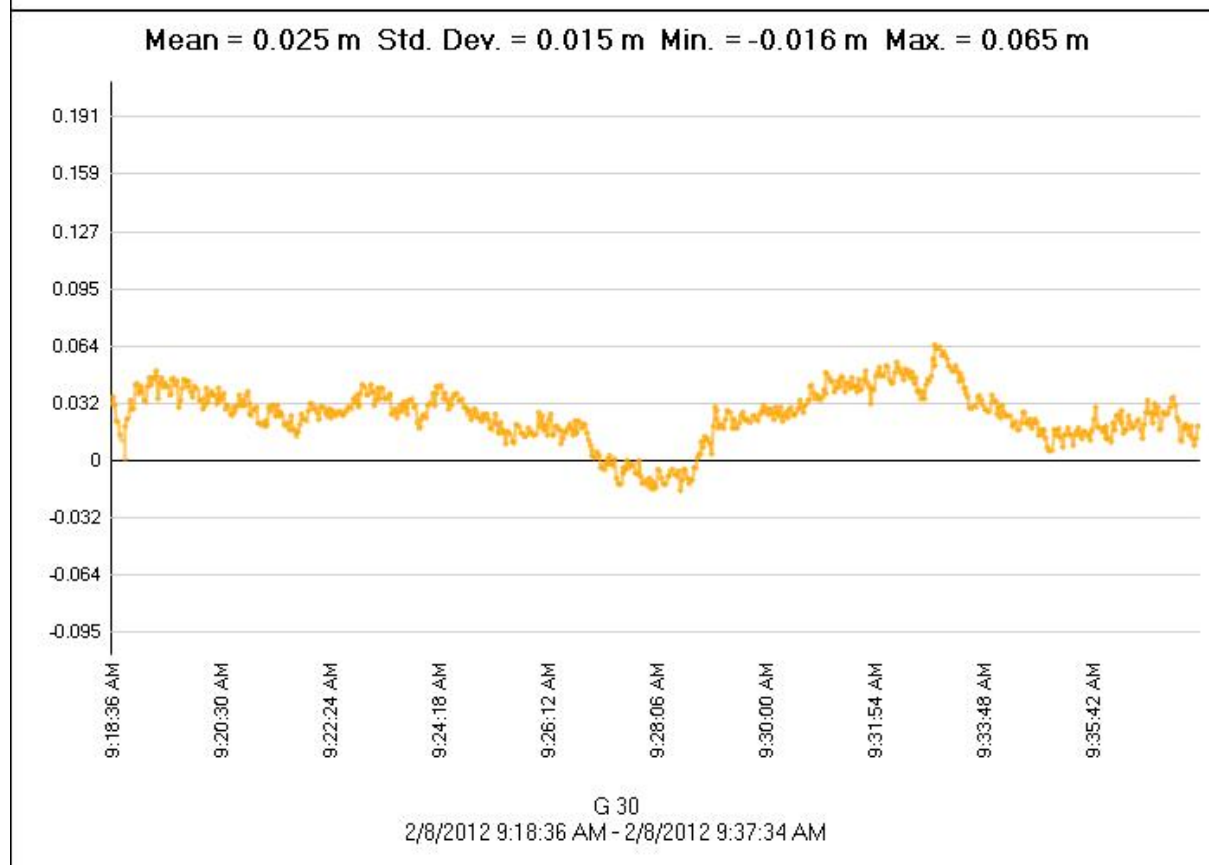
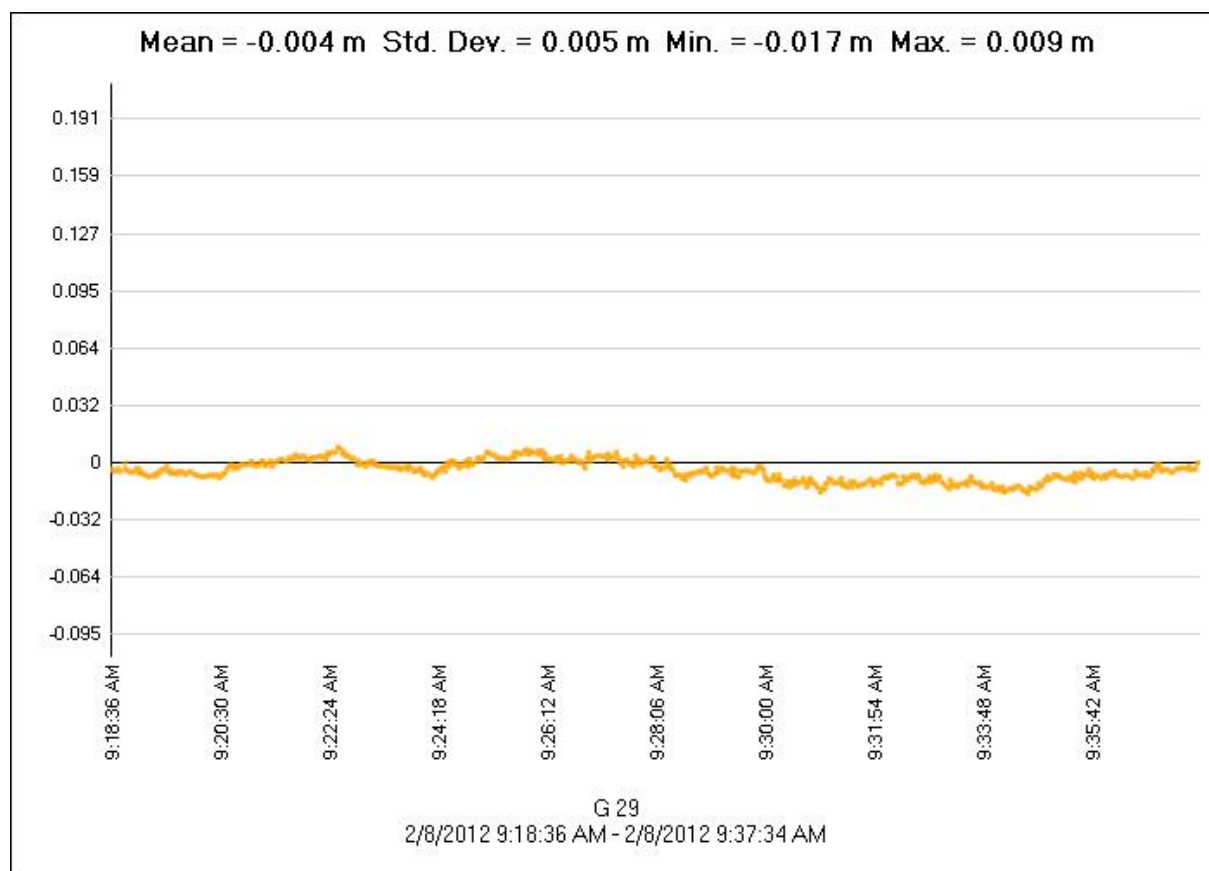
2/8/2012 9:18:36 AM - 2/8/2012 9:37:34 AM

Mean = 0.008 m Std. Dev. = 0.006 m Min. = -0.012 m Max. = 0.024 m



G 26



2/8/2012 9:18:36 AM - 2/8/2012 9:37:34 AM



Processing style

Elevation mask:	10.0 deg
Auto start processing:	Yes
Start automatic ID numbering:	AUTO0001
Continuous vectors:	No
Generate residuals:	Yes
Antenna model:	Automatic
Ephemeris type:	Automatic
Frequency:	Dual Frequency (L1, L2)
Processing Interval:	Use all data
Force float:	No

Acceptance Criteria

Vector Component	Flag 	Fail 
Horizontal Precision >	0.050 m + 1.000 ppm	0.100 m + 1.000 ppm
Vertical Precision >	0.100 m + 1.000 ppm	0.200 m + 1.000 ppm

HH0162 - SVA59-B2 (9:47:02 AM-10:01:40 AM) (S55)

Baseline observation: HH0162 --- SVA59-B2 (B55)

Processed: 3/21/2012 10:58:29 AM

Solution type: Fixed

Frequency used: Dual Frequency (L1, L2)

Horizontal precision: 0.017 m

Vertical precision: 0.043 m

RMS: 0.004 m

Maximum PDOP: 4.238

Ephemeris used: Broadcast

Antenna model: US National Geodetic Survey Calibration

Processing start time: 2/8/2012 9:47:02 AM (Local: UTC-7hr)

Processing stop time: 2/8/2012 10:01:40 AM (Local: UTC-7hr)

Processing duration: 00:14:38

Processing interval: .5 second

Vector Components (Mark to Mark)

From:	HH0162				
Grid		Local		Global	
Easting	334883.094 m	Latitude	N37°57'51.89981"	Latitude	N37°57'51.89980"
Northing	4203533.480 m	Longitude	W100°52'46.80868"	Longitude	W100°52'46.80868"
Elevation	875.739 m	Height	850.245 m	Height	850.245 m

To:	SVA59-B2				
Grid		Local		Global	
Easting	334283.461 m	Latitude	N37°51'32.10879"	Latitude	N37°51'32.10878"
Northing	4191834.261 m	Longitude	W100°53'01.68586"	Longitude	W100°53'01.68586"
Elevation	896.880 m	Height	871.205 m	Height	871.205 m

Vector					
9Ughb[	-599.633 m	NS Fwd Azimuth	181°46'44"	L	-1718.508 m
BcfA\jb[	-11699.218 m	Ellipsoid Dist.	11715.313 m	M	-7014.170 m
9`Yj U\jcb	21.141 m	<Y][\h	20.961 m	N	-9226.823 m

Standard Errors

Vector errors:					
Point 1	0.004 m	Point 2	0°00'00"	Point 3	0.005 m
Point 4	0.007 m	Point 5	0.007 m	Point 6	0.015 m
Point 7	0.022 m	Point 8	0.022 m	Point 9	0.017 m

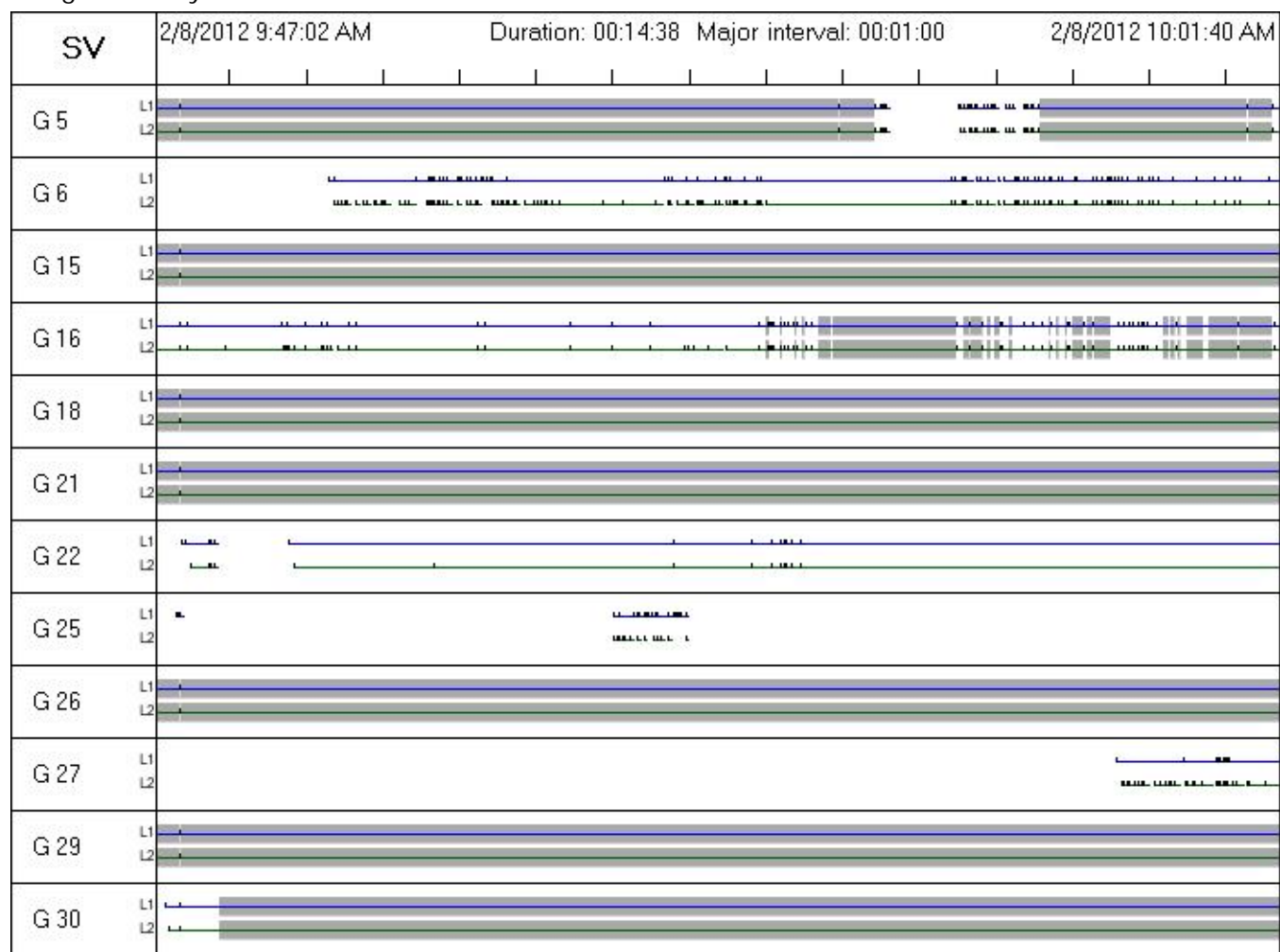
Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0000233920		
Y	0.0000404730	0.0002235084	
Z	-0.0000394681	-0.0002224749	0.0002930556

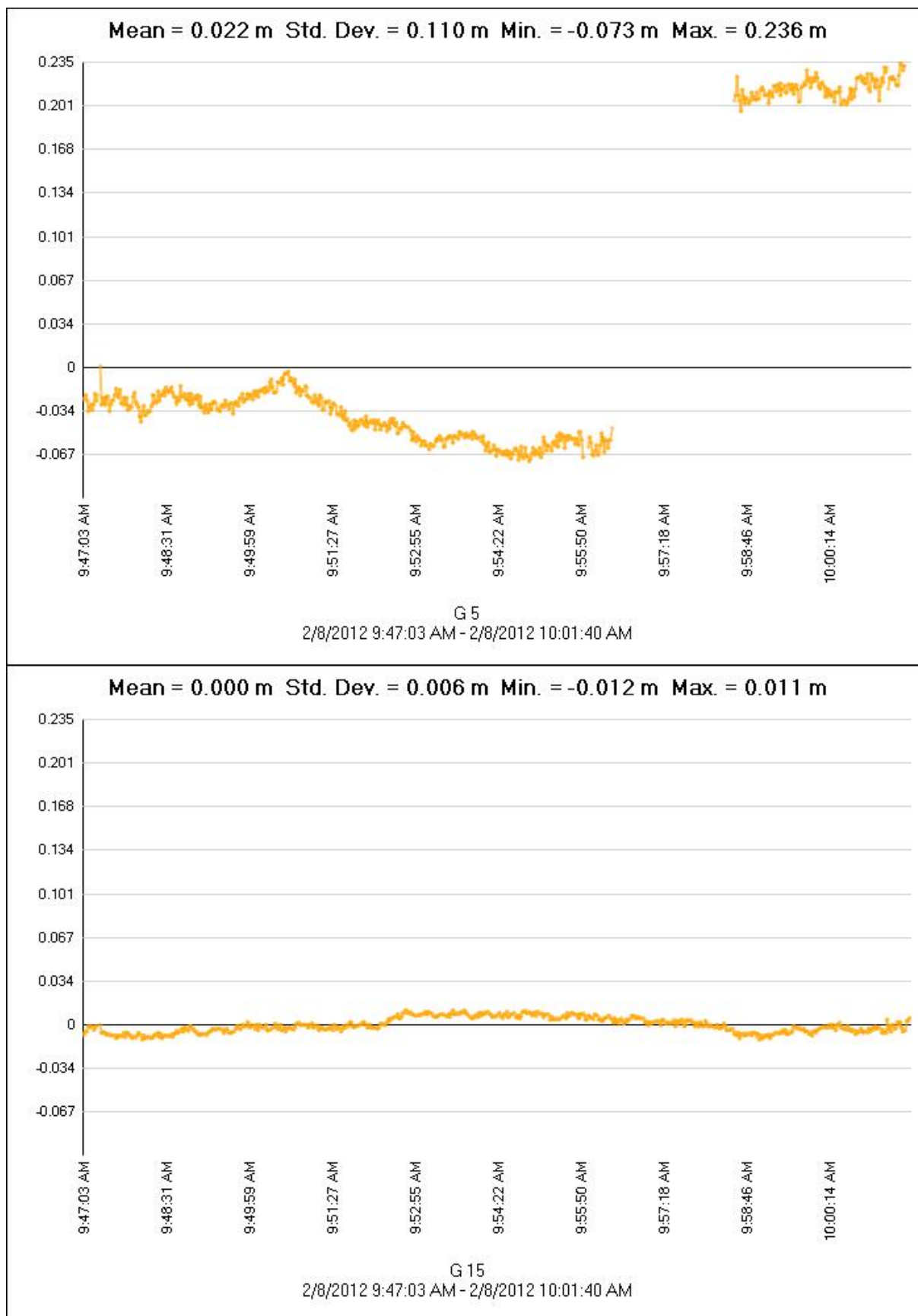
Occupations

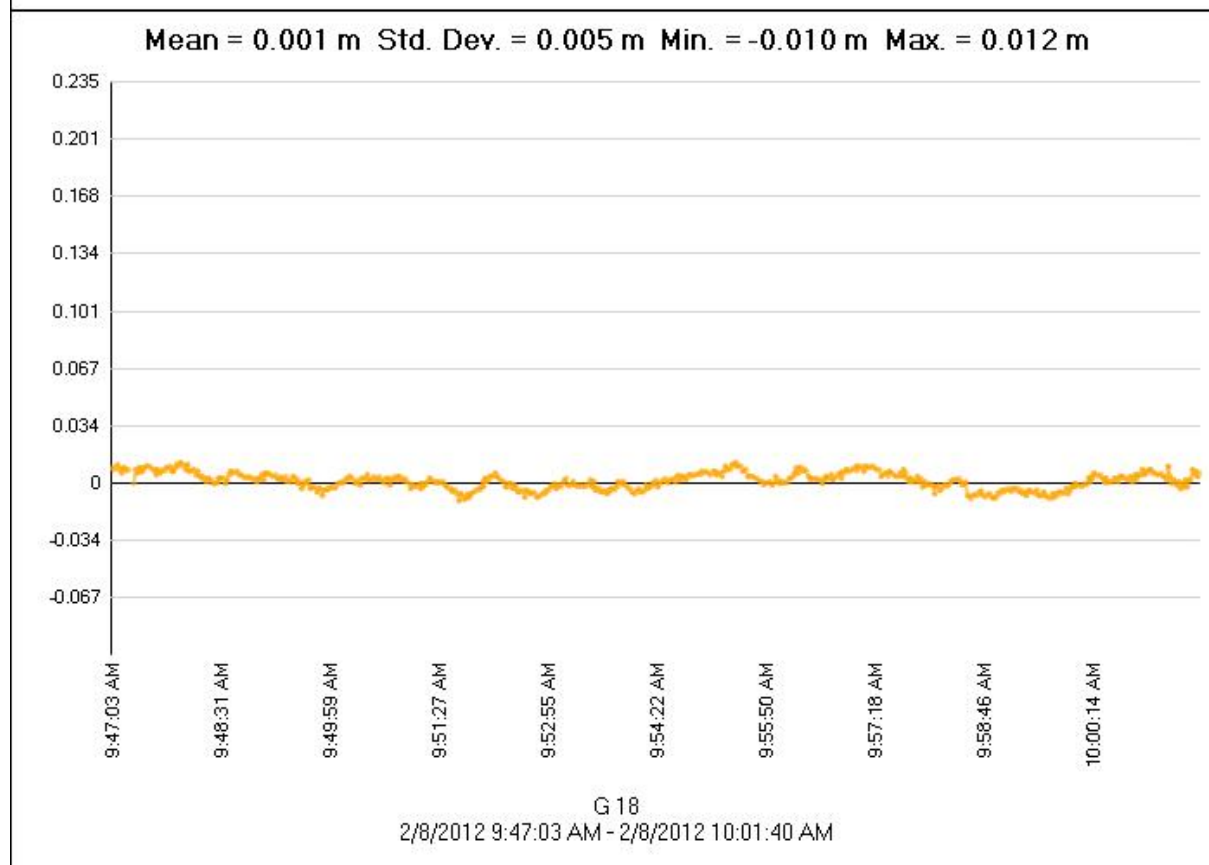
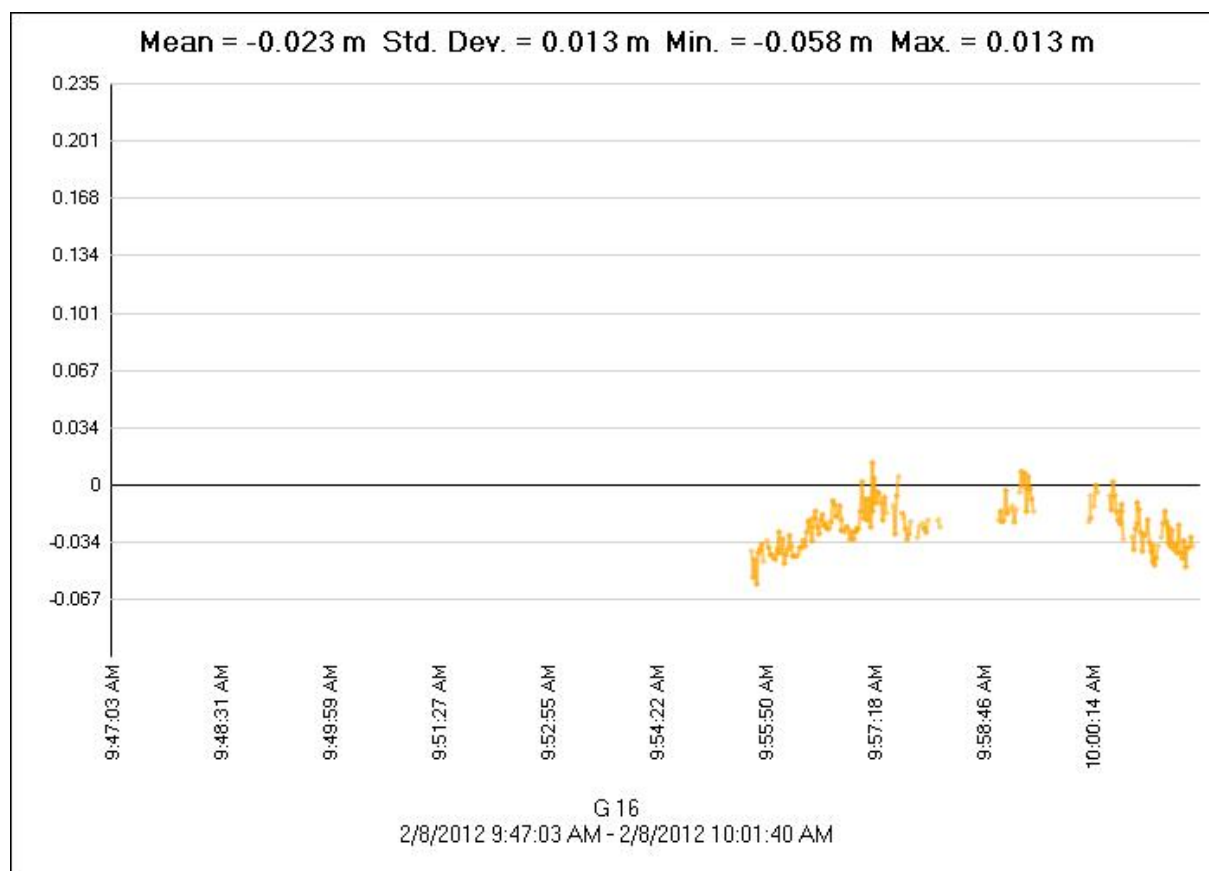
	From	To
Point ID:	HH0162	SVA59-B2
Data file:	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00010390.12o	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00080393.12o
Receiver type:	Unknown	Unknown
Receiver serial number:		
Antenna type:	Unknown External	Unknown External
Antenna serial number:	-----	-----
Antenna height (measured):	1.565 m	2.065 m
Antenna method:	Antenna Phase Center	Antenna Phase Center

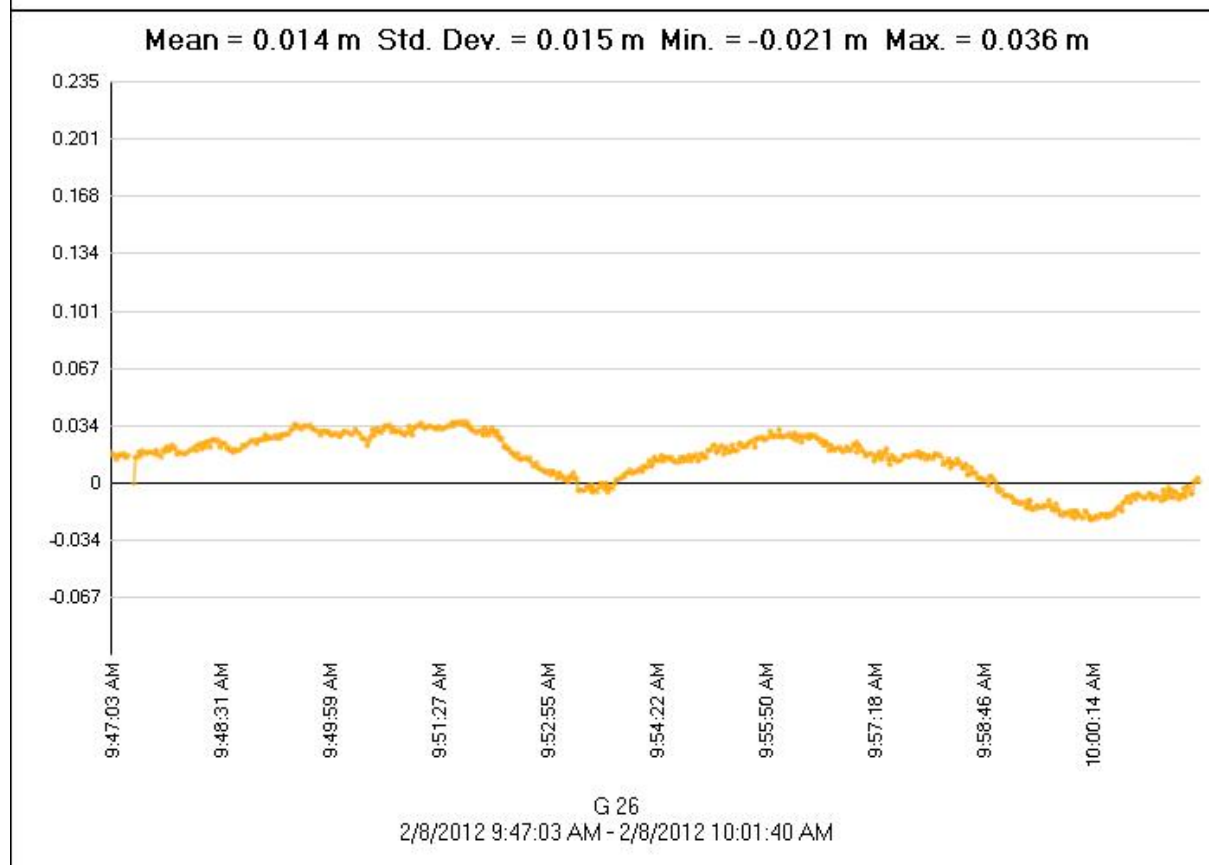
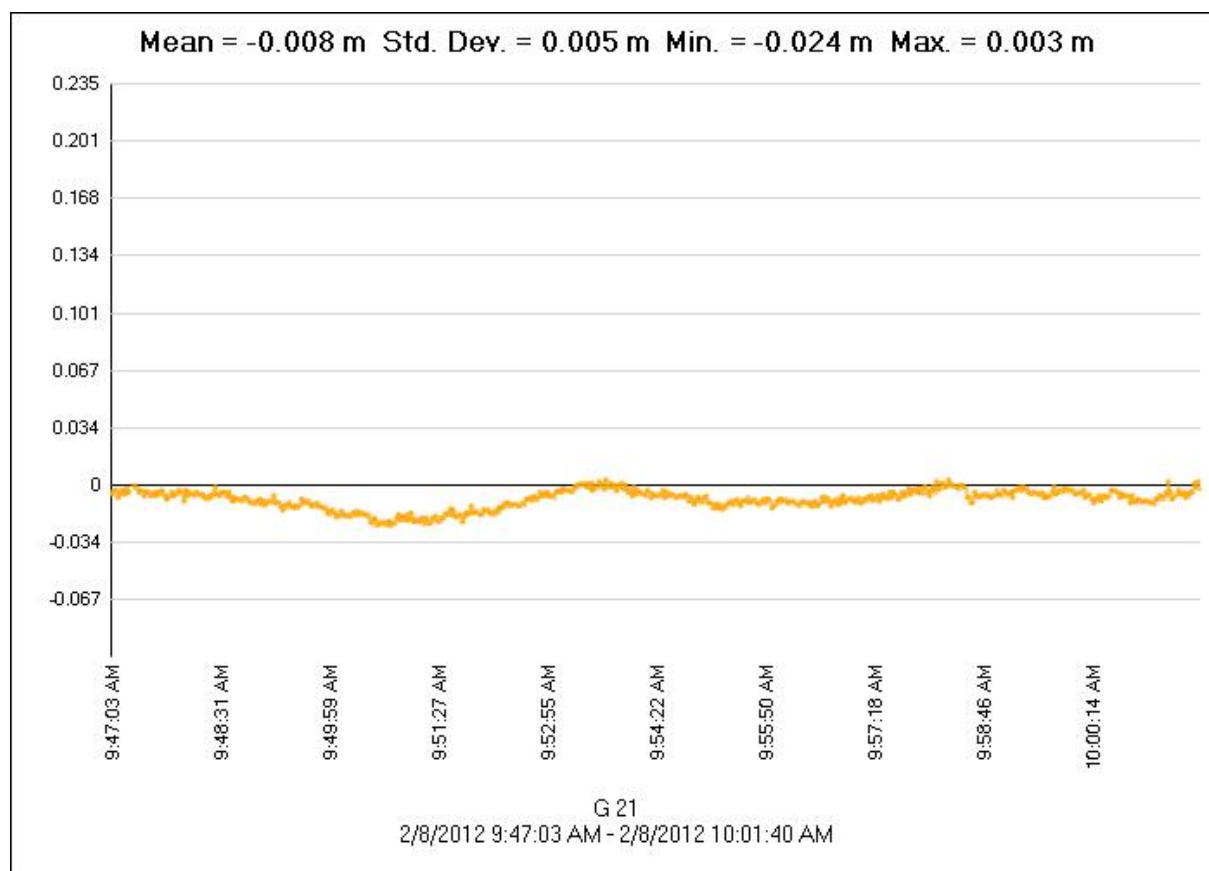
Tracking Summary

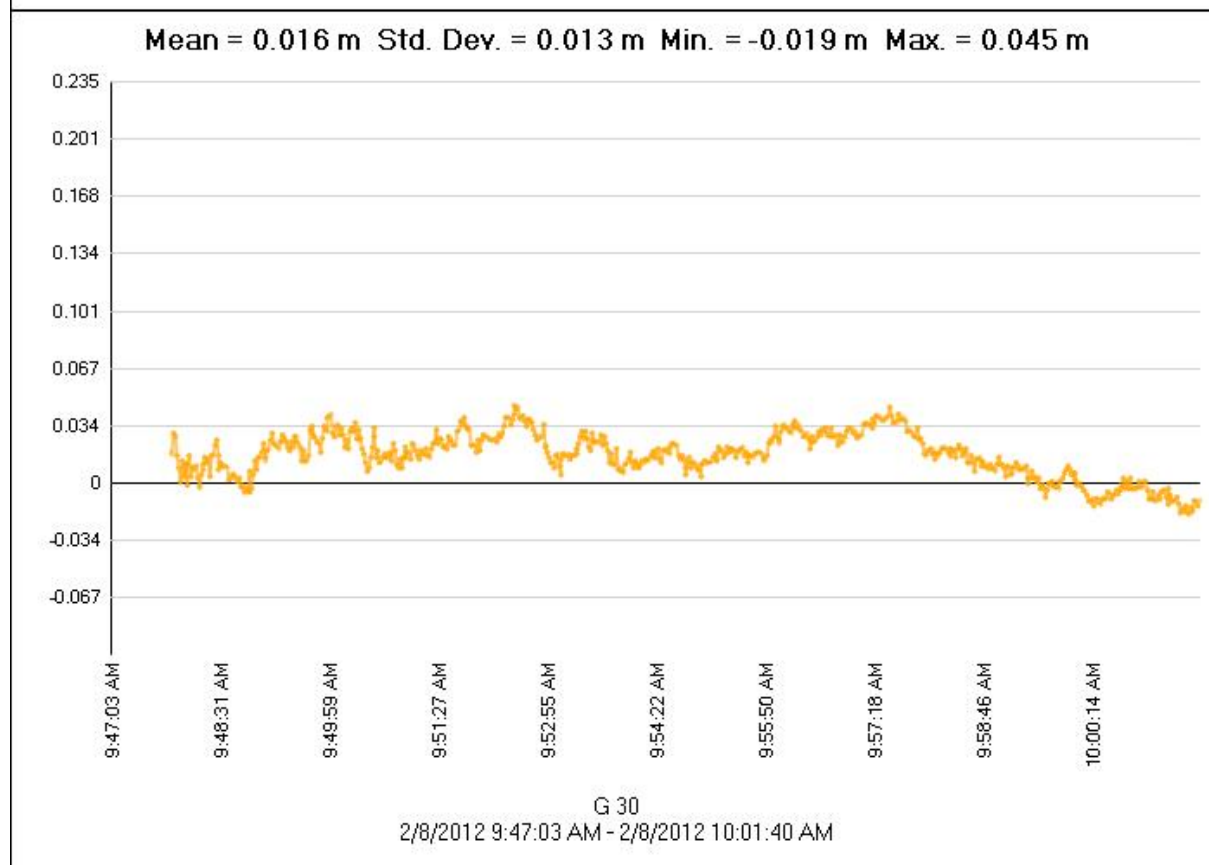
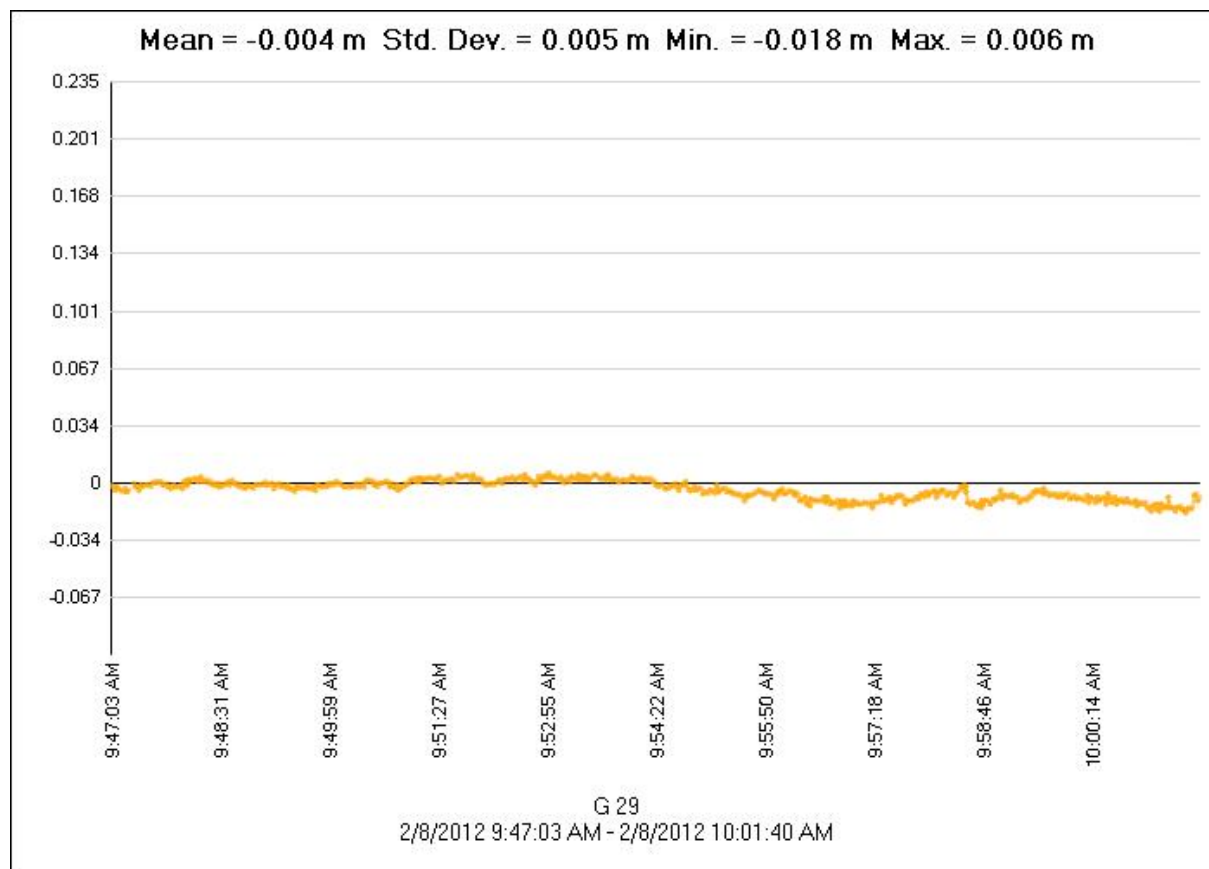


Residuals











Processing style

Elevation mask:	10.0 deg
Auto start processing:	Yes
Start automatic ID numbering:	AUTO0001
Continuous vectors:	No
Generate residuals:	Yes
Antenna model:	Automatic
Ephemeris type:	Automatic
Frequency:	Dual Frequency (L1, L2)
Processing Interval:	Use all data
Force float:	No

Acceptance Criteria

Vector Component	Flag 	Fail 
Horizontal Precision >	0.050 m + 1.000 ppm	0.100 m + 1.000 ppm
Vertical Precision >	0.100 m + 1.000 ppm	0.200 m + 1.000 ppm

HH0162 - FVA39-B2-OLD (10:48:54 AM-11:07:39 AM) (S56)

Baseline observation: HH0162 --- FVA39-B2-OLD (B56)

Processed: 3/21/2012 10:58:31 AM

Solution type: Fixed

Frequency used: Dual Frequency (L1, L2)

Horizontal precision: 0.017 m

Vertical precision: 0.023 m

RMS: 0.007 m

Maximum PDOP: 1.750

Ephemeris used: Broadcast

Antenna model: US National Geodetic Survey Calibration

Processing start time: 2/8/2012 10:48:54 AM (Local: UTC-7hr)

Processing stop time: 2/8/2012 11:07:39 AM (Local: UTC-7hr)

Processing duration: 00:18:44

Processing interval: .5 second

Vector Components (Mark to Mark)

From:	HH0162				
Grid		Local		Global	
Easting	334883.094 m	Latitude	N37°57'51.89981"	Latitude	N37°57'51.89980"
Northing	4203533.480 m	Longitude	W100°52'46.80868"	Longitude	W100°52'46.80868"
Elevation	875.739 m	Height	850.245 m	Height	850.245 m

To:	FVA39-B2-OLD				
Grid		Local		Global	
Easting	363917.073 m	Latitude	N37°40'43.96983"	Latitude	N37°40'43.96983"
Northing	4171307.447 m	Longitude	W100°32'35.56994"	Longitude	W100°32'35.56994"
Elevation	854.724 m	Height	828.756 m	Height	828.755 m

Vector					
9Ughb[	29033.979 m	NS Fwd Azimuth	136°49'47"	L	25501.278 m
Bcfh\jb[	-32226.032 m	Ellipsoid Dist.	43381.331 m	M	-24587.692 m
9Yj Uhcb	-21.014 m	<Y][\h	-21.489 m	N	-25051.133 m

Standard Errors

Vector errors:					
Point ID	0.005 m	Point ID	0°00'00"	Point ID	0.006 m
Point ID	0.007 m	Point ID	0.005 m	Point ID	0.010 m
Point ID	0.012 m	Point ID	0.012 m	Point ID	0.008 m

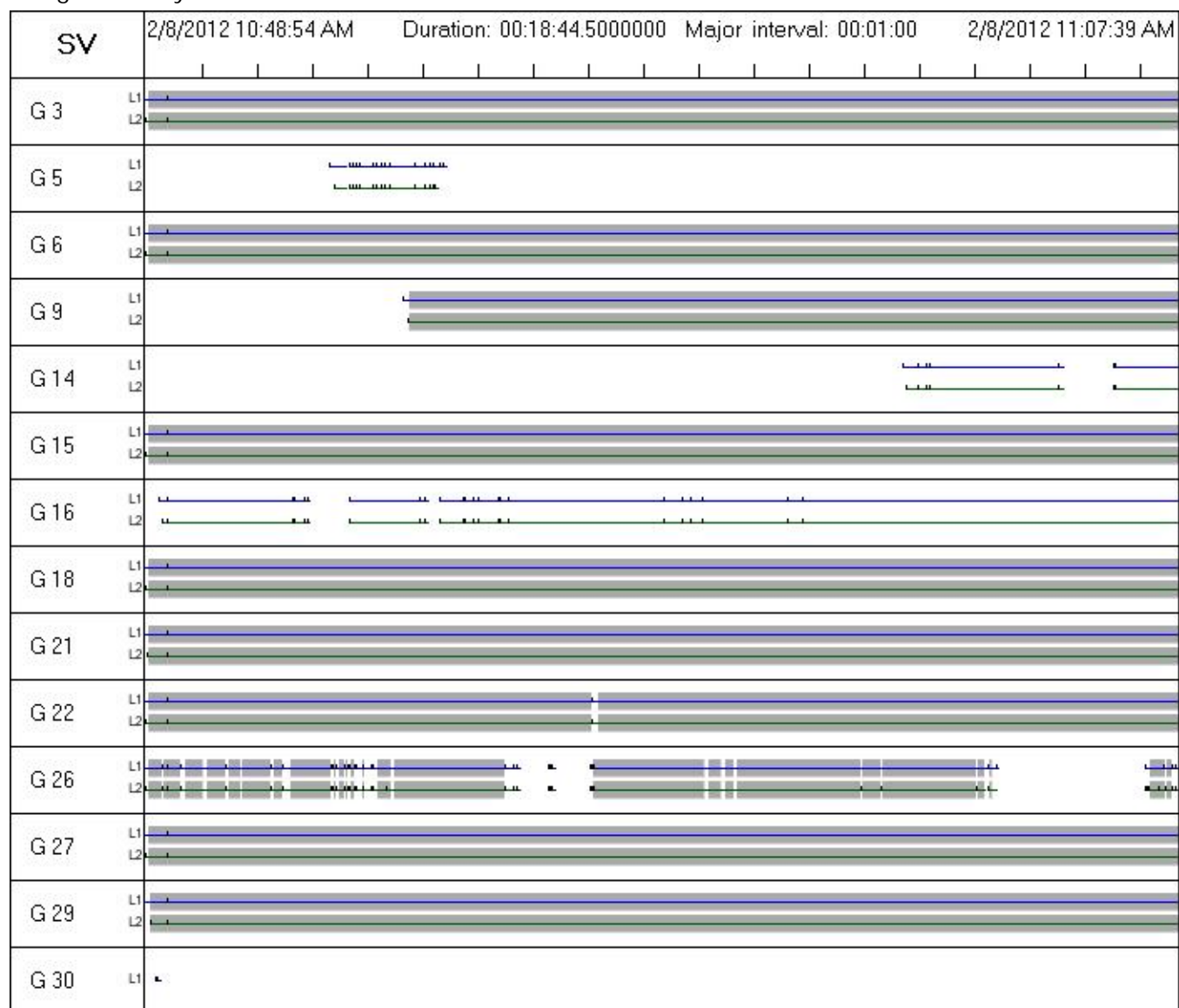
Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0000381152		
Y	0.0000318905	0.0001063588	
Z	-0.0000100417	-0.0000389005	0.0000663547

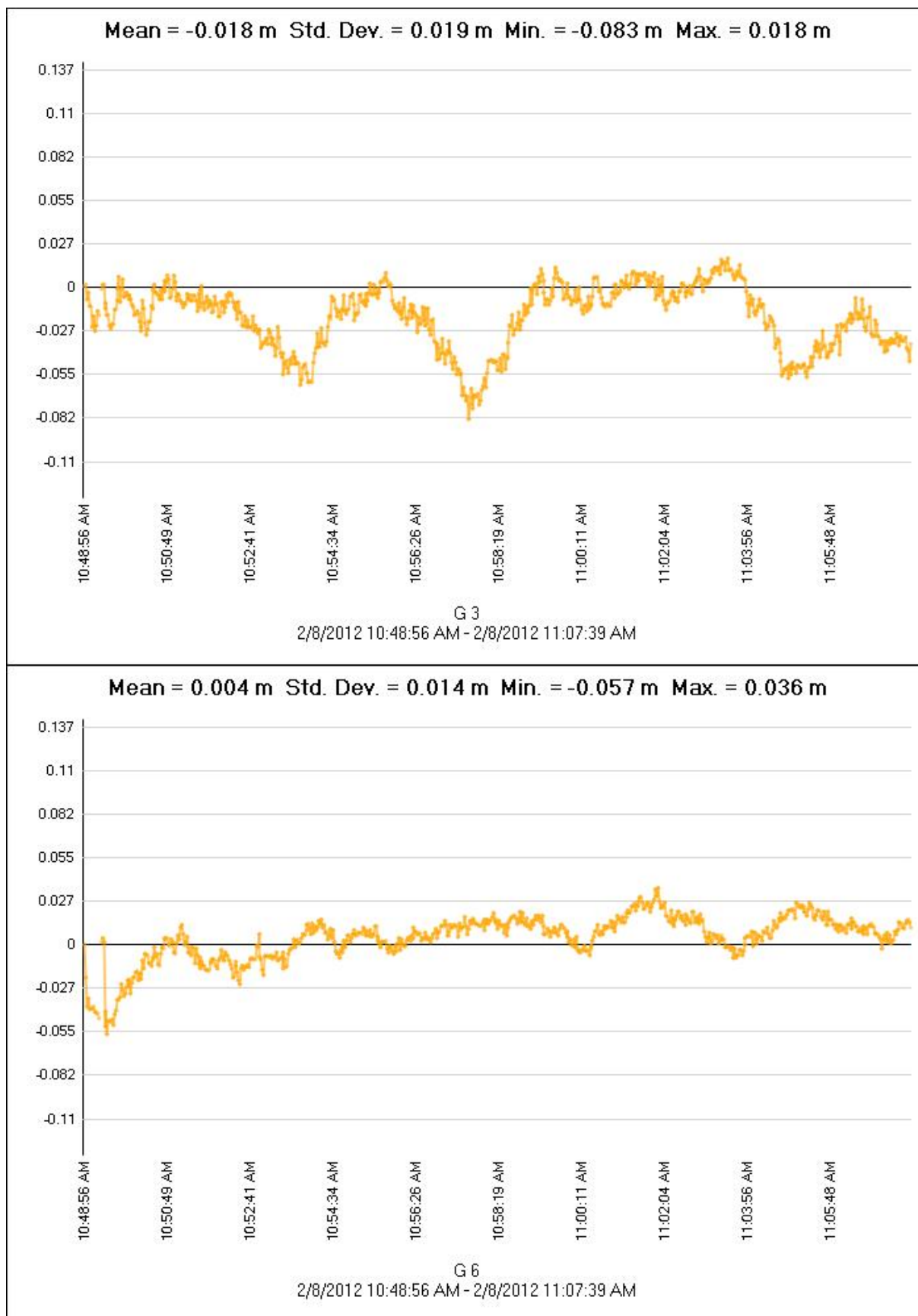
Occupations

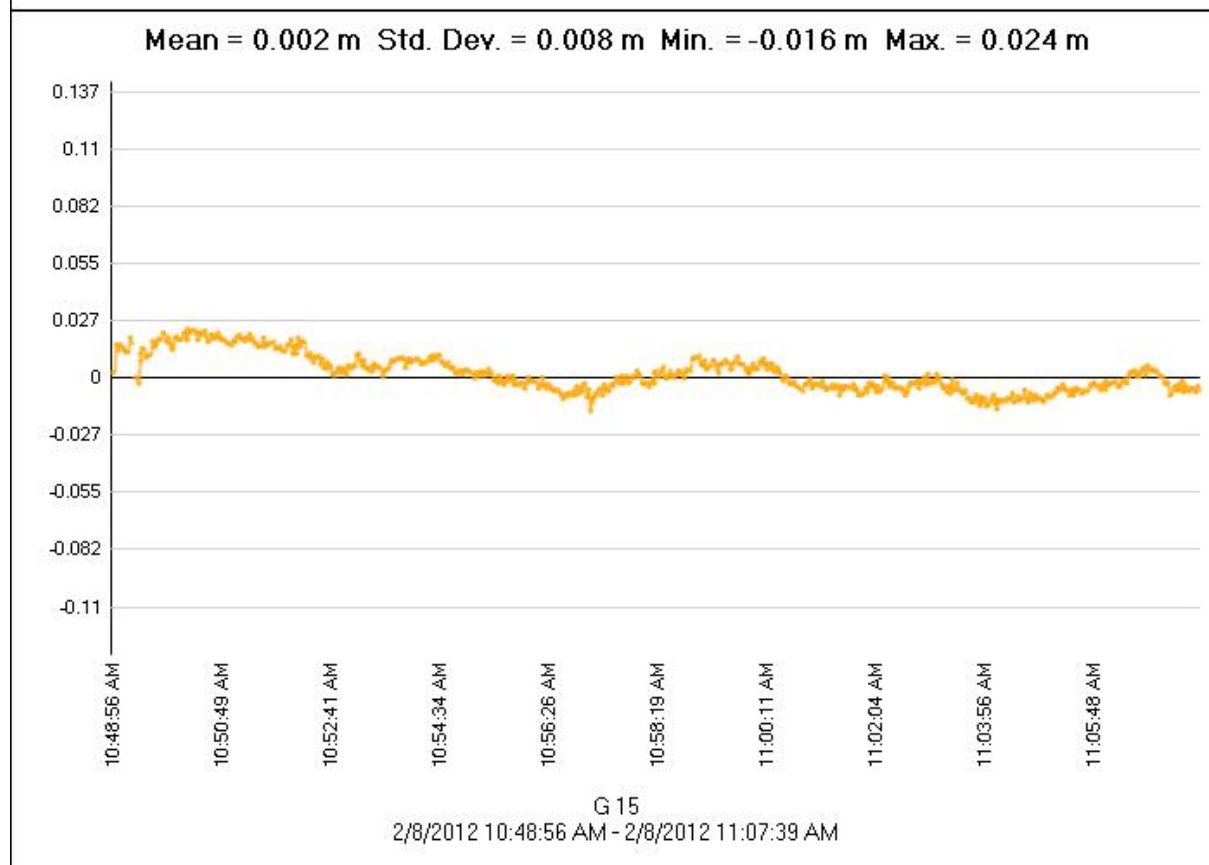
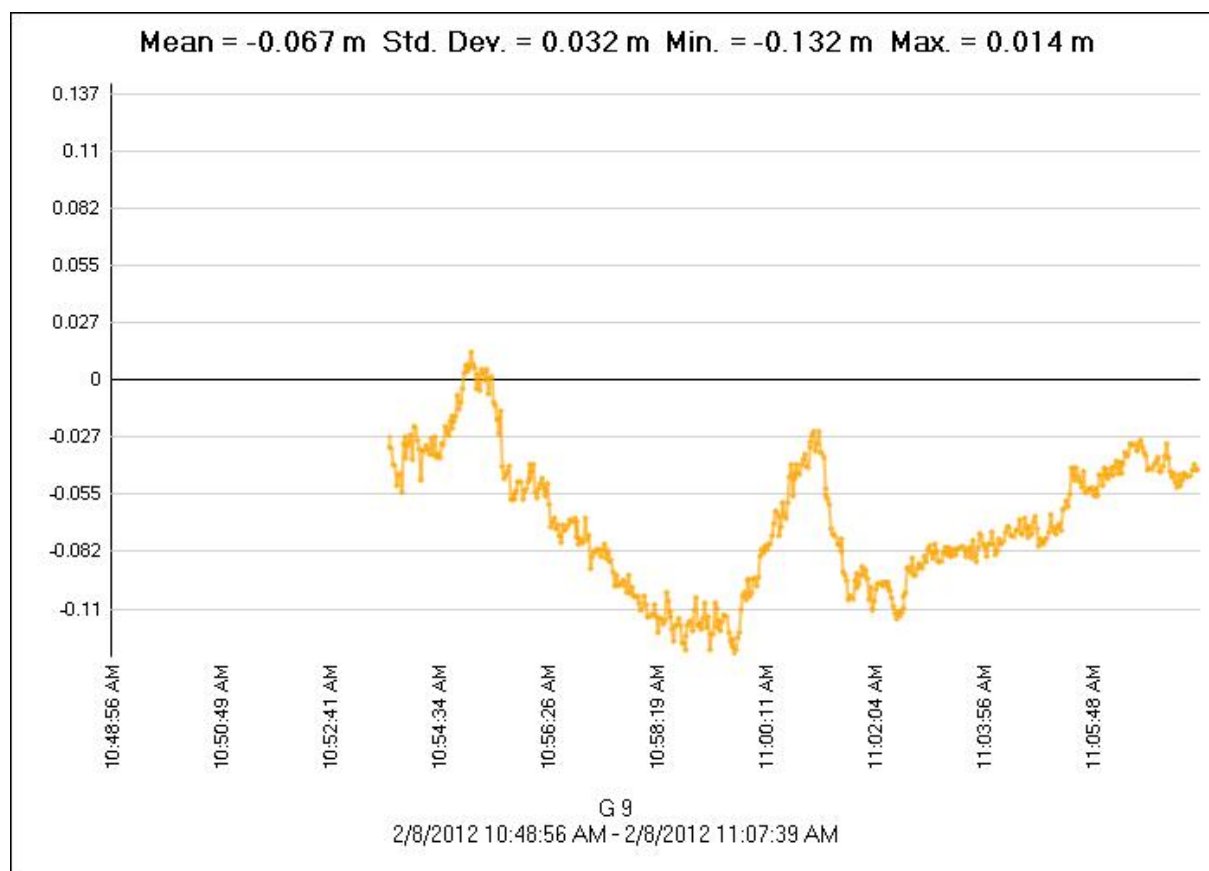
	From	To
Point ID:	HH0162	FVA39-B2-OLD
Data file:	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00010390.12o	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00080394.12o
Receiver type:	Unknown	Unknown
Receiver serial number:		
Antenna type:	Unknown External	Unknown External
Antenna serial number:	-----	-----
Antenna height (measured):	1.565 m	2.065 m
Antenna method:	Antenna Phase Center	Antenna Phase Center

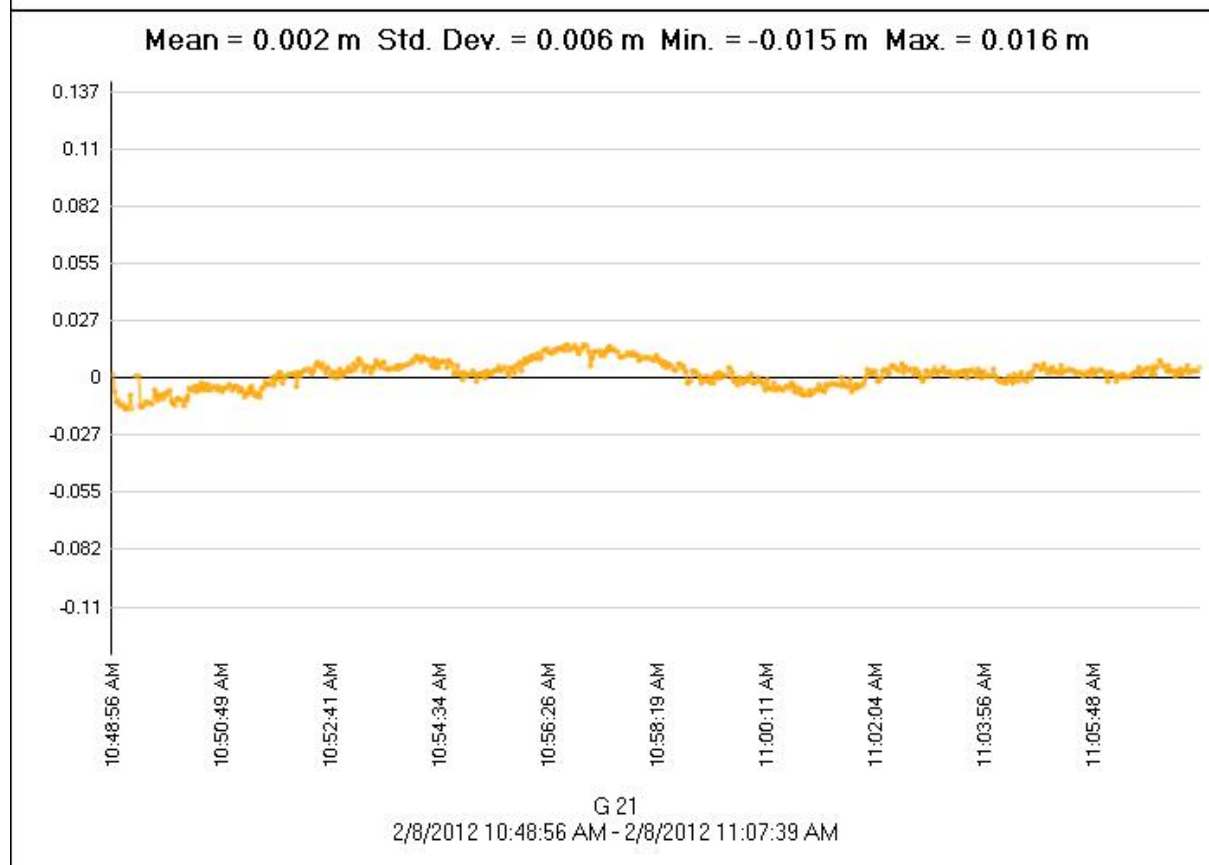
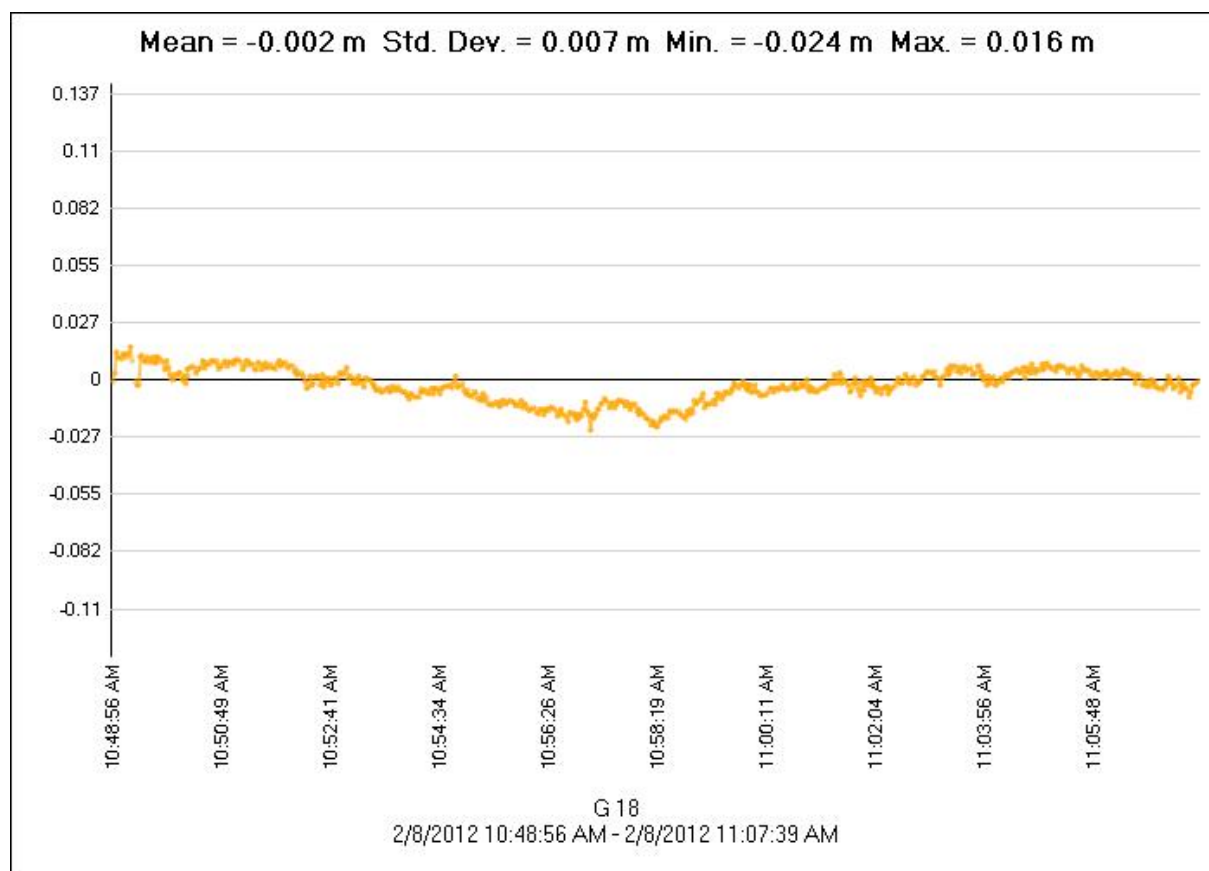
Tracking Summary



Residuals







Mean = 0.006 m Std. Dev. = 0.027 m Min. = -0.038 m Max. = 0.142 m



G 22

2/8/2012 10:48:56 AM - 2/8/2012 11:07:39 AM

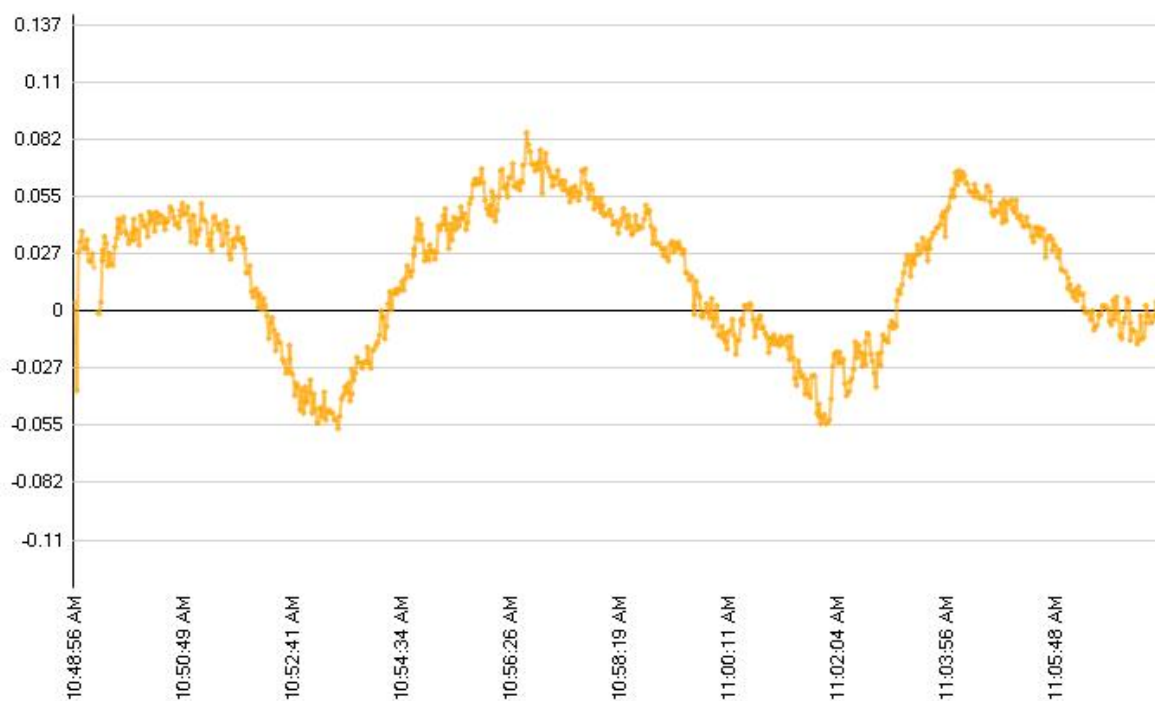
Mean = -0.016 m Std. Dev. = 0.037 m Min. = -0.122 m Max. = 0.098 m



G 26

2/8/2012 10:48:56 AM - 2/8/2012 11:07:39 AM

Mean = 0.018 m Std. Dev. = 0.032 m Min. = -0.056 m Max. = 0.085 m



G 27

2/8/2012 10:48:56 AM - 2/8/2012 11:07:39 AM

Mean = 0.004 m Std. Dev. = 0.019 m Min. = -0.054 m Max. = 0.049 m





G 29

2/8/2012 10:48:56 AM - 2/8/2012 11:07:39 AM

Processing style

Elevation mask:	10.0 deg
Auto start processing:	Yes
Start automatic ID numbering:	AUTO0001
Continuous vectors:	No
Generate residuals:	Yes
Antenna model:	Automatic
Ephemeris type:	Automatic
Frequency:	Dual Frequency (L1, L2)
Processing Interval:	Use all data
Force float:	No

Acceptance Criteria

Vector Component	Flag 	Fail 
Horizontal Precision >	0.050 m + 1.000 ppm	0.100 m + 1.000 ppm
Vertical Precision >	0.100 m + 1.000 ppm	0.200 m + 1.000 ppm

HH0162 - SVA39-B2 (11:11:54 AM-11:31:09 AM) (S57)

Baseline observation: HH0162 --- SVA39-B2 (B57)

Processed: 3/21/2012 10:58:39 AM

Solution type: Fixed

Frequency used: Dual Frequency (L1, L2)

Horizontal precision: 0.039 m

Vertical precision: 0.033 m

RMS: 0.011 m

Maximum PDOP: 4.291

Ephemeris used: Broadcast

Antenna model: US National Geodetic Survey Calibration

Processing start time: 2/8/2012 11:11:54 AM (Local: UTC-7hr)

Processing stop time: 2/8/2012 11:31:09 AM (Local: UTC-7hr)

Processing duration: 00:19:15

Processing interval: .5 second

Vector Components (Mark to Mark)

From:	HH0162				
Grid		Local		Global	
Easting	334883.094 m	Latitude	N37°57'51.89981"	Latitude	N37°57'51.89980"
Northing	4203533.480 m	Longitude	W100°52'46.80868"	Longitude	W100°52'46.80868"
Elevation	875.739 m	Height	850.245 m	Height	850.245 m

To:	SVA39-B2				
Grid		Local		Global	
Easting	363916.754 m	Latitude	N37°40'45.01064"	Latitude	N37°40'45.01063"
Northing	4171339.540 m	Longitude	W100°32'35.60454"	Longitude	W100°32'35.60454"
Elevation	853.600 m	Height	827.631 m	Height	827.631 m

Vector					
9Ughb[	29033.660 m	NS Fwd Azimuth	136°48'06"	L	25504.197 m
BcfA\jb[	-32193.939 m	Ellipsoid Dist.	43357.277 m	M	-24567.377 m
9`Yj Uhcb	-22.139 m	<Y][\h	-22.613 m	N	-25026.420 m

Standard Errors

Vector errors:

Point ID	0.006 m	Point Description	0°00'00"	Point Type	0.007 m
Point ID	0.015 m	Point Description	0.014 m	Point Type	0.007 m
Point ID	0.017 m	Point Description	0.017 m	Point Type	0.021 m




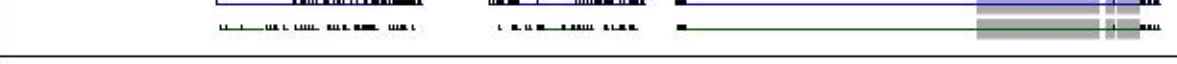









Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0000461543		
Y	0.0000298776	0.0000503319	
Z	-0.0001156228	-0.0000568889	0.0004564704

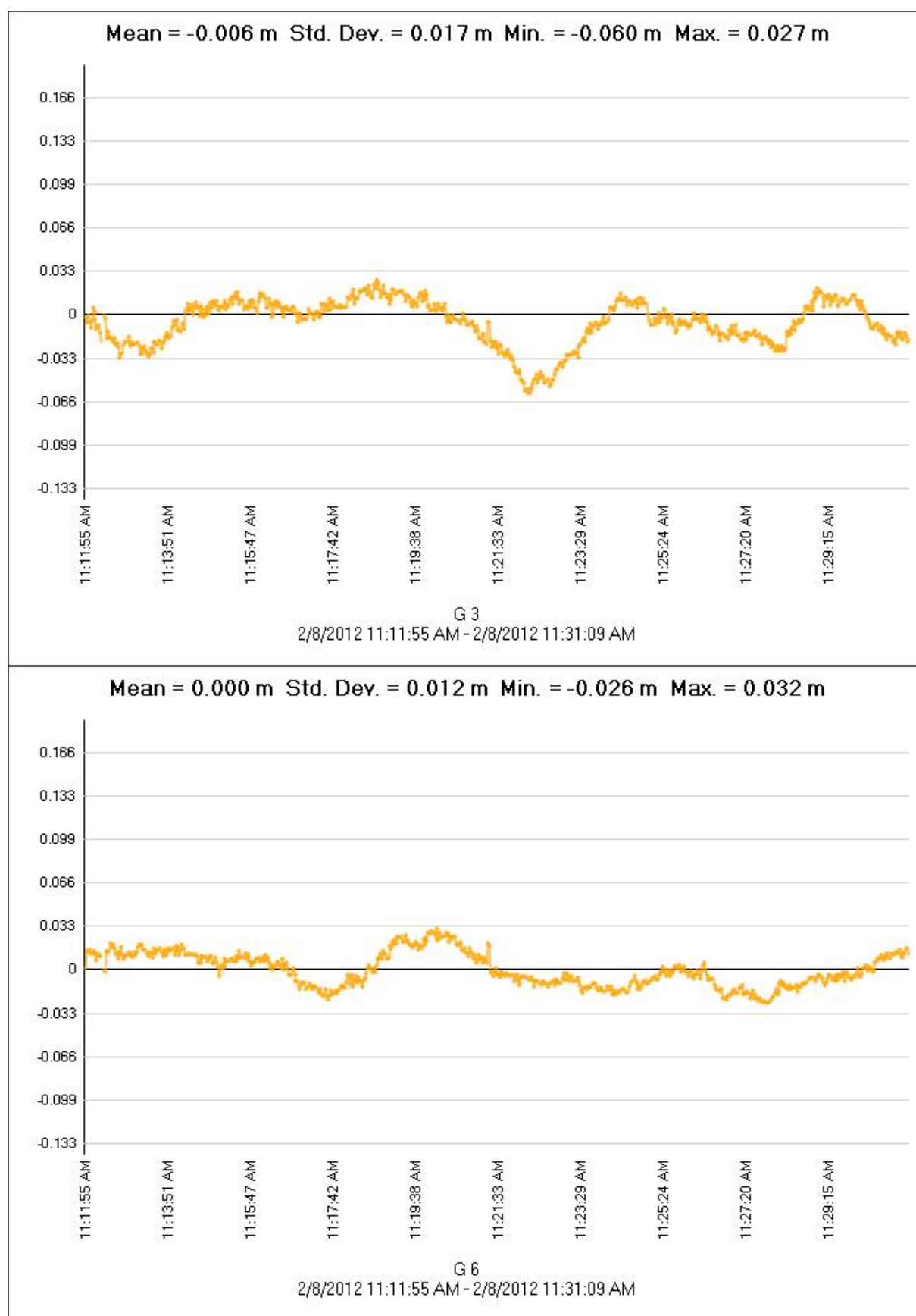
Occupations

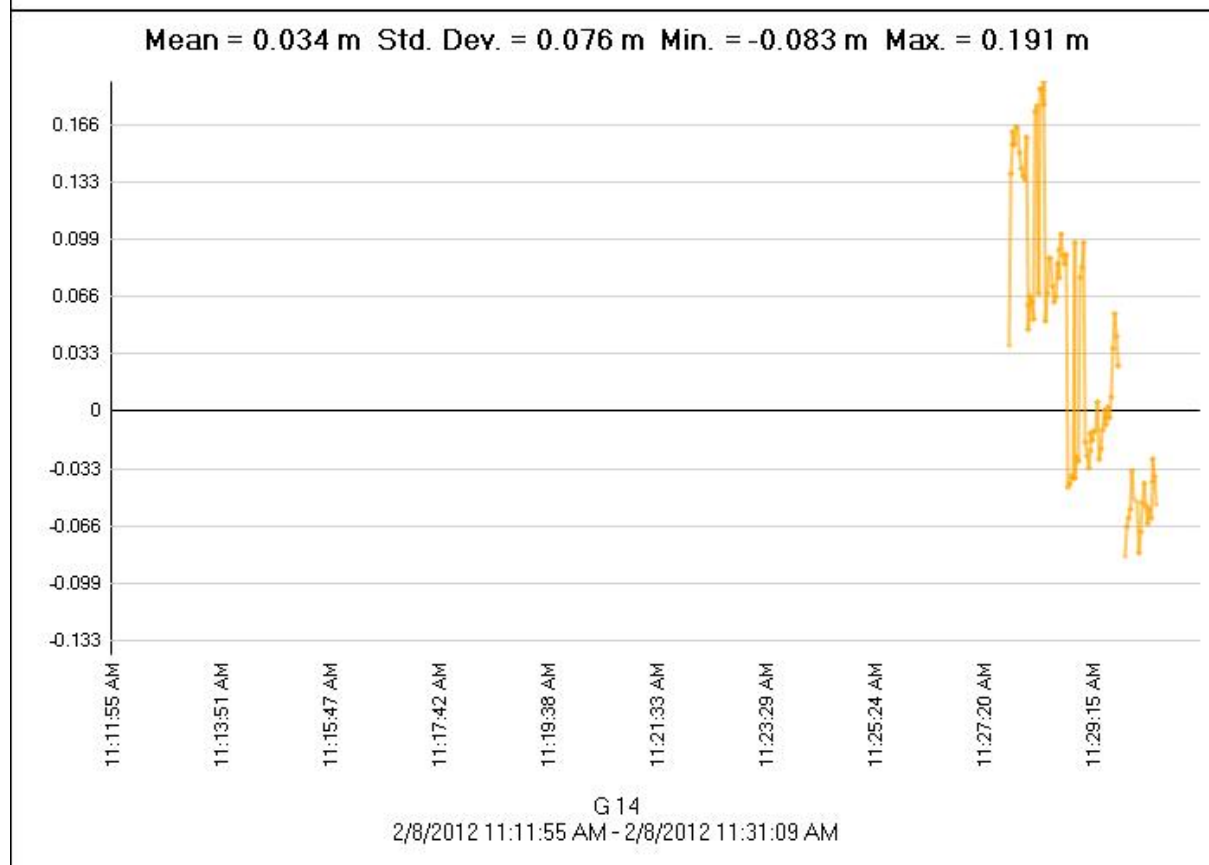
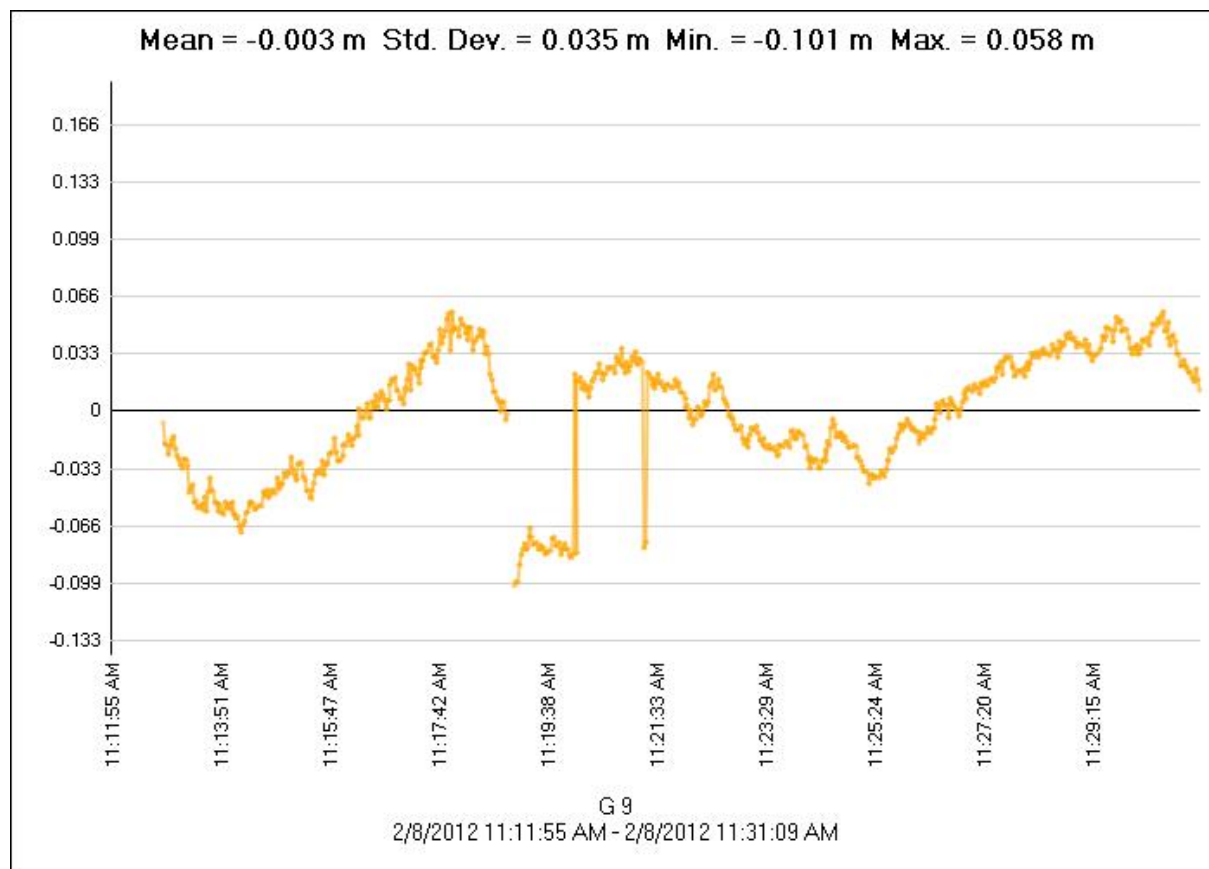
	From	To
Point ID:	HH0162	SVA39-B2
Data file:	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00010390.12o	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00080395.12o
Receiver type:	Unknown	Unknown
Receiver serial number:		
Antenna type:	Unknown External	Unknown External
Antenna serial number:	-----	-----
Antenna height (measured):	1.565 m	2.065 m
Antenna method:	Antenna Phase Center	Antenna Phase Center

Tracking Summary

SV	2/8/2012 11:11:54 AM	Duration: 00:19:15	Major interval: 00:01:00	2/8/2012 11:31:09 AM
G 3	L1 L2			
G 6	L1 L2			
G 9	L1 L2			
G 14	L1 L2			
G 15	L1 L2			
G 16	L1 L2			
G 18	L1 L2			
G 19	L1 L2			
G 21	L1 L2			
G 22	L1 L2			
G 26	L1 L2			
G 27	L1 L2			
G 29	L1 L2			

Residuals





Mean = 0.001 m Std. Dev. = 0.009 m Min. = -0.022 m Max. = 0.026 m

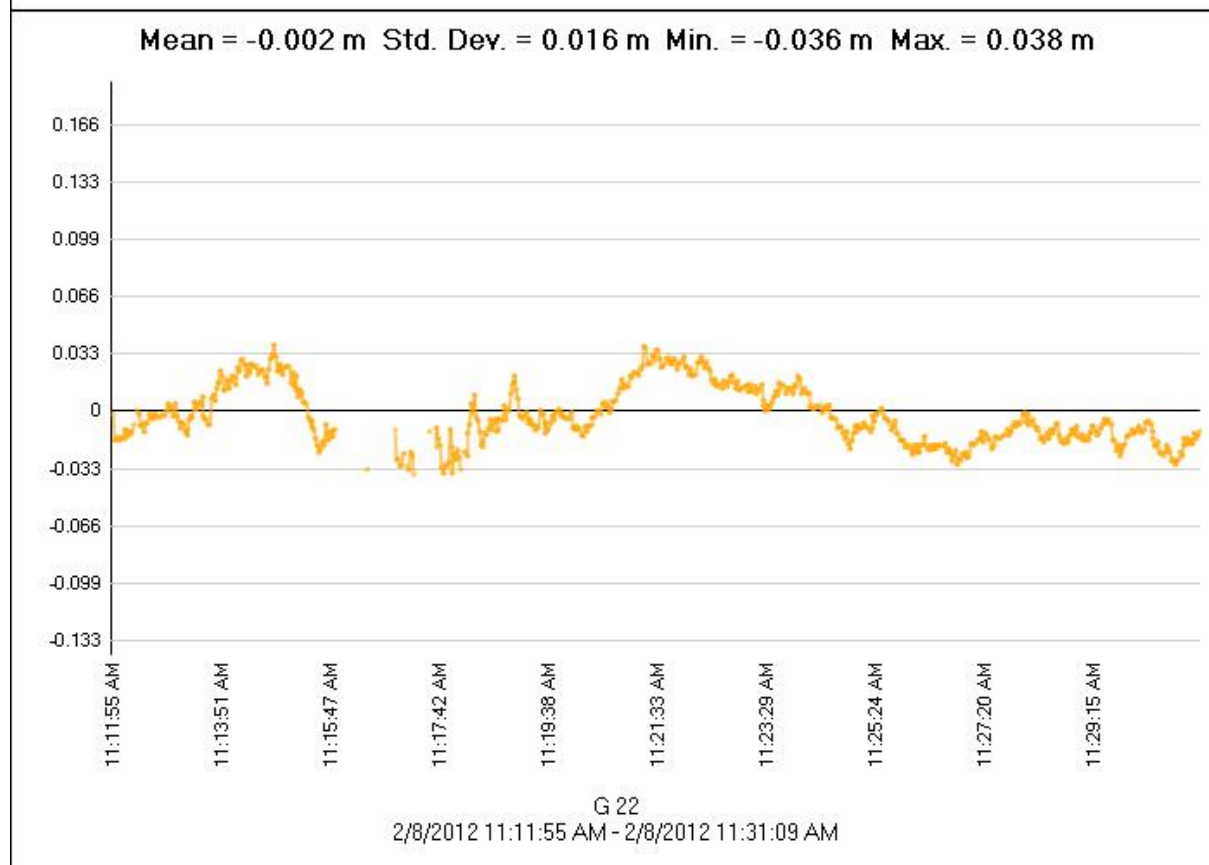
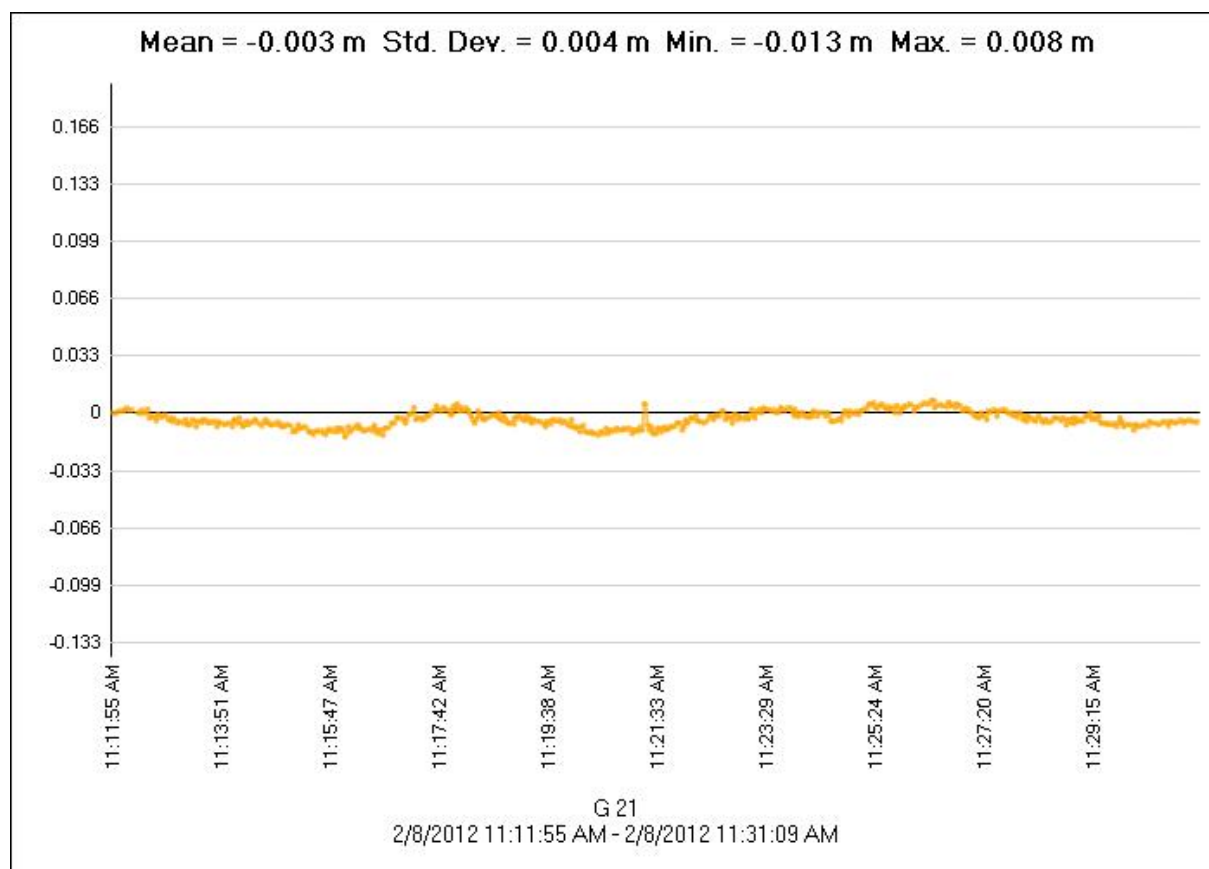


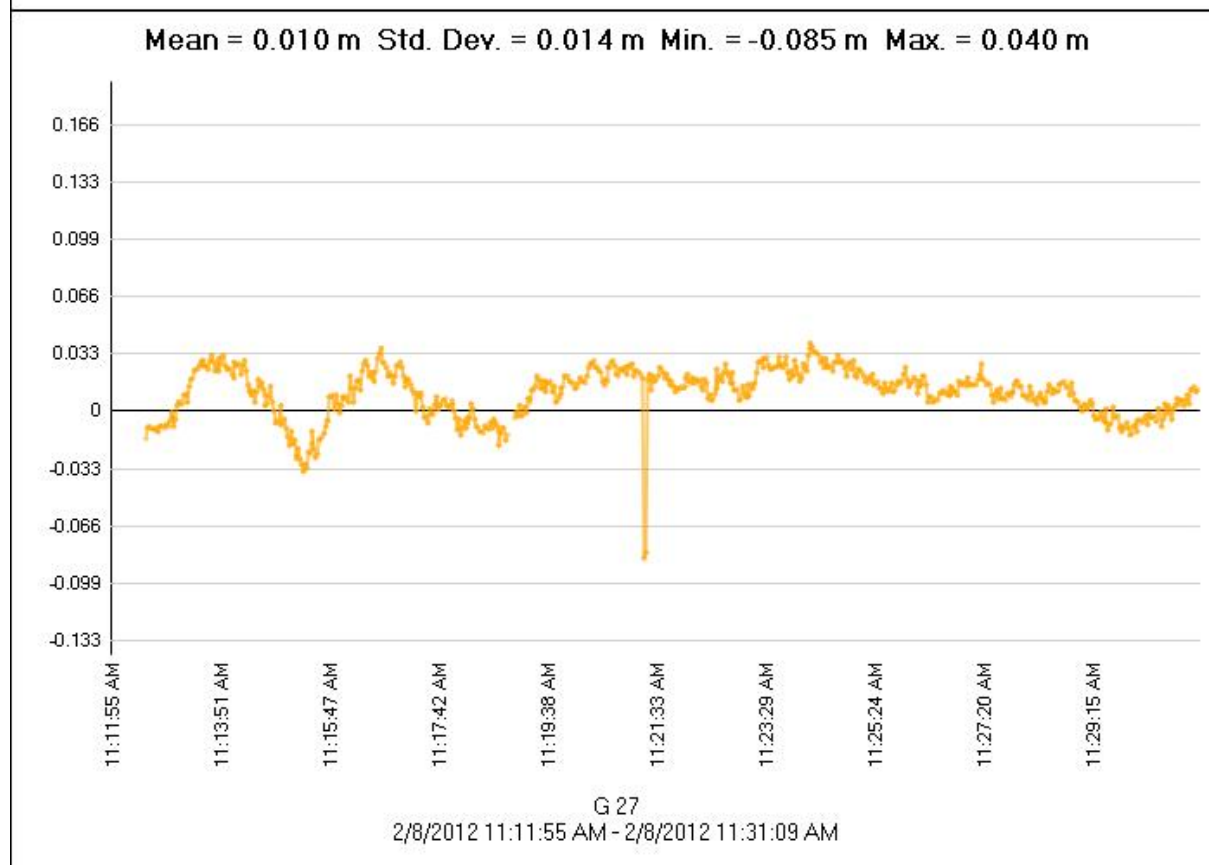
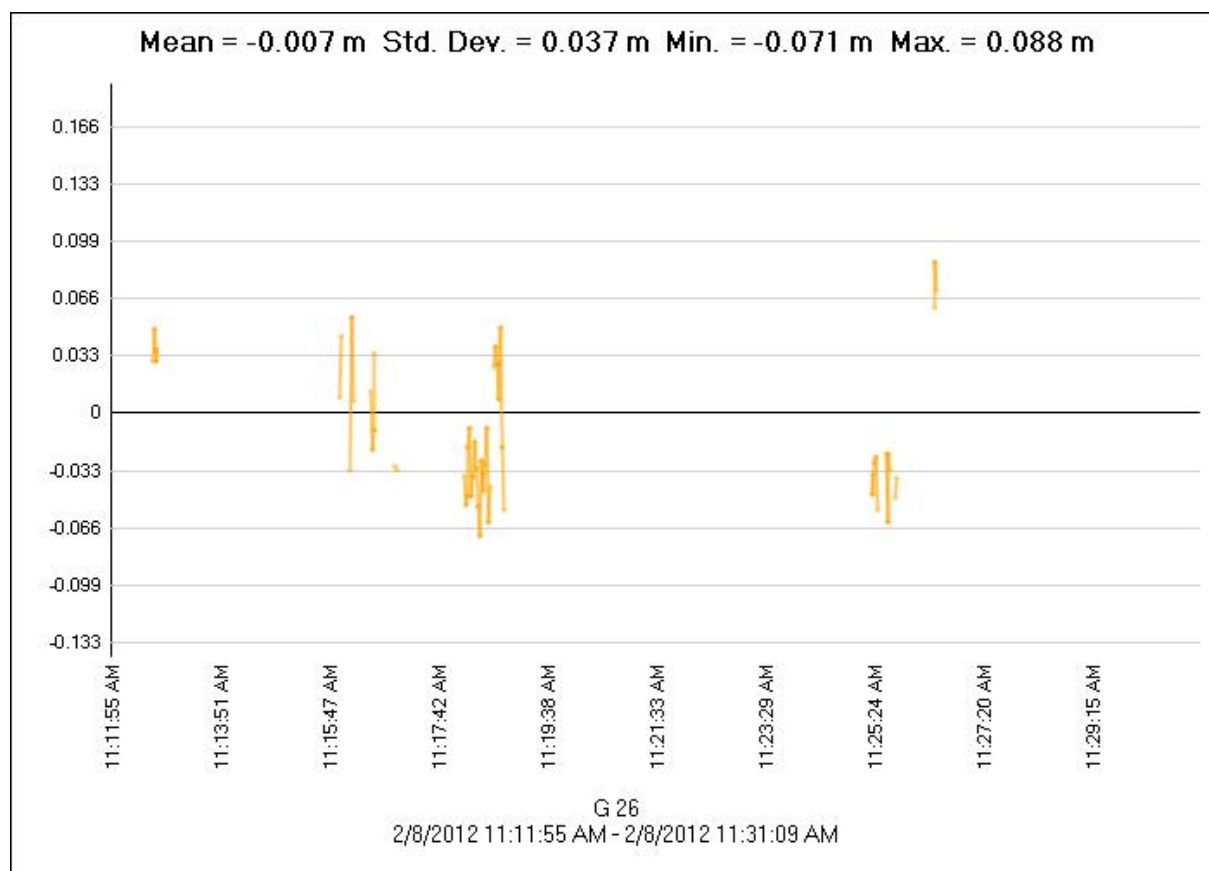
G 15
2/8/2012 11:11:55 AM - 2/8/2012 11:31:09 AM

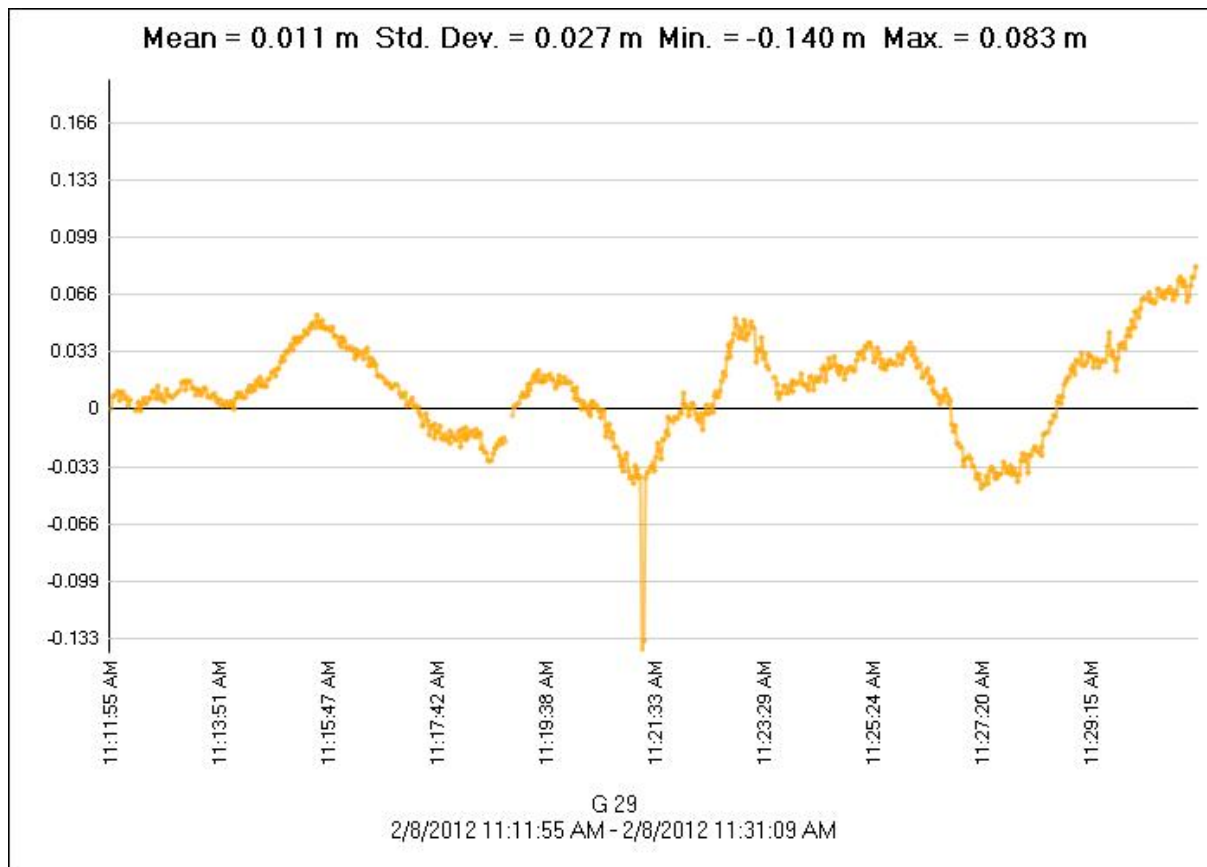
Mean = 0.000 m Std. Dev. = 0.006 m Min. = -0.016 m Max. = 0.014 m



G 18
2/8/2012 11:11:55 AM - 2/8/2012 11:31:09 AM







Processing style

Elevation mask:	10.0 deg
Auto start processing:	Yes
Start automatic ID numbering:	AUTO0001
Continuous vectors:	No
Generate residuals:	Yes
Antenna model:	Automatic
Ephemeris type:	Automatic
Frequency:	Dual Frequency (L1, L2)
Processing Interval:	Use all data
Force float:	No

Acceptance Criteria

Vector Component	Flag 	Fail 
Horizontal Precision >	0.050 m + 1.000 ppm	0.100 m + 1.000 ppm
Vertical Precision >	0.100 m + 1.000 ppm	0.200 m + 1.000 ppm

Baseline observation: HH0162 --- FVA58-B2-OLD (B58)

Processed: 3/21/2012 10:58:37 AM

Solution type: Fixed

Frequency used: Dual Frequency (L1, L2)

Horizontal precision: 0.016 m

Vertical precision: 0.021 m

RMS: 0.007 m

Maximum PDOP: 2.391

Ephemeris used: Broadcast

Antenna model: US National Geodetic Survey Calibration

Processing start time: 2/8/2012 11:55:11 AM (Local: UTC-7hr)

Processing stop time: 2/8/2012 12:14:51 PM (Local: UTC-7hr)

Processing duration: 00:19:40

Processing interval: .5 second

Vector Components (Mark to Mark)

From:	HH0162				
Grid		Local		Global	
Easting	334883.094 m	Latitude	N37°57'51.89981"	Latitude	N37°57'51.89980"
Northing	4203533.480 m	Longitude	W100°52'46.80868"	Longitude	W100°52'46.80868"
Elevation	875.739 m	Height	850.245 m	Height	850.245 m

To:	FVA58-B2-OLD				
Grid		Local		Global	
Easting	376907.314 m	Latitude	N37°44'15.84829"	Latitude	N37°44'15.84828"
Northing	4177635.469 m	Longitude	W100°23'49.24948"	Longitude	W100°23'49.24948"
Elevation	835.720 m	Height	809.765 m	Height	809.764 m

Vector					
9Ughb[	42024.221 m	NS Fwd Azimuth	120°29'25"	L	38908.954 m
Bcfh\jb[	-25898.011 m	Ellipsoid Dist.	49370.399 m	M	-22986.493 m
9Yj Uhcb	-40.018 m	<Y][\h	-40.480 m	N	-19894.084 m

Standard Errors

Vector errors:					
Point ID	0.004 m	Point ID	0°00'00"	Point ID	0.004 m
Point ID	0.007 m	Point ID	0.004 m	Point ID	0.010 m
Point ID	0.011 m	Point ID	0.011 m	Point ID	0.008 m




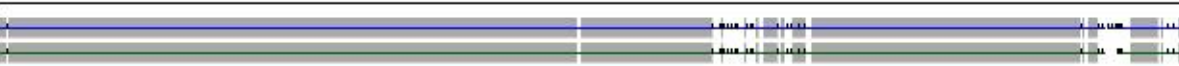


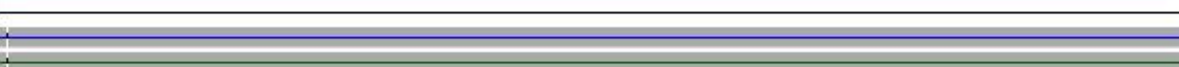



Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0000176449		
Y	0.0000197846	0.0000902662	
Z	-0.0000077849	-0.0000298030	0.0000600131

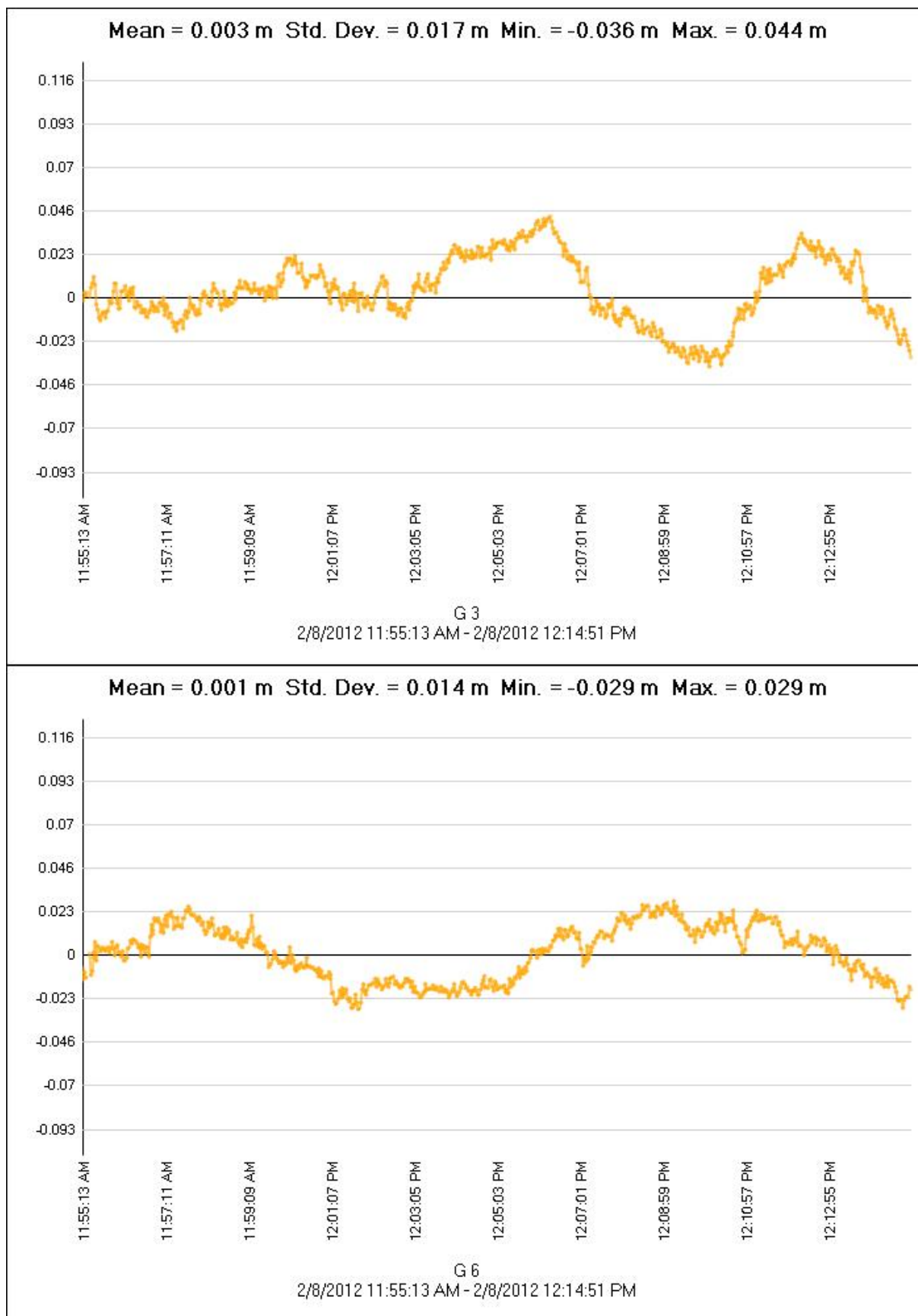
Occupations

	From	To
Point ID:	HH0162	FVA58-B2-OLD
Data file:	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00010390.12o	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00080396.12o
Receiver type:	Unknown	Unknown
Receiver serial number:		
Antenna type:	Unknown External	Unknown External
Antenna serial number:	-----	-----
Antenna height (measured):	1.565 m	2.065 m
Antenna method:	Antenna Phase Center	Antenna Phase Center

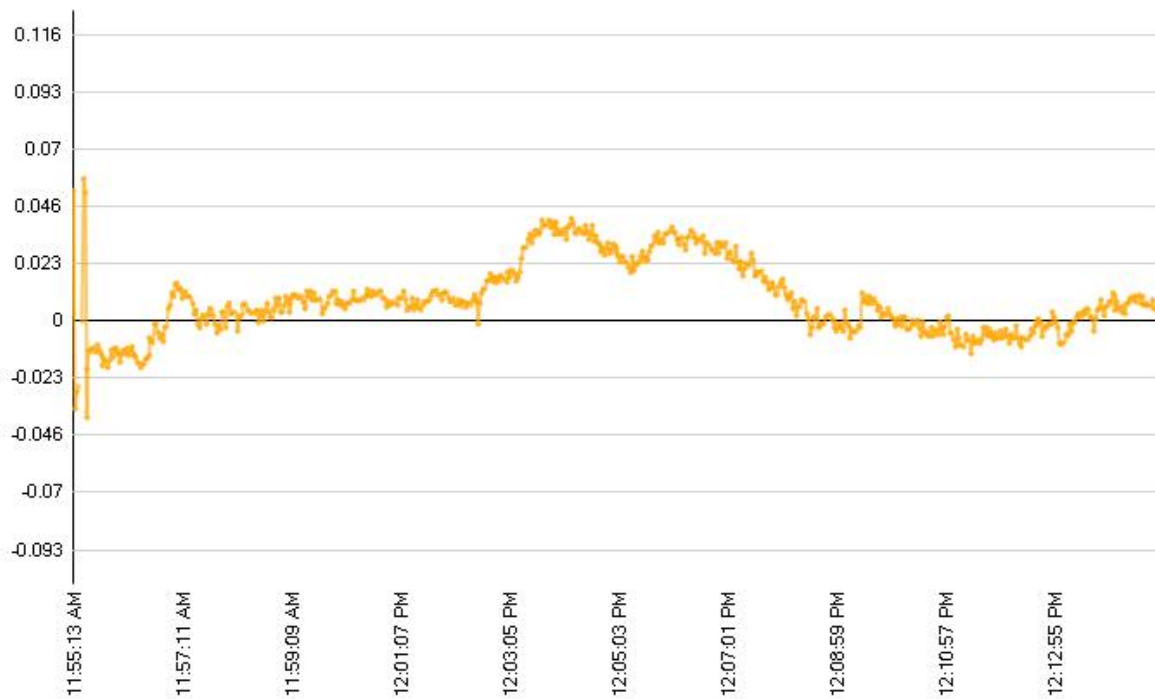
Tracking Summary

SV	2/8/2012 11:55:11 AM	Duration: 00:19:40	Major interval: 00:01:00	2/8/2012 12:14:51 PM
G 3				
G 6				
G 9				
G 14				
G 15				
G 18				
G 19				
G 21				
G 22				
G 27				
G 29				

Residuals



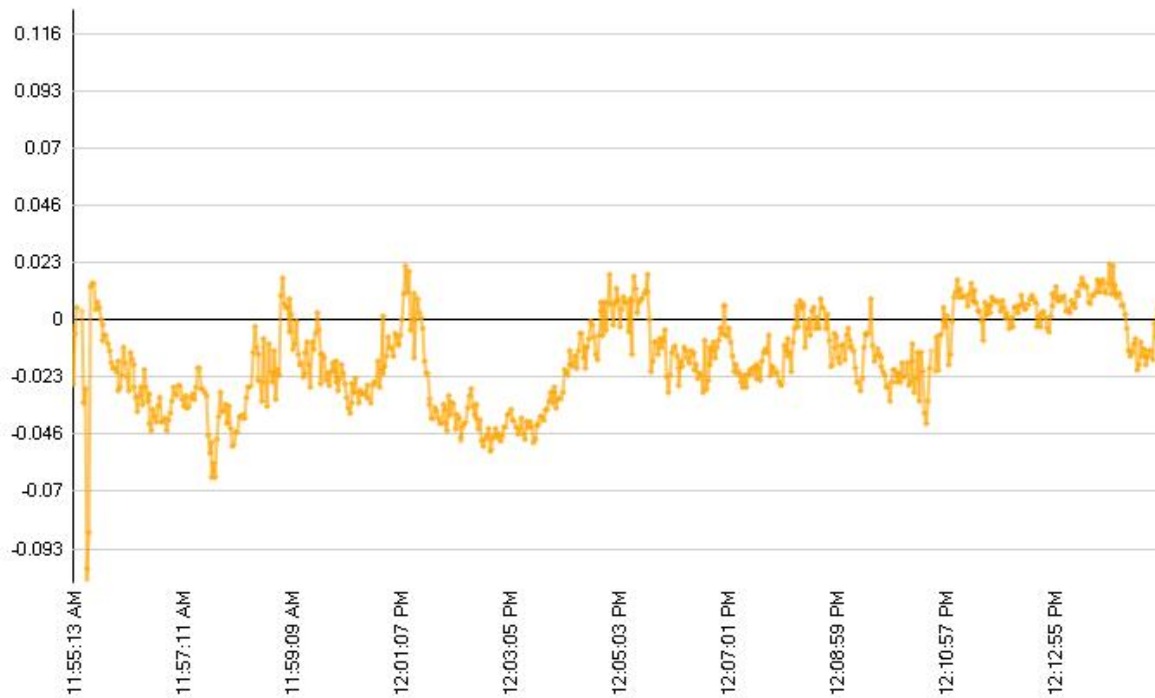
Mean = 0.009 m Std. Dev. = 0.014 m Min. = -0.040 m Max. = 0.058 m



G 9

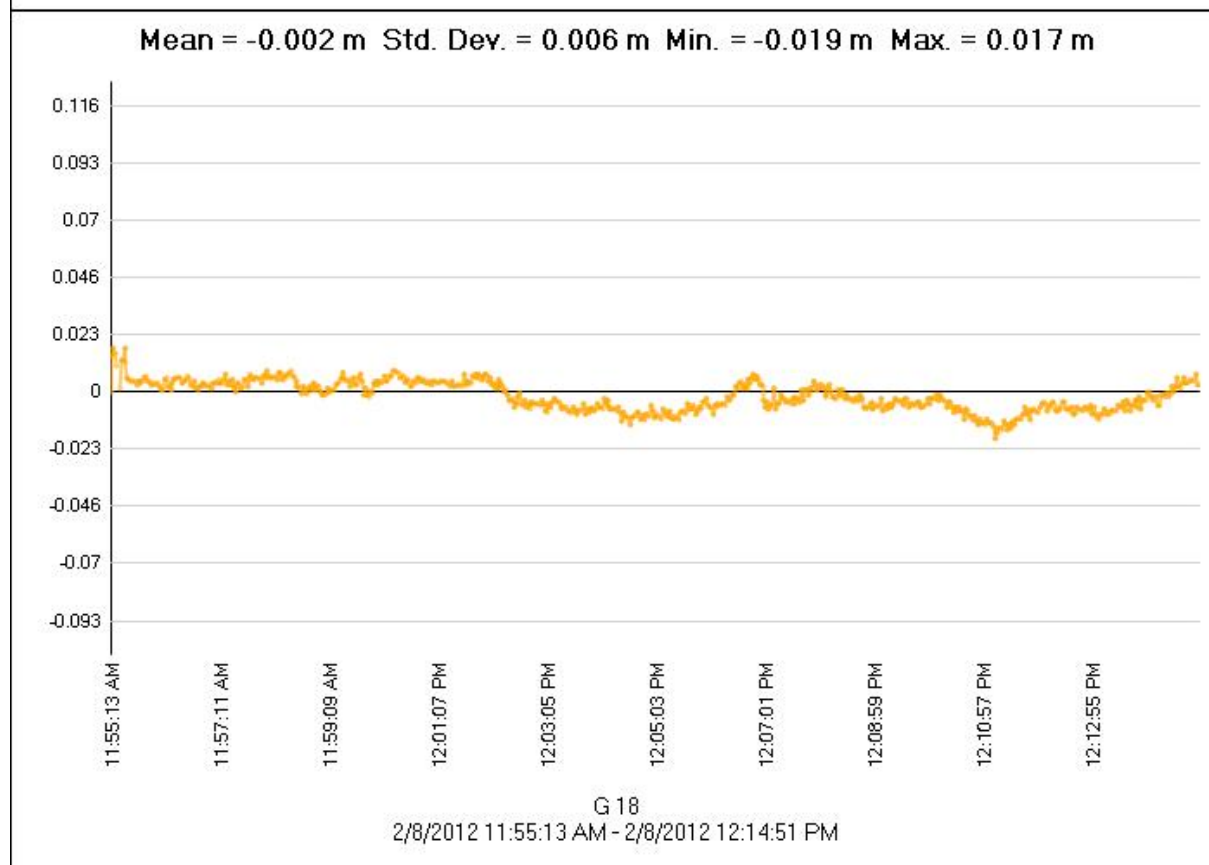
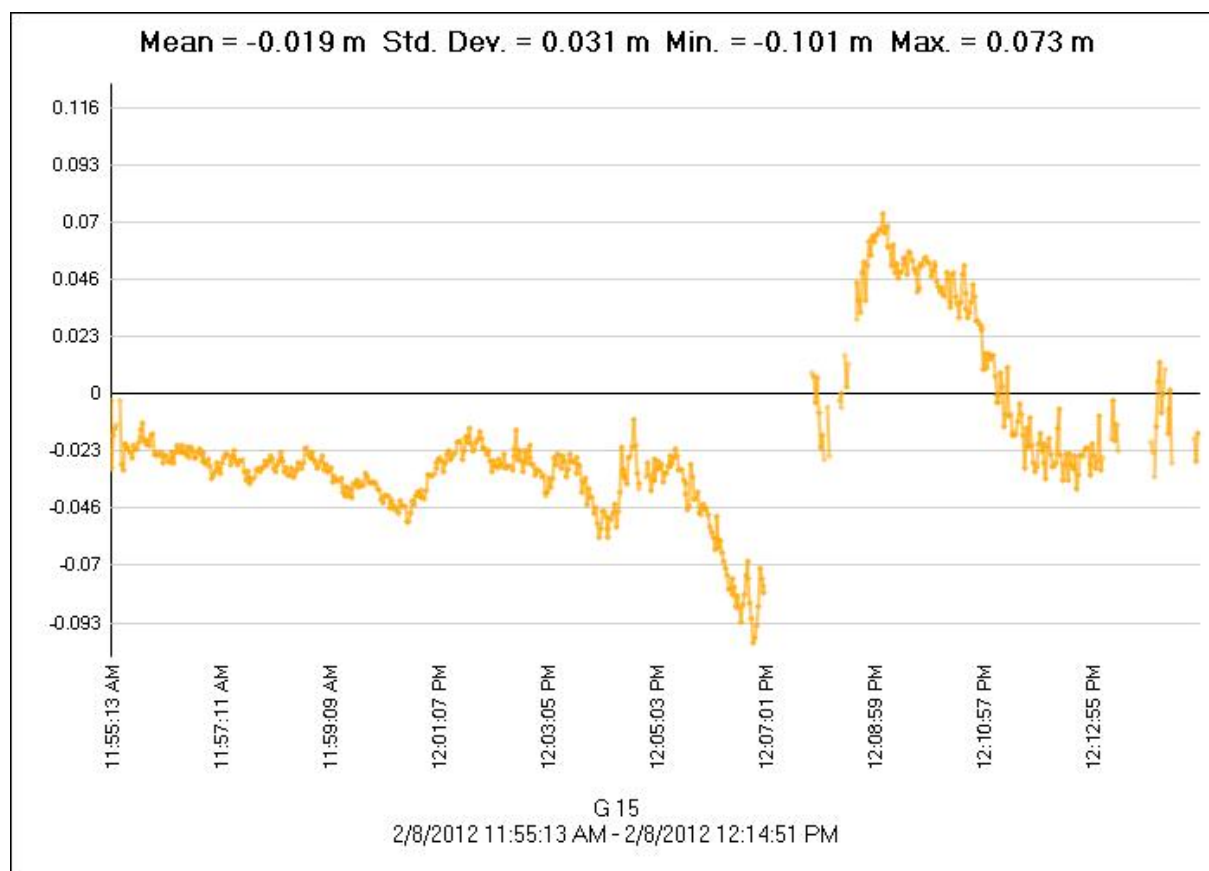
2/8/2012 11:55:13 AM - 2/8/2012 12:14:51 PM

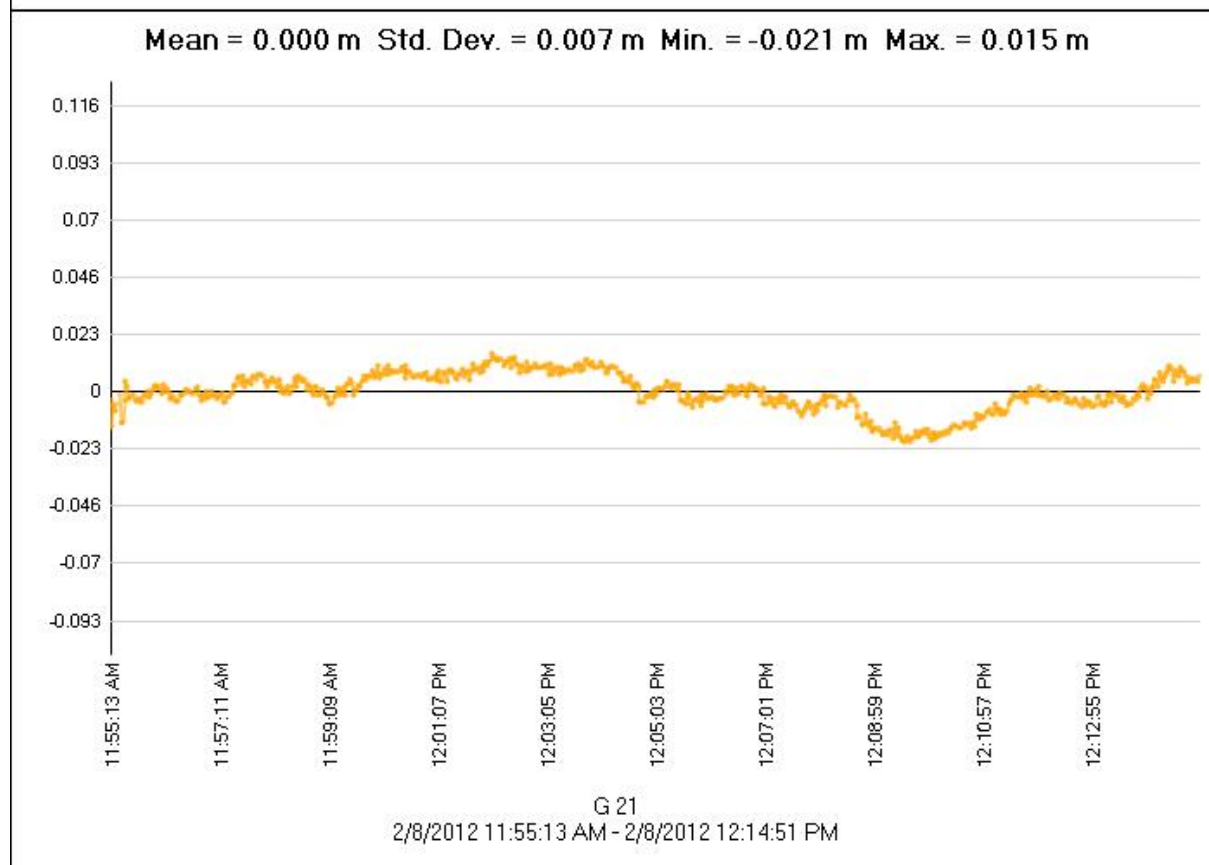
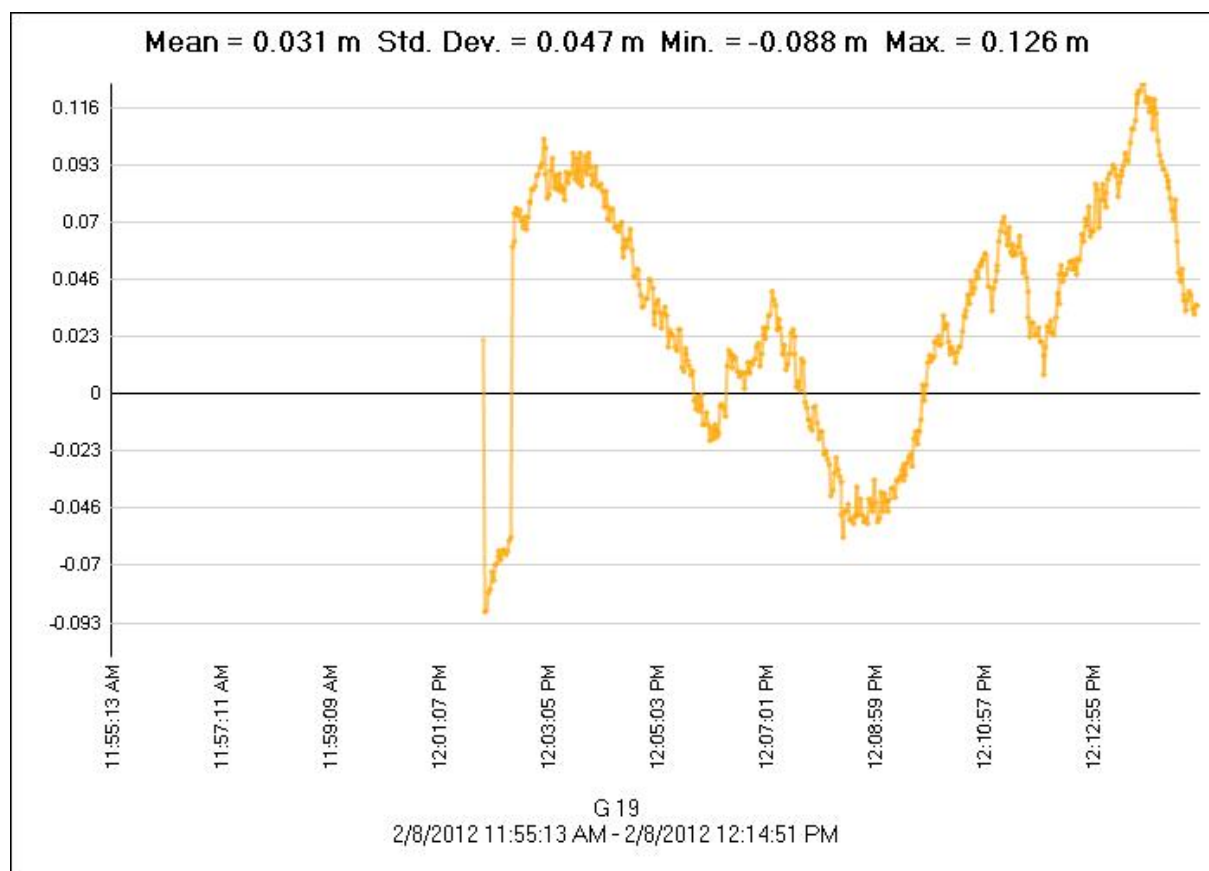
Mean = -0.015 m Std. Dev. = 0.018 m Min. = -0.106 m Max. = 0.022 m

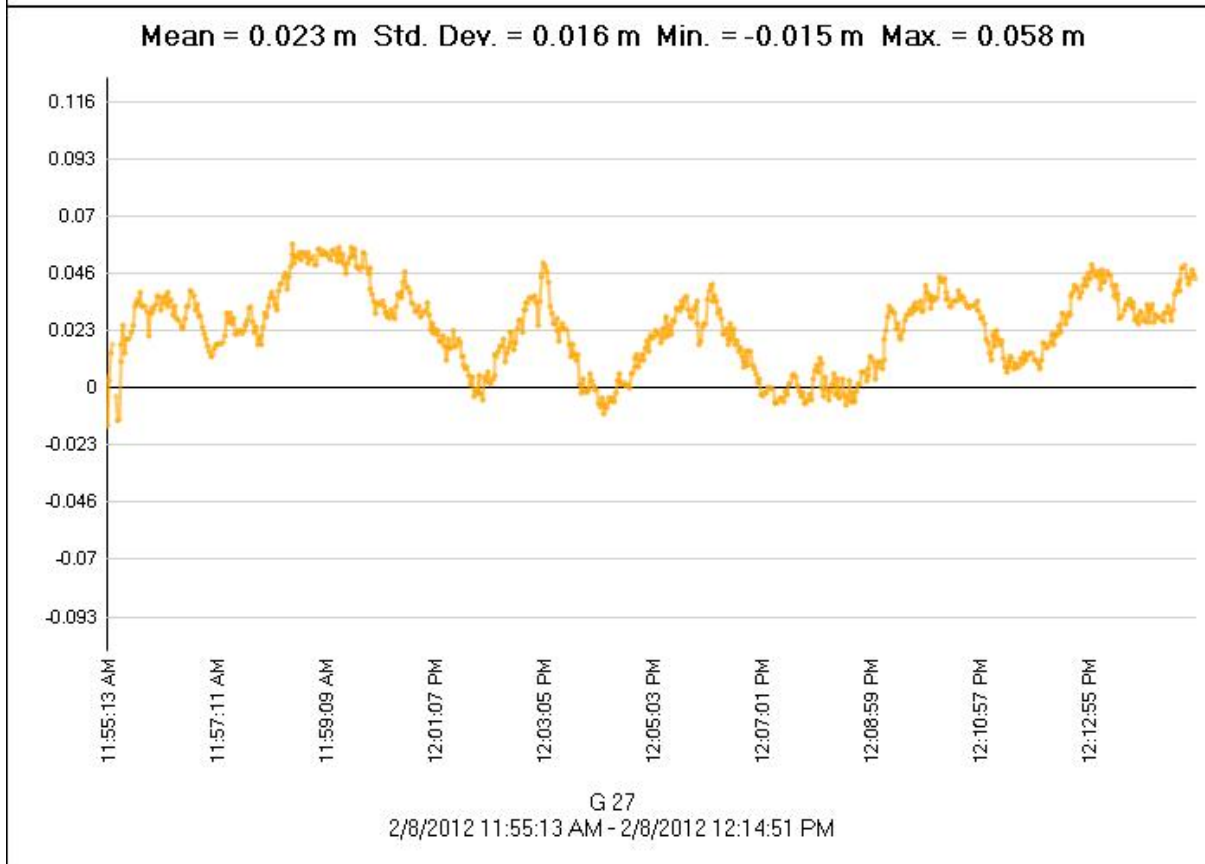
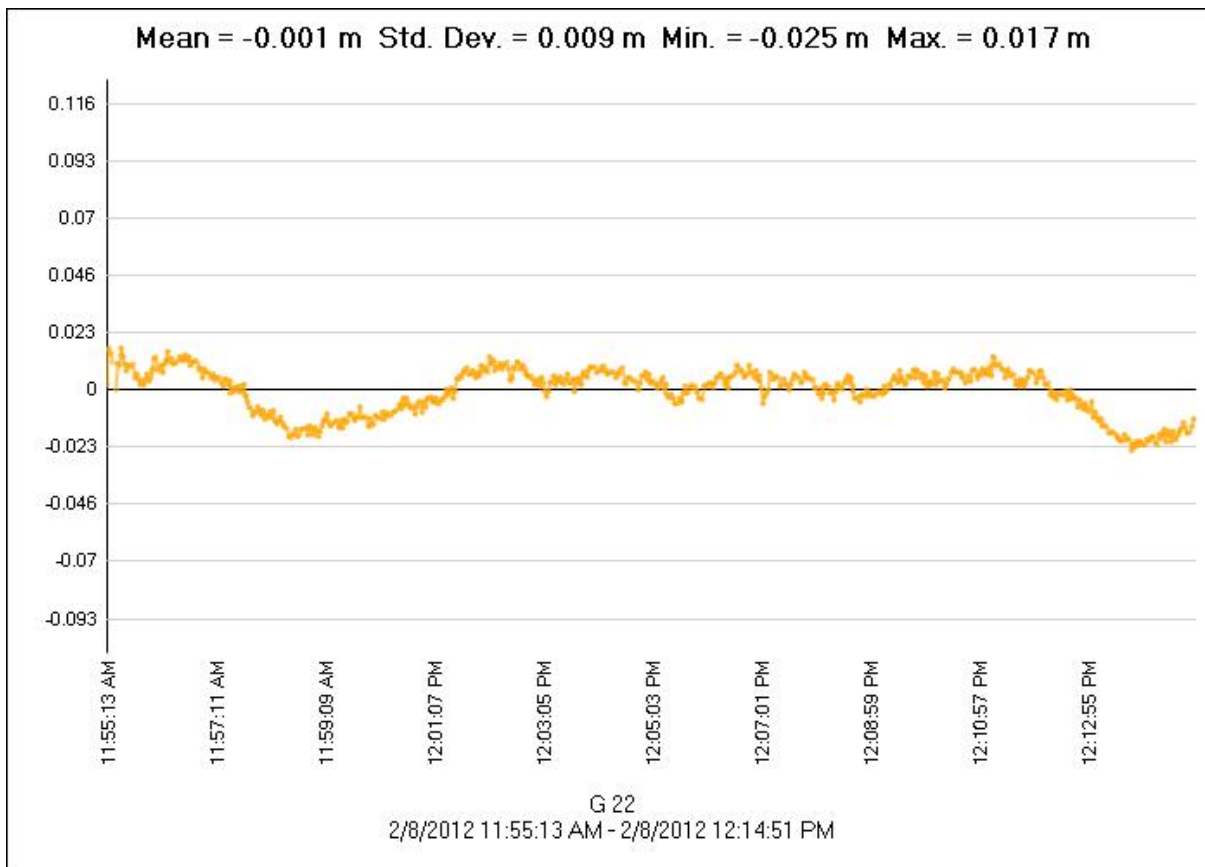


G 14

2/8/2012 11:55:13 AM - 2/8/2012 12:14:51 PM









Processing style

Elevation mask:	10.0 deg
Auto start processing:	Yes
Start automatic ID numbering:	AUTO0001
Continuous vectors:	No
Generate residuals:	Yes
Antenna model:	Automatic
Ephemeris type:	Automatic
Frequency:	Dual Frequency (L1, L2)
Processing Interval:	Use all data
Force float:	No

Acceptance Criteria

Vector Component	Flag 	Fail 
Horizontal Precision >	0.050 m + 1.000 ppm	0.100 m + 1.000 ppm
Vertical Precision >	0.100 m + 1.000 ppm	0.200 m + 1.000 ppm

HH0162 - SVA58-B2 (12:20:04 PM-12:39:55 PM) (S59)

Baseline observation: HH0162 --- SVA58-B2 (B59)

Processed: 3/21/2012 10:58:49 AM

Solution type: Fixed

Frequency used: Dual Frequency (L1, L2)

Horizontal precision: 0.014 m

Vertical precision: 0.022 m

RMS: 0.006 m

Maximum PDOP: 2.318

Ephemeris used: Broadcast

Antenna model: US National Geodetic Survey Calibration

Processing start time: 2/8/2012 12:20:04 PM (Local: UTC-7hr)

Processing stop time: 2/8/2012 12:39:55 PM (Local: UTC-7hr)

Processing duration: 00:19:50

Processing interval: .5 second

Vector Components (Mark to Mark)

From:	HH0162				
Grid		Local		Global	
Easting	334883.094 m	Latitude	N37°57'51.89981"	Latitude	N37°57'51.89980"
Northing	4203533.480 m	Longitude	W100°52'46.80868"	Longitude	W100°52'46.80868"
Elevation	875.739 m	Height	850.245 m	Height	850.245 m

To:	SVA58-B2				
Grid		Local		Global	
Easting	376881.879 m	Latitude	N37°44'13.32207"	Latitude	N37°44'13.32207"
Northing	4177557.971 m	Longitude	W100°23'50.24117"	Longitude	W100°23'50.24117"
Elevation	834.710 m	Height	808.753 m	Height	808.753 m

Vector					
9Ughb[	41998.785 m	NS Fwd Azimuth	120°34'56"	L	38876.609 m
Bcfh\jb[	-25975.509 m	Ellipsoid Dist.	49389.468 m	M	-23028.216 m
9Yj Uhcb	-41.028 m	<Y][\h	-41.491 m	N	-19956.304 m

Standard Errors

Vector errors:					
Point ID	0.004 m	Point ID	0°00'00"	Point ID	0.004 m
Point ID	0.006 m	Point ID	0.005 m	Point ID	0.009 m
Point ID	0.011 m	Point ID	0.011 m	Point ID	0.009 m

Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0000171653		
Y	0.0000177952	0.0000765885	
Z	-0.0000173718	-0.0000458745	0.0000799633

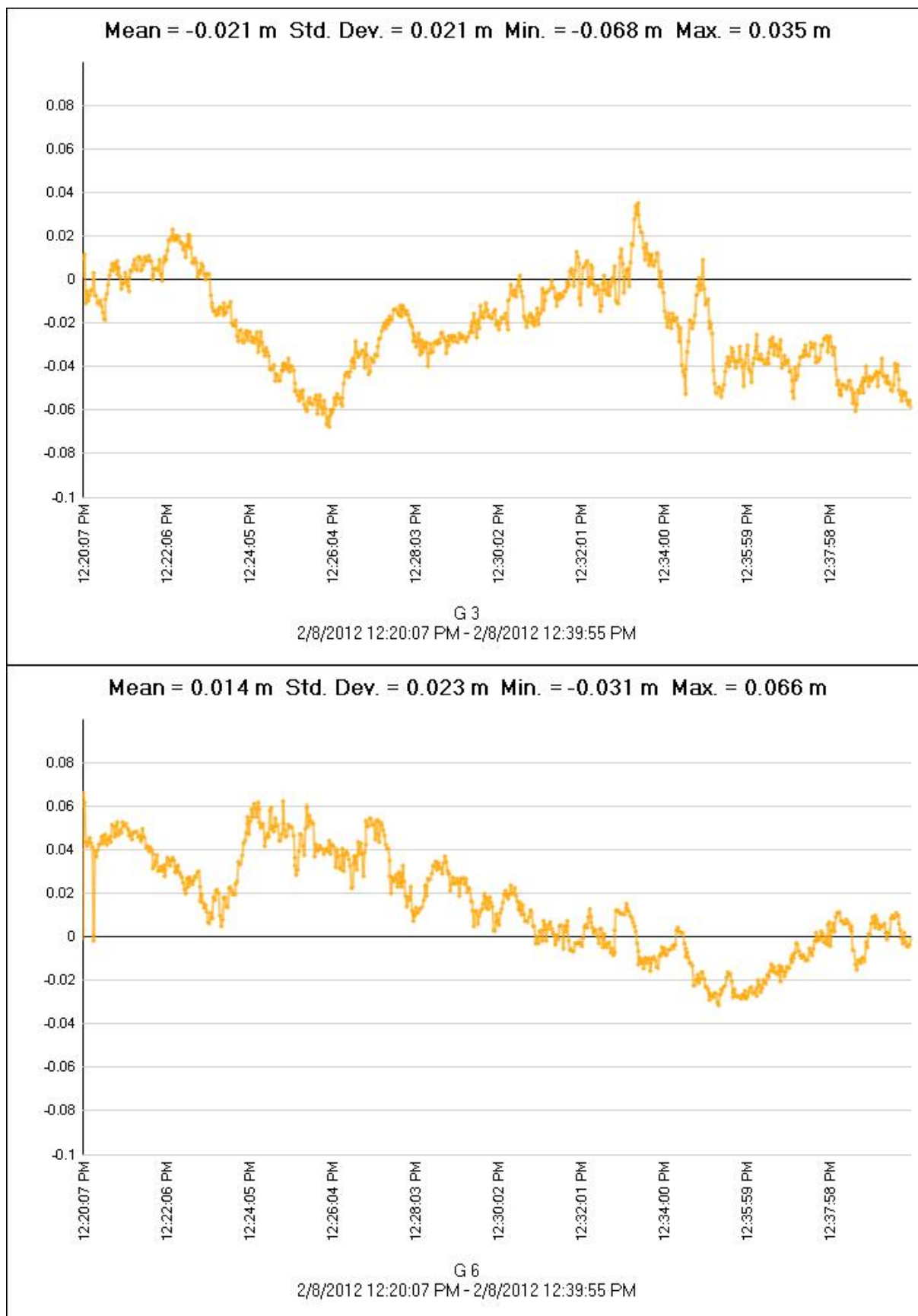
Occupations

	From	To
Point ID:	HH0162	SVA58-B2
Data file:	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00010390.12o	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00080397.12o
Receiver type:	Unknown	Unknown
Receiver serial number:		
Antenna type:	Unknown External	Unknown External
Antenna serial number:	-----	-----
Antenna height (measured):	1.565 m	2.065 m
Antenna method:	Antenna Phase Center	Antenna Phase Center

Tracking Summary

SV	2/8/2012 12:20:04 PM	Duration: 00:19:50.5000000	Major interval: 00:01:00	2/8/2012 12:39:55 PM
G 3				
G 6				
G 9				
G 14				
G 15				
G 18				
G 19				
G 21				
G 22				
G 27				

Residuals



Mean = 0.008 m Std. Dev. = 0.009 m Min. = -0.021 m Max. = 0.032 m



G 9

2/8/2012 12:20:07 PM - 2/8/2012 12:39:55 PM

Mean = -0.002 m Std. Dev. = 0.017 m Min. = -0.057 m Max. = 0.045 m



G 14

2/8/2012 12:20:07 PM - 2/8/2012 12:39:55 PM

Mean = -0.006 m Std. Dev. = 0.024 m Min. = -0.064 m Max. = 0.070 m



G 15
2/8/2012 12:20:07 PM - 2/8/2012 12:39:55 PM

Mean = 0.007 m Std. Dev. = 0.007 m Min. = -0.012 m Max. = 0.022 m



G 18
2/8/2012 12:20:07 PM - 2/8/2012 12:39:55 PM

Mean = -0.001 m Std. Dev. = 0.022 m Min. = -0.055 m Max. = 0.043 m



G 19

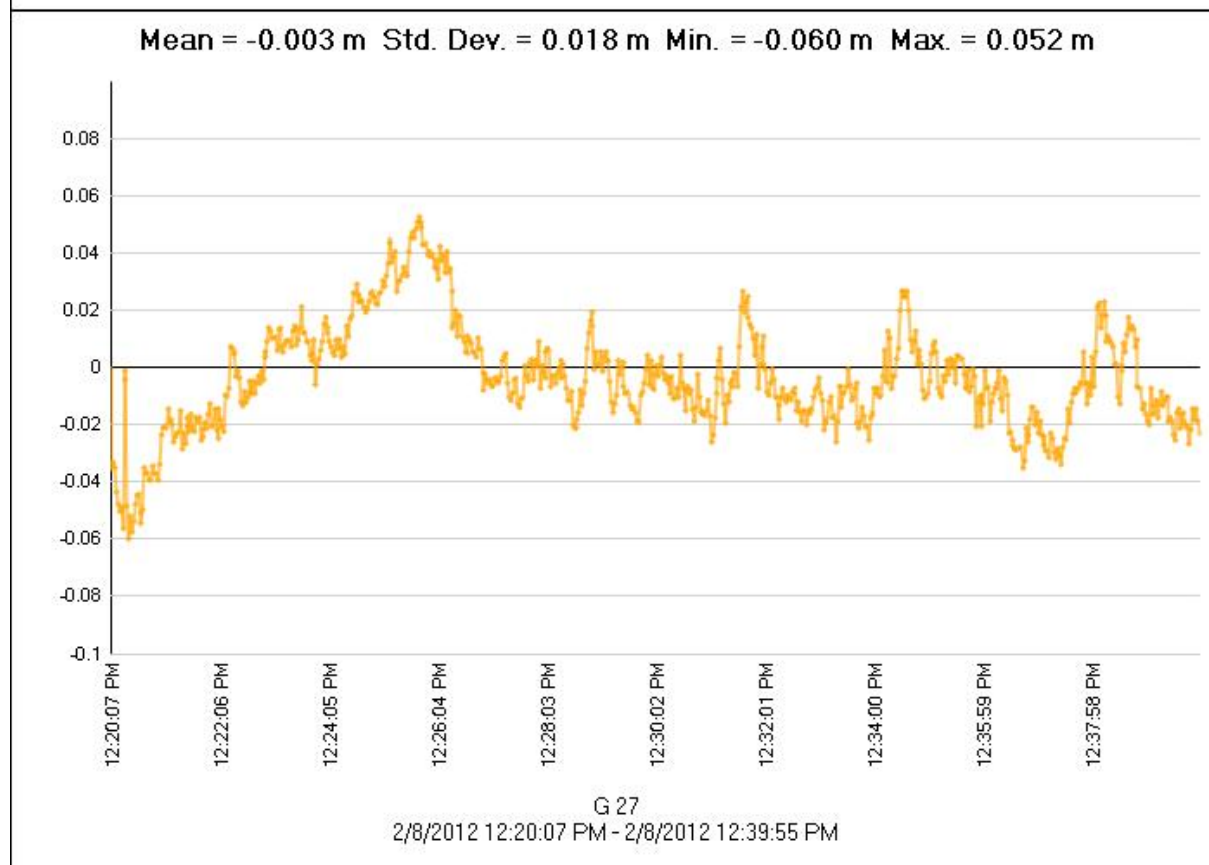
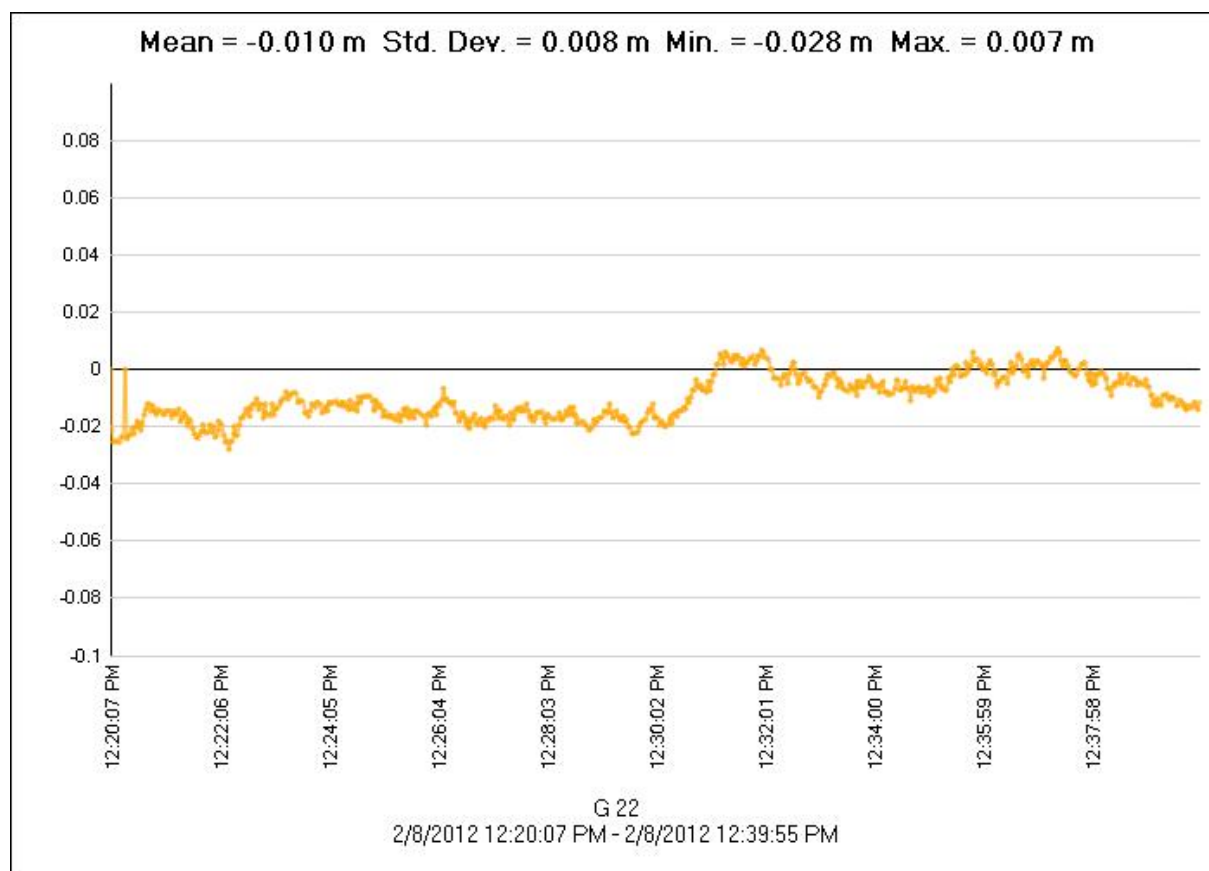
2/8/2012 12:20:07 PM - 2/8/2012 12:39:55 PM

Mean = -0.001 m Std. Dev. = 0.010 m Min. = -0.026 m Max. = 0.025 m



G 21

2/8/2012 12:20:07 PM - 2/8/2012 12:39:55 PM



Processing style

Elevation mask:10.0 deg

Auto start processing:Yes

Start automatic ID numbering:AUTO0001

Continuous vectors:No

Generate residuals:Yes

Antenna model:Automatic



Ephemeris type:Automatic

Frequency: Dual Frequency (L1, L2)

Processing Interval:Use all data

Force float:No

Acceptance Criteria

Vector Component	Flag 	Fail 
Horizontal Precision >	0.050 m + 1.000 ppm	0.100 m + 1.000 ppm
Vertical Precision >	0.100 m + 1.000 ppm	0.200 m + 1.000 ppm

HH0162 - FVA25-B2 (1:07:24 PM-1:25:17 PM) (S60)

Baseline observation: HH0162 --- FVA25-B2 (B60)

Processed: 4/3/2012 2:40:58 PM

Solution type: Fixed

Frequency used: Dual Frequency (L1, L2)

Horizontal precision: 0.021 m

Vertical precision: 0.036 m

RMS: 0.004 m

Maximum PDOP: 2.497

Ephemeris used: Broadcast

Antenna model: US National Geodetic Survey Calibration

Processing start time: 2/8/2012 1:08:09 PM (Local: UTC-7hr)

Processing stop time: 2/8/2012 1:25:17 PM (Local: UTC-7hr)

Processing duration: 00:17:08

Processing interval: .5 second

Vector Components (Mark to Mark)

From:	HH0162				
Grid		Local		Global	
Easting	334883.935 m	Latitude	N37°57'51.86317"	Latitude	N37°57'51.86317"
Northing	4203532.333 m	Longitude	W100°52'46.77326"	Longitude	W100°52'46.77326"
Elevation	865.832 m	Height	840.338 m	Height	840.338 m

To:	FVA25-B2				
Grid		Local		Global	
Easting	391547.914 m	Latitude	N37°39'16.31195"	Latitude	N37°39'16.31195"
Northing	4168196.567 m	Longitude	W100°13'46.14746"	Longitude	W100°13'46.14746"
Elevation	828.859 m	Height	802.753 m	Height	802.753 m

Vector					
9Ughb[	56663.978 m	NS Fwd Azimuth	120°47'41"	L	52434.713 m
Bcfh\jb[	-35335.766 m	Ellipsoid Dist.	66790.014 m	M	-31189.726 m
9Yj Uhcb	-36.973 m	<Y][\h	-37.585 m	N	-27199.589 m

Standard Errors

Vector errors:					
Point ID	0.008 m	Point ID	0°00'00"	Point ID	0.009 m
Point ID	0.007 m	Point ID	0.009 m	Point ID	0.014 m
Point ID	0.018 m	Point ID	0.018 m	Point ID	0.013 m








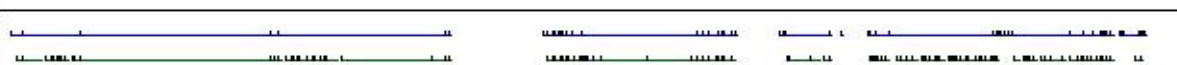

Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0000826582		
Y	0.0000652330	0.0001946871	
Z	-0.0000793543	-0.0001272222	0.0001720326

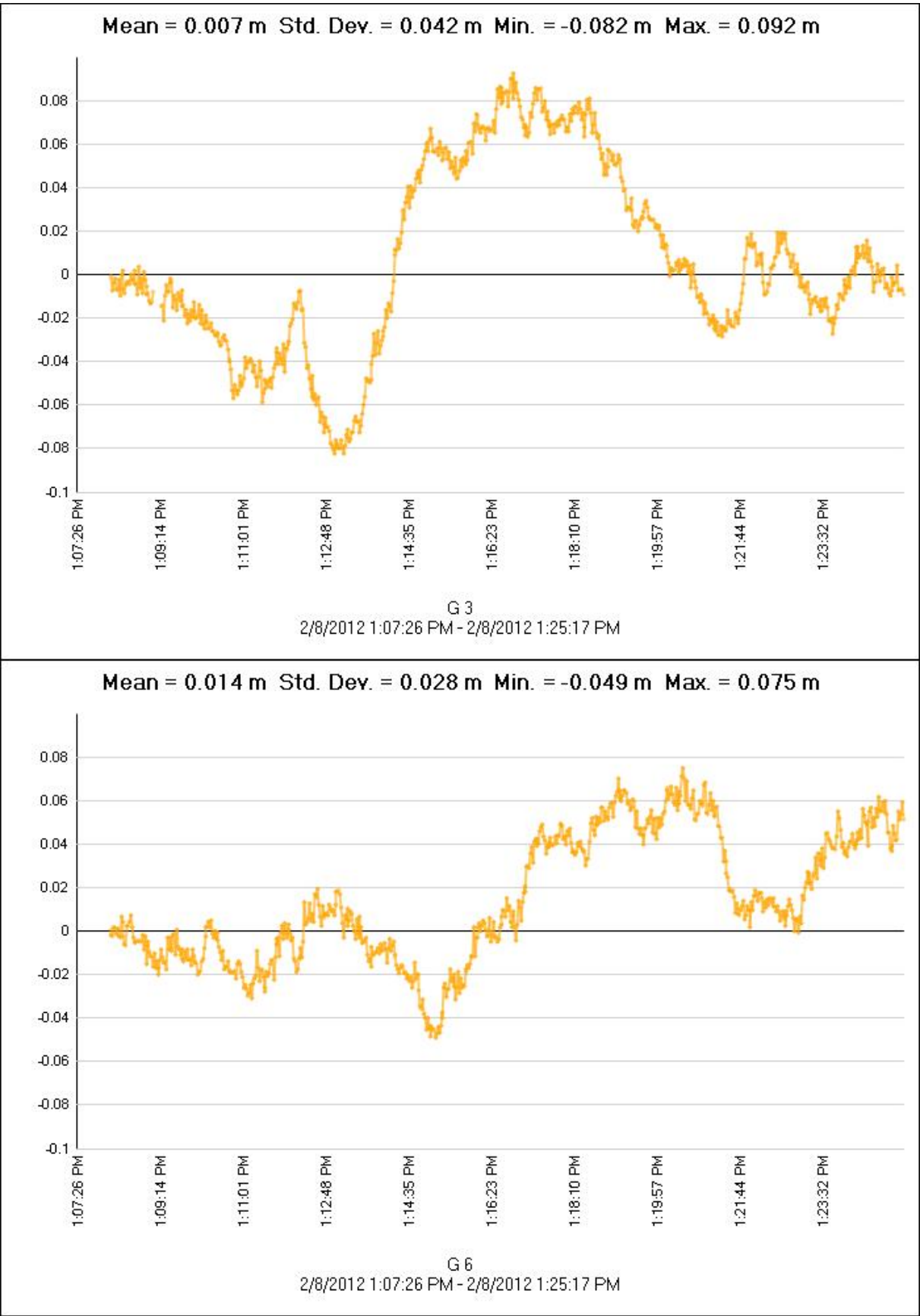
Occupations

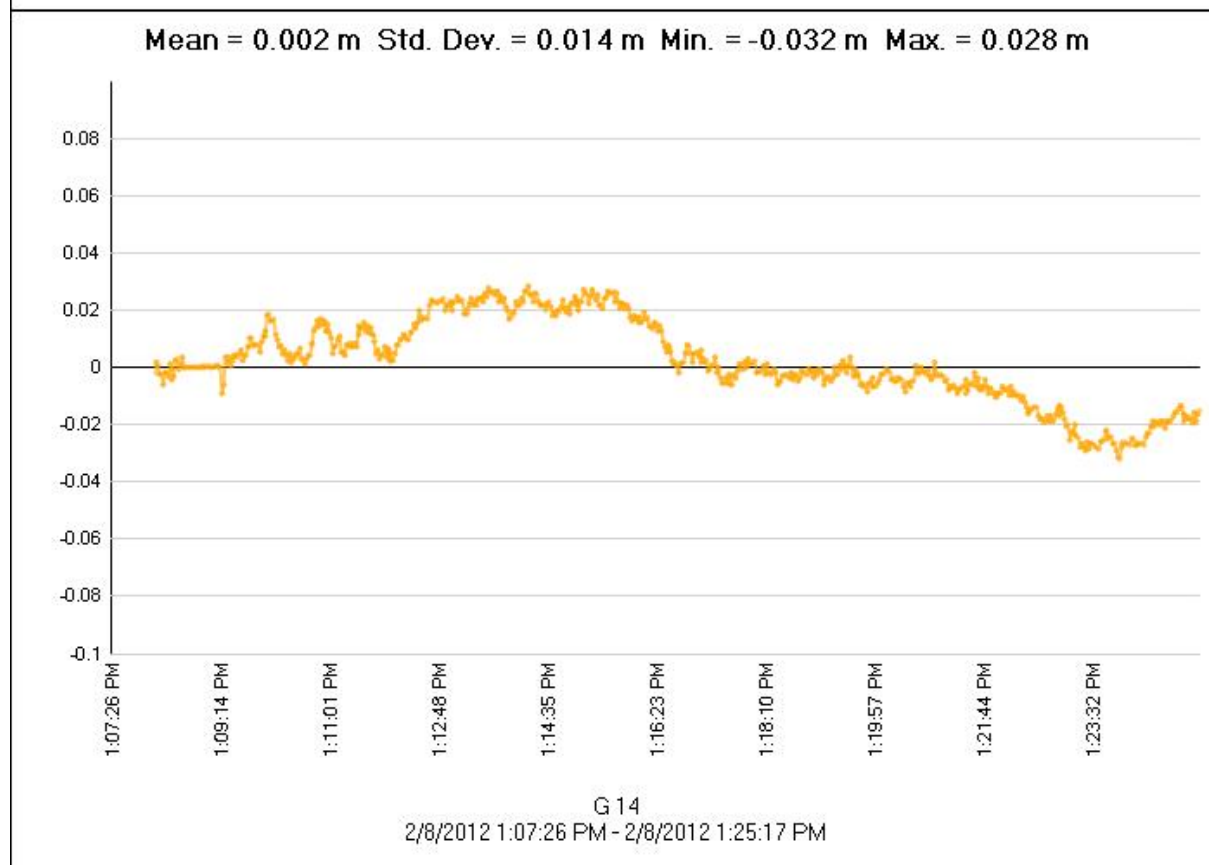
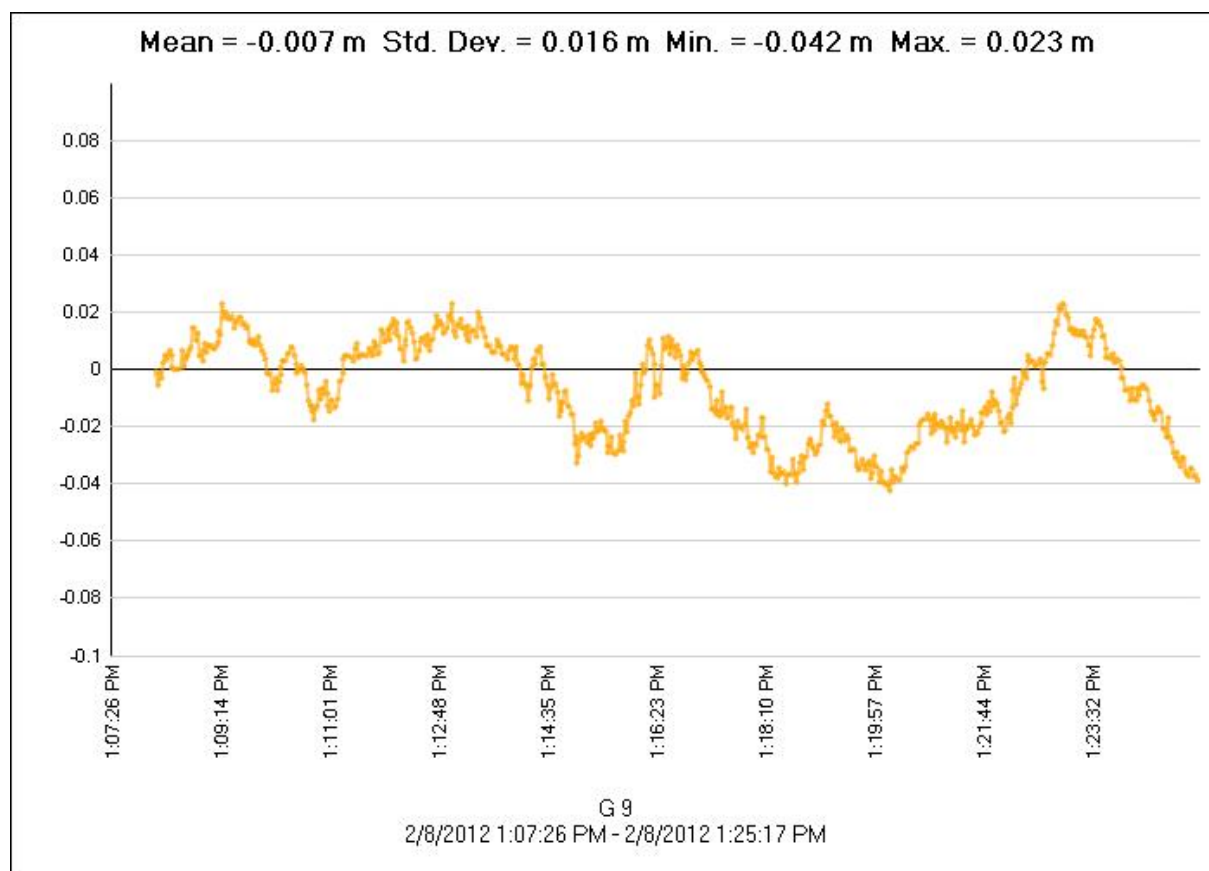
	From	To
Point ID:	HH0162	FVA25-B2
Data file:	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00010390.12o	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00080398.12o
Receiver type:	Unknown	Unknown
Receiver serial number:		
Antenna type:	Unknown External	Unknown External
Antenna serial number:	-----	-----
Antenna height (measured):	1.565 m	2.065 m
Antenna method:	Antenna Phase Center	Antenna Phase Center

Tracking Summary

SV	2/8/2012 1:07:24 PM	Duration: 00:17:52.5000000	Major interval: 00:01:00	2/8/2012 1:25:17 PM
G 3	L1 L2			
G 6	L1 L2			
G 9	L1 L2			
G 11	L1 L2			
G 14	L1 L2			
G 15	L1 L2			
G 18	L1 L2			
G 19	L1 L2			
G 21	L1 L2			
G 22	L1 L2			
G 27	L1 L2			
G 31	L1 L2			

Residuals





Mean = 0.003 m Std. Dev. = 0.011 m Min. = -0.019 m Max. = 0.027 m



G 18

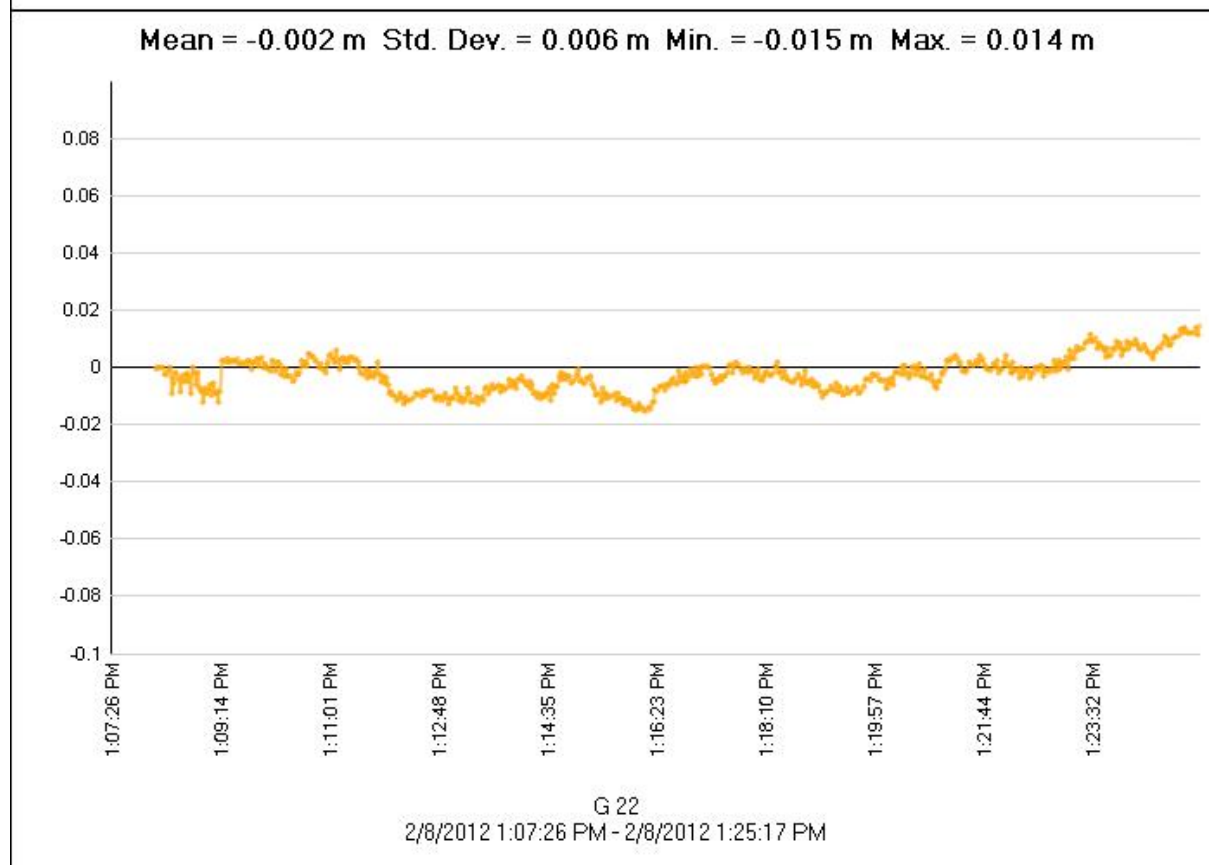
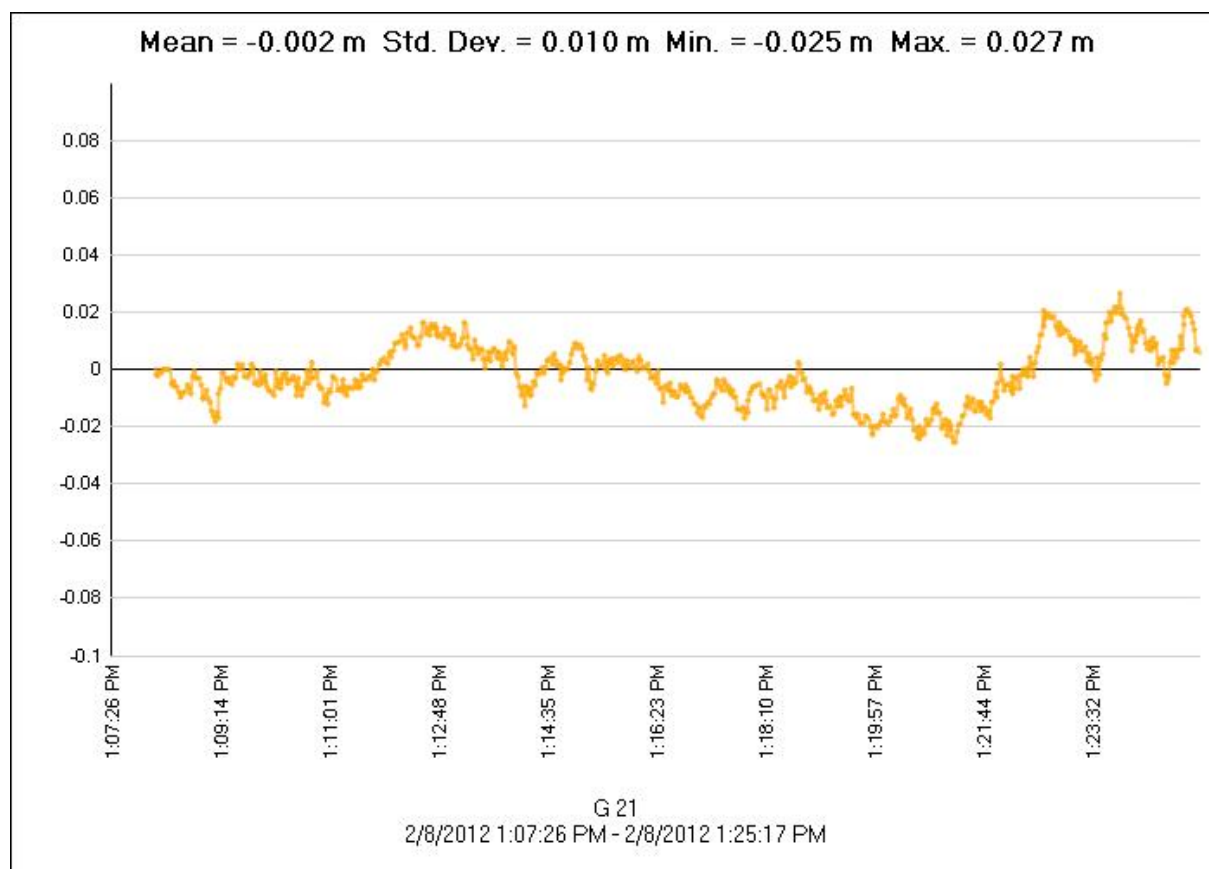
2/8/2012 1:07:26 PM - 2/8/2012 1:25:17 PM

Mean = -0.003 m Std. Dev. = 0.019 m Min. = -0.045 m Max. = 0.047 m



G 19



2/8/2012 1:07:26 PM - 2/8/2012 1:25:17 PM



Processing style

Elevation mask:	10.0 deg
Auto start processing:	Yes
Start automatic ID numbering:	AUTO0001
Continuous vectors:	No
Generate residuals:	Yes
Antenna model:	Automatic
Ephemeris type:	Automatic
Frequency:	Dual Frequency (L1, L2)
Processing Interval:	Use all data
Force float:	No

Acceptance Criteria

Vector Component	Flag 	Fail 
Horizontal Precision >	0.050 m + 1.000 ppm	0.100 m + 1.000 ppm
Vertical Precision >	0.100 m + 1.000 ppm	0.200 m + 1.000 ppm

HH0162 - SVA25-B2 (1:29:24 PM-1:51:10 PM) (S61)

Baseline observation: HH0162 --- SVA25-B2 (B61)

Processed: 3/21/2012 10:59:02 AM

Solution type: Fixed

Frequency used: Dual Frequency (L1, L2)

Horizontal precision: 0.040 m

Vertical precision: 0.076 m

RMS: 0.008 m

Maximum PDOP: 2.676

Ephemeris used: Broadcast

Antenna model: US National Geodetic Survey Calibration

Processing start time: 2/8/2012 1:29:24 PM (Local: UTC-7hr)

Processing stop time: 2/8/2012 1:51:10 PM (Local: UTC-7hr)

Processing duration: 00:21:46

Processing interval: .5 second

Vector Components (Mark to Mark)

From:	HH0162				
Grid		Local		Global	
Easting	334883.094 m	Latitude	N37°57'51.89981"	Latitude	N37°57'51.89980"
Northing	4203533.480 m	Longitude	W100°52'46.80868"	Longitude	W100°52'46.80868"
Elevation	875.739 m	Height	850.245 m	Height	850.245 m

To:	SVA25-B2				
Grid		Local		Global	
Easting	391589.720 m	Latitude	N37°39'15.65849"	Latitude	N37°39'15.65849"
Northing	4168175.876 m	Longitude	W100°13'44.43054"	Longitude	W100°13'44.43054"
Elevation	838.783 m	Height	812.676 m	Height	812.676 m

Vector					
9Ughb[	56706.627 m	NS Fwd Azimuth	120°47'29"	L	52474.745 m
Bcfh\jb[	-35357.604 m	Ellipsoid Dist.	66837.770 m	M	-31210.221 m
9`Yj Ufcb	-36.956 m	<Y][\h	-37.568 m	N	-27216.464 m

Standard Errors

Vector errors:					
Point ID	0.008 m	Point ID	0°00'00"	Point ID	0.003 m
Point ID	0.015 m	Point ID	0.014 m	Point ID	0.040 m
Point ID	0.039 m	Point ID	0.039 m	Point ID	0.014 m

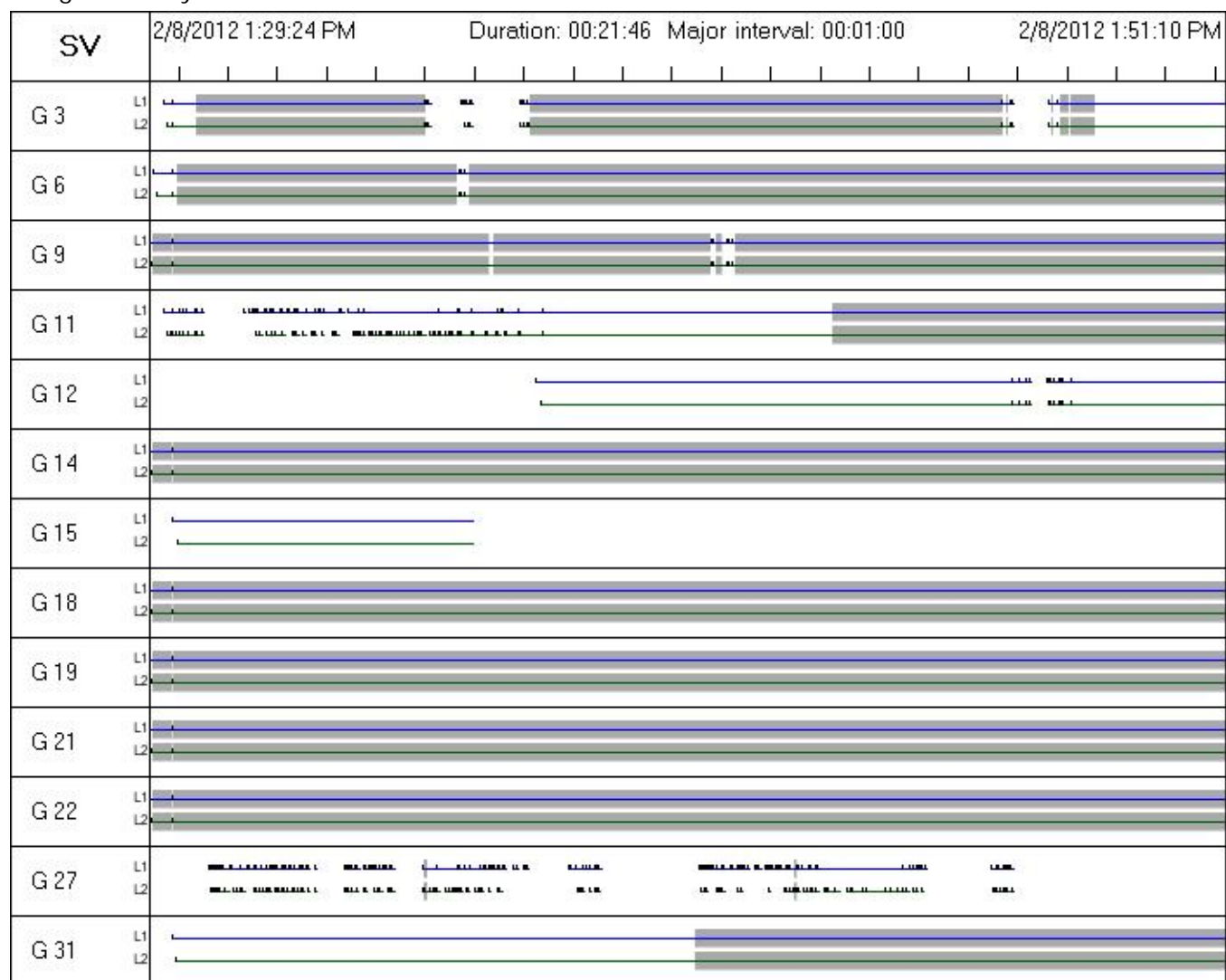
Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0000099333		
Y	0.0000002617	0.0015624665	
Z	0.0000052606	-0.0005005056	0.0001925802

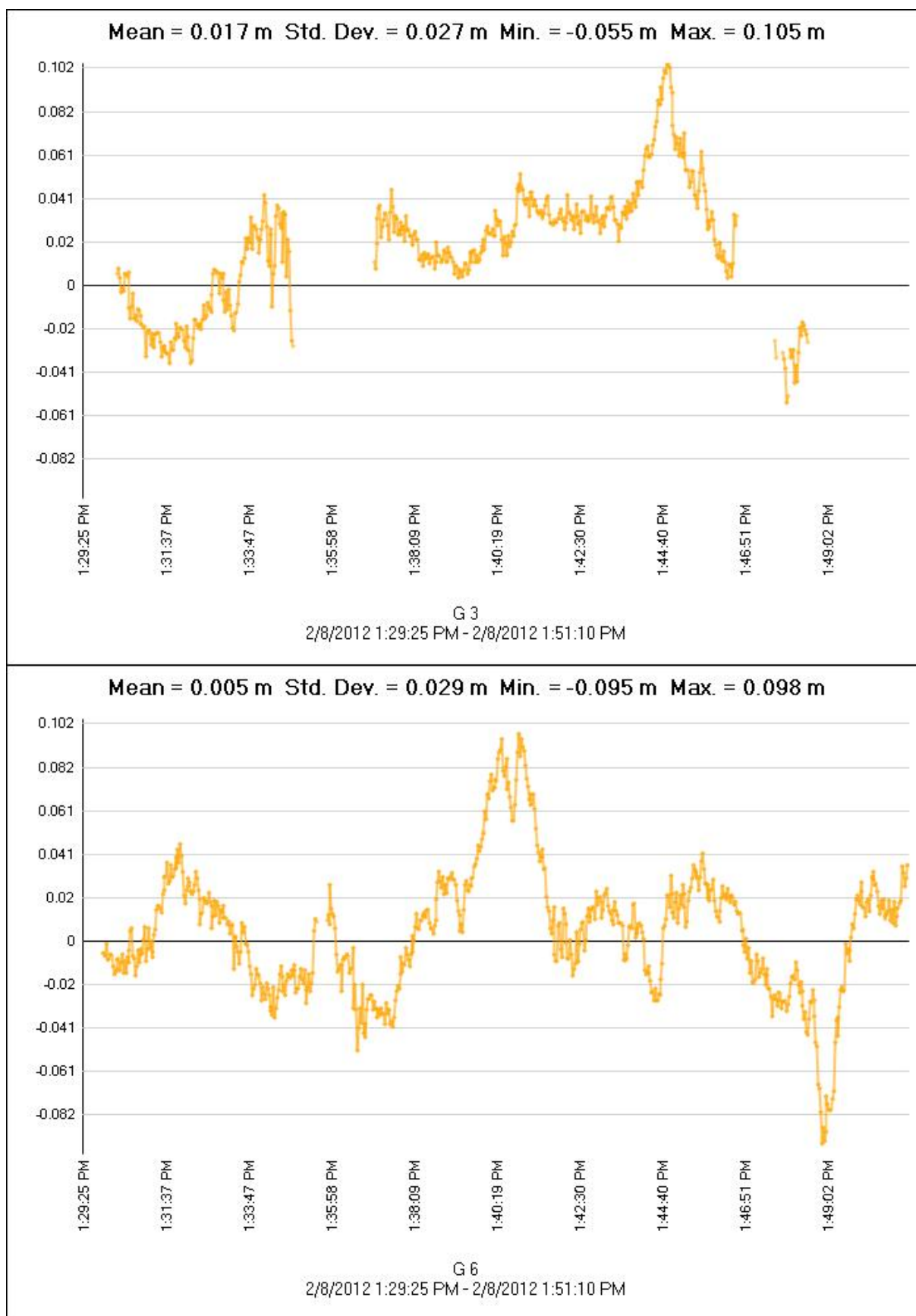
Occupations

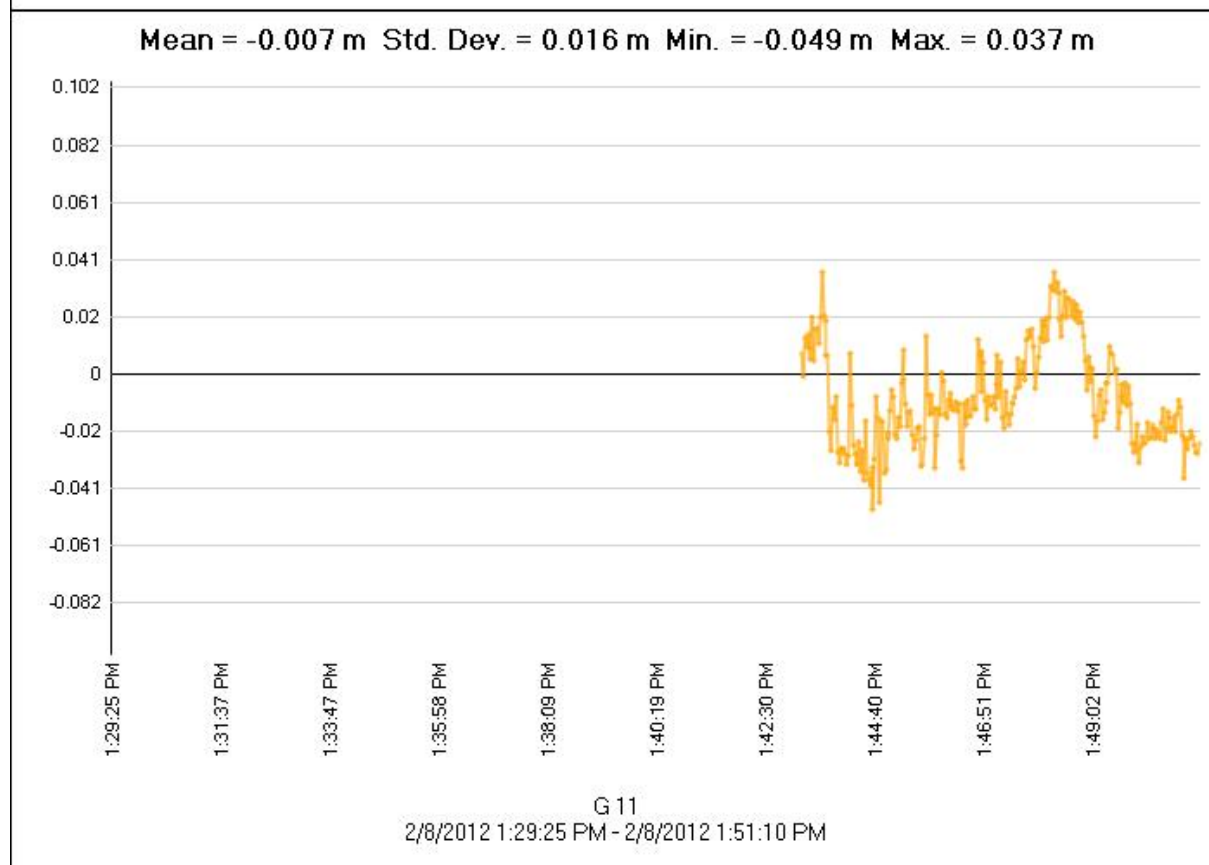
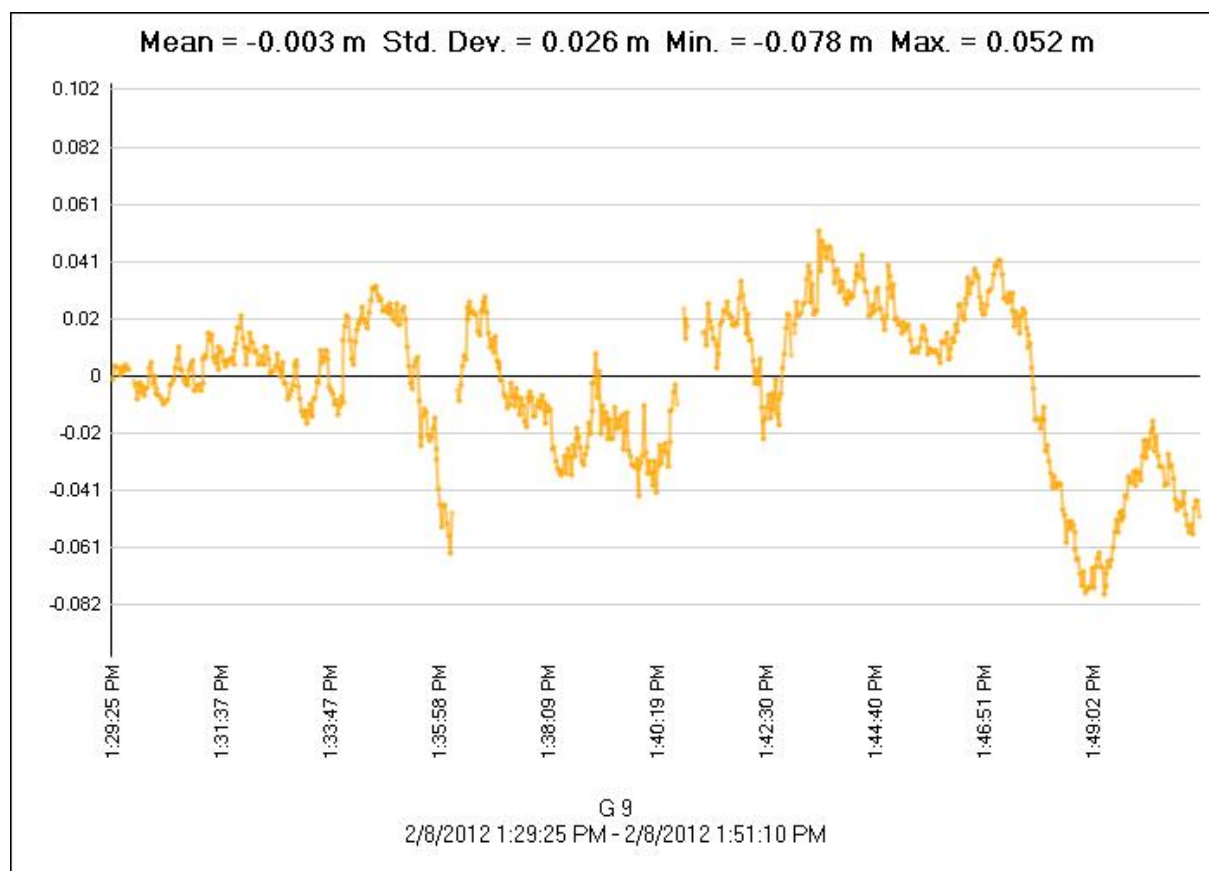
	From	To
Point ID:	HH0162	SVA25-B2
Data file:	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00010390.12o	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00080399.12o
Receiver type:	Unknown	Unknown
Receiver serial number:		
Antenna type:	Unknown External	Unknown External
Antenna serial number:	-----	-----
Antenna height (measured):	1.565 m	2.065 m
Antenna method:	Antenna Phase Center	Antenna Phase Center

Tracking Summary



Residuals





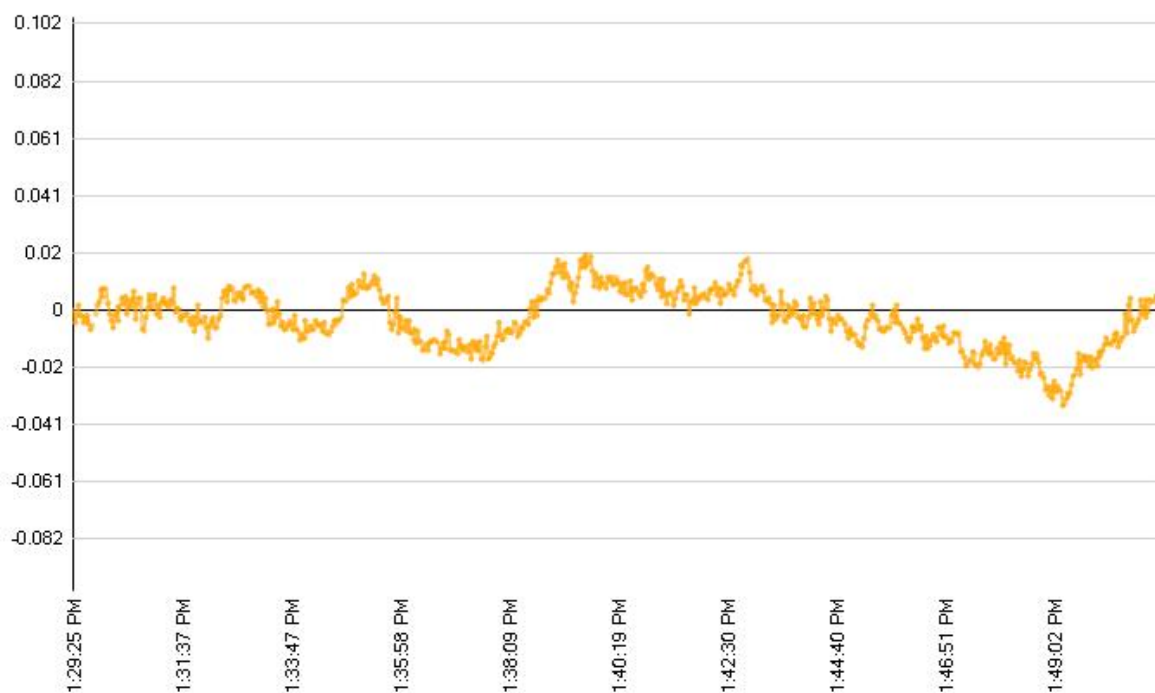
Mean = 0.003 m Std. Dev. = 0.013 m Min. = -0.020 m Max. = 0.034 m



G 14

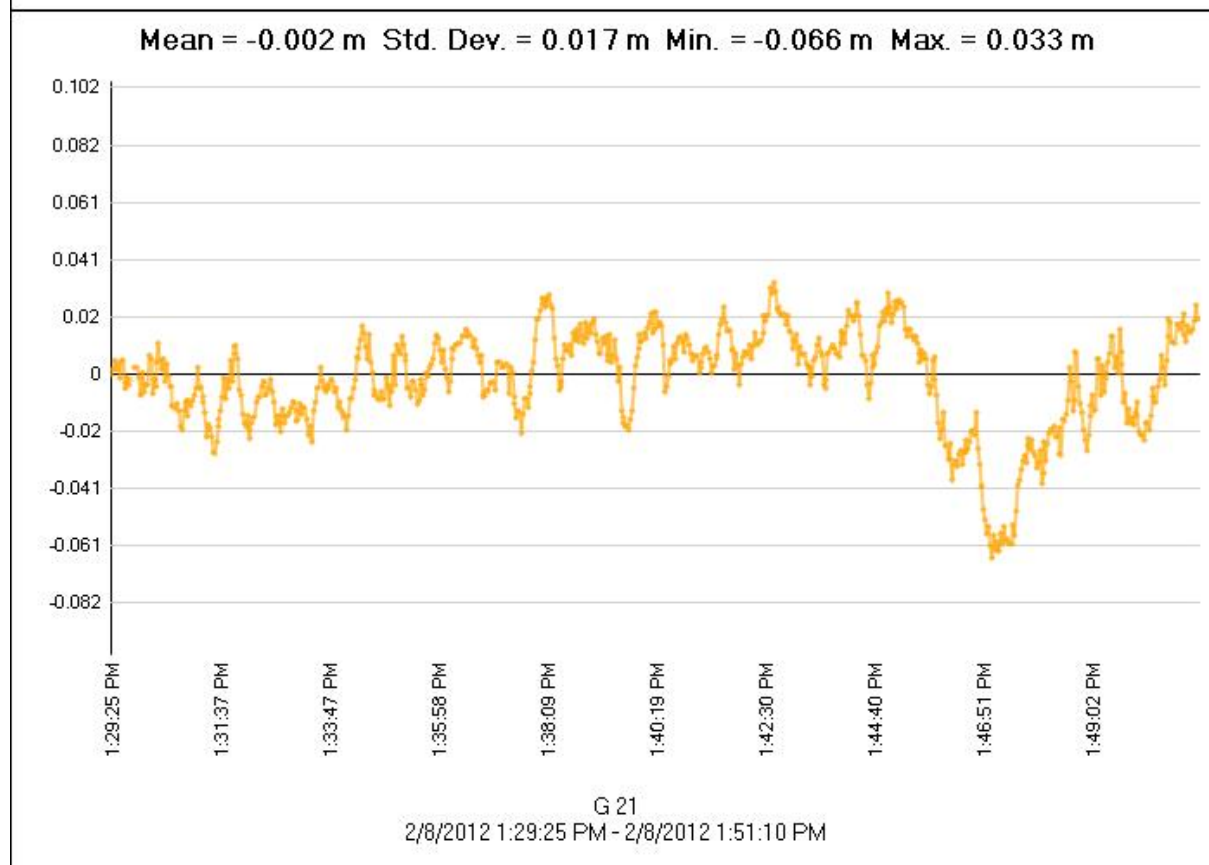
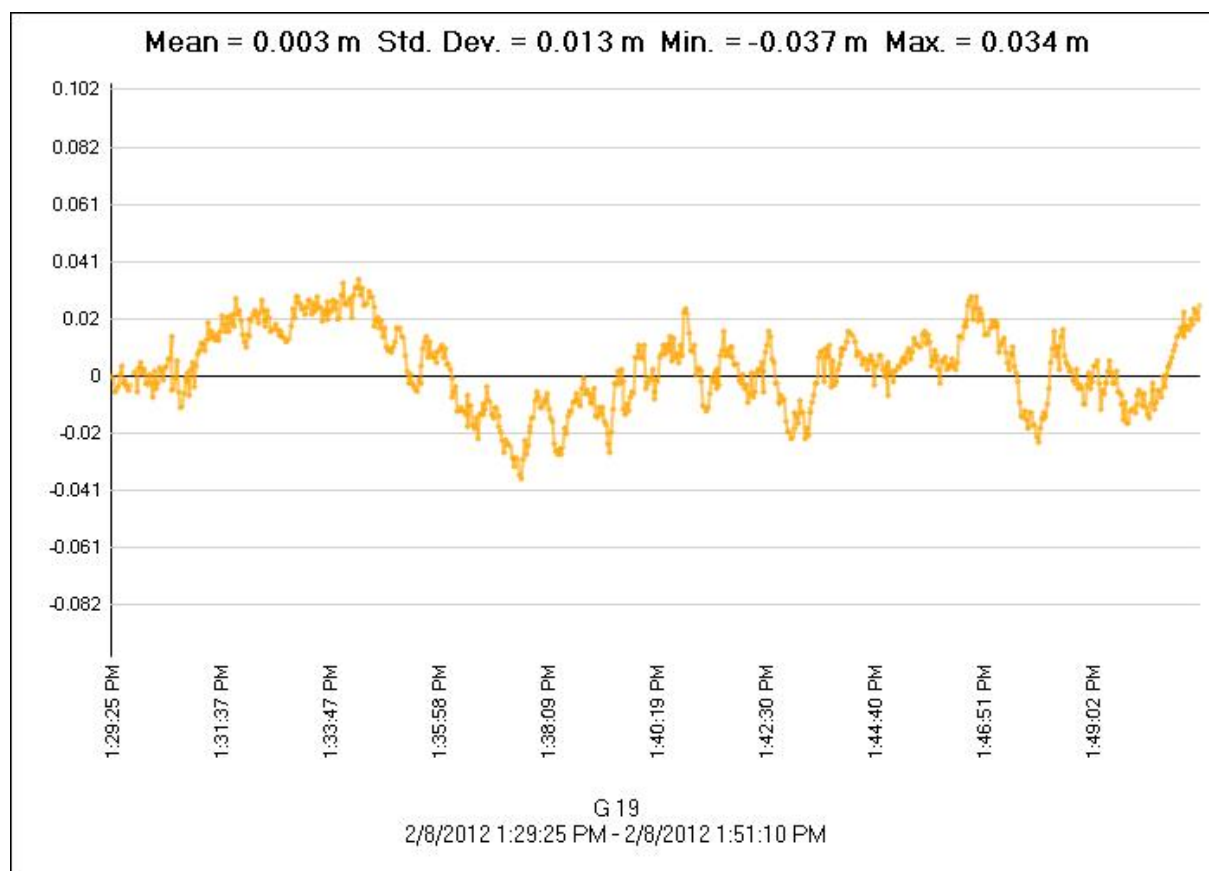
2/8/2012 1:29:25 PM - 2/8/2012 1:51:10 PM

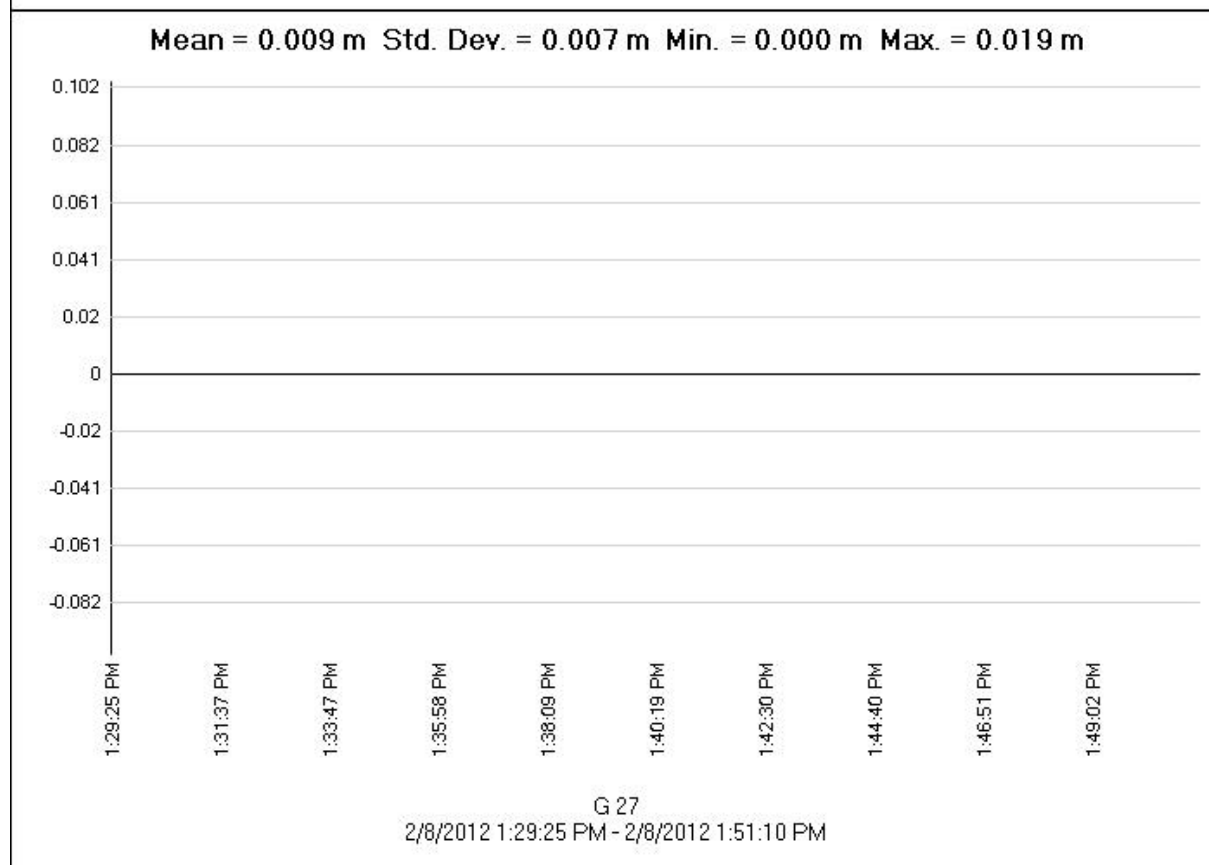
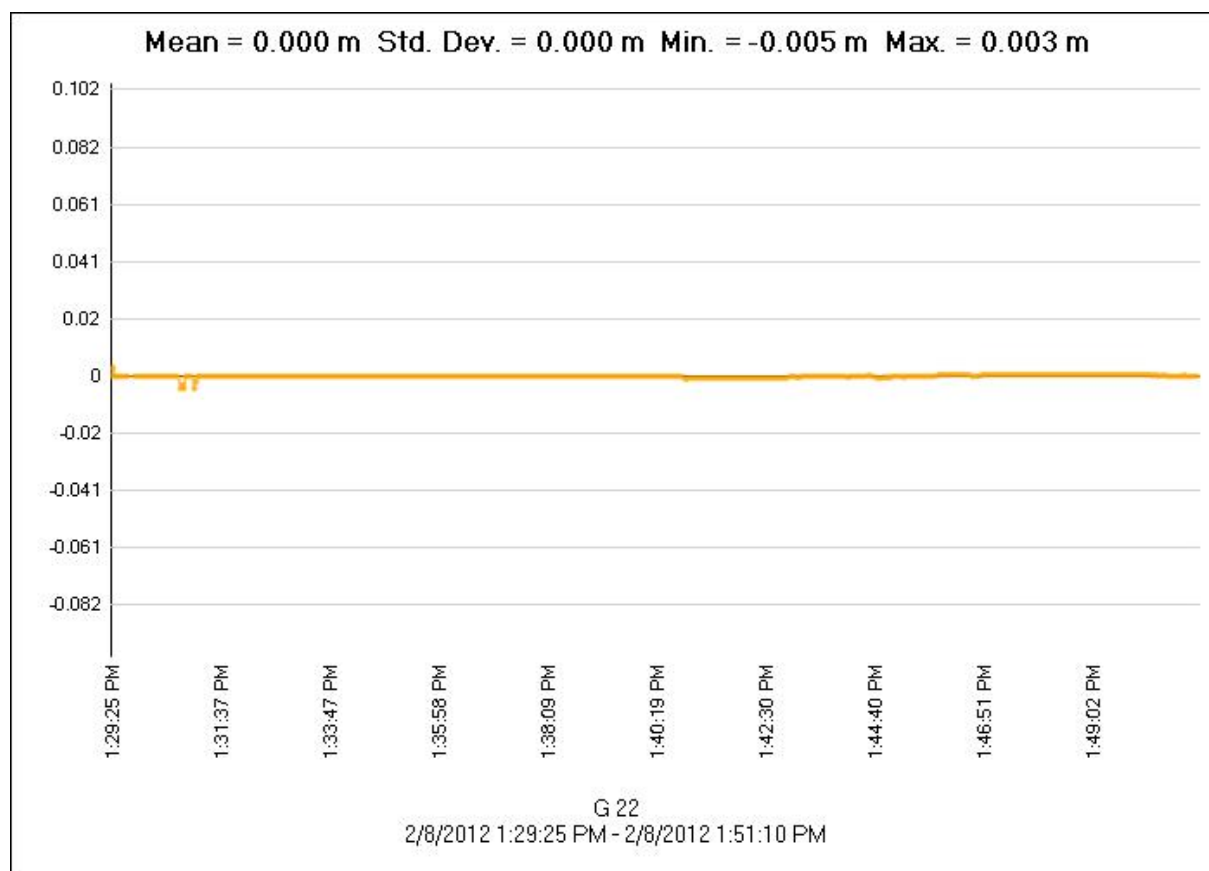
Mean = -0.003 m Std. Dev. = 0.009 m Min. = -0.034 m Max. = 0.020 m

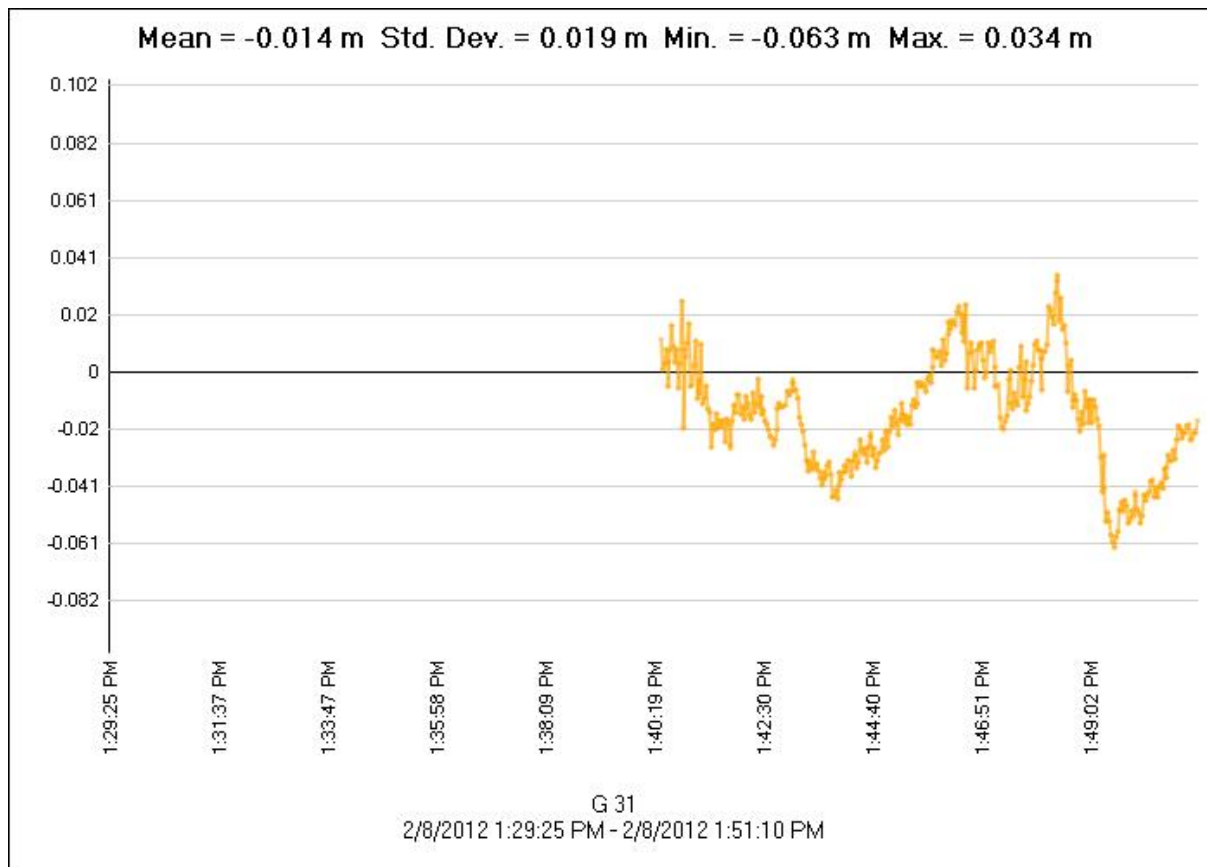


G 18

2/8/2012 1:29:25 PM - 2/8/2012 1:51:10 PM









Processing style

Elevation mask:	10.0 deg
Auto start processing:	Yes
Start automatic ID numbering:	AUTO0001
Continuous vectors:	No
Generate residuals:	Yes
Antenna model:	Automatic
Ephemeris type:	Automatic
Frequency:	Dual Frequency (L1, L2)
Processing Interval:	Use all data
Force float:	No

Acceptance Criteria

Vector Component	Flag 	Fail 
Horizontal Precision >	0.050 m + 1.000 ppm	0.100 m + 1.000 ppm
Vertical Precision >	0.100 m + 1.000 ppm	0.200 m + 1.000 ppm

HH0162 - FVA55-B2-OLD (2:20:56 PM-2:40:46 PM) (S62)

Baseline observation: HH0162 --- FVA55-B2-OLD (B62)

Processed: 3/21/2012 10:59:07 AM

Solution type: Fixed

Frequency used: Dual Frequency (L1, L2)

Horizontal precision: 0.070 m

Vertical precision: 0.133 m

RMS: 0.008 m

Maximum PDOP: 2.300

Ephemeris used: Broadcast

Antenna model: US National Geodetic Survey Calibration

Processing start time: 2/8/2012 2:20:56 PM (Local: UTC-7hr)

Processing stop time: 2/8/2012 2:40:46 PM (Local: UTC-7hr)

Processing duration: 00:19:49

Processing interval: .5 second

Vector Components (Mark to Mark)

From:	HH0162				
Grid		Local		Global	
Easting	334883.094 m	Latitude	N37°57'51.89981"	Latitude	N37°57'51.89980"
Northing	4203533.480 m	Longitude	W100°52'46.80868"	Longitude	W100°52'46.80868"
Elevation	875.739 m	Height	850.245 m	Height	850.245 m

To:	FVA55-B2-OLD				
Grid		Local		Global	
Easting	388221.658 m	Latitude	N37°48'09.06665"	Latitude	N37°48'09.06665"
Northing	4184663.634 m	Longitude	W100°16'10.98144"	Longitude	W100°16'10.98144"
Elevation	821.036 m	Height	795.203 m	Height	795.203 m

Vector					
9Ughb[	53338.565 m	NS Fwd Azimuth	108°19'40"	L	50736.164 m
Bcfh\jb[	-18869.846 m	Ellipsoid Dist.	56587.141 m	M	-20654.028 m
9Yj Uhcb	-54.702 m	<Y][\h	-55.042 m	N	-14218.466 m

Standard Errors

Vector errors:

Point ID	0.015 m	Point Description	0°00'00"	Point Type	0.025 m
Point B	0.027 m	Point C	0.012 m	Point M	0.064 m
Point D	0.068 m	Point E	0.068 m	Point N	0.028 m

Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0006168899		
Y	0.0013570799	0.0041075242	
Z	-0.0004616599	-0.0014622390	0.0008055186

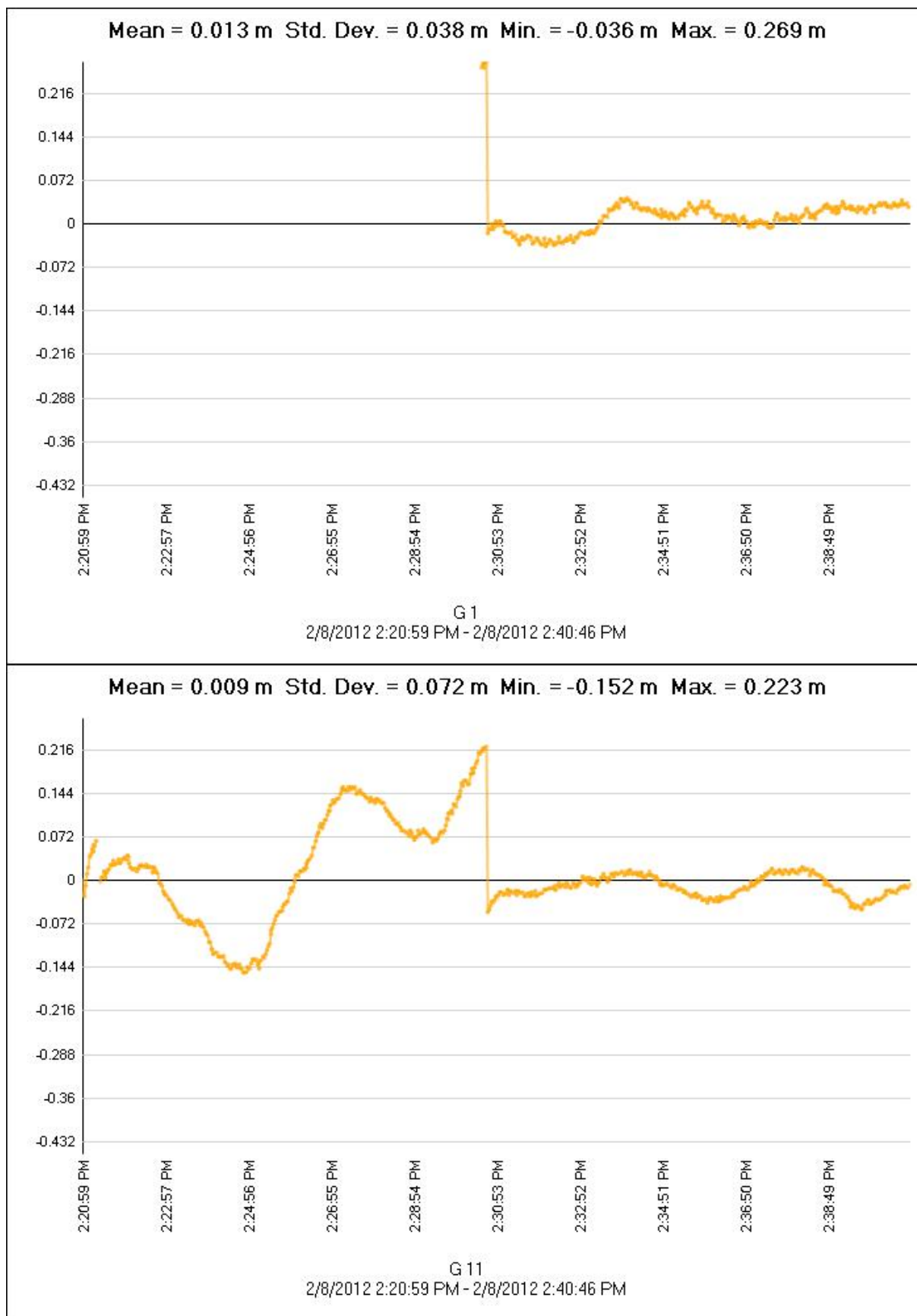
Occupations

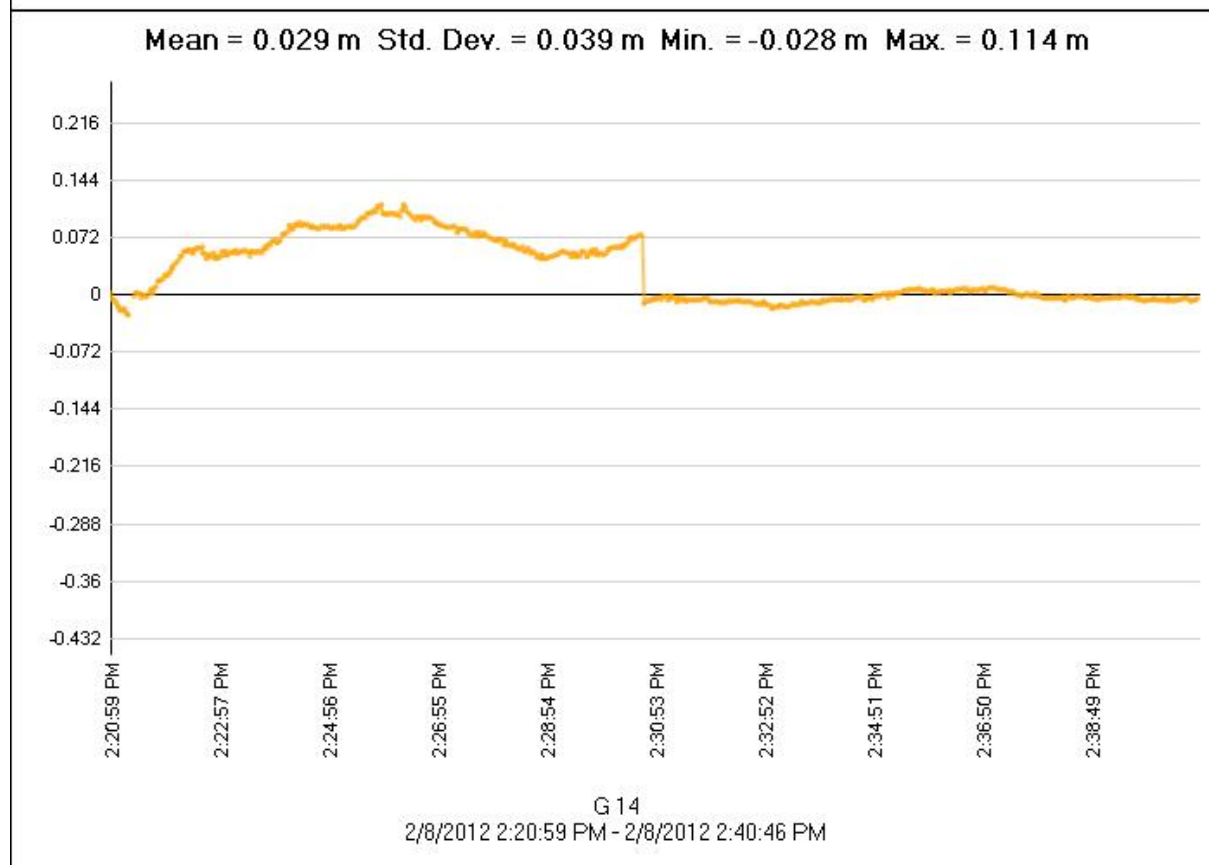
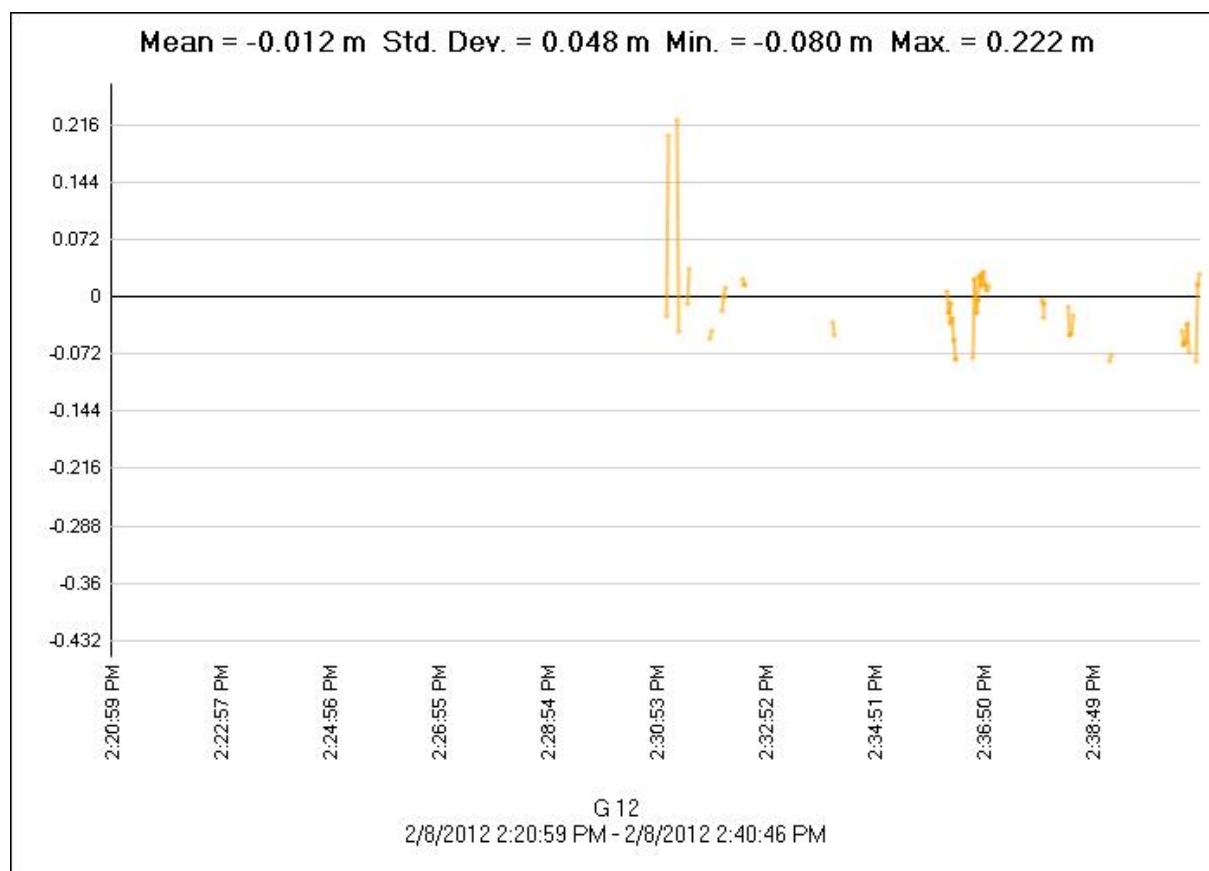
	From	To
Point ID:	HH0162	FVA55-B2-OLD
Data file:	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00010390.12o	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\0008039A.12o
Receiver type:	Unknown	Unknown
Receiver serial number:		
Antenna type:	Unknown External	Unknown External
Antenna serial number:	-----	-----
Antenna height (measured):	1.565 m	2.065 m
Antenna method:	Antenna Phase Center	Antenna Phase Center

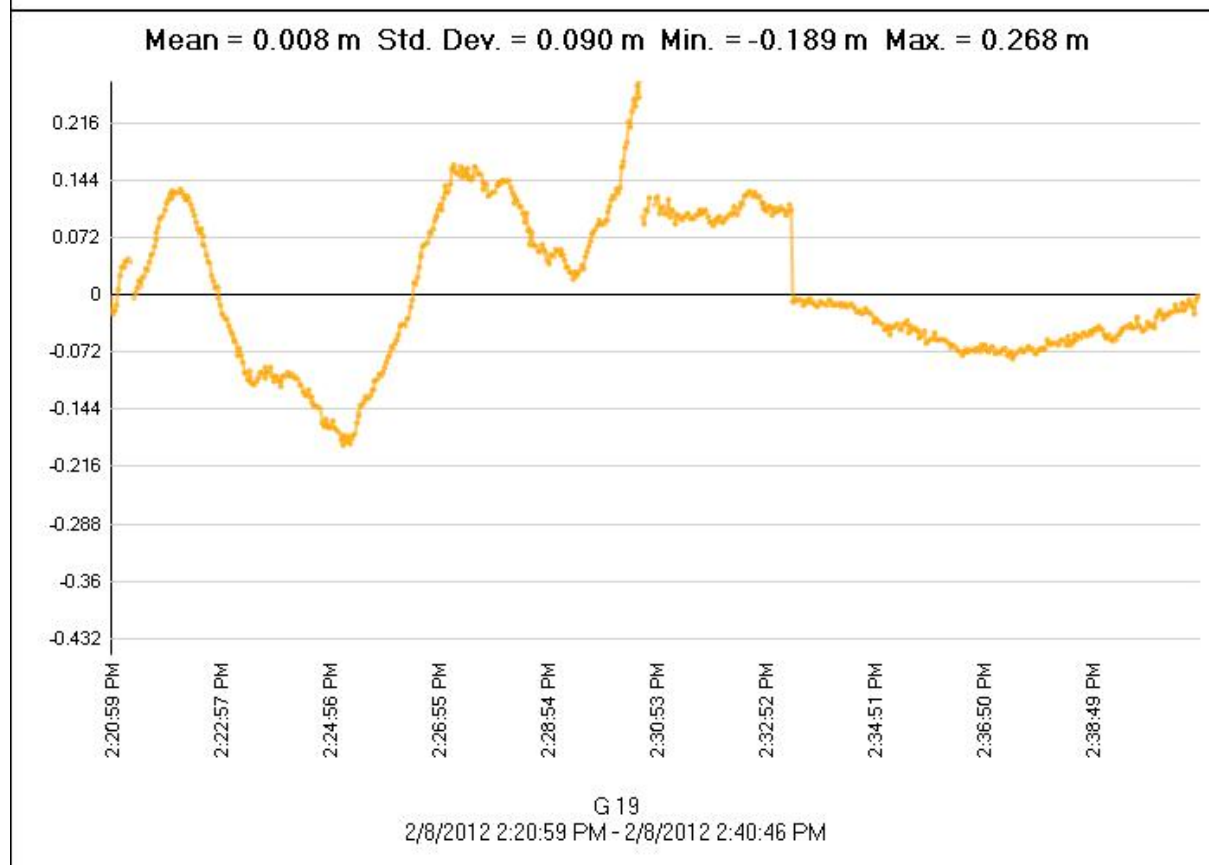
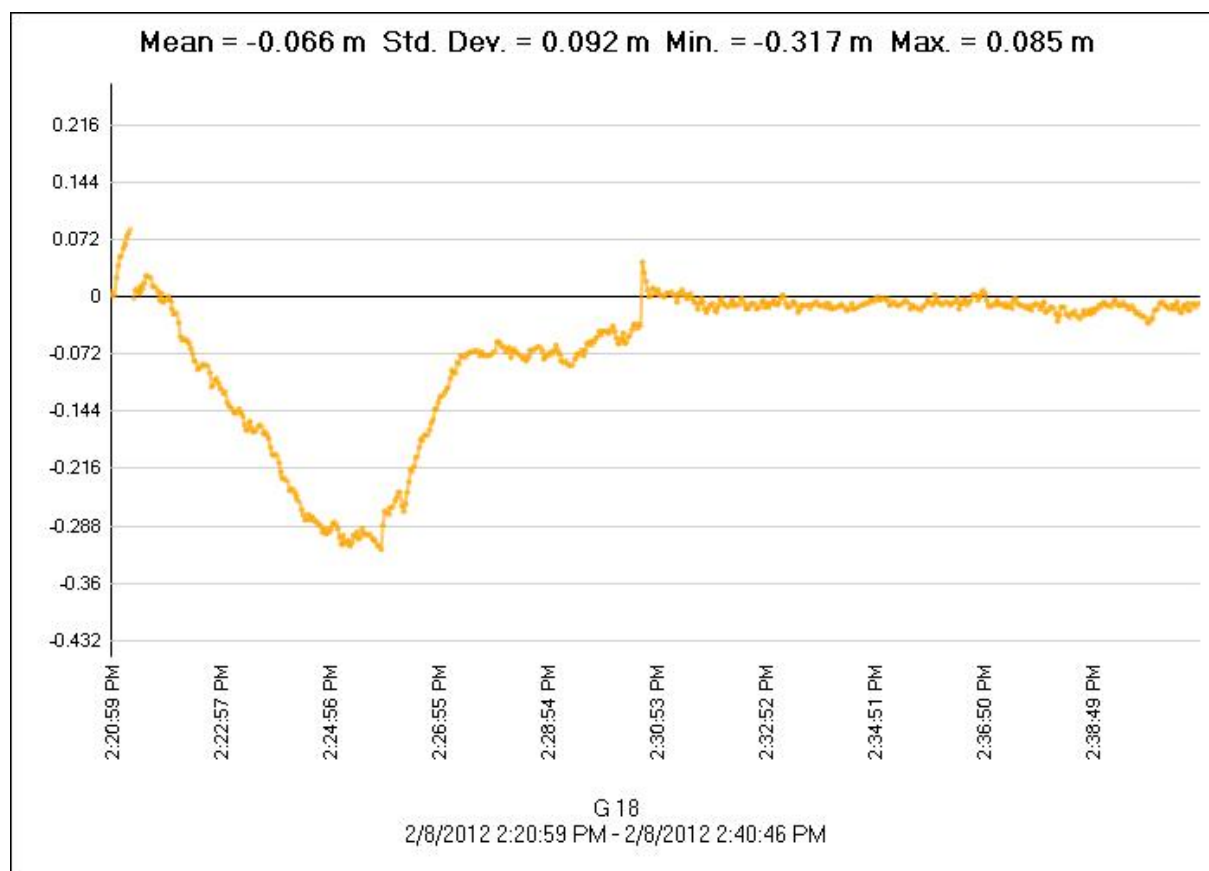
Tracking Summary

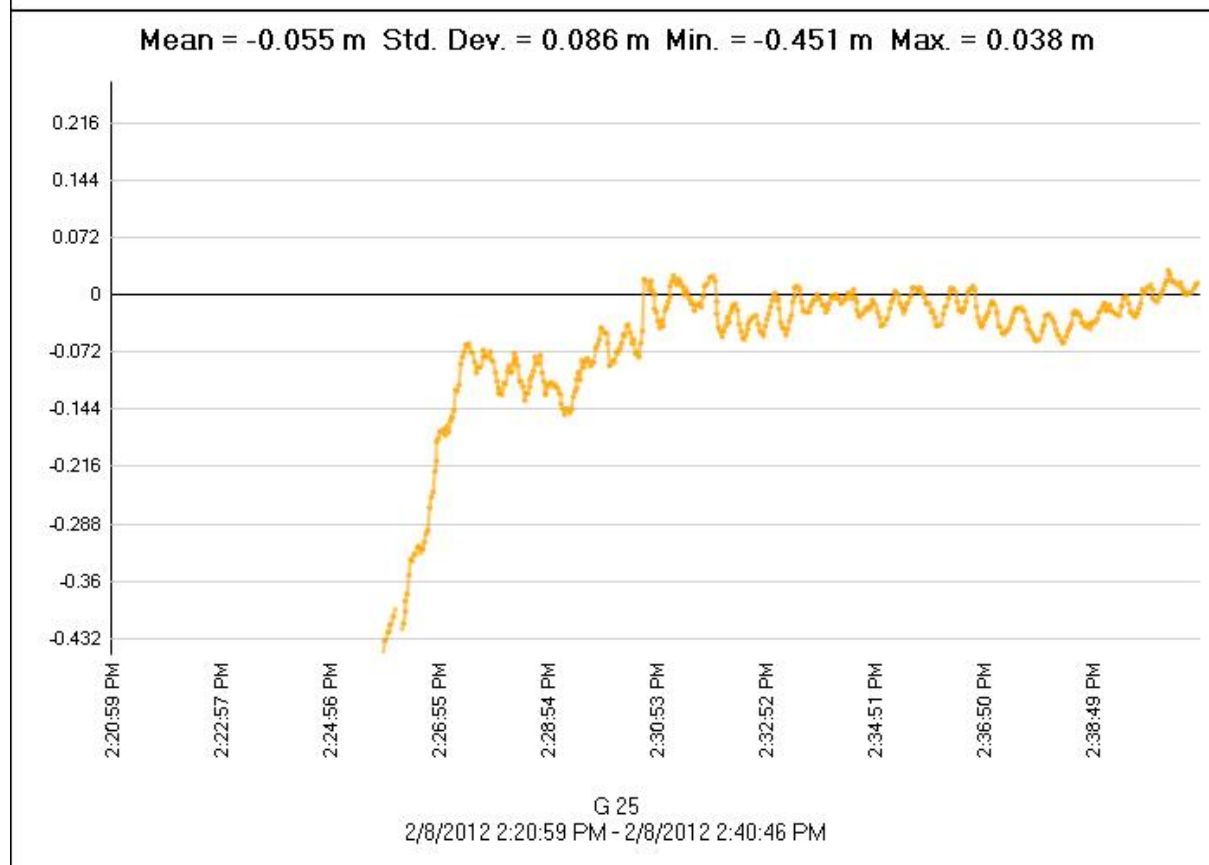
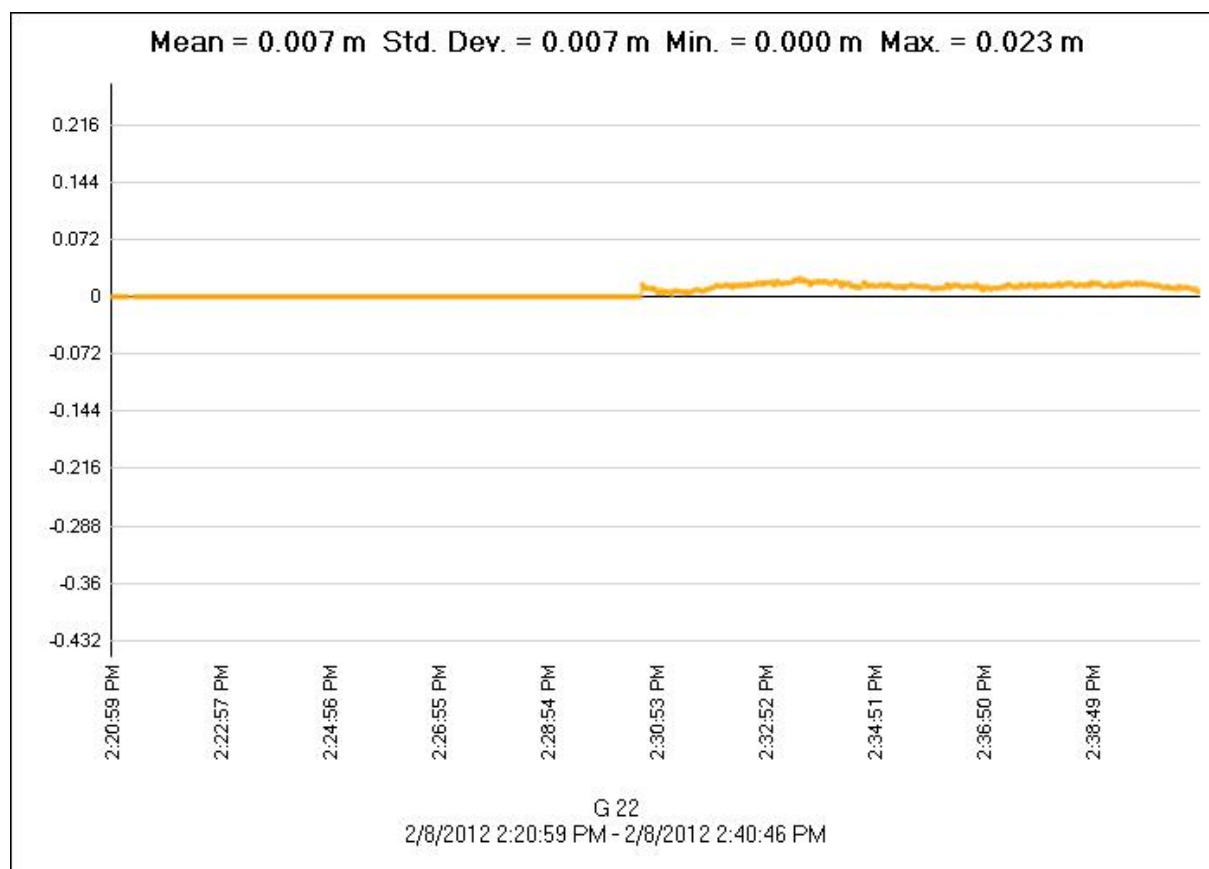
SV		2/8/2012 2:20:56 PM	Duration: 00:19:49.5000000	Major interval: 00:01:00	2/8/2012 2:40:46 PM
G 1	L1				
	L2				
G 6	L1				
	L2				
G 9	L1				
	L2				
G 11	L1				
	L2				
G 12	L1				
	L2				
G 14	L1				
	L2				
G 18	L1				
	L2				
G 19	L1				
	L2				
G 21	L1				
	L2				
G 22	L1				
	L2				
G 25	L1				
	L2				
G 31	L1				
	L2				
G 32	L1				
	L2				

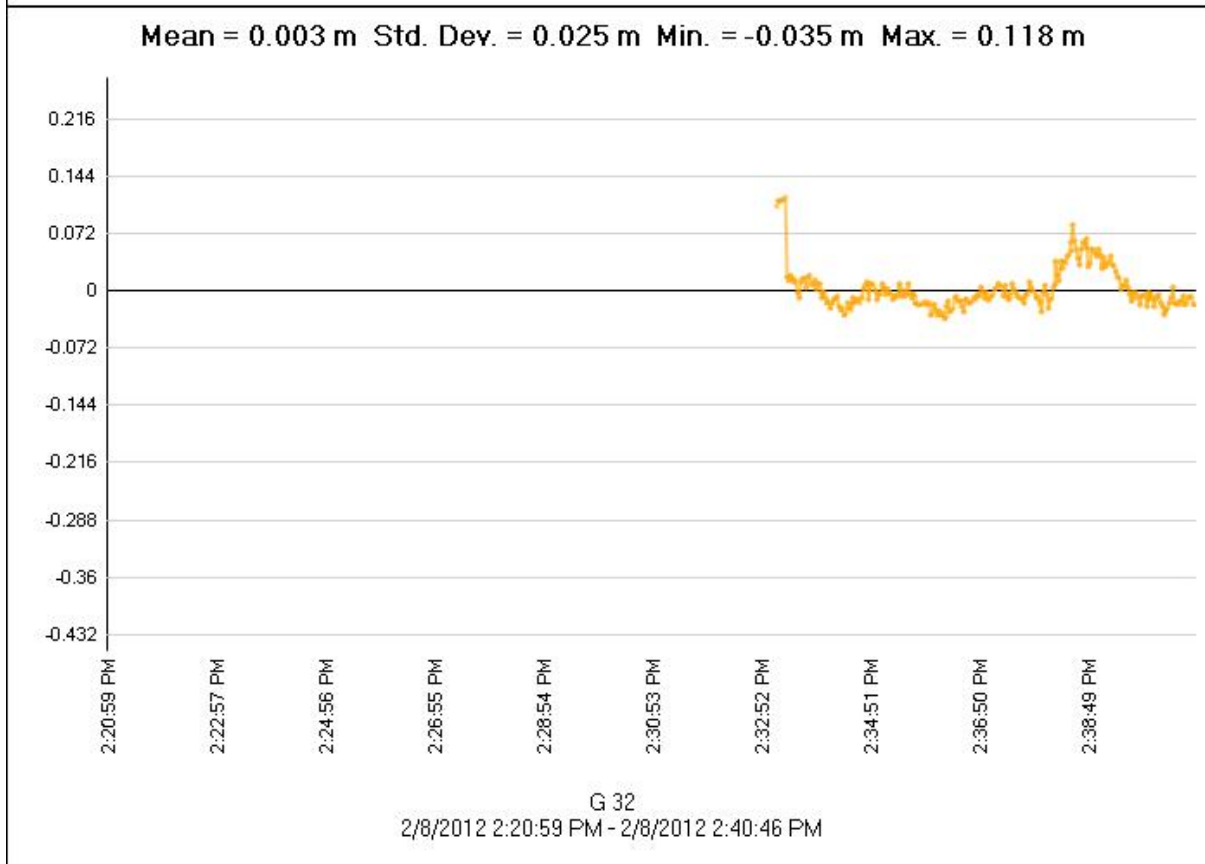
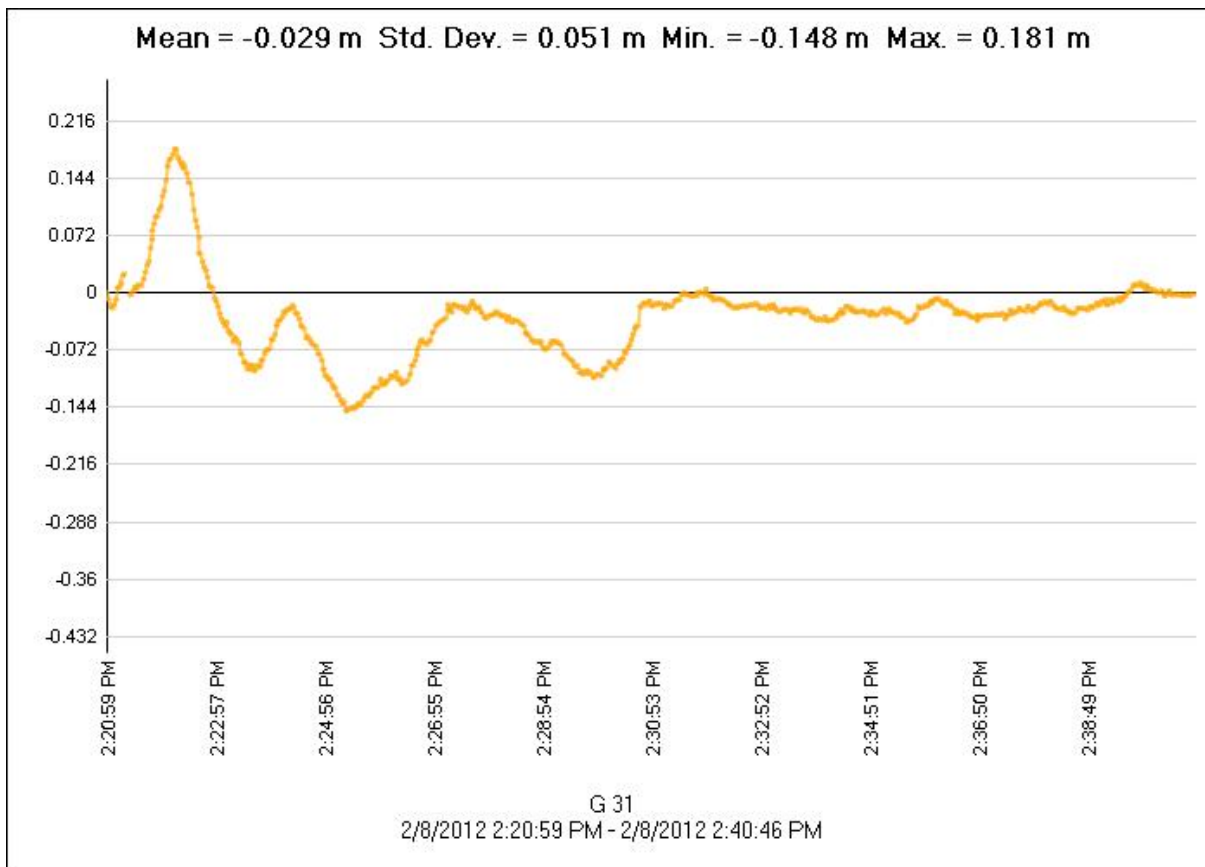
Residuals













Processing style

Elevation mask:	10.0 deg
Auto start processing:	Yes
Start automatic ID numbering:	AUTO0001
Continuous vectors:	No
Generate residuals:	Yes
Antenna model:	Automatic
Ephemeris type:	Automatic
Frequency:	Dual Frequency (L1, L2)
Processing Interval:	Use all data
Force float:	No

Acceptance Criteria

Vector Component	Flag 	Fail 
Horizontal Precision >	0.050 m + 1.000 ppm	0.100 m + 1.000 ppm
Vertical Precision >	0.100 m + 1.000 ppm	0.200 m + 1.000 ppm

Baseline observation: HH0162 --- SVA55-B2 (B63)

Processed: 3/21/2012 10:59:36 AM

Solution type: Fixed

Frequency used: Dual Frequency (L1, L2)

Horizontal precision: 0.034 m

Vertical precision: 0.029 m

RMS: 0.009 m

Maximum PDOP: 1.993

Ephemeris used: Broadcast

Antenna model: US National Geodetic Survey Calibration

Processing start time: 2/8/2012 2:45:24 PM (Local: UTC-7hr)

Processing stop time: 2/8/2012 3:05:54 PM (Local: UTC-7hr)

Processing duration: 00:20:29

Processing interval: .5 second

Vector Components (Mark to Mark)

From:	HH0162				
Grid		Local		Global	
Easting	334883.094 m	Latitude	N37°57'51.89981"	Latitude	N37°57'51.89980"
Northing	4203533.480 m	Longitude	W100°52'46.80868"	Longitude	W100°52'46.80868"
Elevation	875.739 m	Height	850.245 m	Height	850.245 m

To:	SVA55-B2				
Grid		Local		Global	
Easting	388227.926 m	Latitude	N37°48'11.67245"	Latitude	N37°48'11.67245"
Northing	4184743.877 m	Longitude	W100°16'10.76977"	Longitude	W100°16'10.76977"
Elevation	820.980 m	Height	795.148 m	Height	795.148 m

Vector					
9Ughb[	53344.832 m	NS Fwd Azimuth	108°14'57"	L	50750.048 m
Bcfh\jb[	-18789.603 m	Ellipsoid Dist.	56566.338 m	M	-20606.447 m
9Yj Uhcb	-54.759 m	<Y][\h	-55.097 m	N	-14155.013 m

Standard Errors

Vector errors:					
Point ID	0.011 m	Point Description	0°00'00"	Point Type	0.011 m
Point ID	0.010 m	Point Description	0.008 m	Point Type	0.010 m
Point ID	0.015 m	Point Description	0.015 m	Point Type	0.014 m

Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0001262668		
Y	0.0000085666	0.0001082780	
Z	0.0000815681	-0.0000879302	0.0001950597

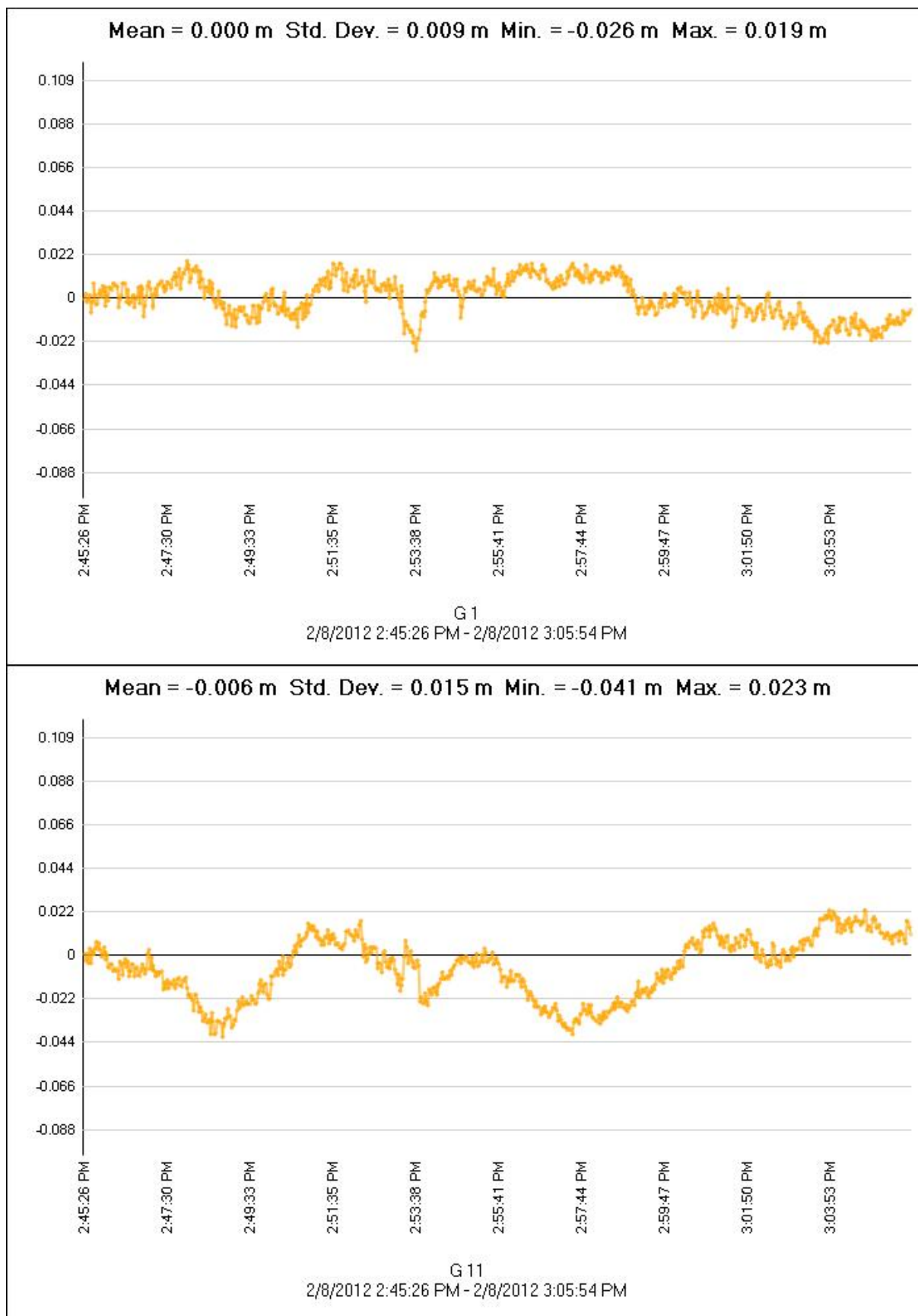
Occupations

	From	To
Point ID:	HH0162	SVA55-B2
Data file:	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00010390.12o	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\0008039B.12o
Receiver type:	Unknown	Unknown
Receiver serial number:		
Antenna type:	Unknown External	Unknown External
Antenna serial number:	-----	-----
Antenna height (measured):	1.565 m	2.065 m
Antenna method:	Antenna Phase Center	Antenna Phase Center

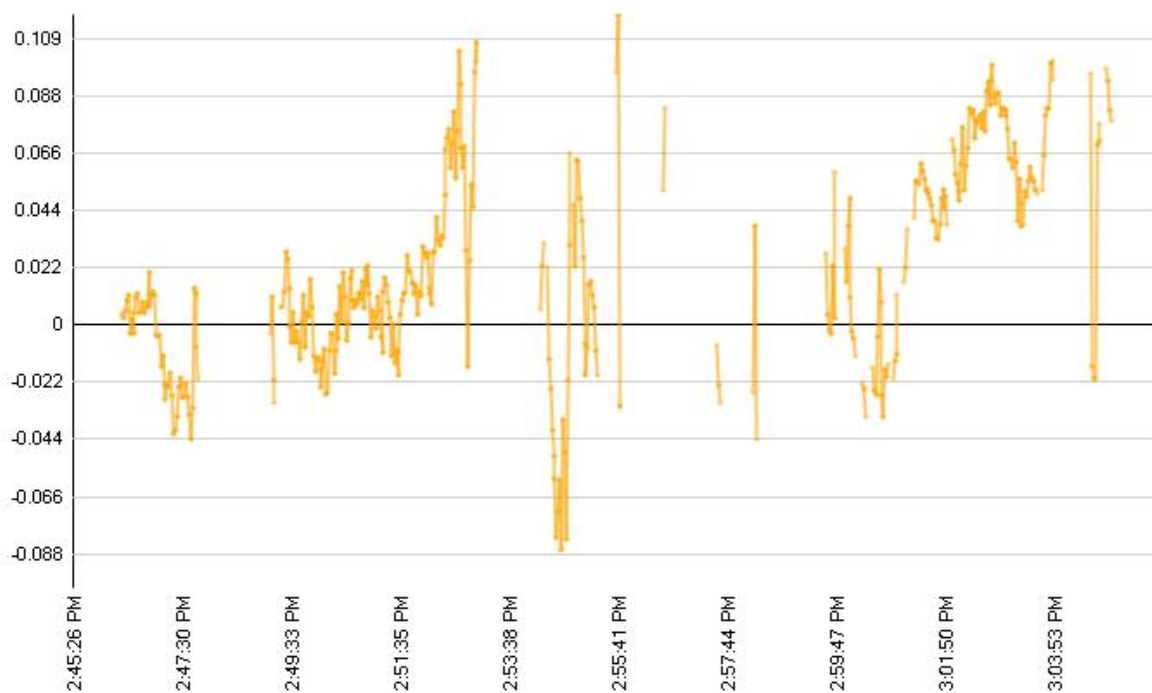
Tracking Summary

SV	2/8/2012 2:45:24 PM	Duration: 00:20:29.5000000	Major interval: 00:01:00	2/8/2012 3:05:54 PM
G1				
G9				
G11				
G12				
G14				
G18				
G19				
G22				
G25				
G31				
G32				

Residuals

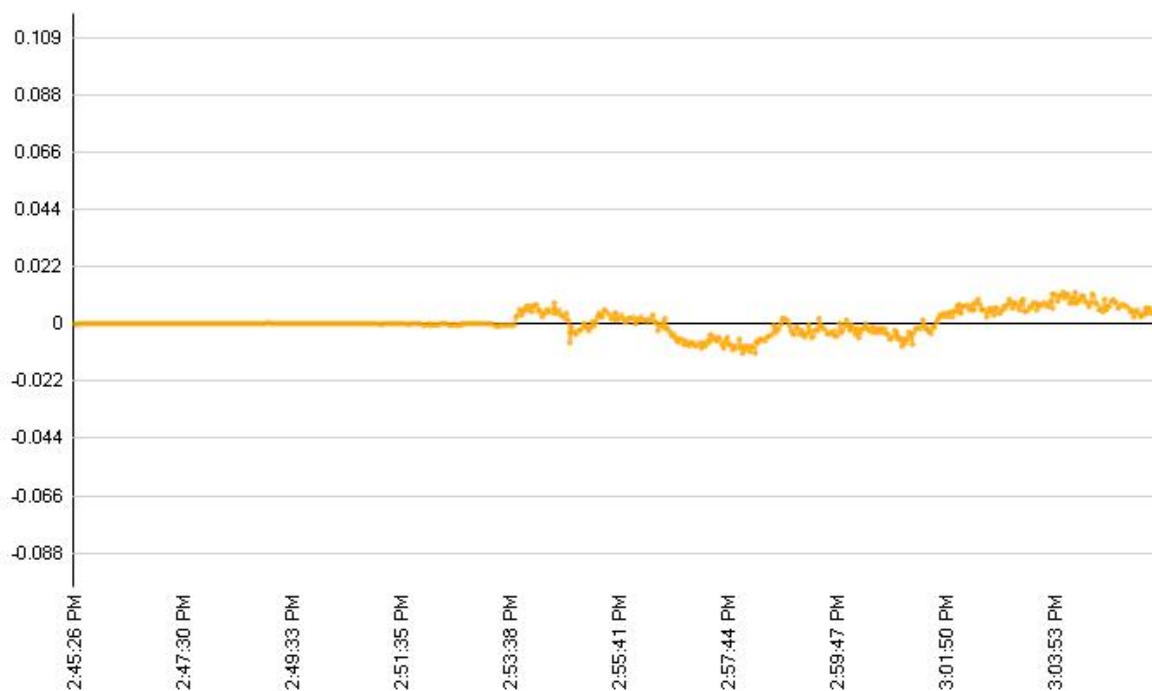


Mean = 0.020 m Std. Dev. = 0.037 m Min. = -0.086 m Max. = 0.119 m

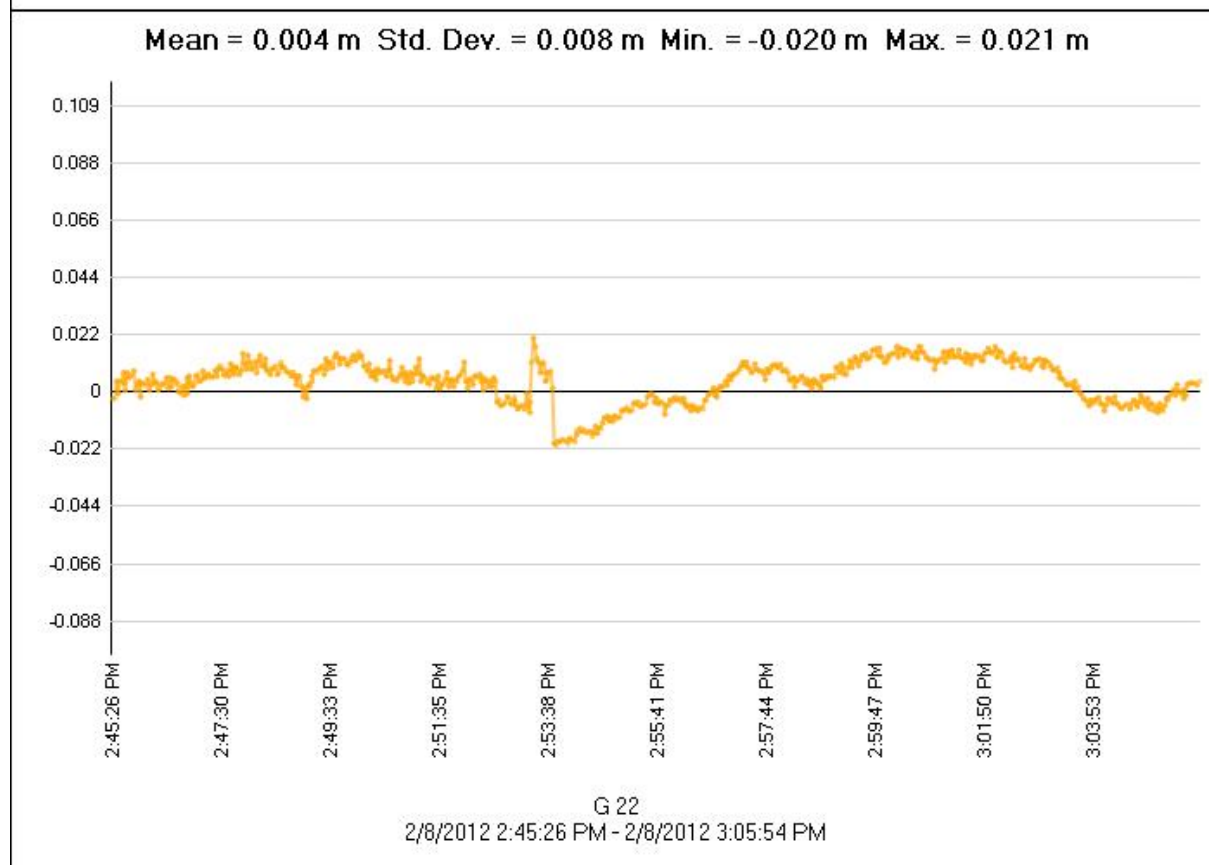
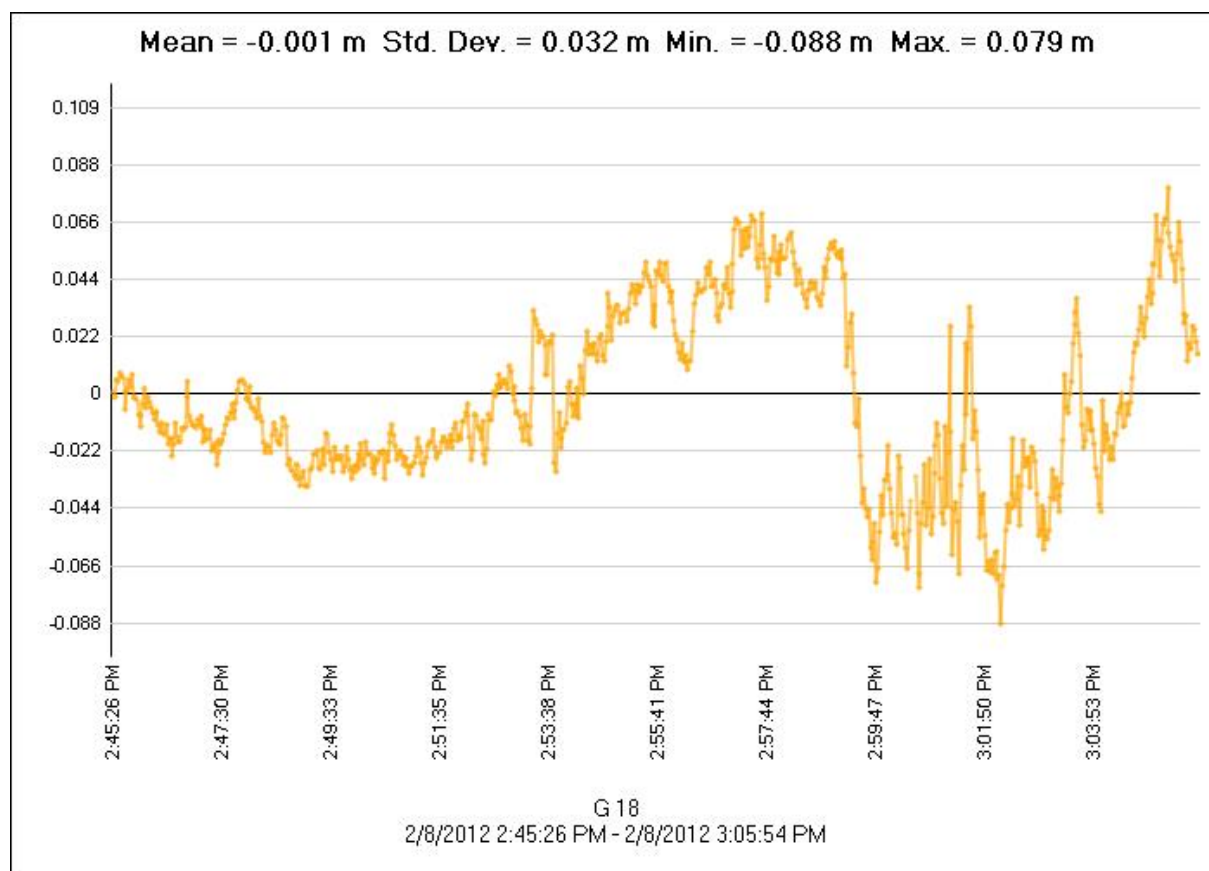


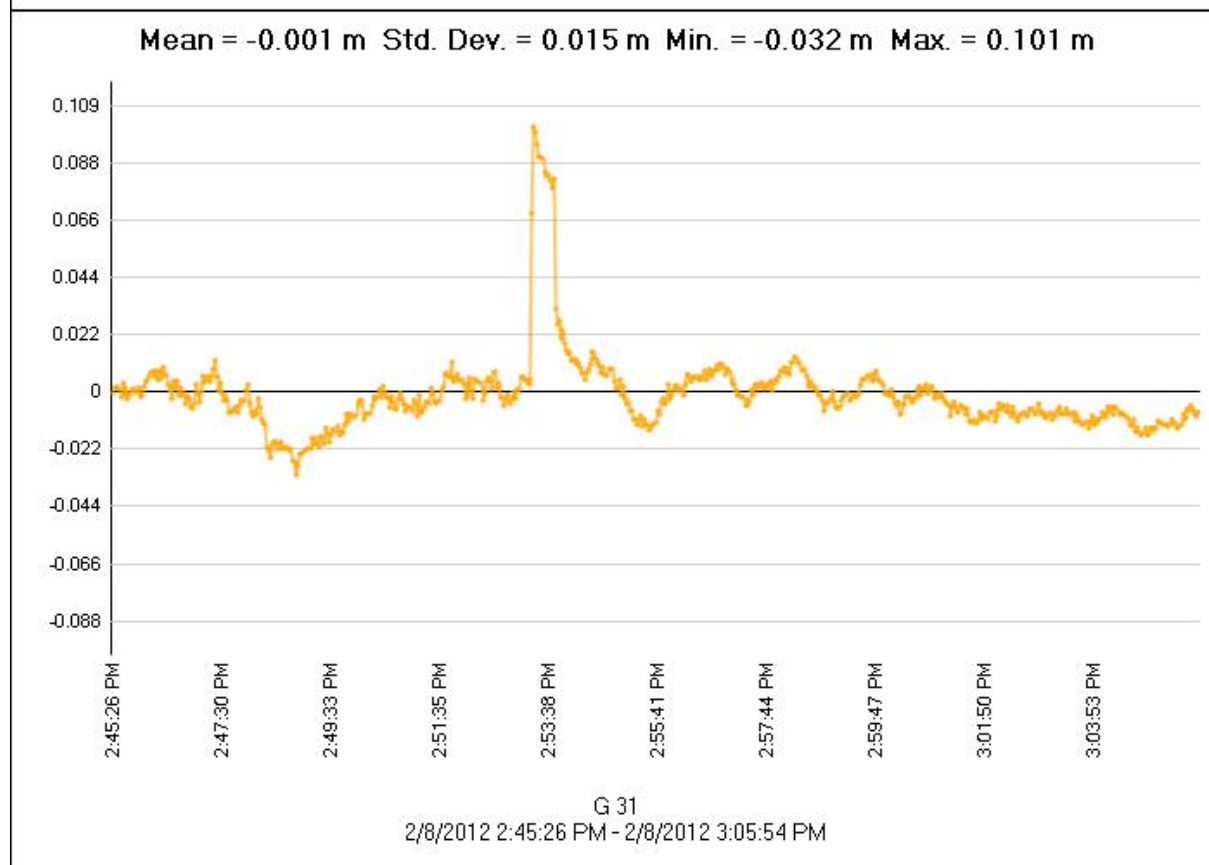
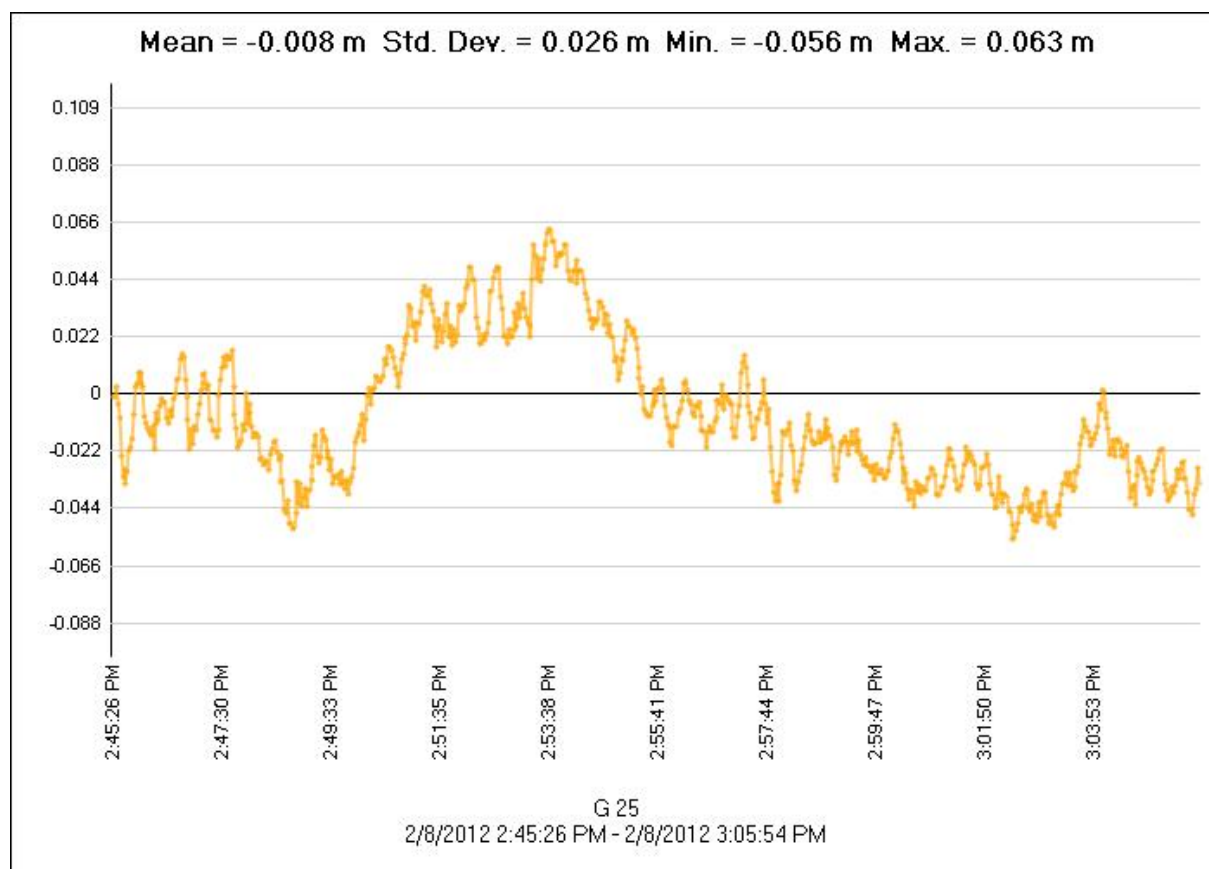
G 12
2/8/2012 2:45:26 PM - 2/8/2012 3:05:54 PM

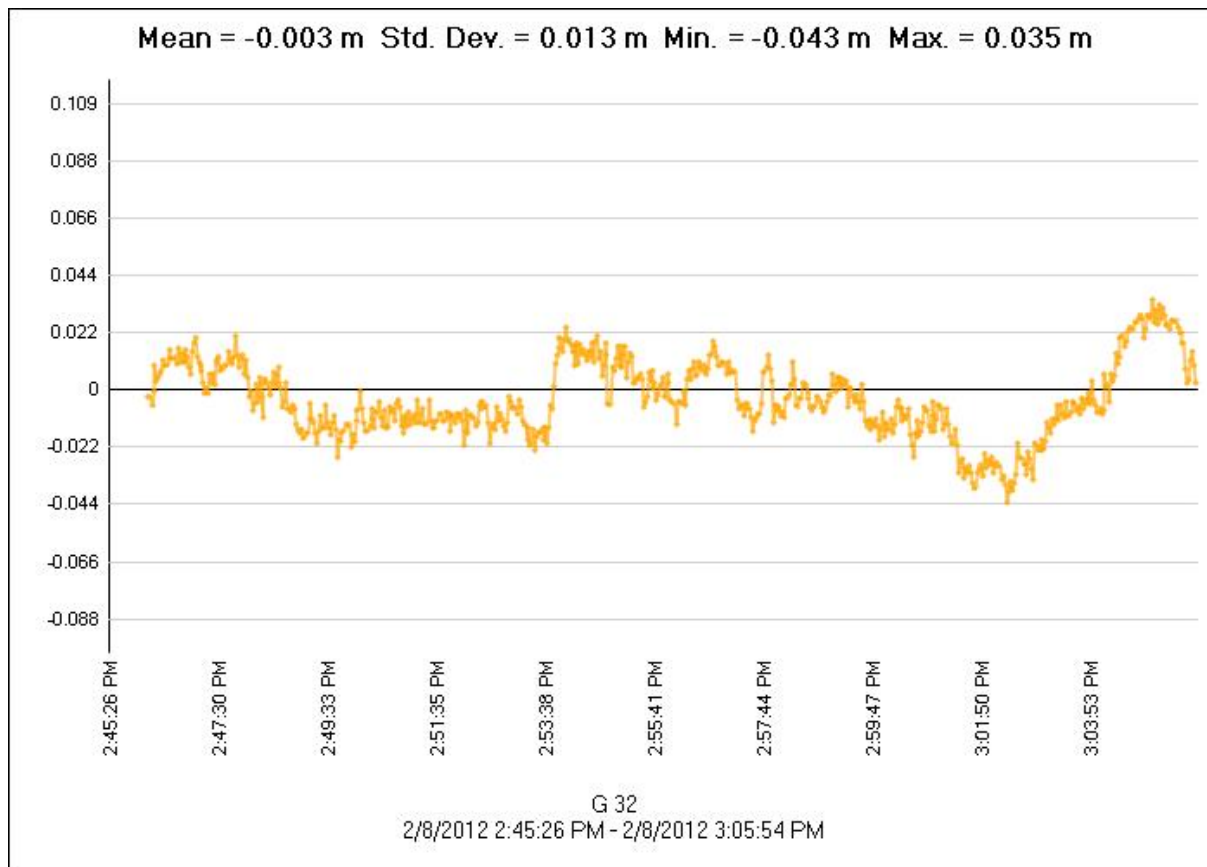
Mean = 0.001 m Std. Dev. = 0.004 m Min. = -0.011 m Max. = 0.012 m



G 14
2/8/2012 2:45:26 PM - 2/8/2012 3:05:54 PM







Processing style

Elevation mask:	10.0 deg
Auto start processing:	Yes
Start automatic ID numbering:	AUTO0001
Continuous vectors:	No
Generate residuals:	Yes
Antenna model:	Automatic
Ephemeris type:	Automatic
Frequency:	Dual Frequency (L1, L2)
Processing Interval:	Use all data
Force float:	No

Acceptance Criteria

Vector Component	Flag 	Fail 
Horizontal Precision >	0.050 m + 1.000 ppm	0.100 m + 1.000 ppm
Vertical Precision >	0.100 m + 1.000 ppm	0.200 m + 1.000 ppm

HH0162 - FVA24-B2-OLD (3:22:32 PM-3:40:54 PM) (S64)

Baseline observation: HH0162 --- FVA24-B2-OLD (B64)

Processed: 3/21/2012 10:58:54 AM

Solution type: Fixed

Frequency used: Dual Frequency (L1, L2)

Horizontal precision: 0.009 m

Vertical precision: 0.017 m

RMS: 0.005 m

Maximum PDOP: 2.734

Ephemeris used: Broadcast

Antenna model: US National Geodetic Survey Calibration

Processing start time: 2/8/2012 3:22:32 PM (Local: UTC-7hr)

Processing stop time: 2/8/2012 3:40:54 PM (Local: UTC-7hr)

Processing duration: 00:18:21

Processing interval: .5 second

Vector Components (Mark to Mark)

From:	HH0162				
Grid		Local		Global	
Easting	334883.094 m	Latitude	N37°57'51.89981"	Latitude	N37°57'51.89980"
Northing	4203533.480 m	Longitude	W100°52'46.80868"	Longitude	W100°52'46.80868"
Elevation	875.739 m	Height	850.245 m	Height	850.245 m

To:	FVA24-B2-OLD				
Grid		Local		Global	
Easting	395241.646 m	Latitude	N37°51'55.67344"	Latitude	N37°51'55.67343"
Northing	4191556.600 m	Longitude	W100°11'27.56385"	Longitude	W100°11'27.56385"
Elevation	819.549 m	Height	793.822 m	Height	793.822 m

Vector					
9Ughb[	60358.552 m	NS Fwd Azimuth	100°04'05"	L	58318.591 m
Bcfh\jb[	-11976.880 m	Ellipsoid Dist.	61545.945 m	M	-17666.161 m
9Yj Uhcb	-56.189 m	<Y][\h	-56.423 m	N	-8700.651 m

Standard Errors

Vector errors:					
Point ID	0.003 m	Point ID	0°00'00"	Point ID	0.003 m
Point ID	0.004 m	Point ID	0.003 m	Point ID	0.006 m
Point ID	0.009 m	Point ID	0.009 m	Point ID	0.007 m






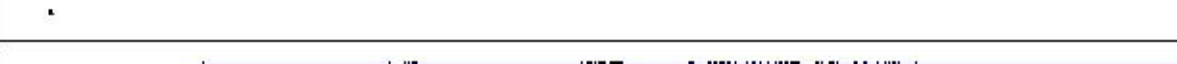

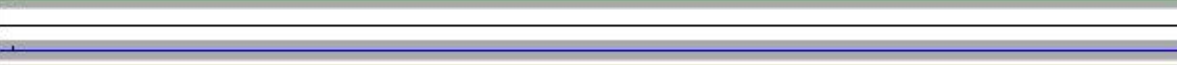




Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0000112894		
Y	0.0000124575	0.0000386493	
Z	-0.0000091432	-0.0000319397	0.0000478596

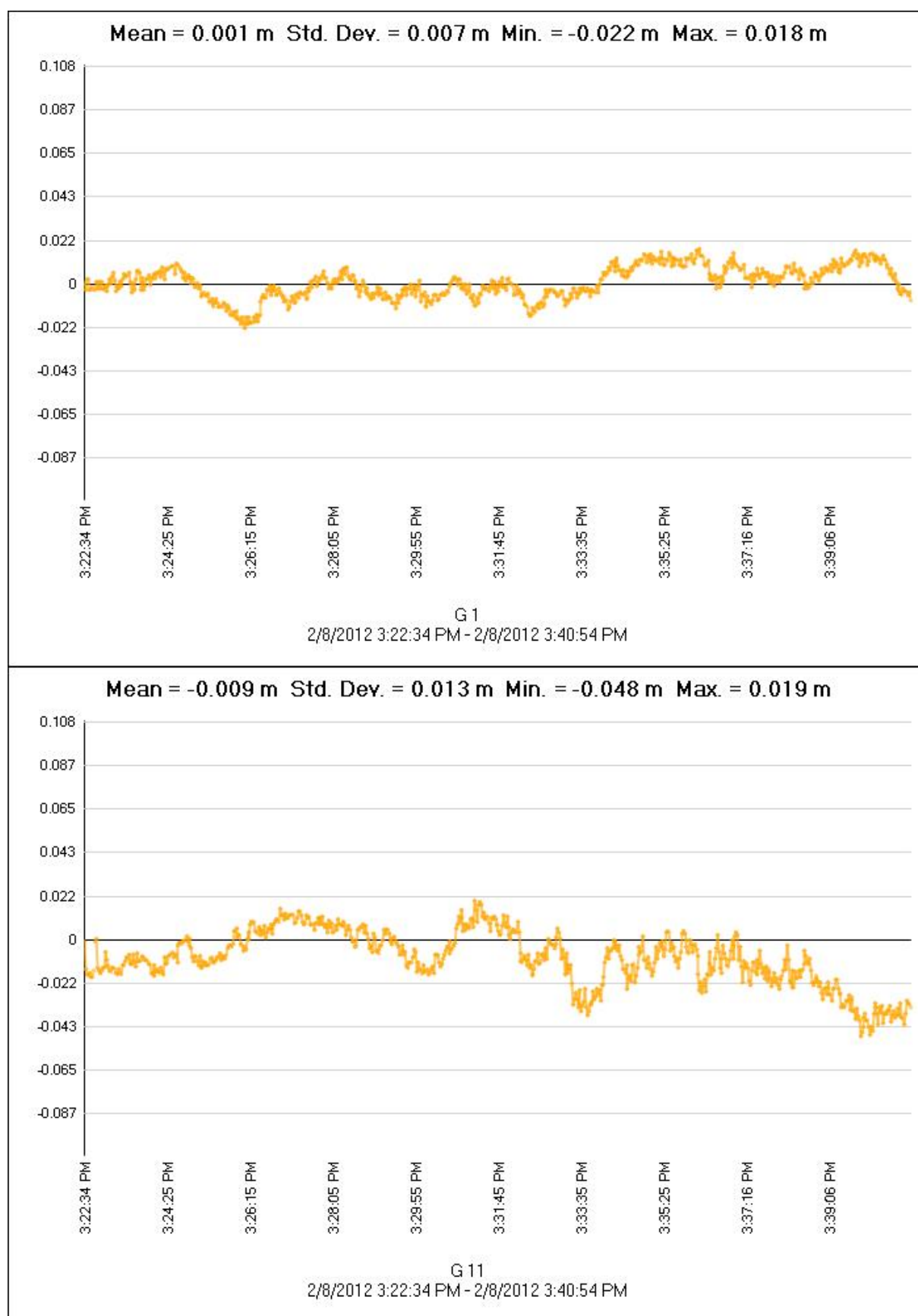
Occupations

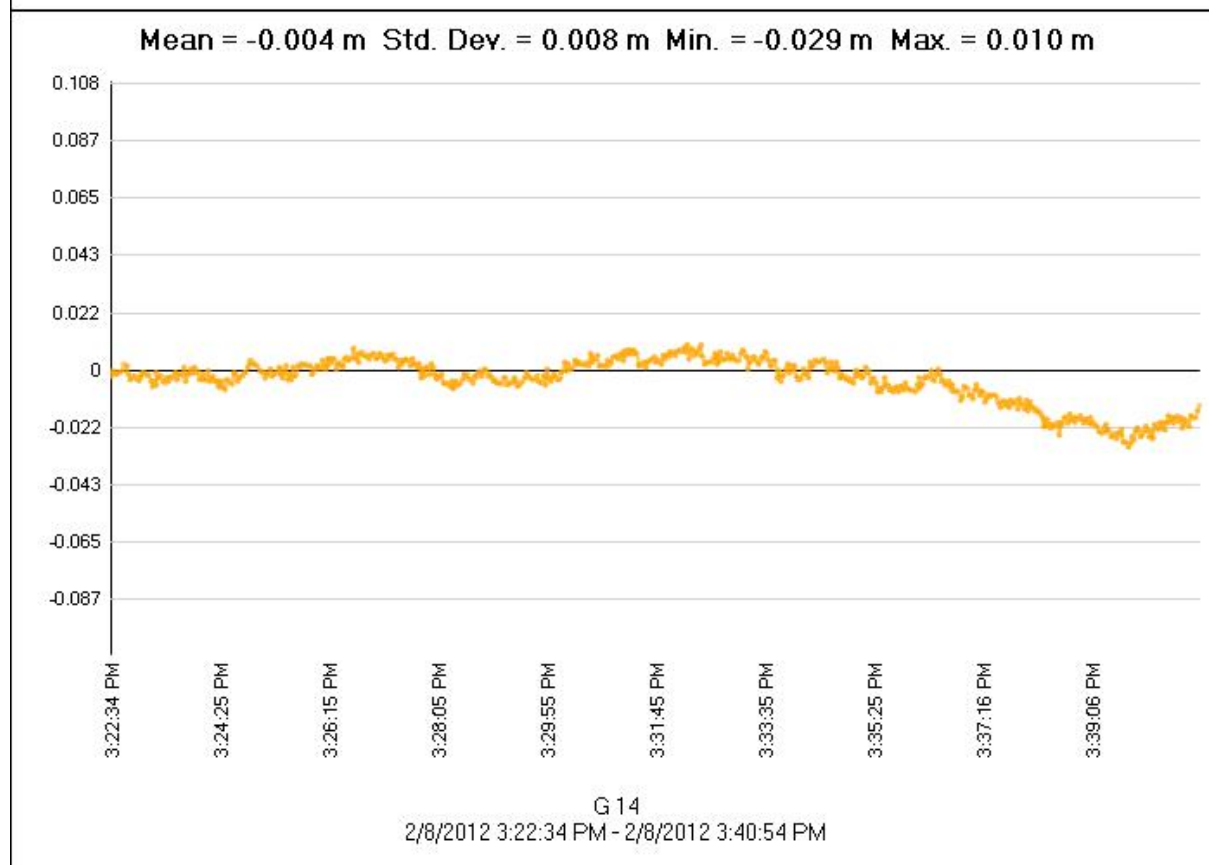
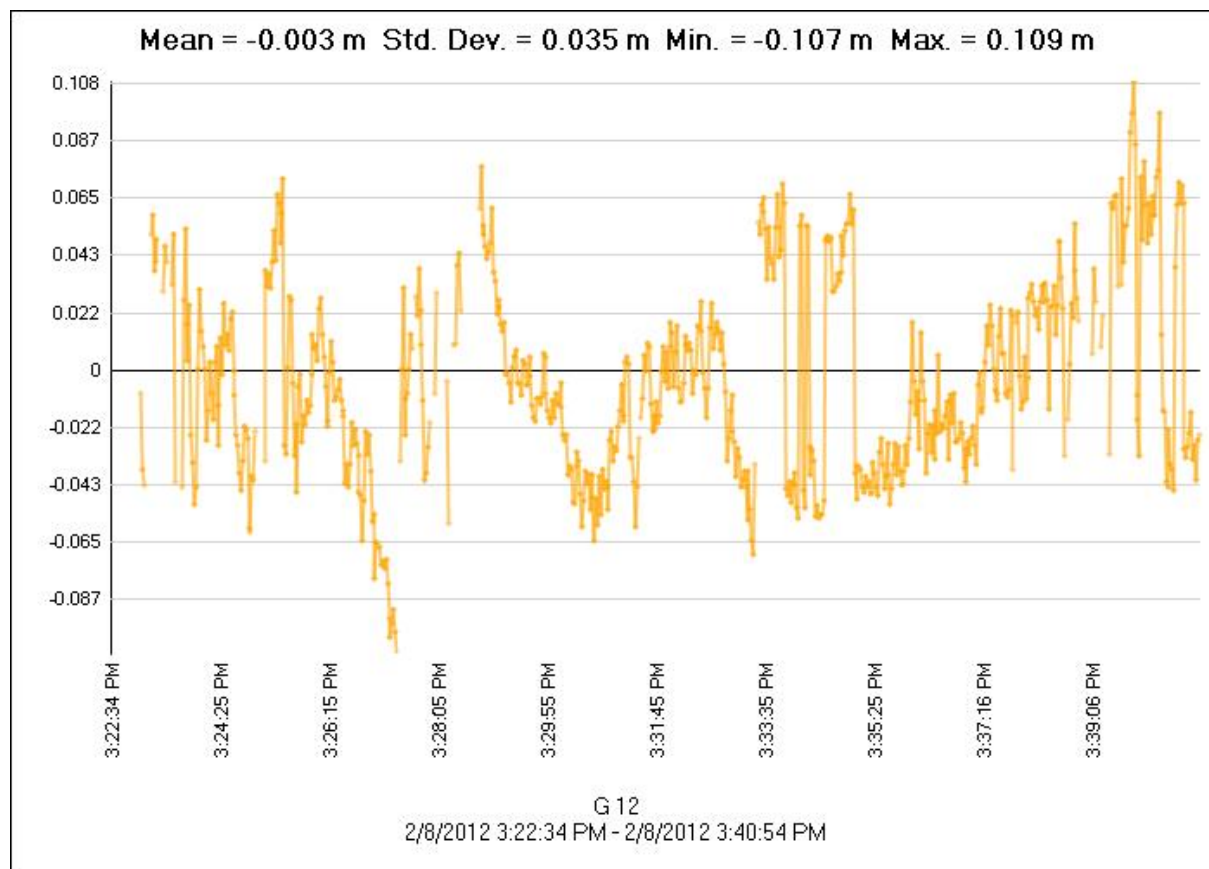
	From	To
Point ID:	HH0162	FVA24-B2-OLD
Data file:	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00010390.12o	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\0008039C.12o
Receiver type:	Unknown	Unknown
Receiver serial number:		
Antenna type:	Unknown External	Unknown External
Antenna serial number:	-----	-----
Antenna height (measured):	1.565 m	2.065 m
Antenna method:	Antenna Phase Center	Antenna Phase Center

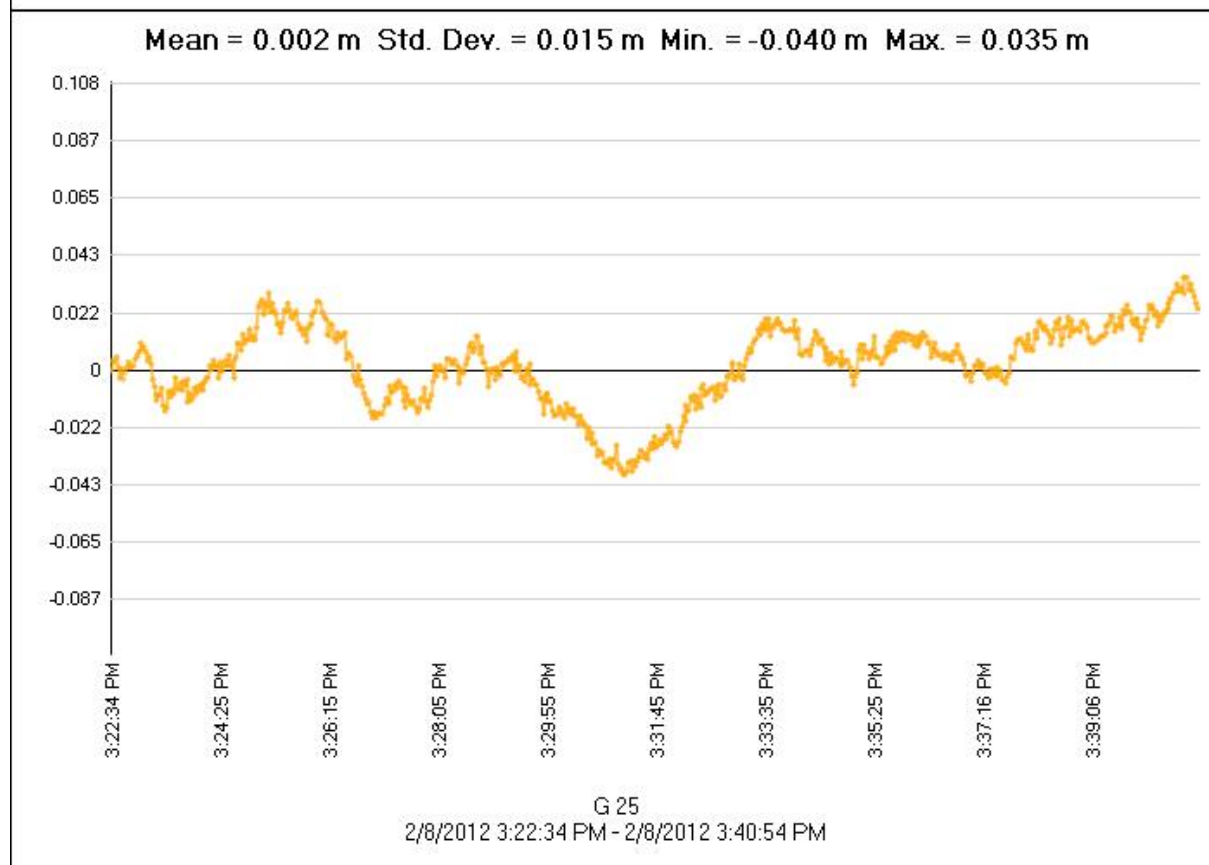
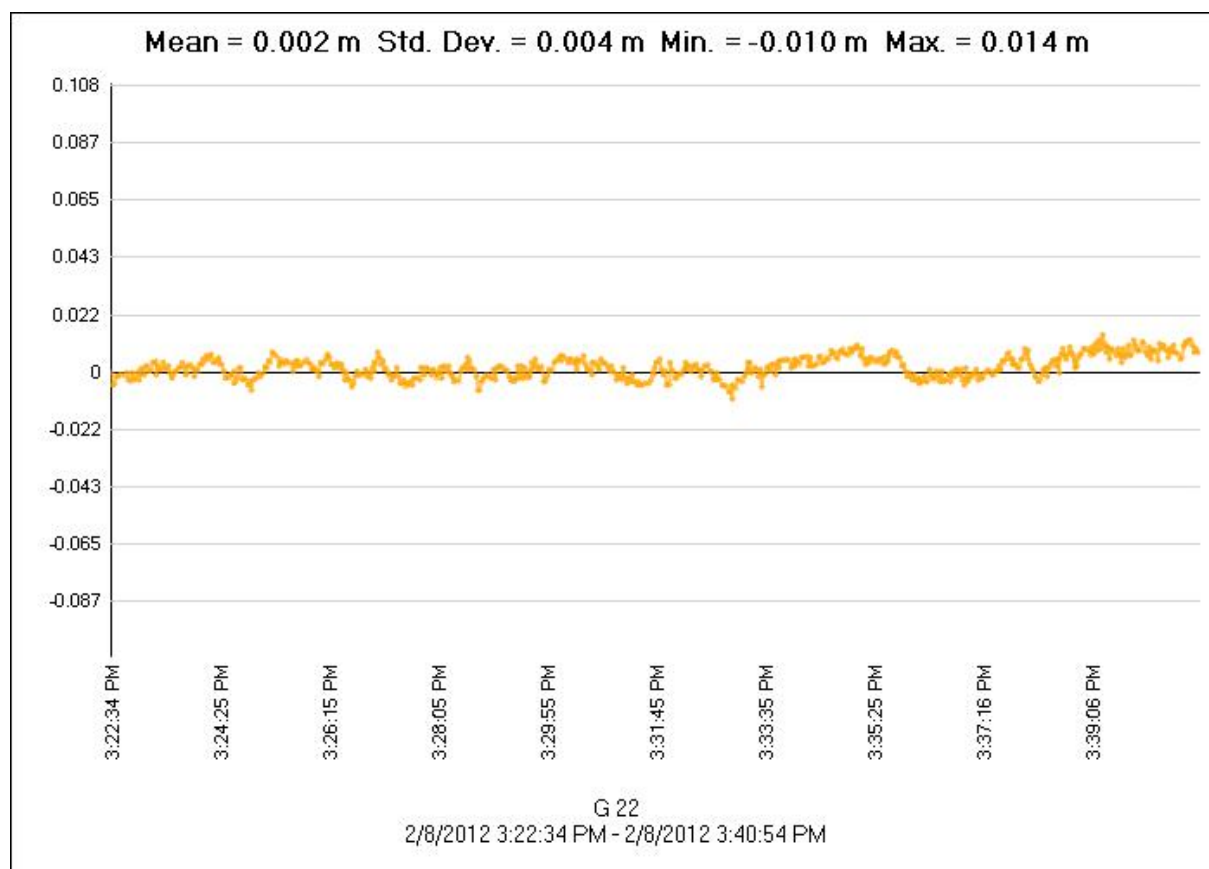
Tracking Summary

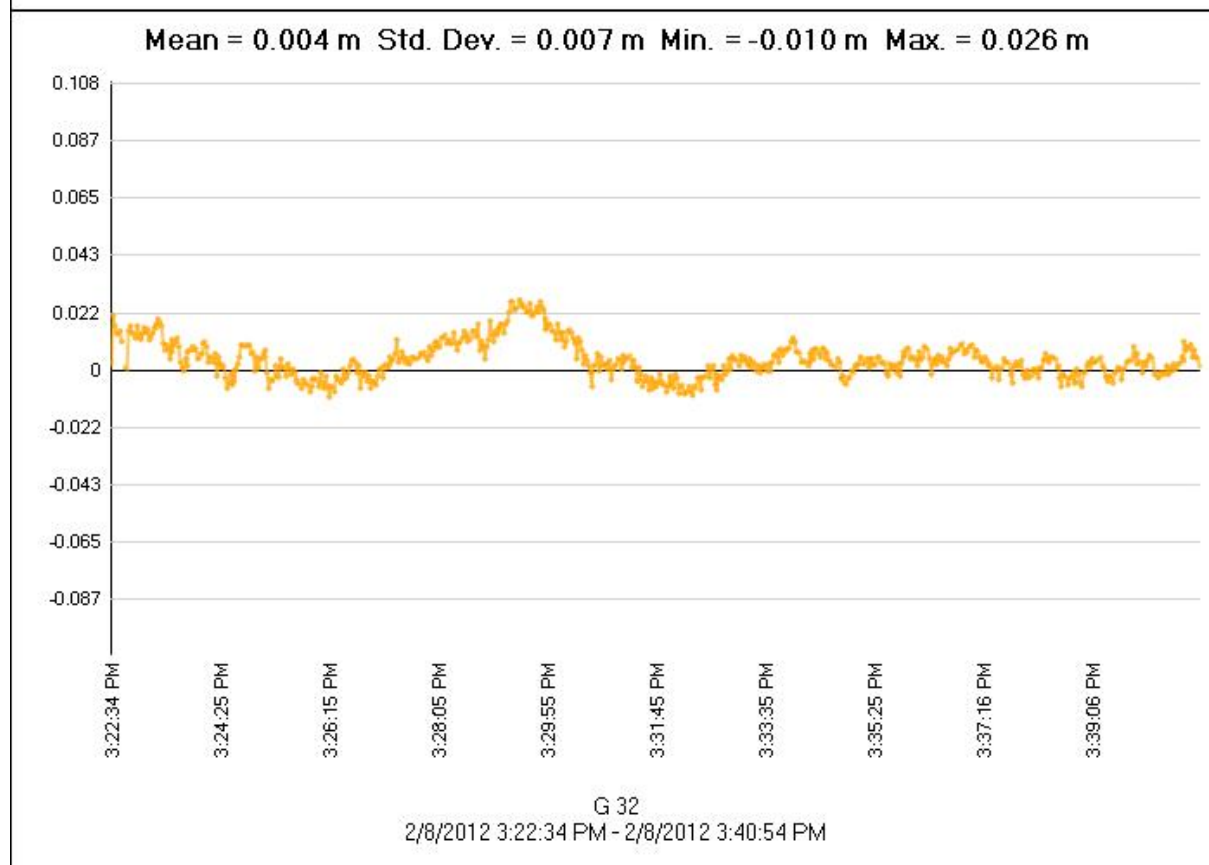
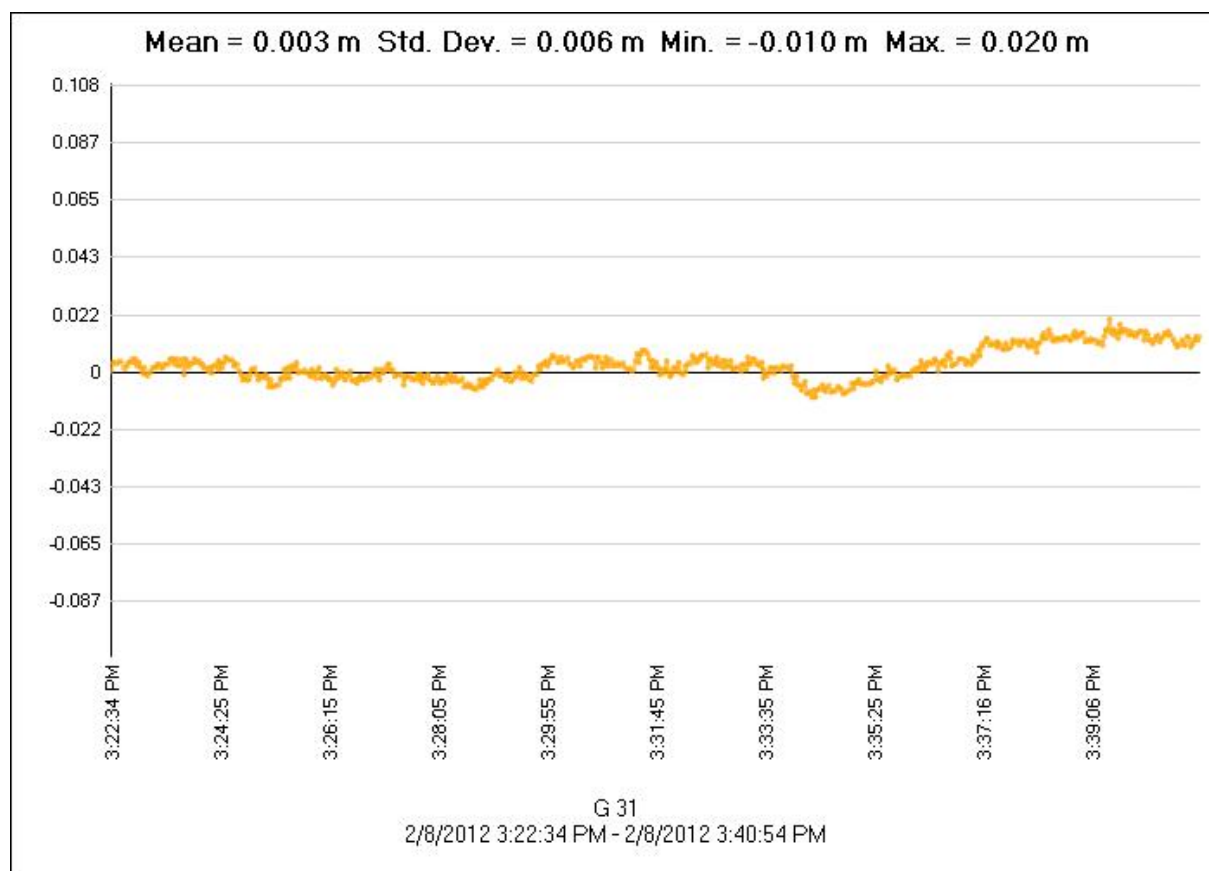
SV	2/8/2012 3:22:32 PM	Duration: 00:18:21.5000000	Major interval: 00:01:00	2/8/2012 3:40:54 PM
G 1	L1 L2			
G 11	L1 L2			
G 12	L1 L2			
G 14	L1 L2			
G 18	L1 L2			
G 19	L1 L2			
G 20	L1 L2			
G 22	L1 L2			
G 25	L1 L2			
G 30	L1 L2			
G 31	L1 L2			
G 32	L1 L2			

Residuals











Processing style

Elevation mask:	10.0 deg
Auto start processing:	Yes
Start automatic ID numbering:	AUTO0001
Continuous vectors:	No
Generate residuals:	Yes
Antenna model:	Automatic
Ephemeris type:	Automatic
Frequency:	Dual Frequency (L1, L2)
Processing Interval:	Use all data
Force float:	No

Acceptance Criteria

Vector Component	Flag 	Fail 
Horizontal Precision >	0.050 m + 1.000 ppm	0.100 m + 1.000 ppm
Vertical Precision >	0.100 m + 1.000 ppm	0.200 m + 1.000 ppm

HH0162 - SVA24-B2 (3:44:31 PM-4:03:24 PM) (S65)

Baseline observation: HH0162 --- SVA24-B2 (B65)
 Processed: 3/21/2012 10:59:09 AM
 Solution type: Fixed
 Frequency used: Dual Frequency (L1, L2)
 Horizontal precision: 0.011 m
 Vertical precision: 0.019 m
 RMS: 0.007 m
 Maximum PDOP: 2.678
 Ephemeris used: Broadcast
 Antenna model: US National Geodetic Survey Calibration
 Processing start time: 2/8/2012 3:44:31 PM (Local: UTC-7hr)
 Processing stop time: 2/8/2012 4:03:24 PM (Local: UTC-7hr)
 Processing duration: 00:18:52
 Processing interval: .5 second

Vector Components (Mark to Mark)

From:	HH0162				
Grid		Local		Global	
Easting	334883.094 m	Latitude	N37°57'51.89981"	Latitude	N37°57'51.89980"
Northing	4203533.480 m	Longitude	W100°52'46.80868"	Longitude	W100°52'46.80868"
Elevation	875.739 m	Height	850.245 m	Height	850.245 m

To:	SVA24-B2				
Grid		Local		Global	
Easting	395273.360 m	Latitude	N37°51'56.16288"	Latitude	N37°51'56.16288"
Northing	4191571.283 m	Longitude	W100°11'26.27378"	Longitude	W100°11'26.27378"
Elevation	818.889 m	Height	793.162 m	Height	793.161 m

Vector					
9Ughb[	60390.266 m	NS Fwd Azimuth	100°02'56"	L	58351.361 m
Bcfh\jb[	-11962.197 m	Ellipsoid Dist.	61574.207 m	M	-17662.110 m
9Yj Uhcb	-56.849 m	<Y][\h	-57.083 m	N	-8689.141 m

Standard Errors

Vector errors:					
Ughb[	0.003 m	BG`Zk X'5n]a i h	0°00'00"	L	0.003 m
Bcfh\]b[	0.005 m	'9~]dgc]X'8]gh	0.003 m	M	0.006 m
'9`Yj Uhcb	0.009 m	' <Y][\h	0.009 m	N	0.008 m

Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0000109017		
Y	0.0000084695	0.0000413361	
Z	-0.0000057376	-0.0000382858	0.0000665558

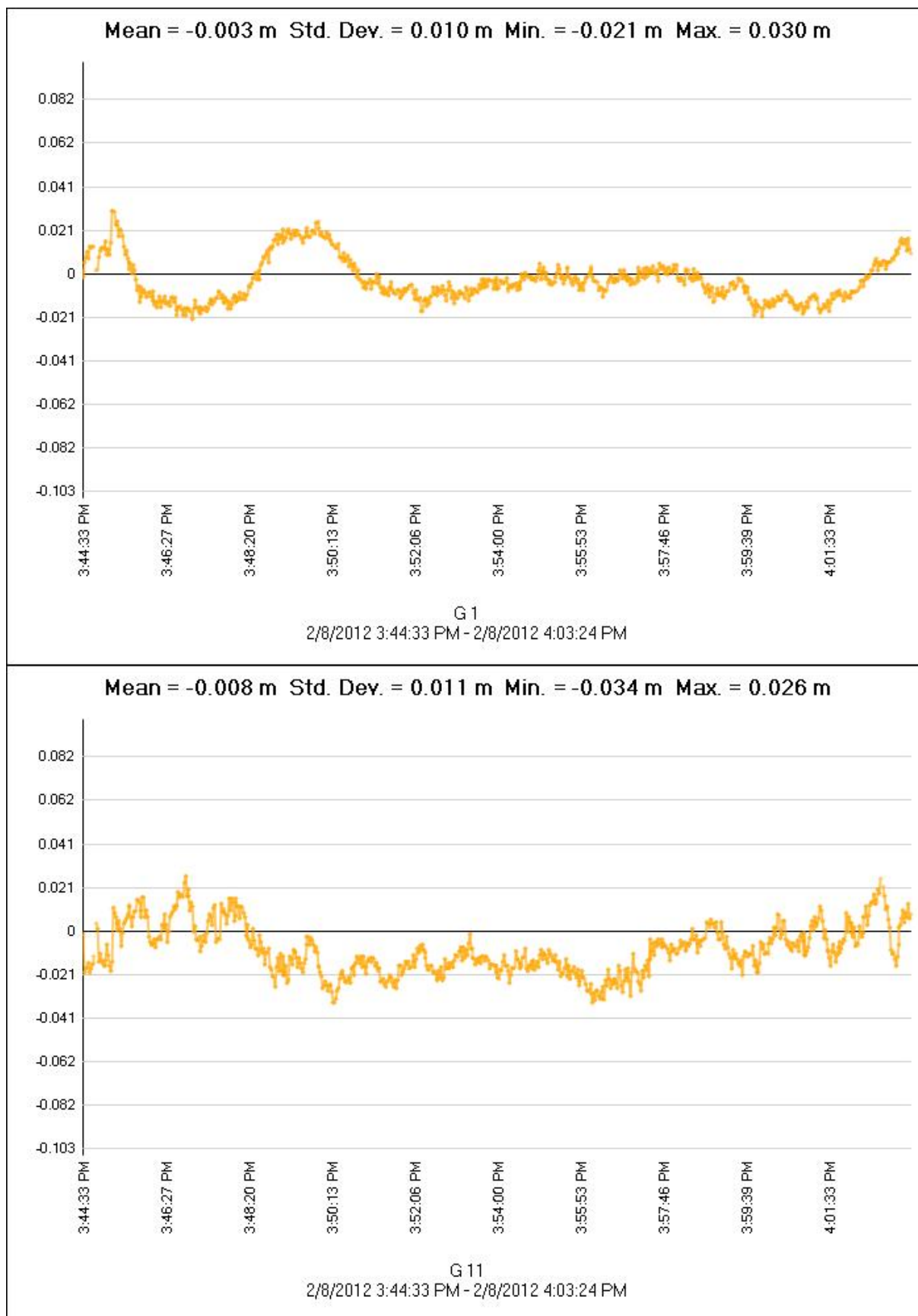
Occupations

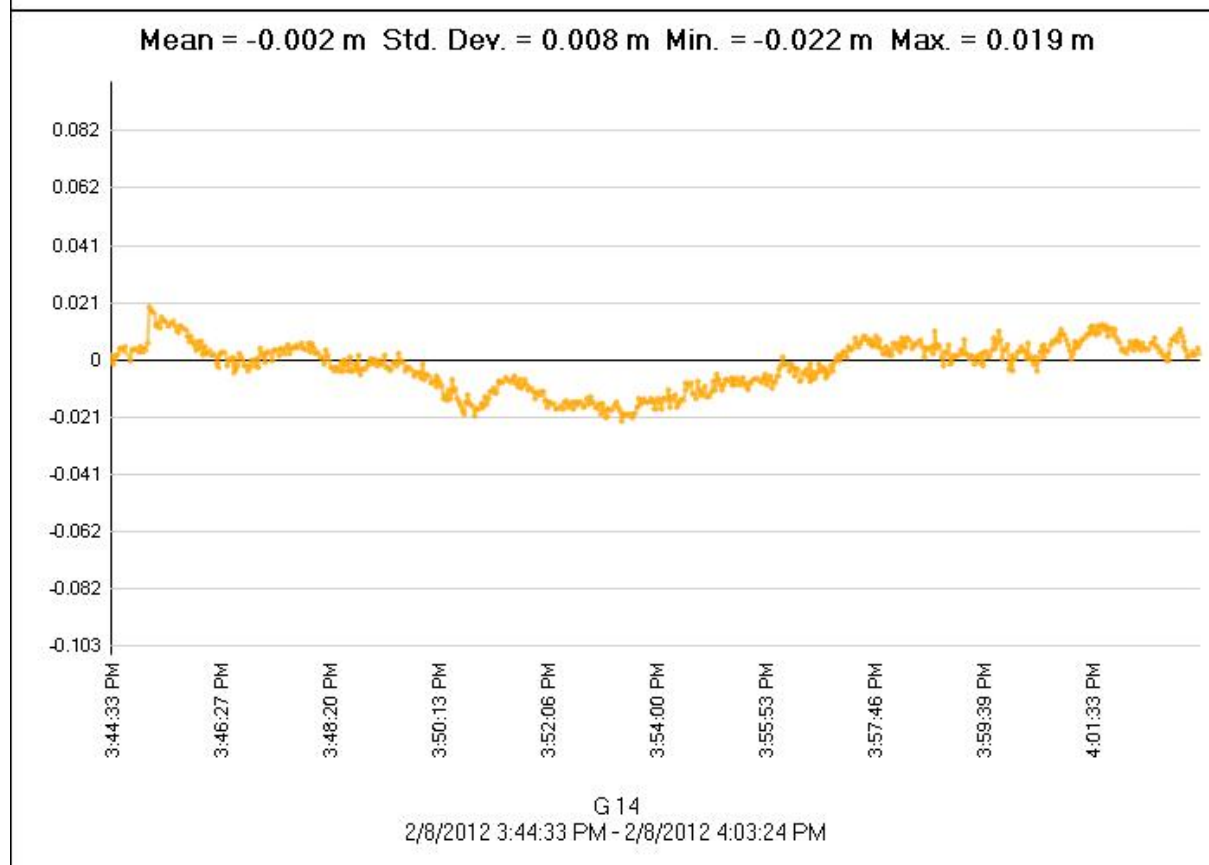
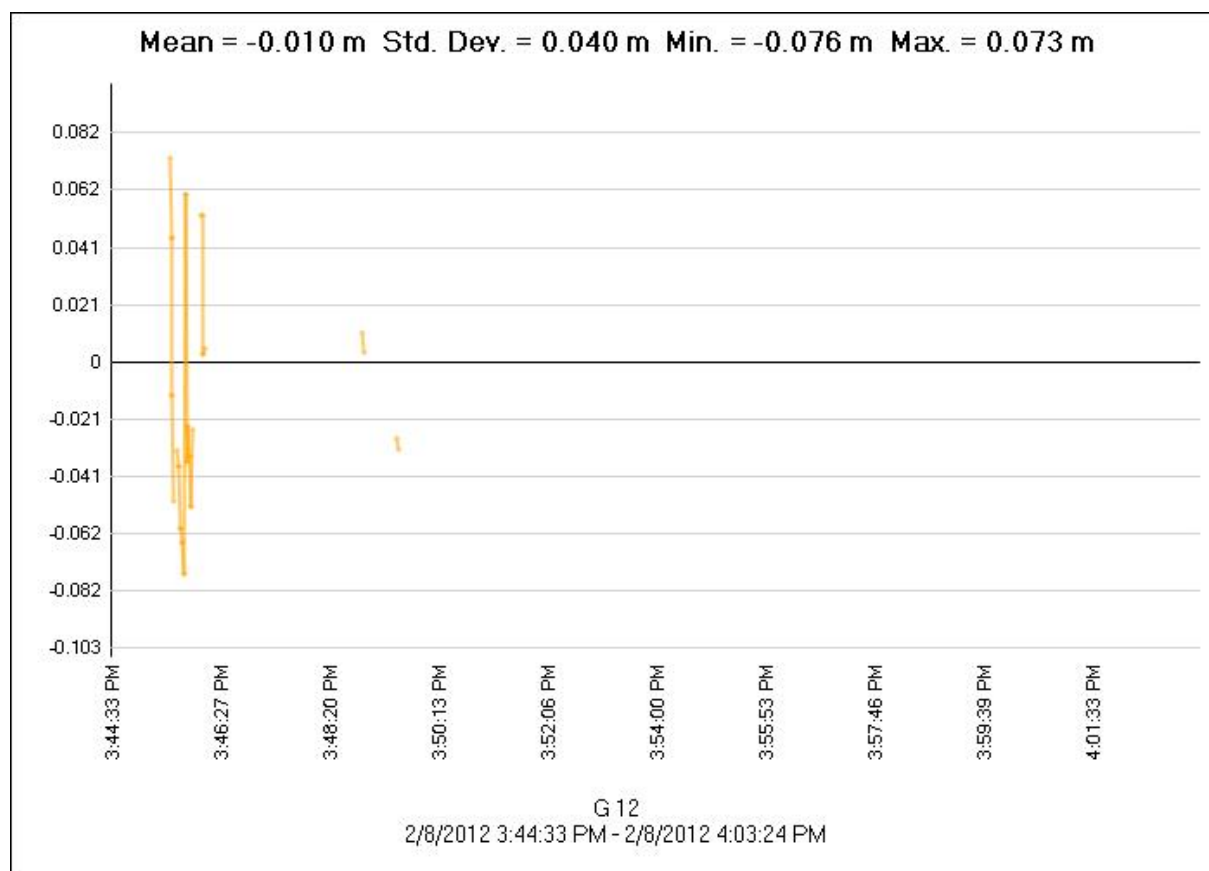
	From	To
Point ID:	HH0162	SVA24-B2
Data file:	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00010390.12o	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\0008039D.12o
Receiver type:	Unknown	Unknown
Receiver serial number:		
Antenna type:	Unknown External	Unknown External
Antenna serial number:	-----	-----
Antenna height (measured):	1.565 m	2.065 m
Antenna method:	Antenna Phase Center	Antenna Phase Center

Tracking Summary

SV	2/8/2012 3:44:31 PM	Duration: 00:18:52.5000000	Major interval: 00:01:00	2/8/2012 4:03:24 PM
G 1	L1 L2			
G 11	L1 L2			
G 12	L1 L2			
G 14	L1 L2			
G 18				
G 20	L1 L2			
G 22	L1 L2			
G 25	L1 L2			
G 30	L1 L2			
G 31	L1 L2			
G 32	L1 L2			

Residuals





Mean = 0.000 m Std. Dev. = 0.025 m Min. = -0.074 m Max. = 0.063 m



G 20
2/8/2012 3:44:33 PM - 2/8/2012 4:03:24 PM

Mean = -0.003 m Std. Dev. = 0.013 m Min. = -0.058 m Max. = 0.042 m



G 22
2/8/2012 3:44:33 PM - 2/8/2012 4:03:24 PM

Mean = 0.003 m Std. Dev. = 0.018 m Min. = -0.063 m Max. = 0.043 m



G 25

2/8/2012 3:44:33 PM - 2/8/2012 4:03:24 PM

Mean = -0.015 m Std. Dev. = 0.034 m Min. = -0.105 m Max. = 0.094 m



G 30

2/8/2012 3:44:33 PM - 2/8/2012 4:03:24 PM

Mean = 0.003 m Std. Dev. = 0.005 m Min. = -0.017 m Max. = 0.015 m



G 31

2/8/2012 3:44:33 PM - 2/8/2012 4:03:24 PM

Mean = 0.007 m Std. Dev. = 0.009 m Min. = -0.011 m Max. = 0.029 m





G 32

2/8/2012 3:44:33 PM - 2/8/2012 4:03:24 PM

Processing style

Elevation mask:	10.0 deg
Auto start processing:	Yes
Start automatic ID numbering:	AUTO0001
Continuous vectors:	No
Generate residuals:	Yes
Antenna model:	Automatic
Ephemeris type:	Automatic
Frequency:	Dual Frequency (L1, L2)
Processing Interval:	Use all data
Force float:	No

Acceptance Criteria

Vector Component	Flag 	Fail 
Horizontal Precision >	0.050 m + 1.000 ppm	0.100 m + 1.000 ppm
Vertical Precision >	0.100 m + 1.000 ppm	0.200 m + 1.000 ppm

HH0162 - FVA36-B2 (7:38:36 AM-7:57:07 AM) (S66)

Baseline observation: HH0162 --- FVA36-B2 (B66)

Processed: 3/21/2012 10:58:59 AM

Solution type: Fixed

Frequency used: Dual Frequency (L1, L2)

Horizontal precision: 0.013 m

Vertical precision: 0.024 m

RMS: 0.008 m

Maximum PDOP: 3.995

Ephemeris used: Broadcast

Antenna model: US National Geodetic Survey Calibration

Processing start time: 2/9/2012 7:38:36 AM (Local: UTC-7hr)

Processing stop time: 2/9/2012 7:57:07 AM (Local: UTC-7hr)

Processing duration: 00:18:31

Processing interval: .5 second

Vector Components (Mark to Mark)

From:	HH0162				
Grid		Local		Global	
Easting	334883.094 m	Latitude	N37°57'51.89981"	Latitude	N37°57'51.89980"
Northing	4203533.480 m	Longitude	W100°52'46.80868"	Longitude	W100°52'46.80868"
Elevation	875.739 m	Height	850.245 m	Height	850.245 m

To:	FVA36-B2				
Grid		Local		Global	
Easting	321764.248 m	Latitude	N38°00'13.26316"	Latitude	N38°00'13.26316"
Northing	4208168.415 m	Longitude	W101°01'48.28640"	Longitude	W101°01'48.28640"
Elevation	908.493 m	Height	883.178 m	Height	883.178 m

Vector					
9Ughb[	-13118.846 m	NS Fwd Azimuth	288°18'05"	L	-12469.851 m
Bcfh\jb[	4634.935 m	Ellipsoid Dist.	13914.057 m	M	5119.860 m
9Yj Uhcb	32.754 m	<Y][\h	32.933 m	N	3456.070 m

Standard Errors

Vector errors:

Point ID	0.004 m	Point Description	0°00'00"	Point Type	0.004 m
Point ID	0.005 m	Point Description	0.004 m	Point Type	0.011 m
Point ID	0.012 m	Point Description	0.012 m	Point Type	0.006 m

Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0000165360		
Y	0.0000196889	0.0001317413	
Z	-0.0000111021	-0.0000472356	0.0000391185

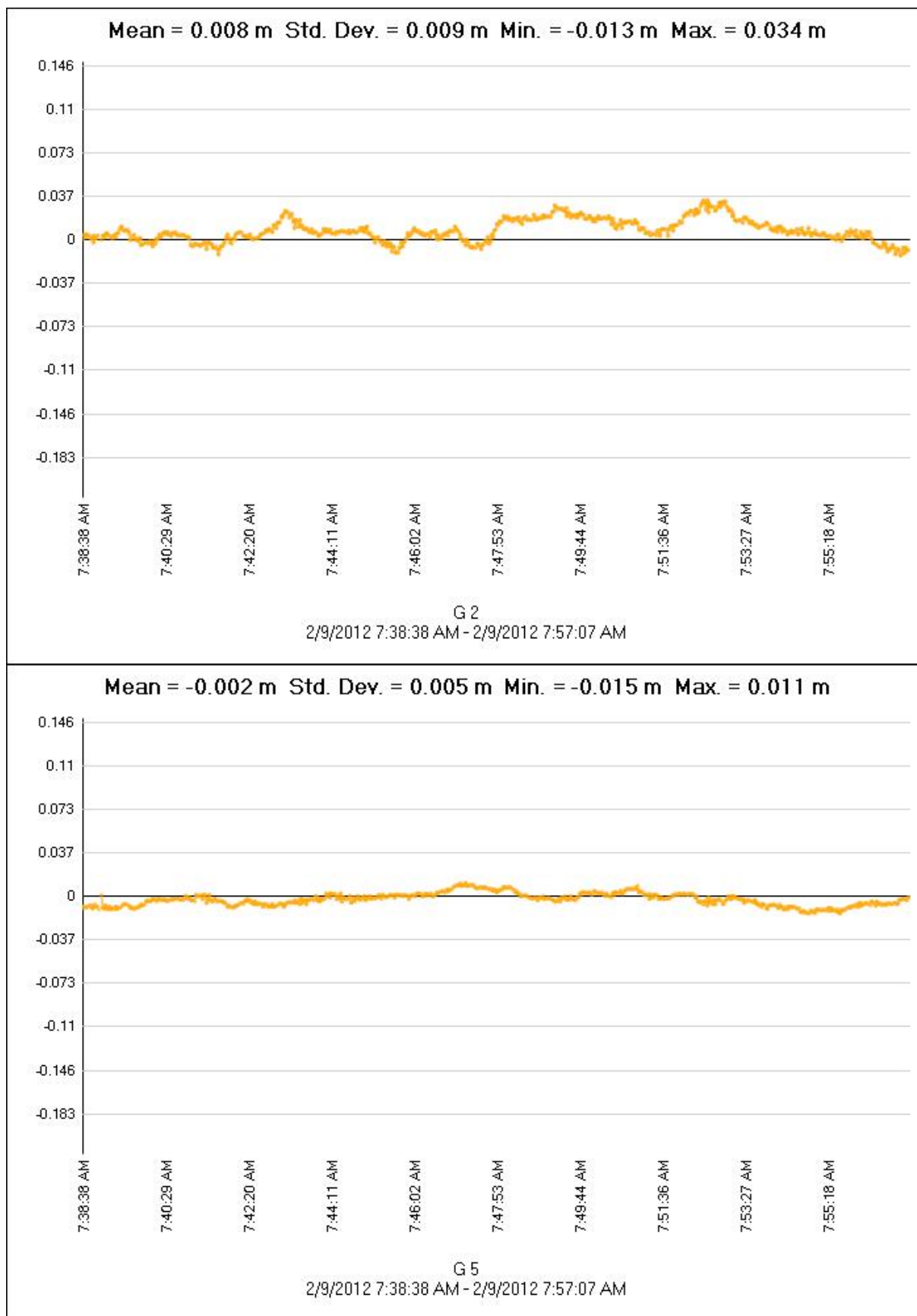
Occupations

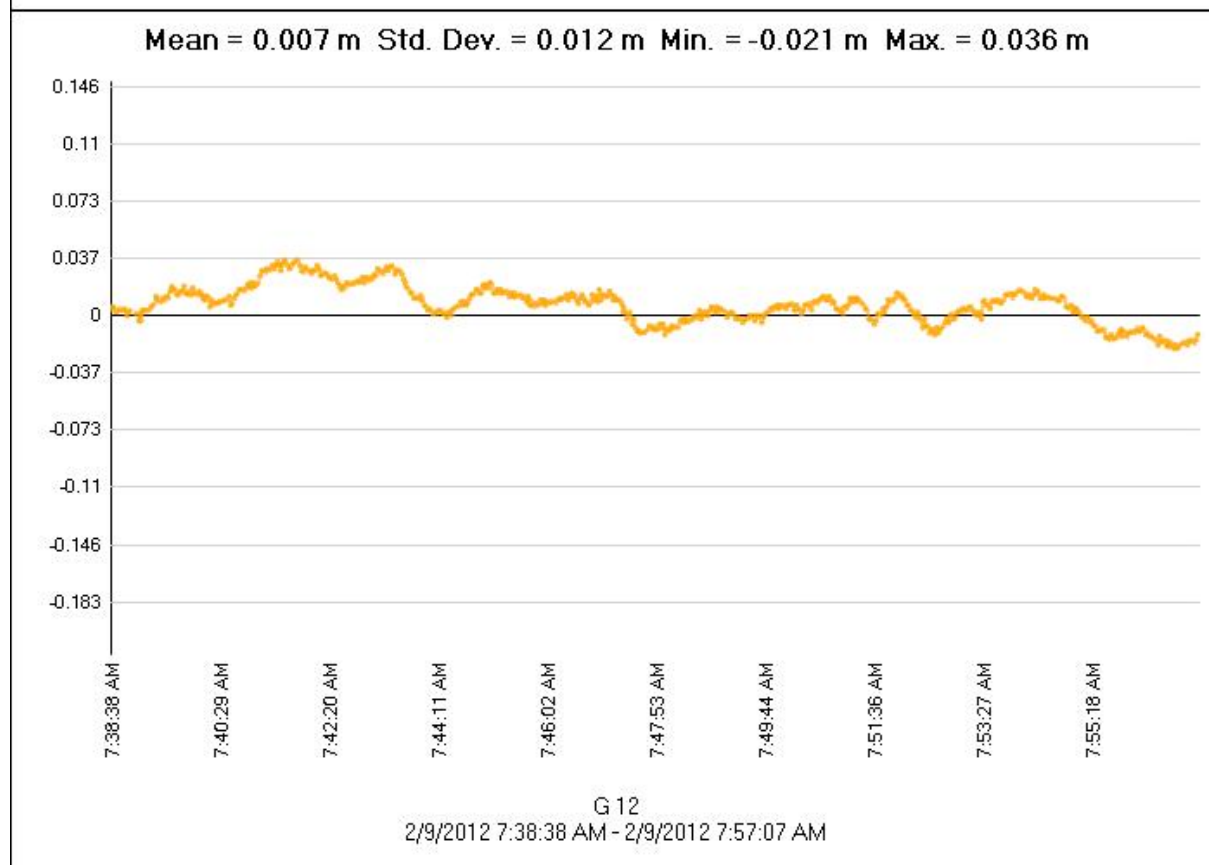
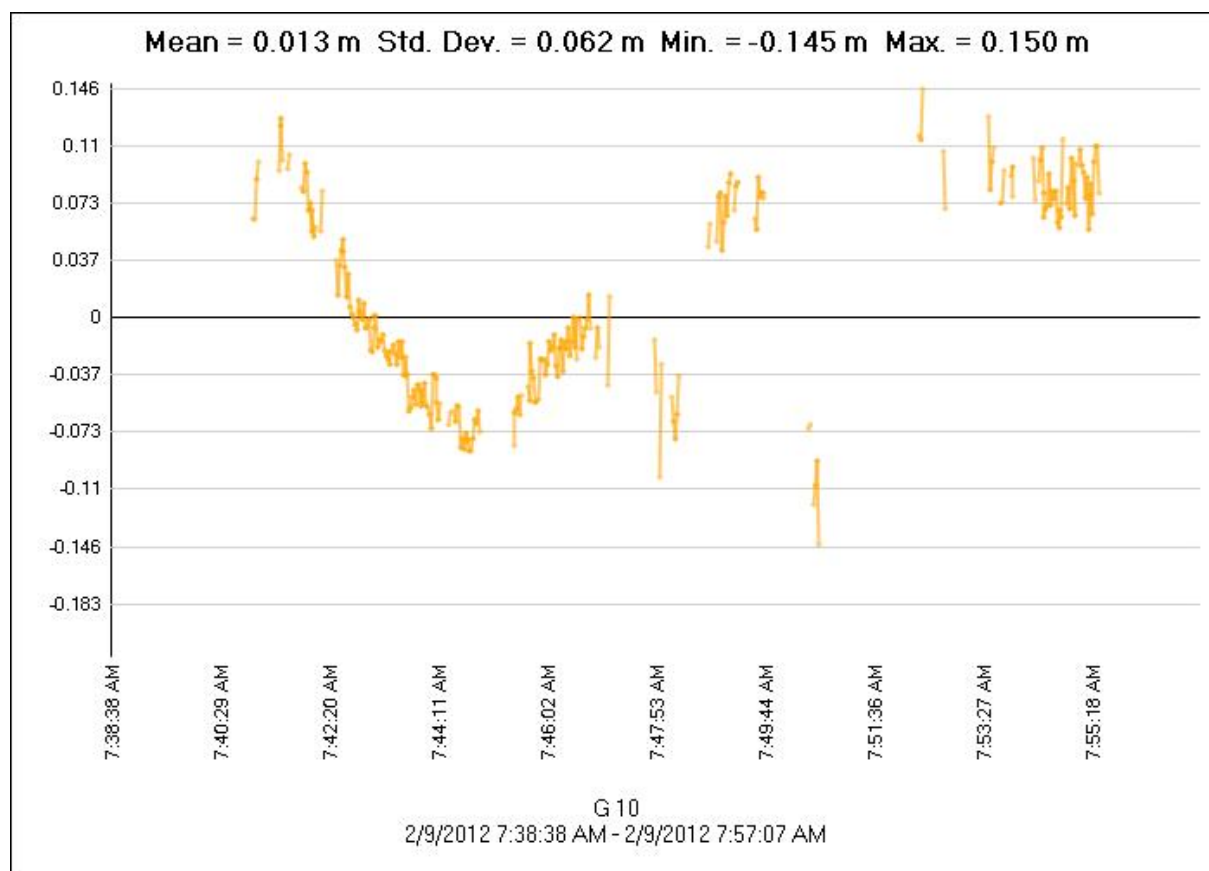
	From	To
Point ID:	HH0162	FVA36-B2
Data file:	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00010400.12o	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00080400.12o
Receiver type:	Unknown	Unknown
Receiver serial number:		
Antenna type:	Unknown External	Unknown External
Antenna serial number:	-----	-----
Antenna height (measured):	1.565 m	2.065 m
Antenna method:	Antenna Phase Center	Antenna Phase Center

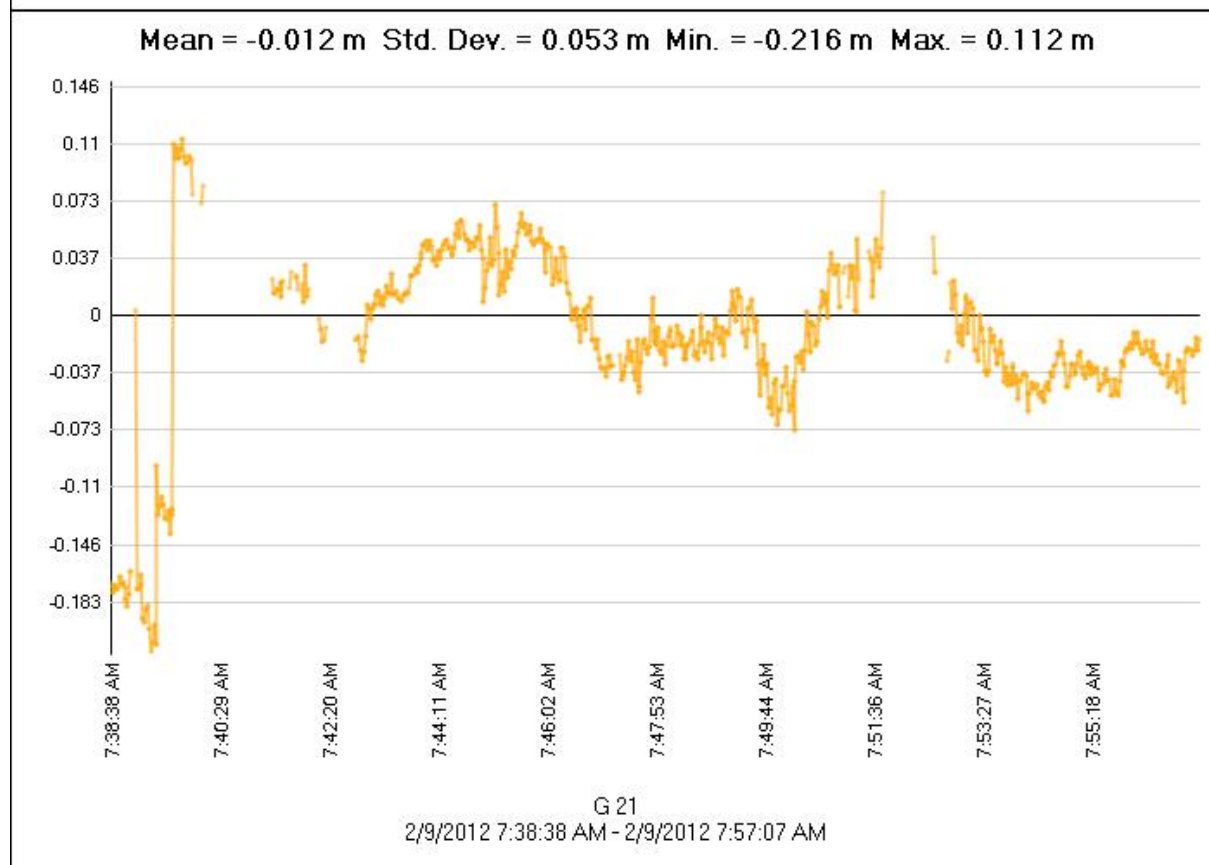
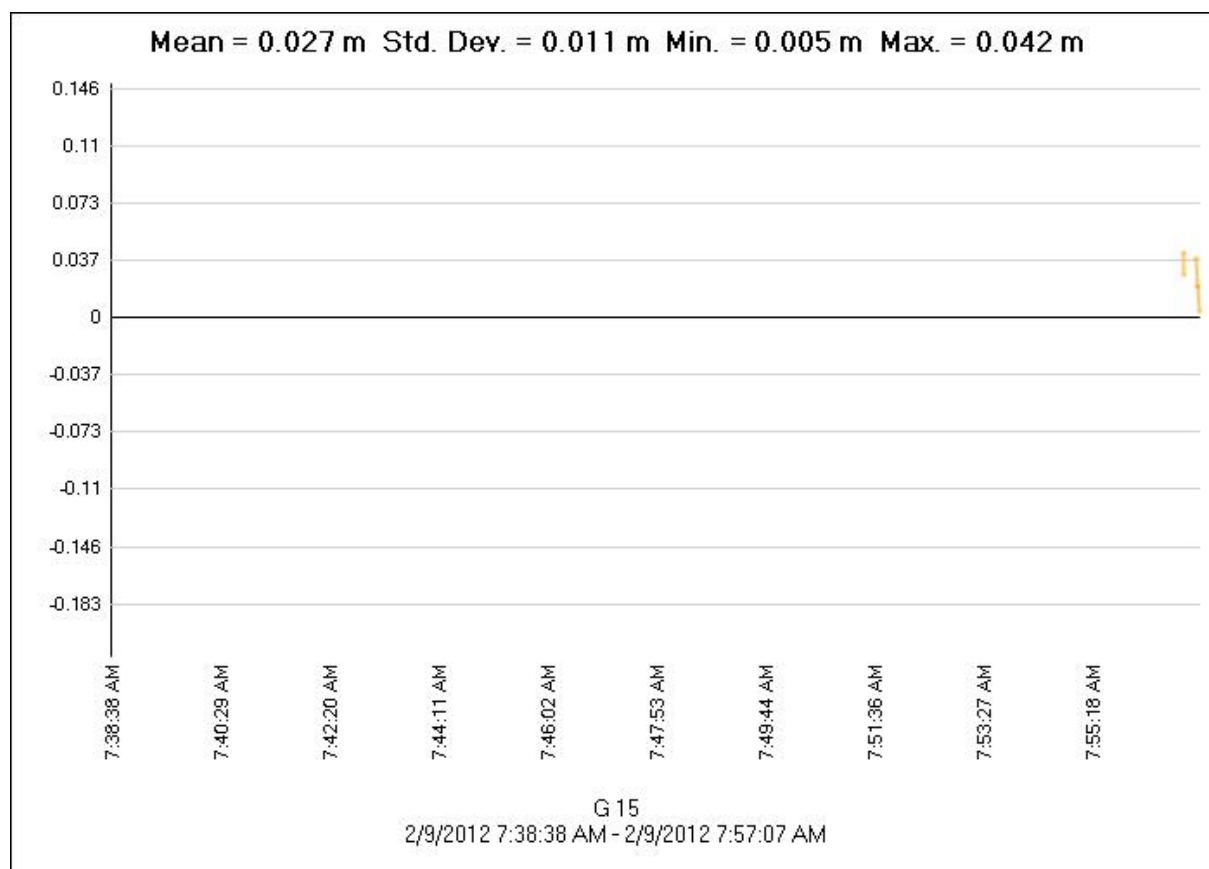
Tracking Summary

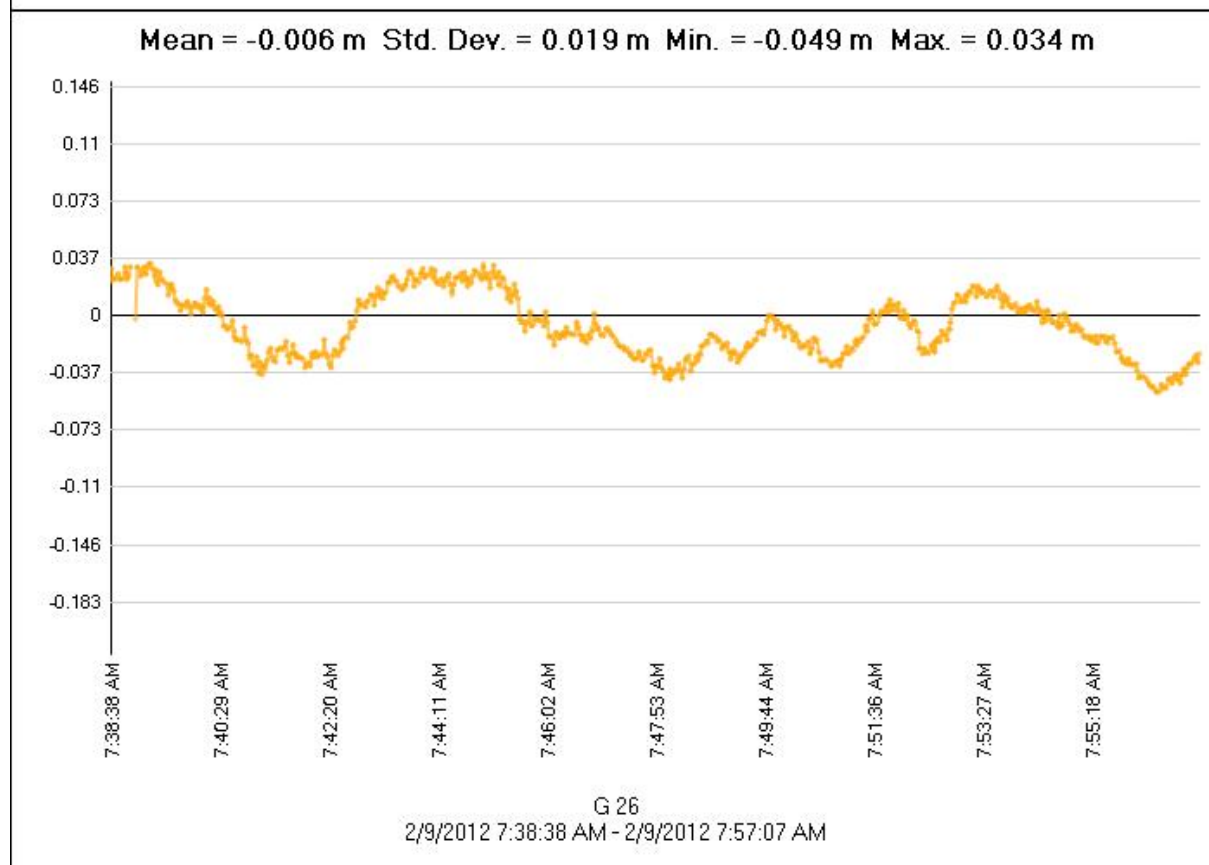
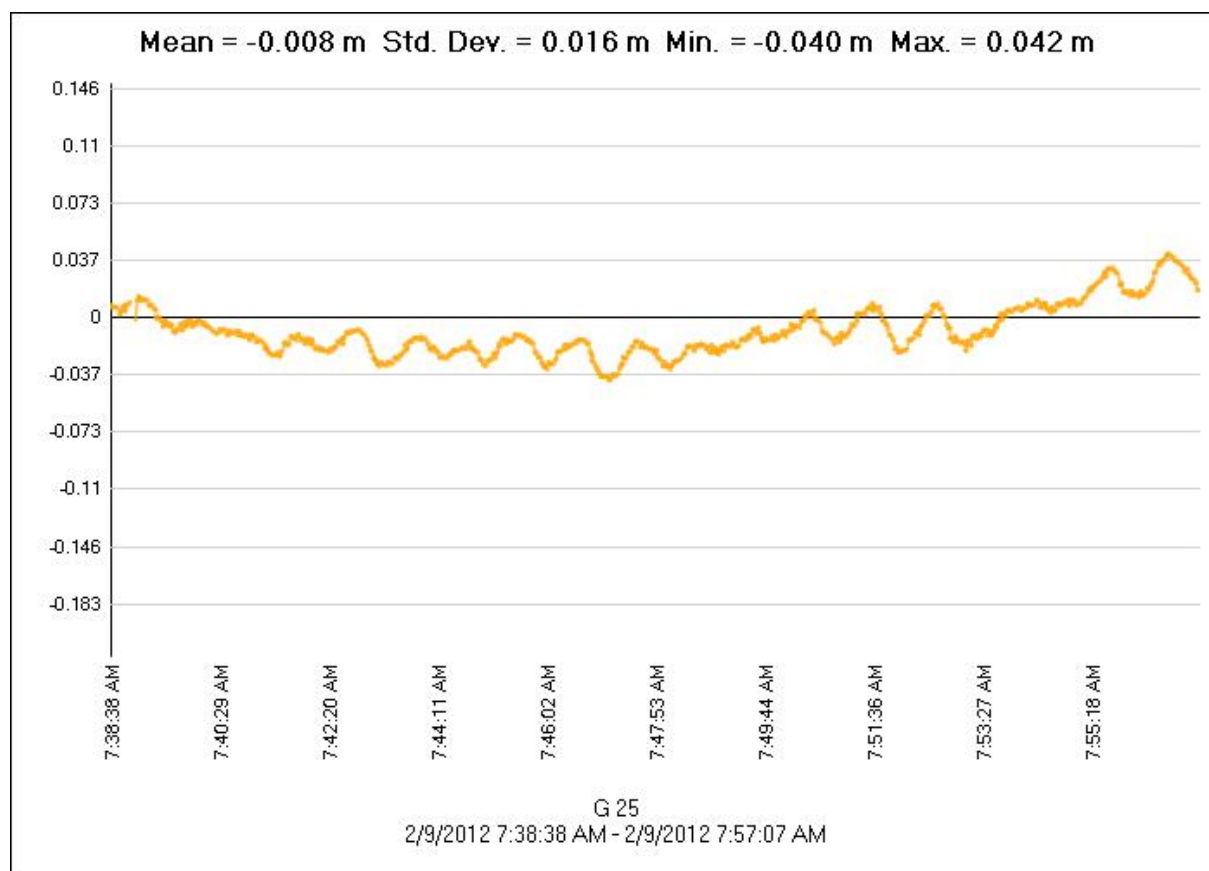
SV	2/9/2012 7:38:36 AM	Duration: 00:18:31	Major interval: 00:01:00	2/9/2012 7:57:07 AM
G 2	L1 L2			
G 4	L1 L2			
G 5	L1 L2			
G 10	L1 L2			
G 12	L1 L2			
G 15	L1 L2			
G 18	L1 L2			
G 21	L1 L2			
G 25	L1 L2			
G 26	L1 L2			
G 29	L1 L2			
G 30	L1 L2			

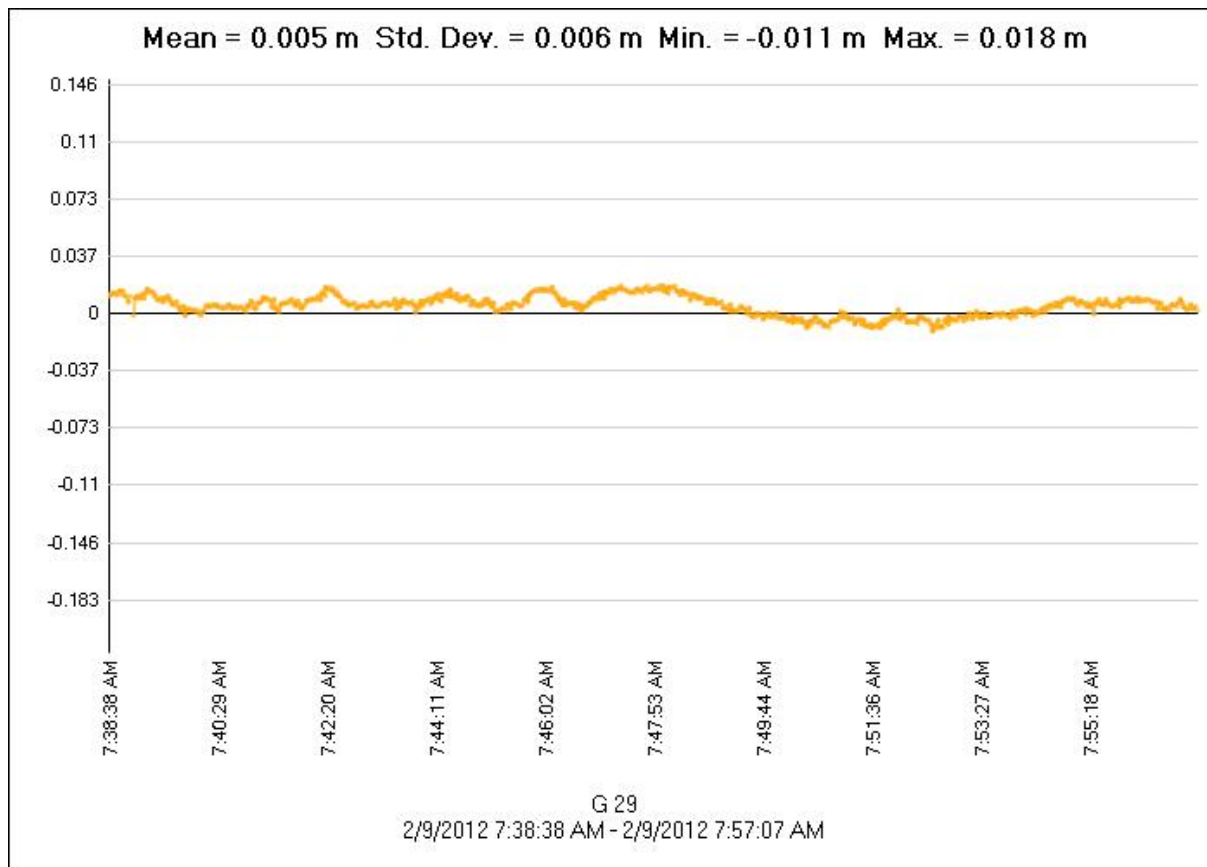
Residuals











Processing style

Elevation mask:	10.0 deg
Auto start processing:	Yes
Start automatic ID numbering:	AUTO0001
Continuous vectors:	No
Generate residuals:	Yes
Antenna model:	Automatic
Ephemeris type:	Automatic
Frequency:	Dual Frequency (L1, L2)
Processing Interval:	Use all data
Force float:	No

Acceptance Criteria

Vector Component	Flag 	Fail 
Horizontal Precision >	0.050 m + 1.000 ppm	0.100 m + 1.000 ppm
Vertical Precision >	0.100 m + 1.000 ppm	0.200 m + 1.000 ppm

HH0162 - SVA36-B2-OLD (8:01:28 AM-8:20:42 AM) (S67)

Baseline observation: HH0162 --- SVA36-B2-OLD (B67)

Processed: 3/21/2012 10:59:03 AM

Solution type: Fixed

Frequency used: Dual Frequency (L1, L2)

Horizontal precision: 0.017 m

Vertical precision: 0.025 m

RMS: 0.008 m

Maximum PDOP: 4.385

Ephemeris used: Broadcast

Antenna model: US National Geodetic Survey Calibration

Processing start time: 2/9/2012 8:01:28 AM (Local: UTC-7hr)

Processing stop time: 2/9/2012 8:20:42 AM (Local: UTC-7hr)

Processing duration: 00:19:13

Processing interval: .5 second

Vector Components (Mark to Mark)

From:	HH0162				
Grid		Local		Global	
Easting	334883.094 m	Latitude	N37°57'51.89981"	Latitude	N37°57'51.89980"
Northing	4203533.480 m	Longitude	W100°52'46.80868"	Longitude	W100°52'46.80868"
Elevation	875.739 m	Height	850.245 m	Height	850.245 m

To:	SVA36-B2-OLD				
Grid		Local		Global	
Easting	321776.176 m	Latitude	N38°00'12.21956"	Latitude	N38°00'12.21955"
Northing	4208135.970 m	Longitude	W101°01'47.76859"	Longitude	W101°01'47.76859"
Elevation	908.205 m	Height	882.889 m	Height	882.889 m

Vector					
9Ughb[	-13106.918 m	NS Fwd Azimuth	288°11'30"	L	-12461.197 m
BcfA\jb[	4602.491 m	Ellipsoid Dist.	13892.028 m	M	5098.217 m
9Yj Uhcb	32.466 m	<Y][\h	32.644 m	N	3430.534 m

Standard Errors

Vector errors:					
Point ID	0.003 m	Point ID	0°00'00"	Point ID	0.004 m
Point ID	0.007 m	Point ID	0.004 m	Point ID	0.013 m
Point ID	0.013 m	Point ID	0.013 m	Point ID	0.005 m

Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0000138789		
Y	0.0000201268	0.0001747918	
Z	-0.0000062029	-0.0000396621	0.0000302109

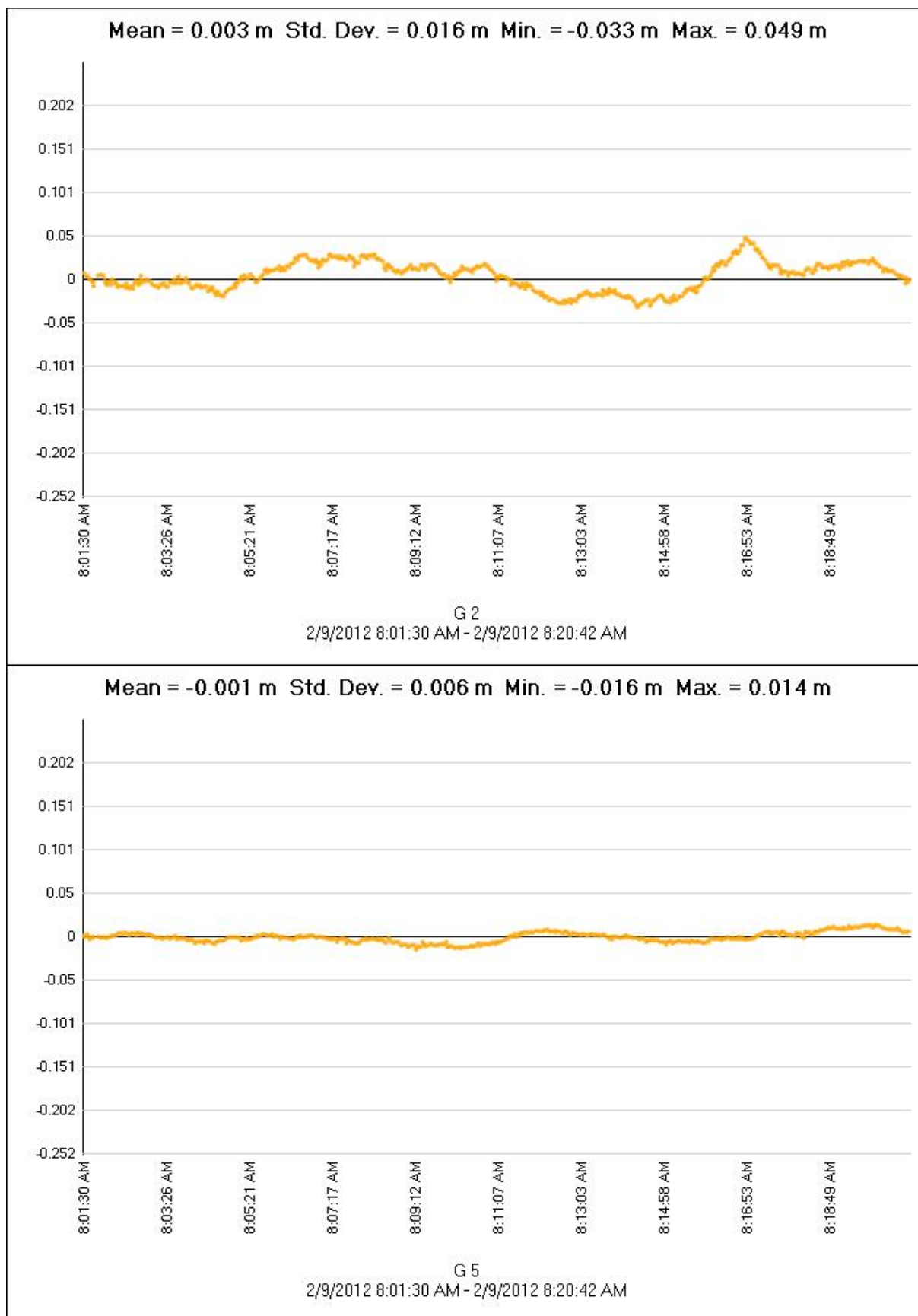
Occupations

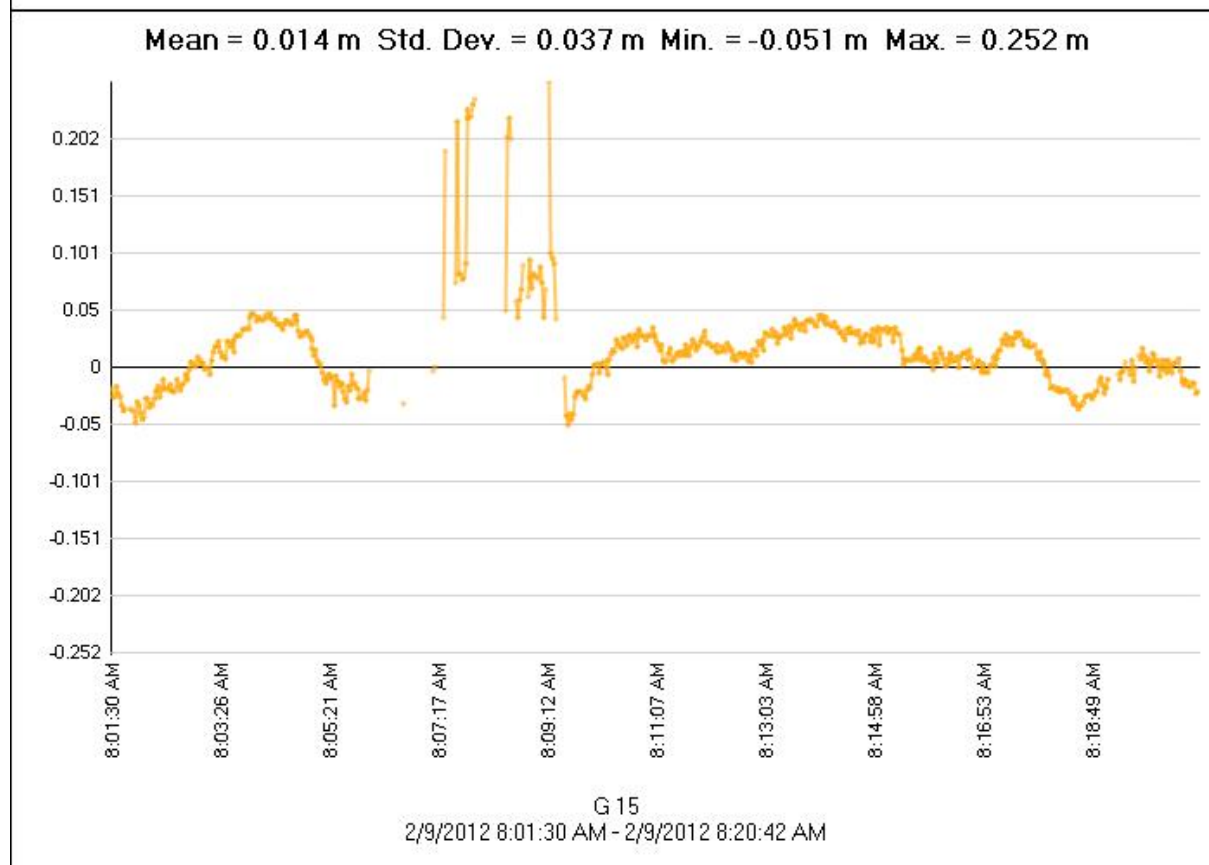
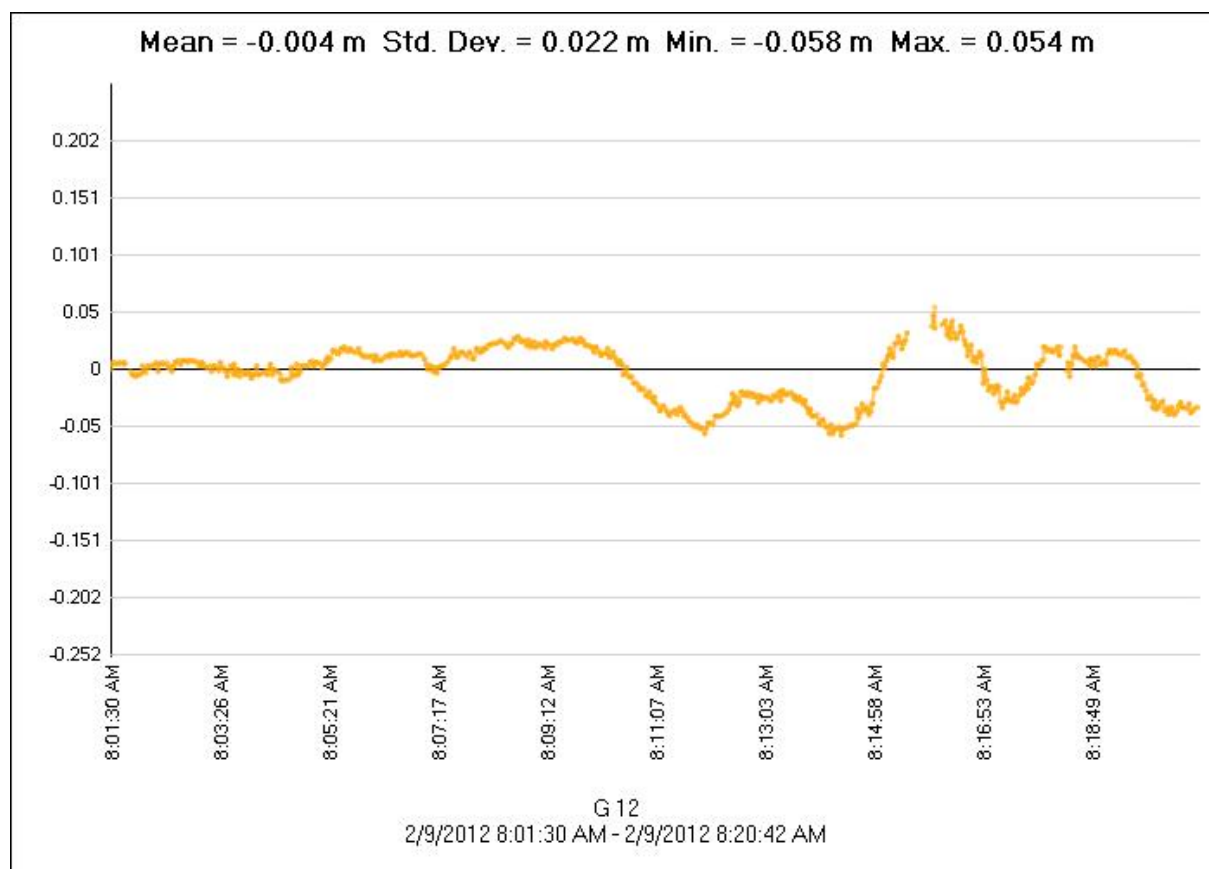
	From	To
Point ID:	HH0162	SVA36-B2-OLD
Data file:	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00010400.12o	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00080401.12o
Receiver type:	Unknown	Unknown
Receiver serial number:		
Antenna type:	Unknown External	Unknown External
Antenna serial number:	-----	-----
Antenna height (measured):	1.565 m	2.065 m
Antenna method:	Antenna Phase Center	Antenna Phase Center

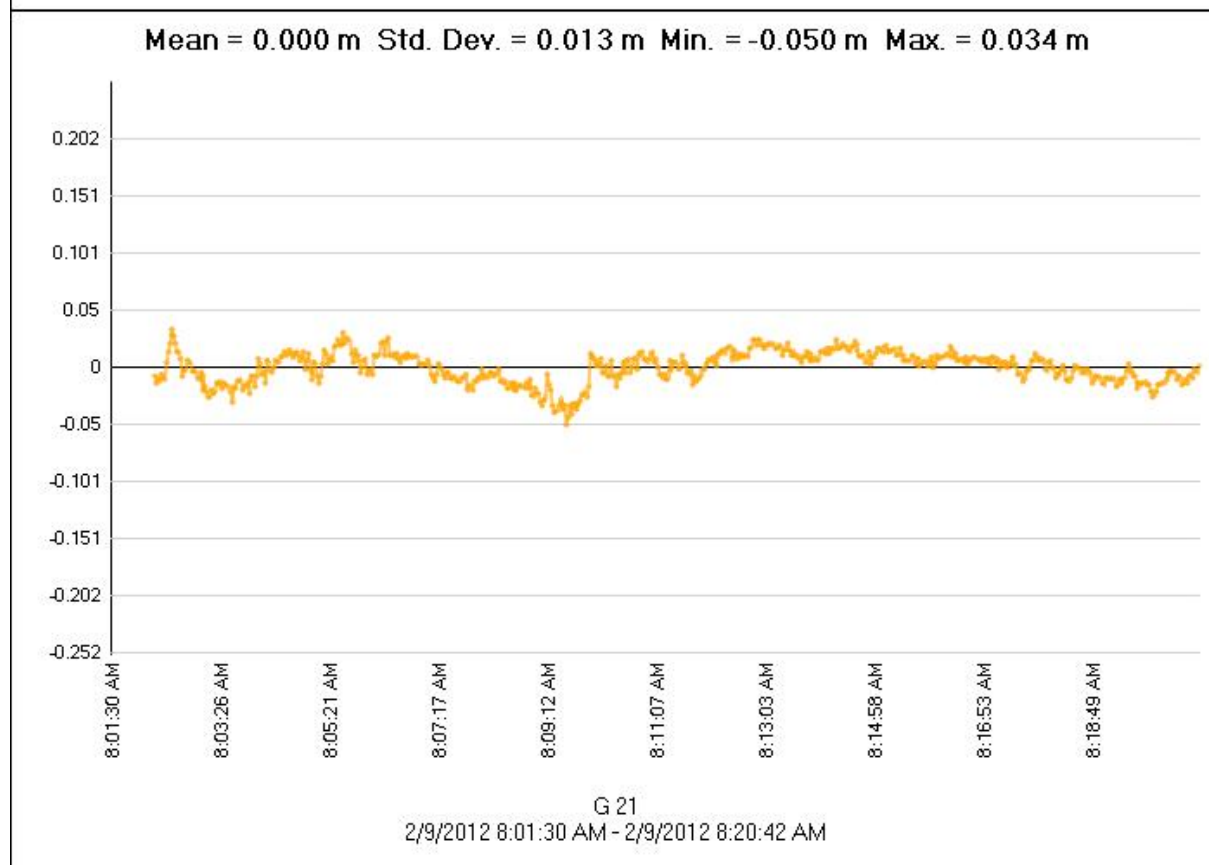
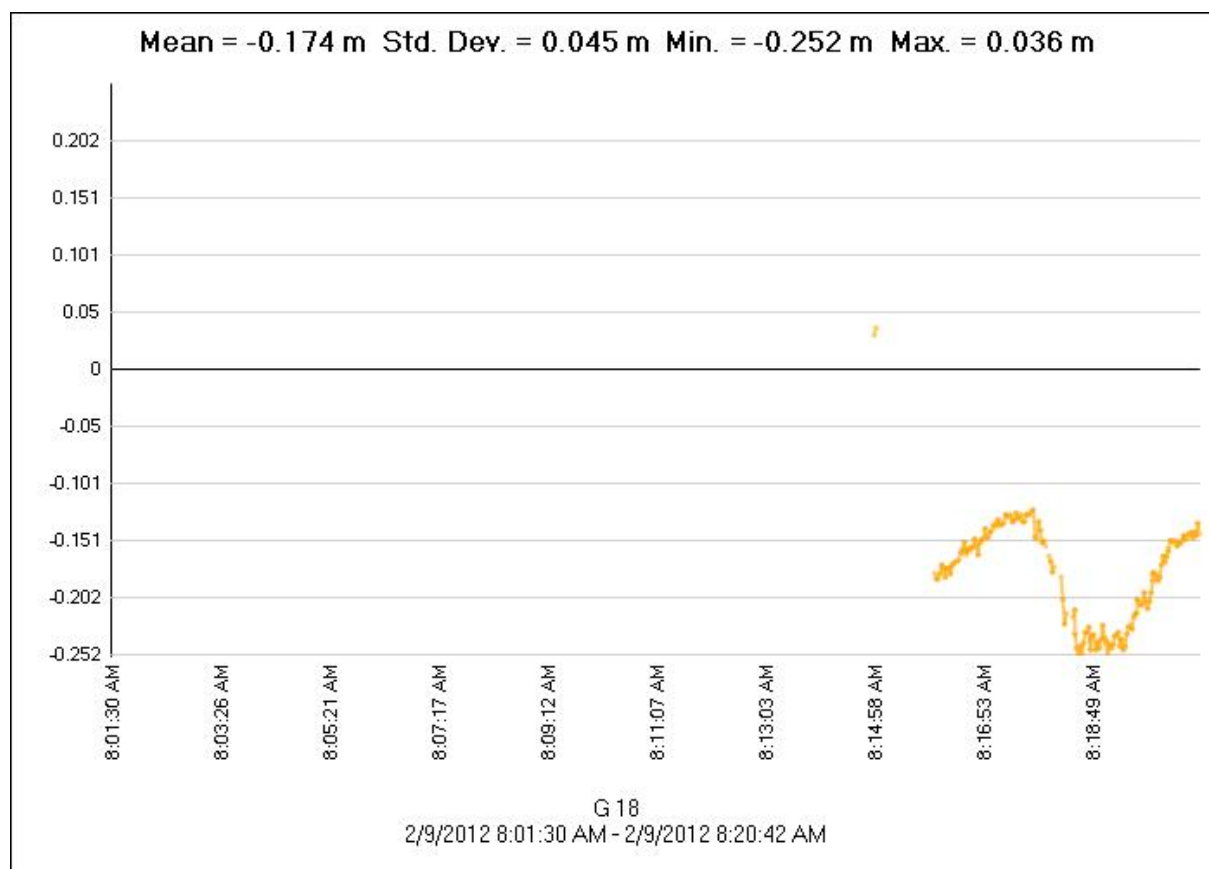
Tracking Summary

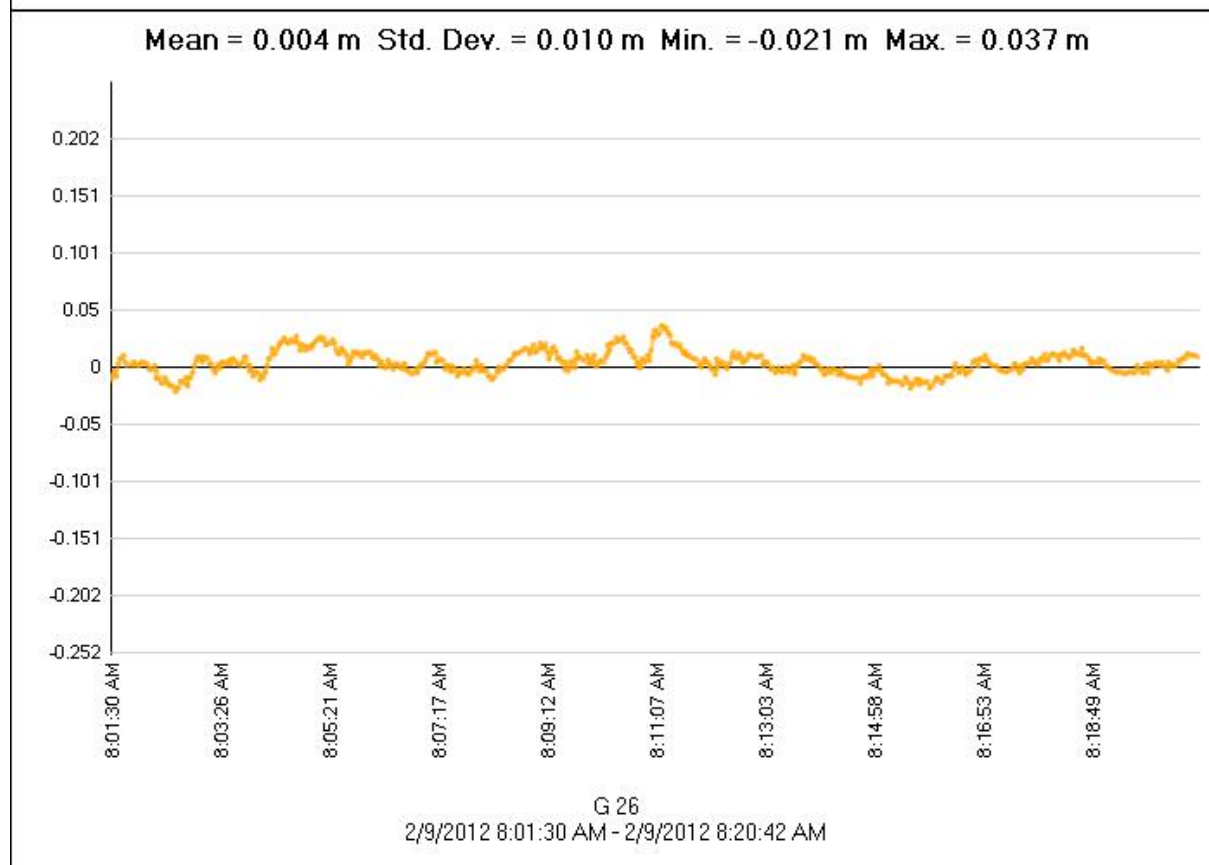
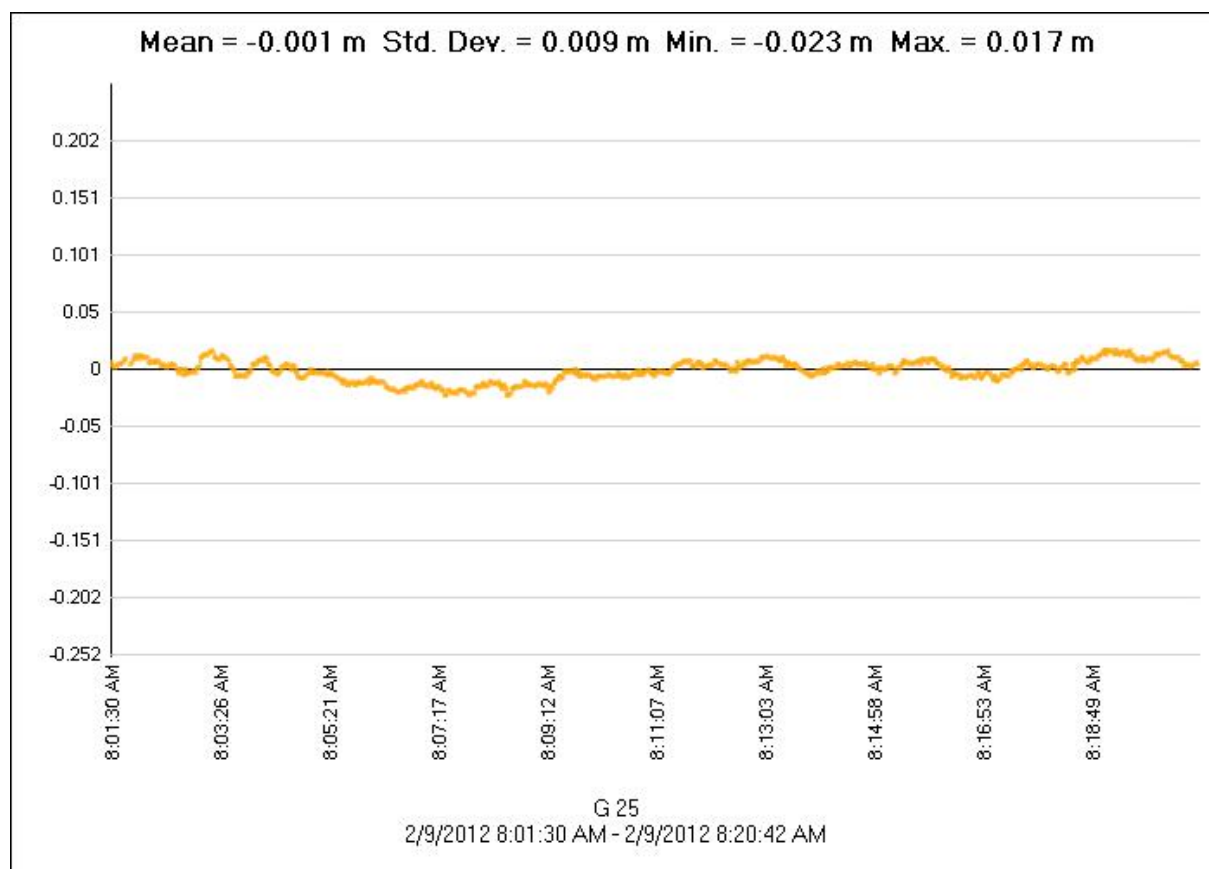


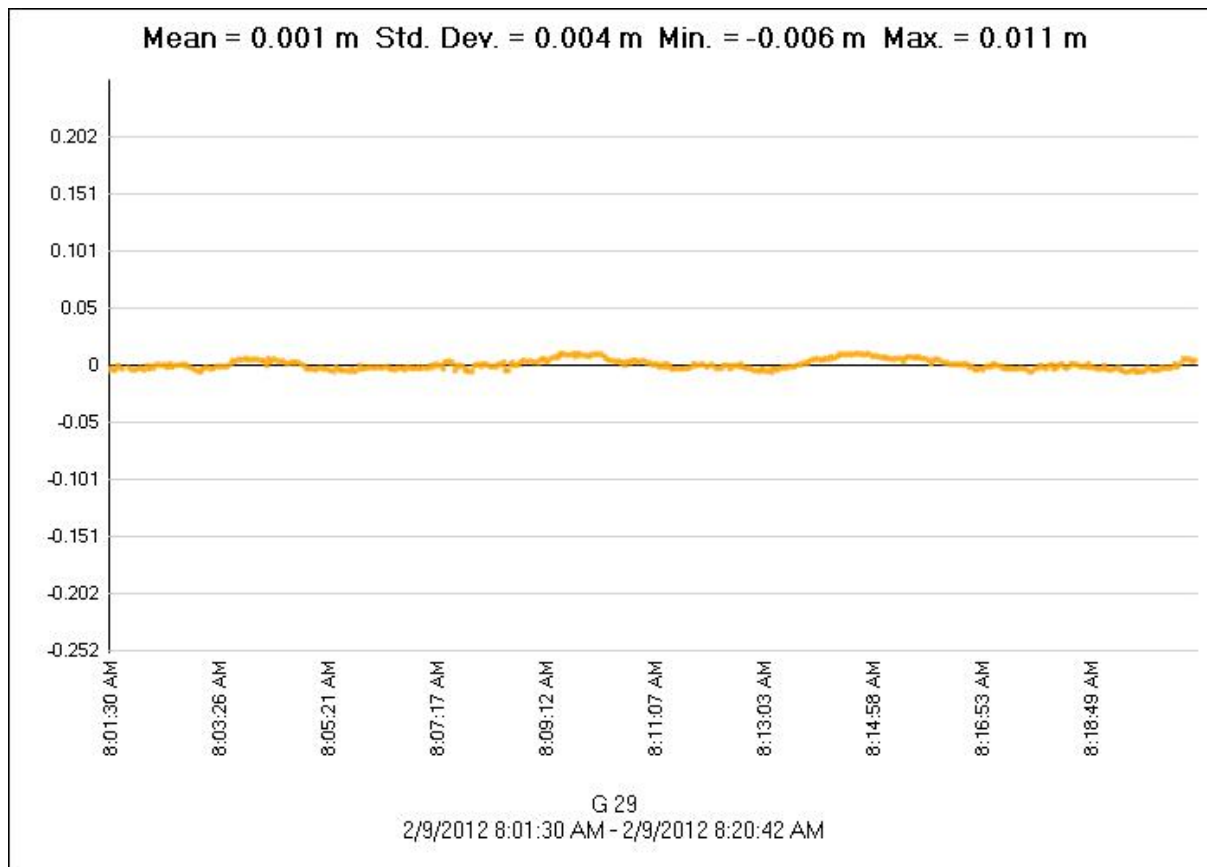
Residuals











Processing style

Elevation mask:	10.0 deg
Auto start processing:	Yes
Start automatic ID numbering:	AUTO0001
Continuous vectors:	No
Generate residuals:	Yes
Antenna model:	Automatic
Ephemeris type:	Automatic
Frequency:	Dual Frequency (L1, L2)
Processing Interval:	Use all data
Force float:	No

Acceptance Criteria

Vector Component	Flag 	Fail 
Horizontal Precision >	0.050 m + 1.000 ppm	0.100 m + 1.000 ppm
Vertical Precision >	0.100 m + 1.000 ppm	0.200 m + 1.000 ppm

HH0162 - FVA11-B2-OLD (8:52:28 AM-9:12:58 AM) (S68)

Baseline observation: HH0162 --- FVA11-B2-OLD (B68)

Processed: 3/21/2012 10:59:13 AM

Solution type: Fixed

Frequency used: Dual Frequency (L1, L2)

Horizontal precision: 0.010 m

Vertical precision: 0.015 m

RMS: 0.006 m

Maximum PDOP: 2.790

Ephemeris used: Broadcast

Antenna model: US National Geodetic Survey Calibration

Processing start time: 2/9/2012 8:52:28 AM (Local: UTC-7hr)

Processing stop time: 2/9/2012 9:12:58 AM (Local: UTC-7hr)

Processing duration: 00:20:29

Processing interval: .5 second

Vector Components (Mark to Mark)

From:	HH0162				
Grid		Local		Global	
Easting	334883.094 m	Latitude	N37°57'51.89981"	Latitude	N37°57'51.89980"
Northing	4203533.480 m	Longitude	W100°52'46.80868"	Longitude	W100°52'46.80868"
Elevation	875.739 m	Height	850.245 m	Height	850.245 m

To:	FVA11-B2-OLD				
Grid		Local		Global	
Easting	342929.393 m	Latitude	N38°08'04.12723"	Latitude	N38°08'04.12722"
Northing	4222253.253 m	Longitude	W100°47'31.99677"	Longitude	W100°47'31.99677"
Elevation	907.099 m	Height	881.830 m	Height	881.829 m

Vector					
9Ughb[	8046.299 m	NS Fwd Azimuth	22°06'03"	L	9722.606 m
BcfA\jb[	18719.774 m	Ellipsoid Dist.	20377.427 m	M	9960.898 m
9`Yj Ufcb	31.361 m	<Y][\h	31.585 m	N	14886.392 m

Standard Errors

Vector errors:					
Point ID	0.003 m	Point Description	0°00'00"	Point Type	0.003 m
Point ID	0.004 m	Point Description	0.004 m	Point Type	0.007 m
Point ID	0.008 m	Point Description	0.008 m	Point Type	0.006 m

Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0000096878		
Y	0.0000049846	0.0000444266	
Z	-0.0000020474	-0.0000212223	0.0000346320

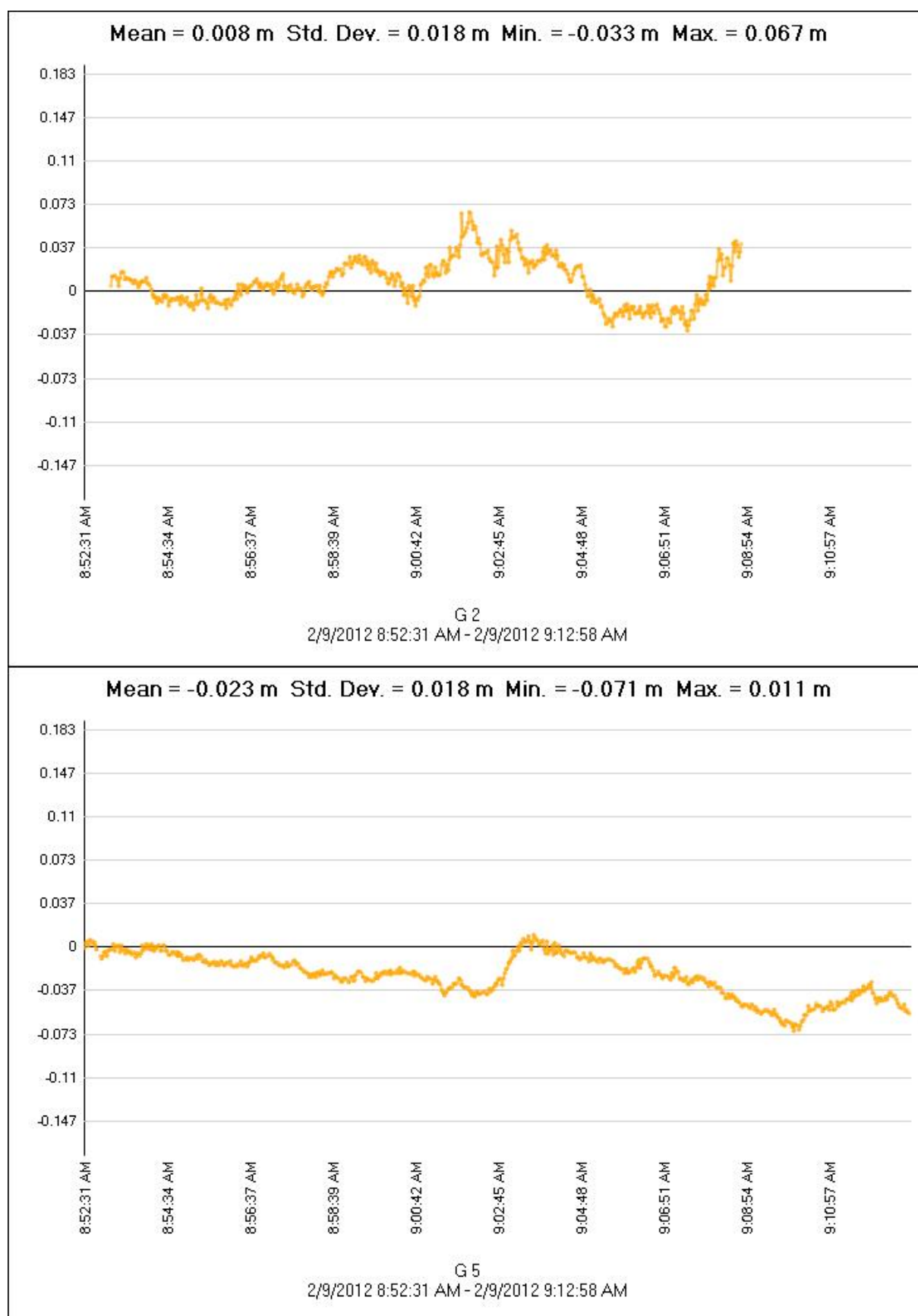
Occupations

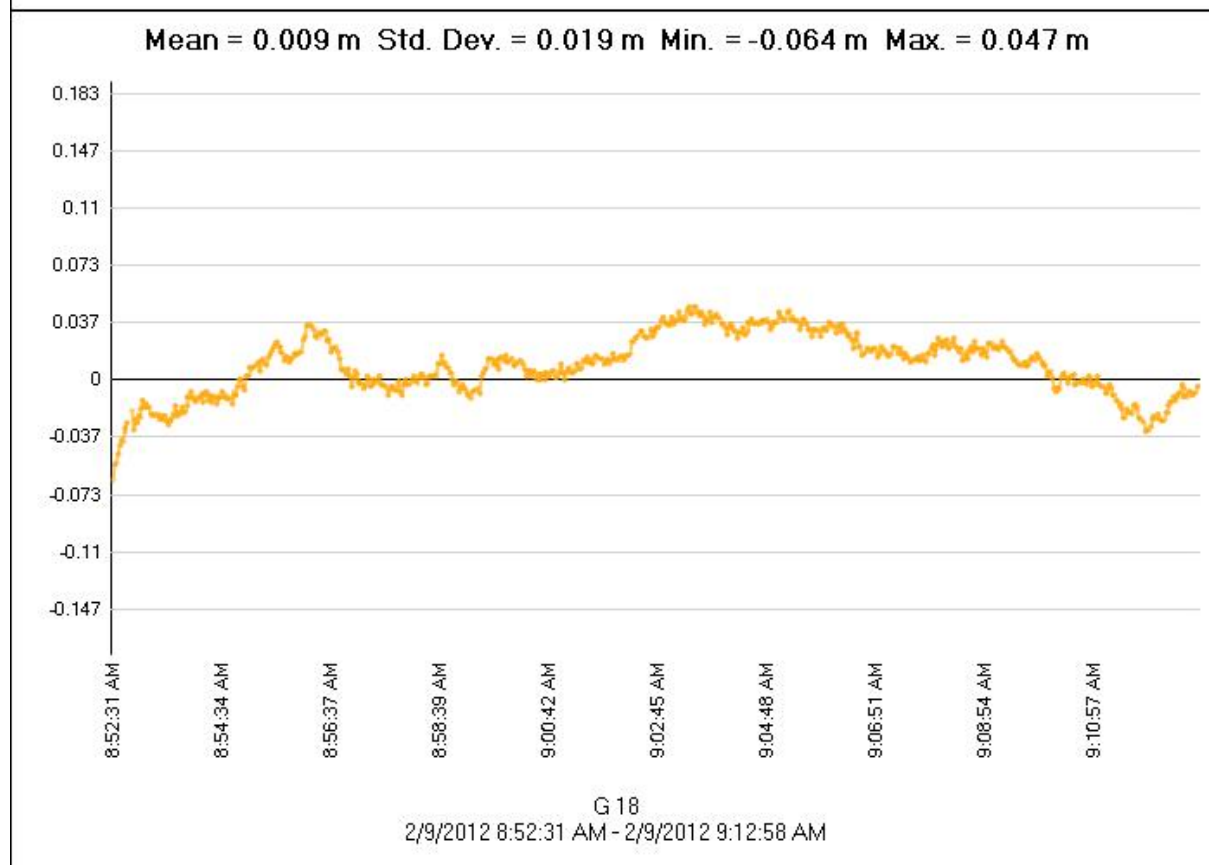
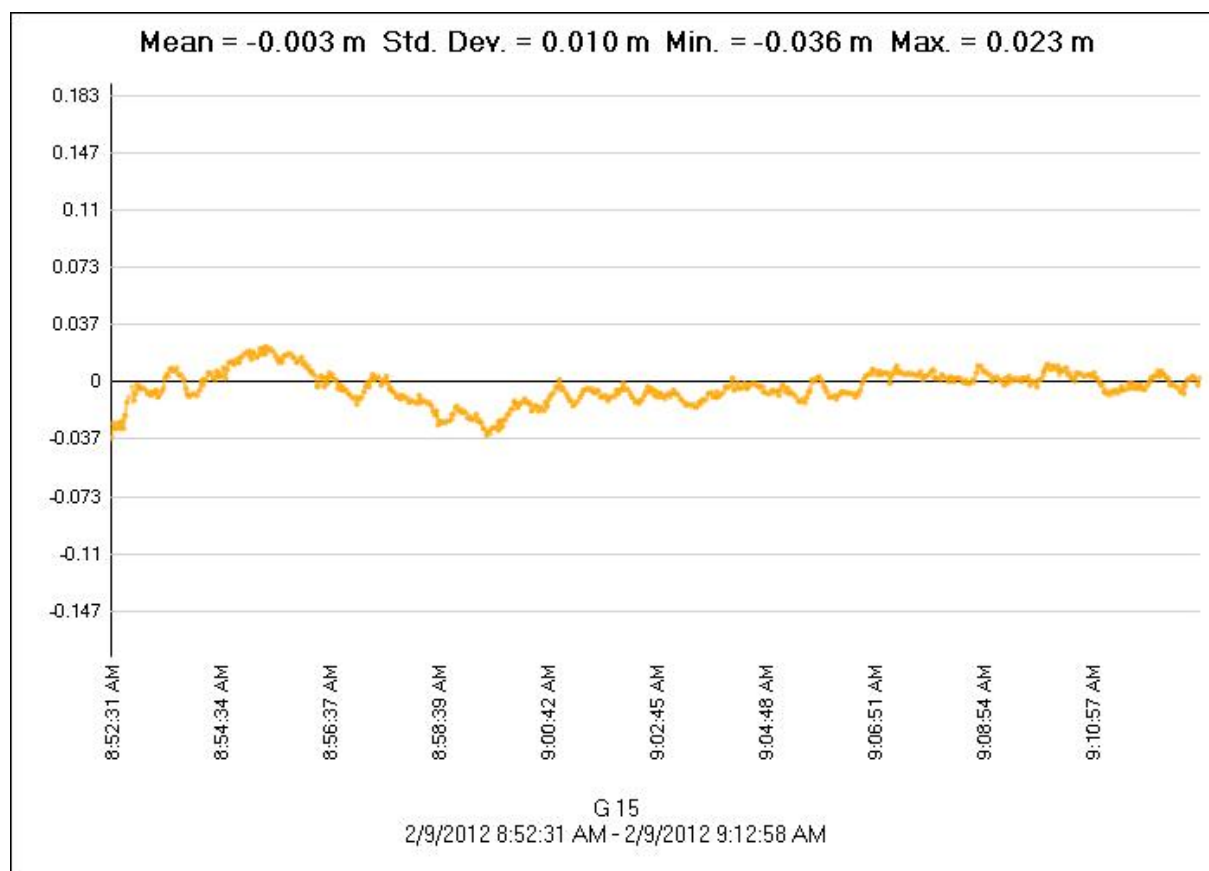
	From	To
Point ID:	HH0162	FVA11-B2-OLD
Data file:	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00010400.12o	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00080402.12o
Receiver type:	Unknown	Unknown
Receiver serial number:		
Antenna type:	Unknown External	Unknown External
Antenna serial number:	-----	-----
Antenna height (measured):	1.565 m	2.065 m
Antenna method:	Antenna Phase Center	Antenna Phase Center

Tracking Summary

SV	2/9/2012 8:52:28 AM	Duration: 00:20:29.5000000	Major interval: 00:01:00	2/9/2012 9:12:58 AM
G 2	L1 L2			
G 5	L1 L2			
G 12	L1 L2			
G 15	L1 L2			
G 16	L1 L2			
G 18	L1 L2			
G 21	L1 L2			
G 25	L1 L2			
G 26	L1 L2			
G 29	L1 L2			
G 30	L1 L2			

Residuals





Mean = 0.006 m Std. Dev. = 0.016 m Min. = -0.033 m Max. = 0.041 m

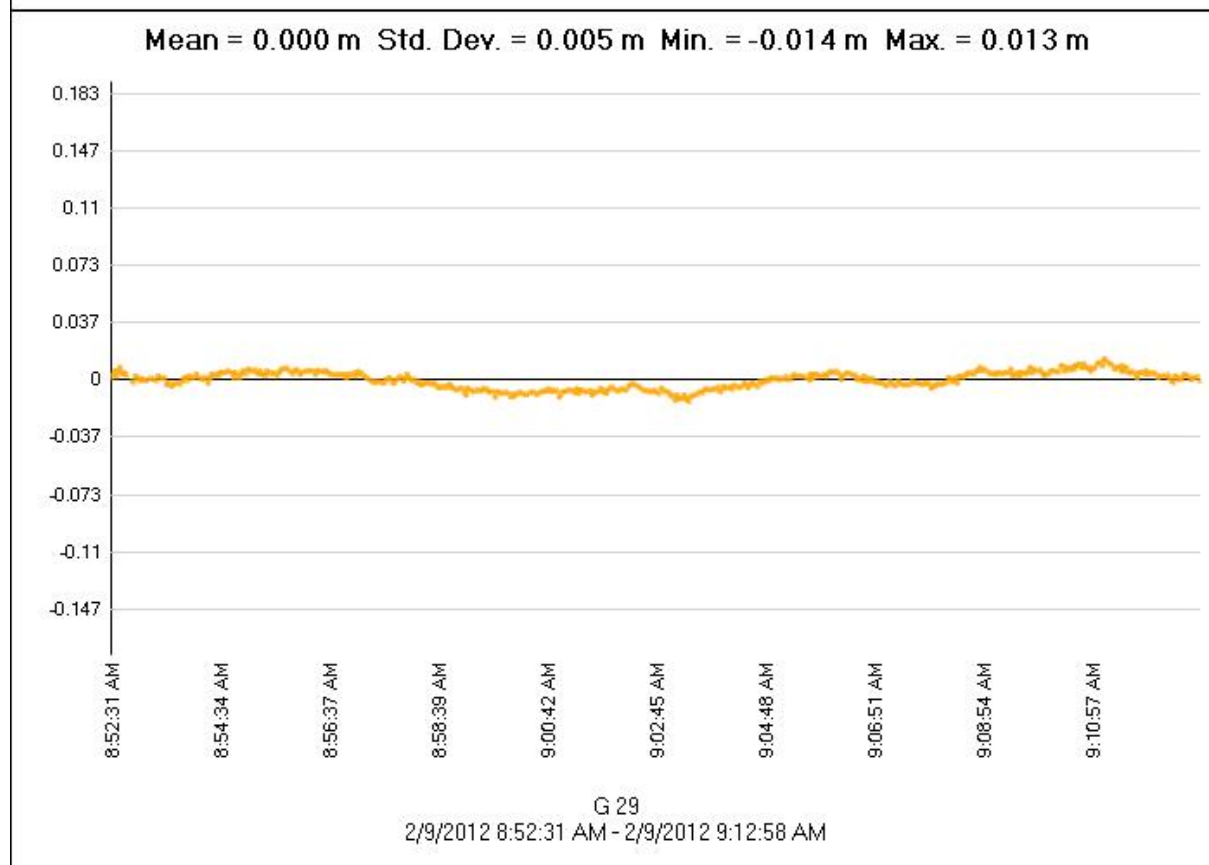
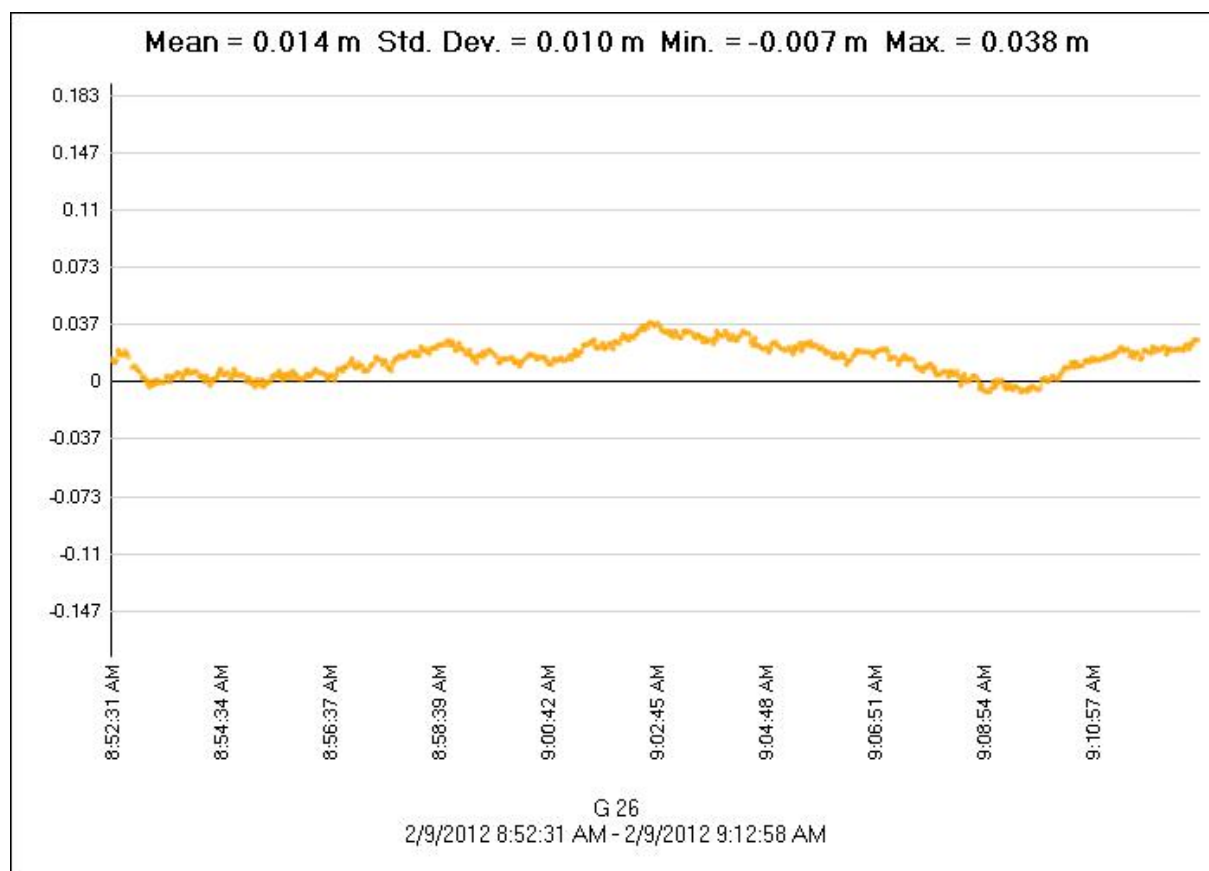


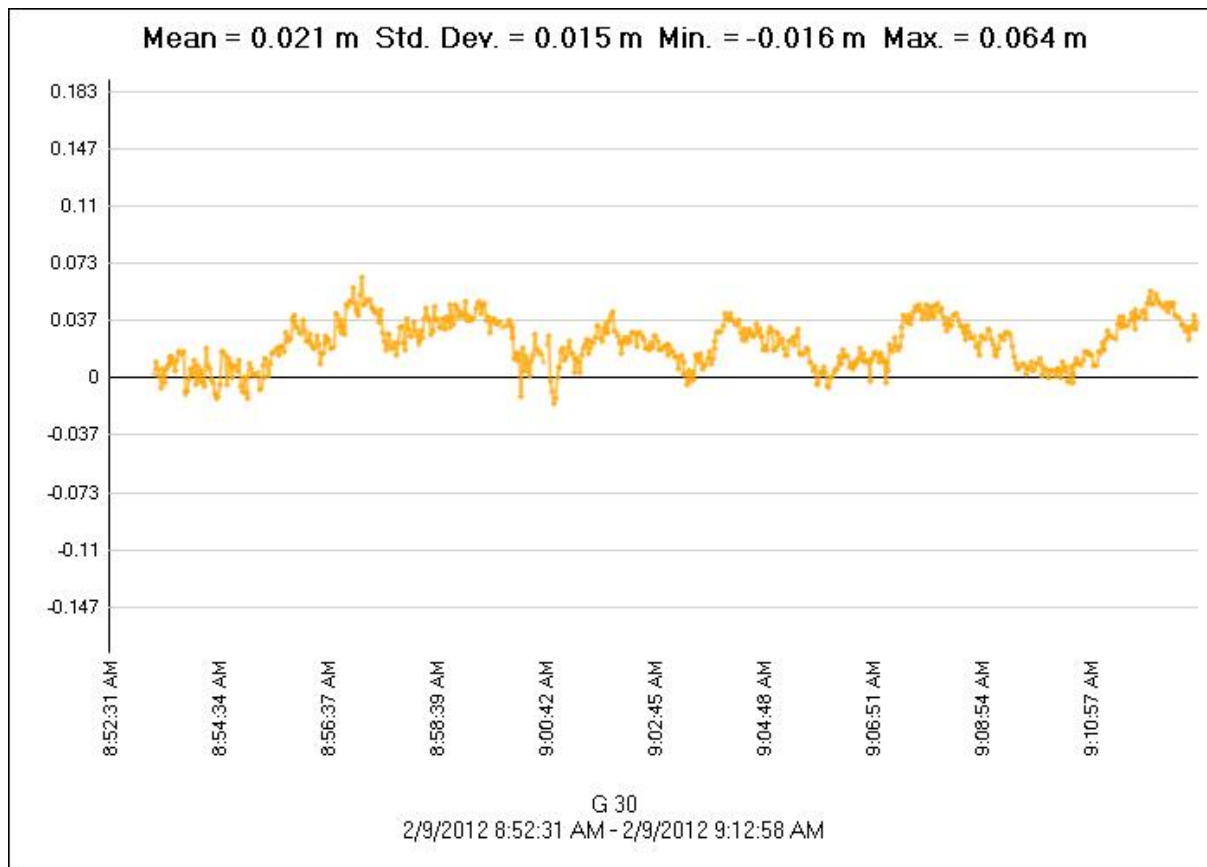
G 21
2/9/2012 8:52:31 AM - 2/9/2012 9:12:58 AM

Mean = -0.018 m Std. Dev. = 0.077 m Min. = -0.175 m Max. = 0.191 m



G 25
2/9/2012 8:52:31 AM - 2/9/2012 9:12:58 AM





Processing style

Elevation mask:	10.0 deg
Auto start processing:	Yes
Start automatic ID numbering:	AUTO0001
Continuous vectors:	No
Generate residuals:	Yes
Antenna model:	Automatic
Ephemeris type:	Automatic
Frequency:	Dual Frequency (L1, L2)
Processing Interval:	Use all data
Force float:	No

Acceptance Criteria

Vector Component	Flag 	Fail 
Horizontal Precision >	0.050 m + 1.000 ppm	0.100 m + 1.000 ppm
Vertical Precision >	0.100 m + 1.000 ppm	0.200 m + 1.000 ppm

HH0162 - SVA11-B2 (9:16:55 AM-9:37:30 AM) (S69)

Baseline observation: HH0162 --- SVA11-B2 (B69)

Processed: 3/21/2012 10:59:12 AM

Solution type: Fixed

Frequency used: Dual Frequency (L1, L2)

Horizontal precision: 0.016 m

Vertical precision: 0.027 m

RMS: 0.005 m

Maximum PDOP: 3.137

Ephemeris used: Broadcast

Antenna model: US National Geodetic Survey Calibration

Processing start time: 2/9/2012 9:16:55 AM (Local: UTC-7hr)

Processing stop time: 2/9/2012 9:37:30 AM (Local: UTC-7hr)

Processing duration: 00:20:34

Processing interval: .5 second

Vector Components (Mark to Mark)

From:	HH0162				
Grid		Local		Global	
Easting	334883.094 m	Latitude	N37°57'51.89981"	Latitude	N37°57'51.89980"
Northing	4203533.480 m	Longitude	W100°52'46.80868"	Longitude	W100°52'46.80868"
Elevation	875.739 m	Height	850.245 m	Height	850.245 m

To:	SVA11-B2				
Grid		Local		Global	
Easting	342905.923 m	Latitude	N38°08'02.13519"	Latitude	N38°08'02.13519"
Northing	4222192.281 m	Longitude	W100°47'32.91205"	Longitude	W100°47'32.91205"
Elevation	907.444 m	Height	882.174 m	Height	882.174 m

Vector					
9Ughb[	8022.829 m	NS Fwd Azimuth	22°06'28"	L	9693.553 m
Bcfh\jb[	18658.801 m	Ellipsoid Dist.	20312.136 m	M	9927.544 m
9`Yj Uhcb	31.706 m	<Y][\h	31.929 m	N	14838.287 m

Standard Errors

Vector errors:

Point ID	0.005 m	Point Description	0°00'00"	Point Type	0.006 m
Point ID	0.007 m	Point Description	0.006 m	Point Type	0.011 m
Point ID	0.014 m	Point Description	0.014 m	Point Type	0.011 m

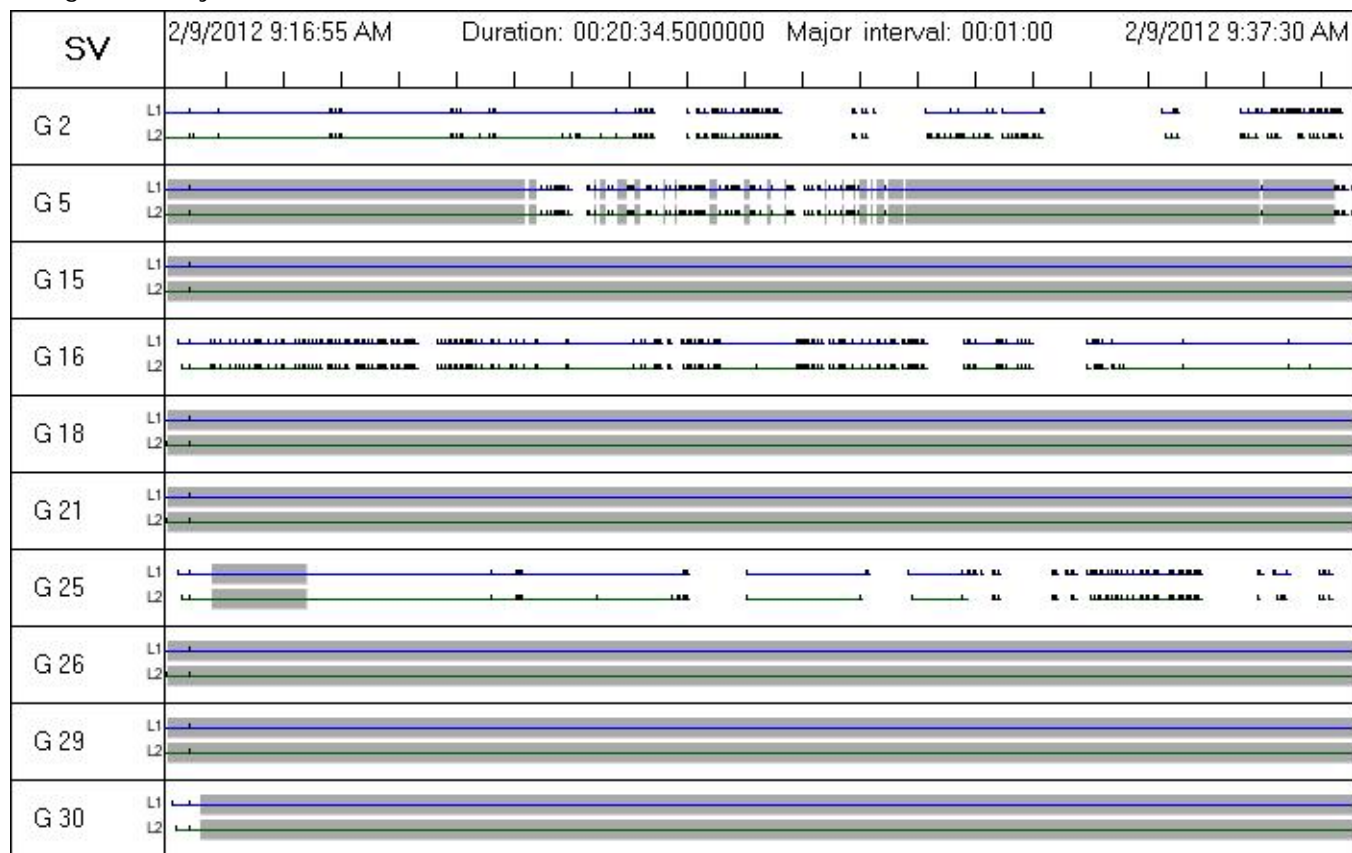
Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0000340105		
Y	0.0000309693	0.0001145132	
Z	-0.0000237093	-0.0000735735	0.0001159905

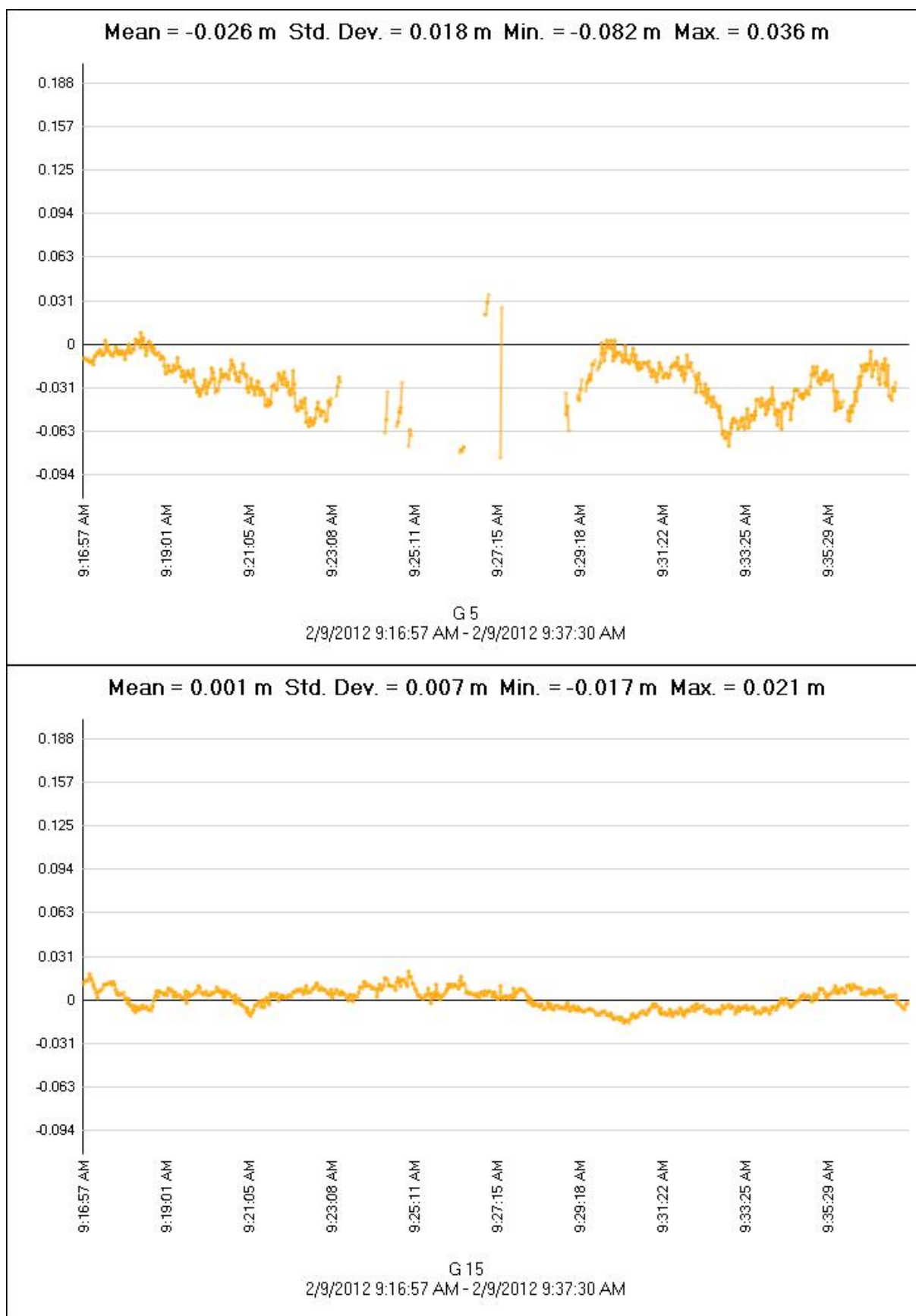
Occupations

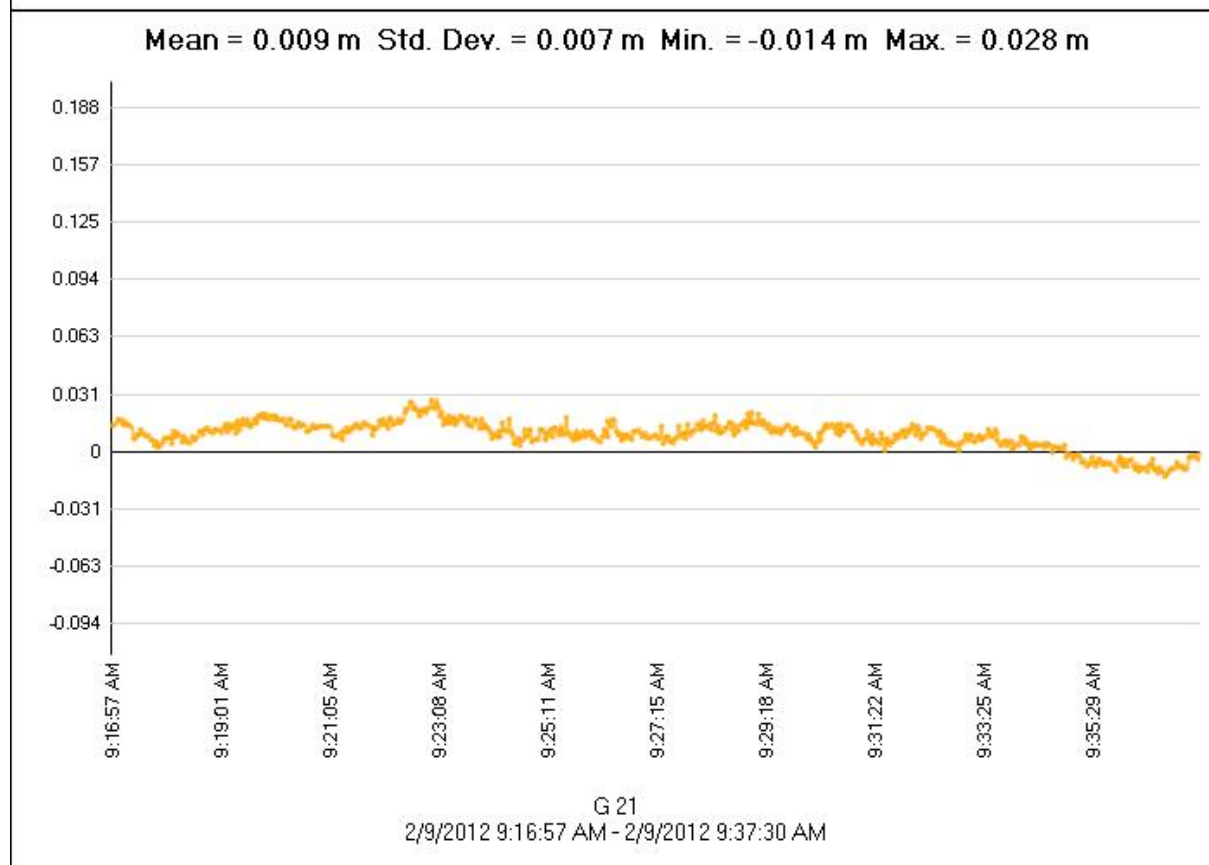
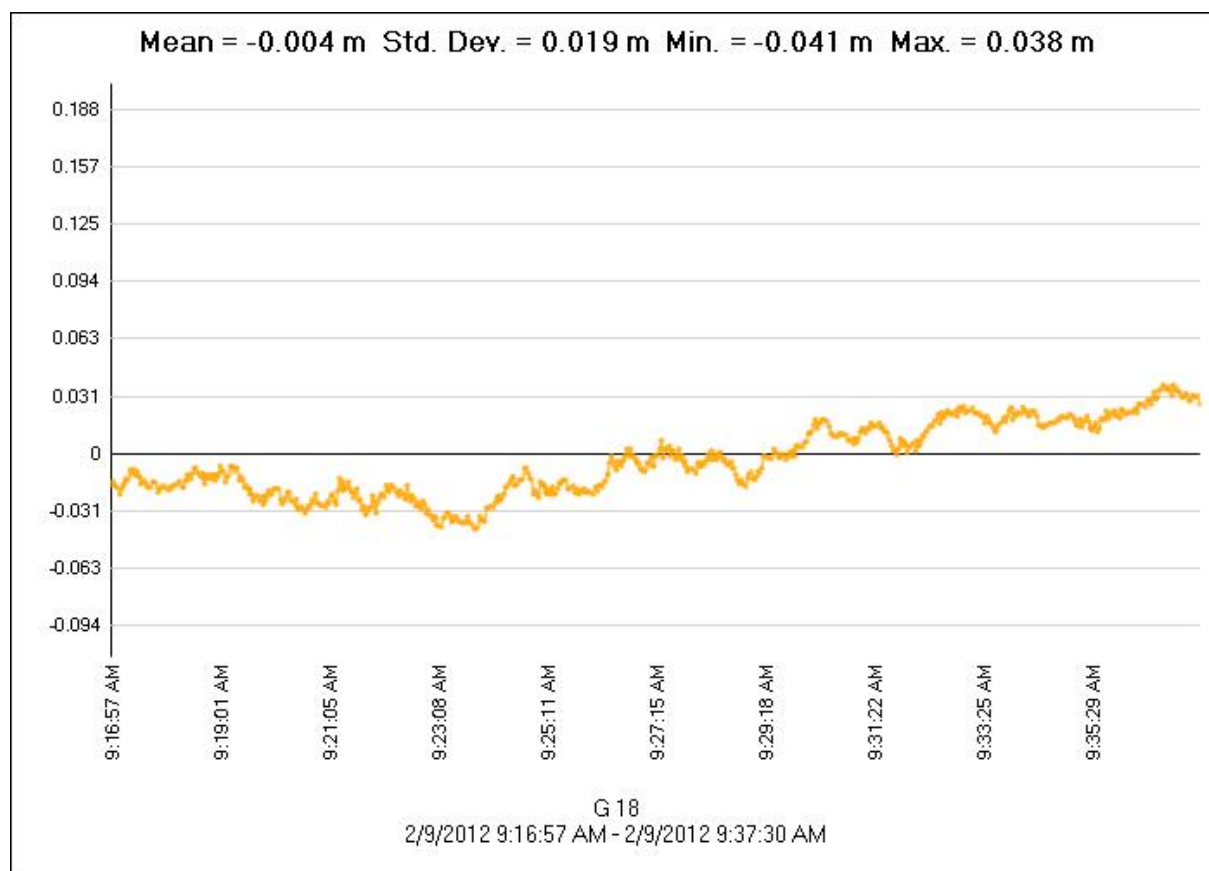
	From	To
Point ID:	HH0162	SVA11-B2
Data file:	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00010400.12o	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00080403.12o
Receiver type:	Unknown	Unknown
Receiver serial number:		
Antenna type:	Unknown External	Unknown External
Antenna serial number:	-----	-----
Antenna height (measured):	1.565 m	2.065 m
Antenna method:	Antenna Phase Center	Antenna Phase Center

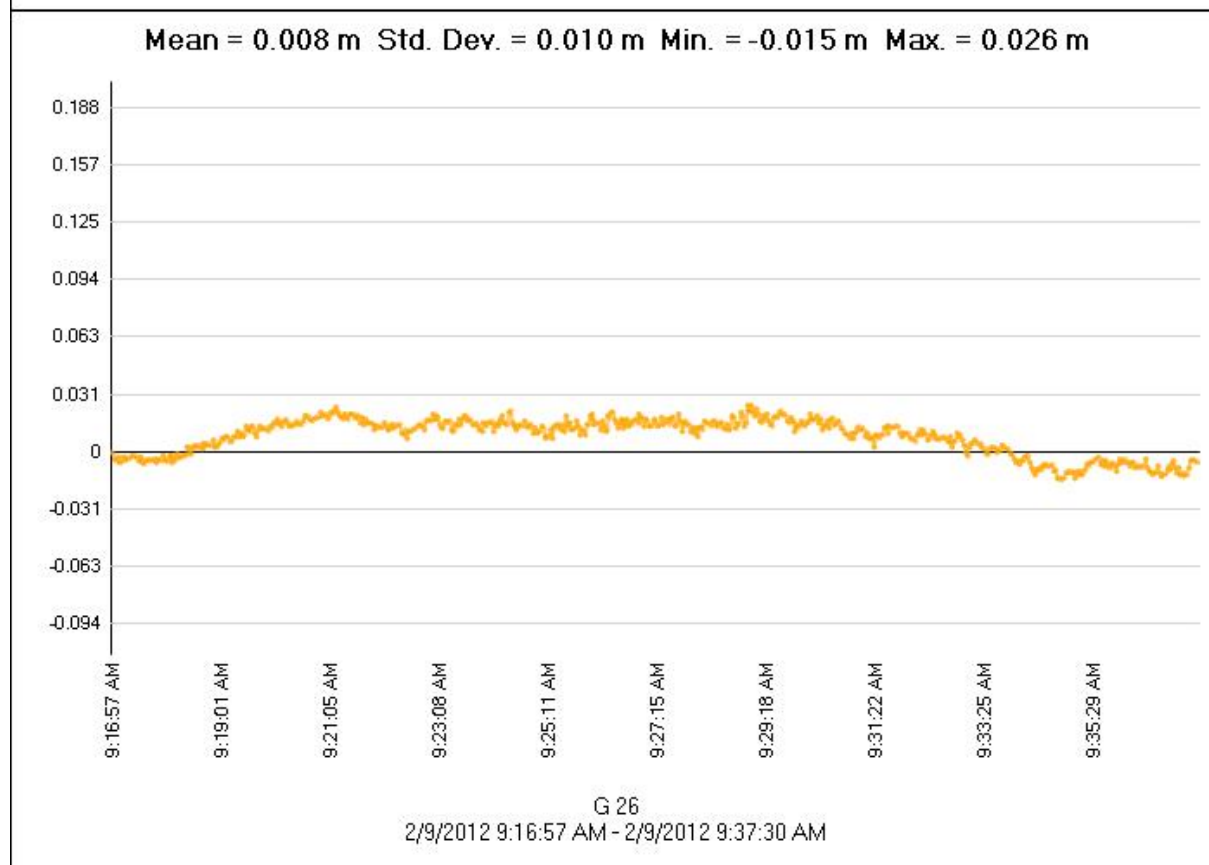
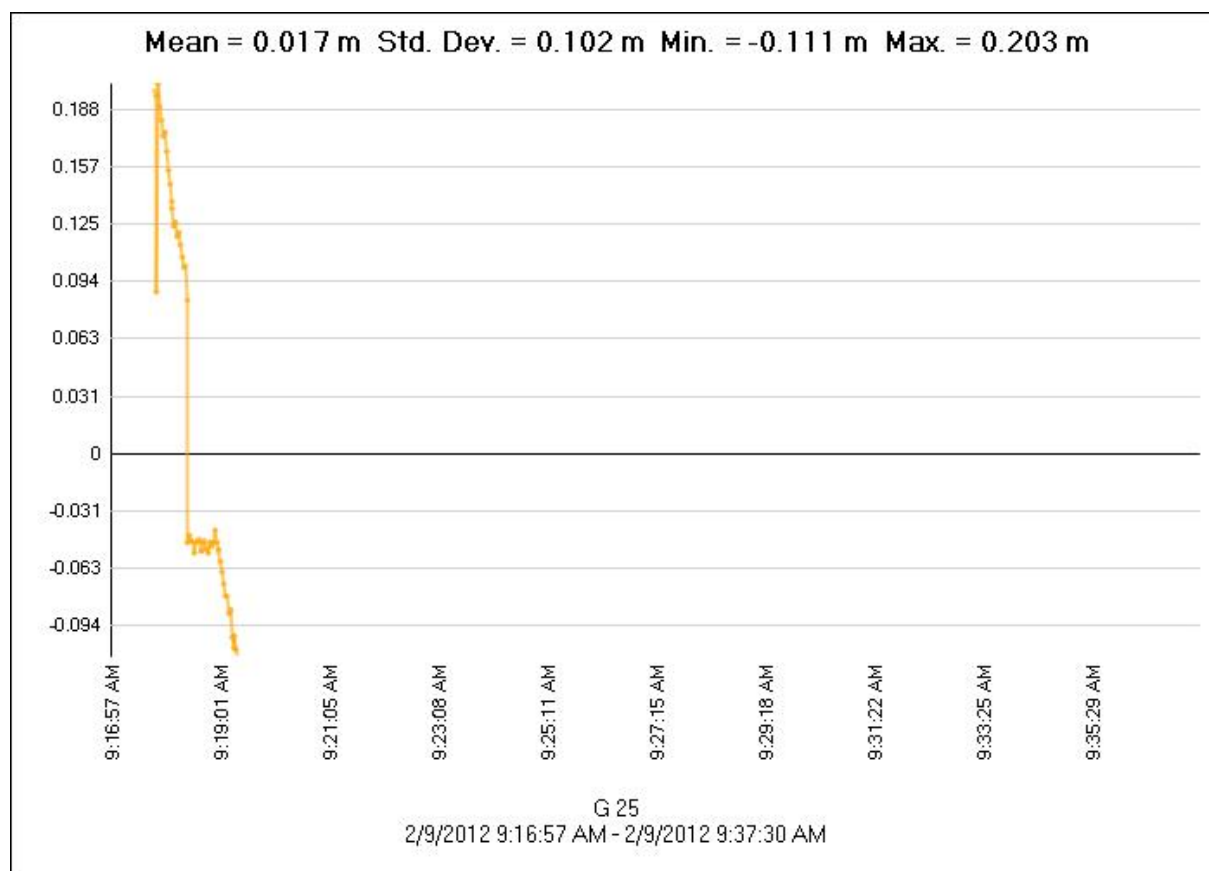
Tracking Summary

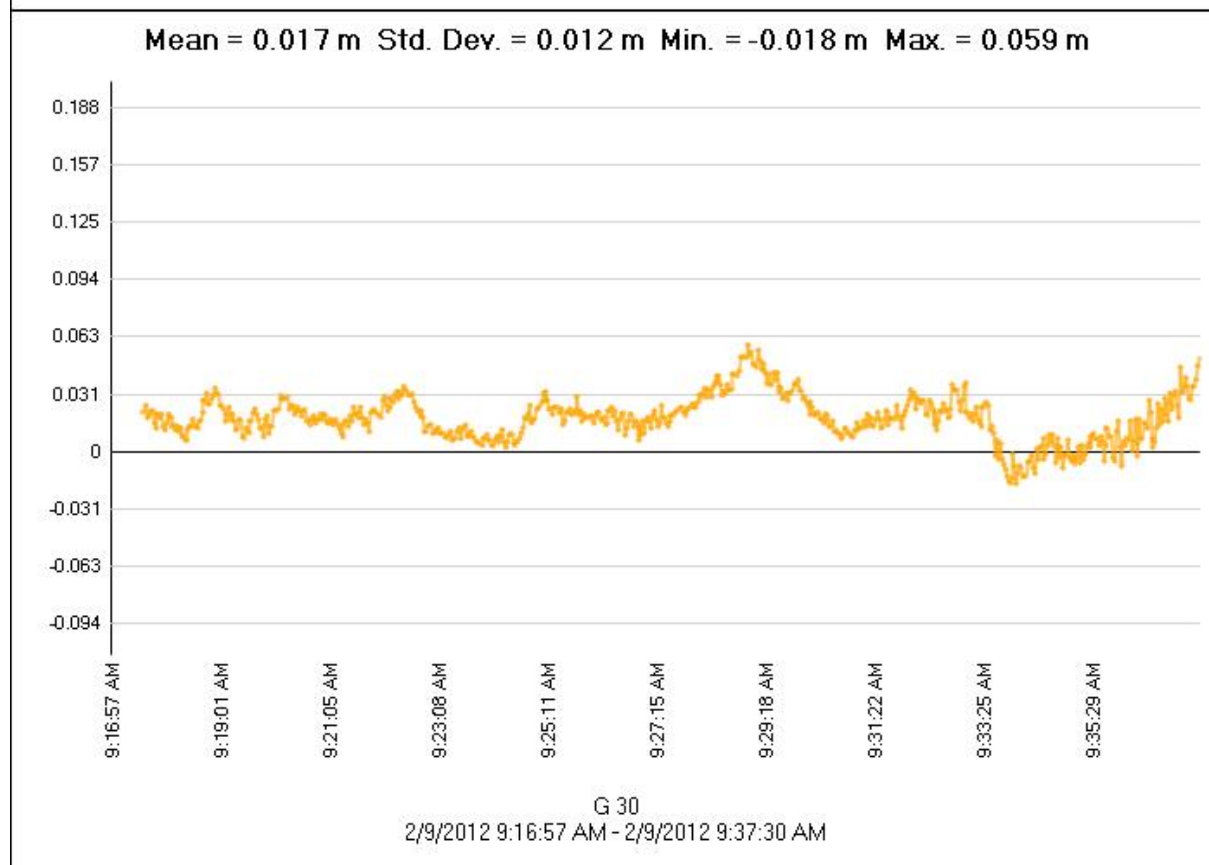
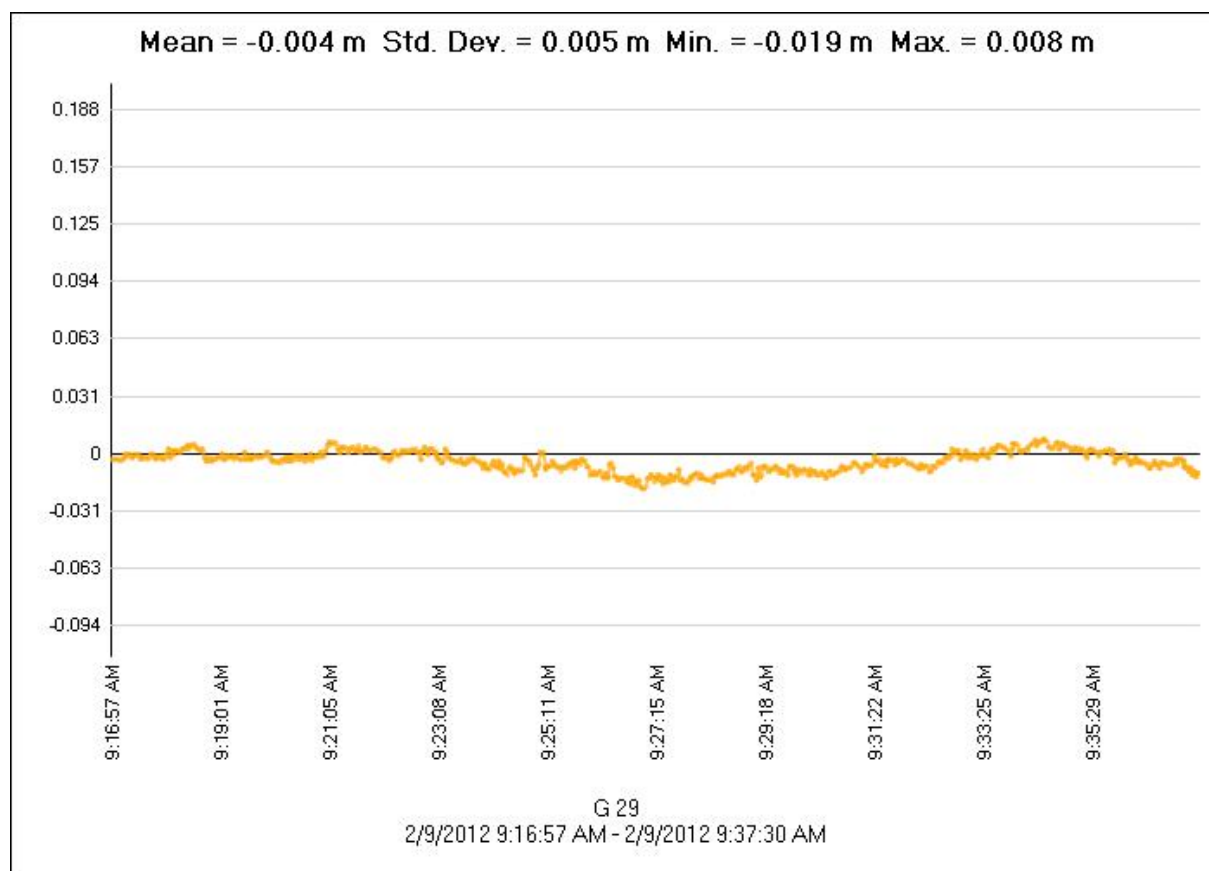


Residuals











Processing style

Elevation mask:	10.0 deg
Auto start processing:	Yes
Start automatic ID numbering:	AUTO0001
Continuous vectors:	No
Generate residuals:	Yes
Antenna model:	Automatic
Ephemeris type:	Automatic
Frequency:	Dual Frequency (L1, L2)
Processing Interval:	Use all data
Force float:	No

Acceptance Criteria

Vector Component	Flag 	Fail 
Horizontal Precision >	0.050 m + 1.000 ppm	0.100 m + 1.000 ppm
Vertical Precision >	0.100 m + 1.000 ppm	0.200 m + 1.000 ppm

HH0162 - FVA12-B2 (9:59:06 AM-10:18:05 AM) (S70)

Baseline observation: HH0162 --- FVA12-B2 (B70)

Processed: 3/21/2012 10:59:16 AM

Solution type: Fixed

Frequency used: Dual Frequency (L1, L2)

Horizontal precision: 0.010 m

Vertical precision: 0.029 m

RMS: 0.012 m

Maximum PDOP: 7.823

Ephemeris used: Broadcast

Antenna model: US National Geodetic Survey Calibration

Processing start time: 2/9/2012 9:59:06 AM (Local: UTC-7hr)

Processing stop time: 2/9/2012 10:18:05 AM (Local: UTC-7hr)

Processing duration: 00:18:59

Processing interval: .5 second

Vector Components (Mark to Mark)

From:	HH0162				
Grid		Local		Global	
Easting	334883.094 m	Latitude	N37°57'51.89981"	Latitude	N37°57'51.89980"
Northing	4203533.480 m	Longitude	W100°52'46.80868"	Longitude	W100°52'46.80868"
Elevation	875.739 m	Height	850.245 m	Height	850.245 m

To:	FVA12-B2				
Grid		Local		Global	
Easting	354132.257 m	Latitude	N38°08'04.63290"	Latitude	N38°08'04.63290"
Northing	4222060.105 m	Longitude	W100°39'51.85990"	Longitude	W100°39'51.85990"
Elevation	891.092 m	Height	865.748 m	Height	865.748 m

Vector					
9Ughb[	19249.163 m	NS Fwd Azimuth	44°56'14"	L	20738.223 m
Bcfh\jb[	18526.626 m	Ellipsoid Dist.	26719.123 m	M	7896.512 m
9`Yj Uhcb	15.354 m	<Y][\h	15.503 m	N	14888.727 m

Standard Errors

Vector errors:					
Point ID	0.003 m	Point ID	0°00'00"	Point ID	0.004 m
Point ID	0.004 m	Point ID	0.004 m	Point ID	0.011 m
Point ID	0.015 m	Point ID	0.015 m	Point ID	0.010 m

Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0000129931		
Y	0.0000178236	0.0001225318	
Z	-0.0000155213	-0.0001007339	0.0001089153

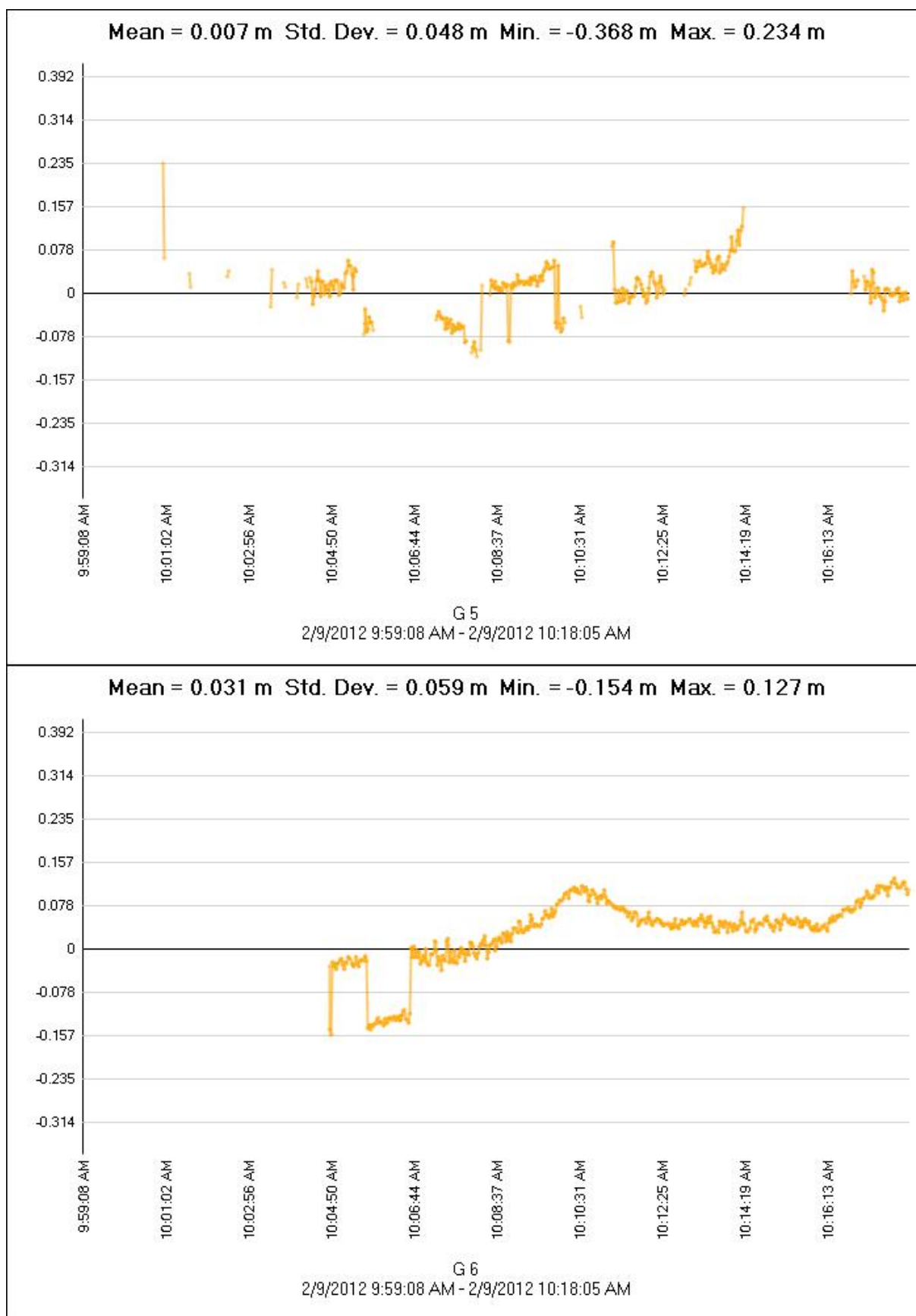
Occupations

	From	To
Point ID:	HH0162	FVA12-B2
Data file:	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00010400.12o	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00080404.12o
Receiver type:	Unknown	Unknown
Receiver serial number:		
Antenna type:	Unknown External	Unknown External
Antenna serial number:	-----	-----
Antenna height (measured):	1.565 m	2.065 m
Antenna method:	Antenna Phase Center	Antenna Phase Center

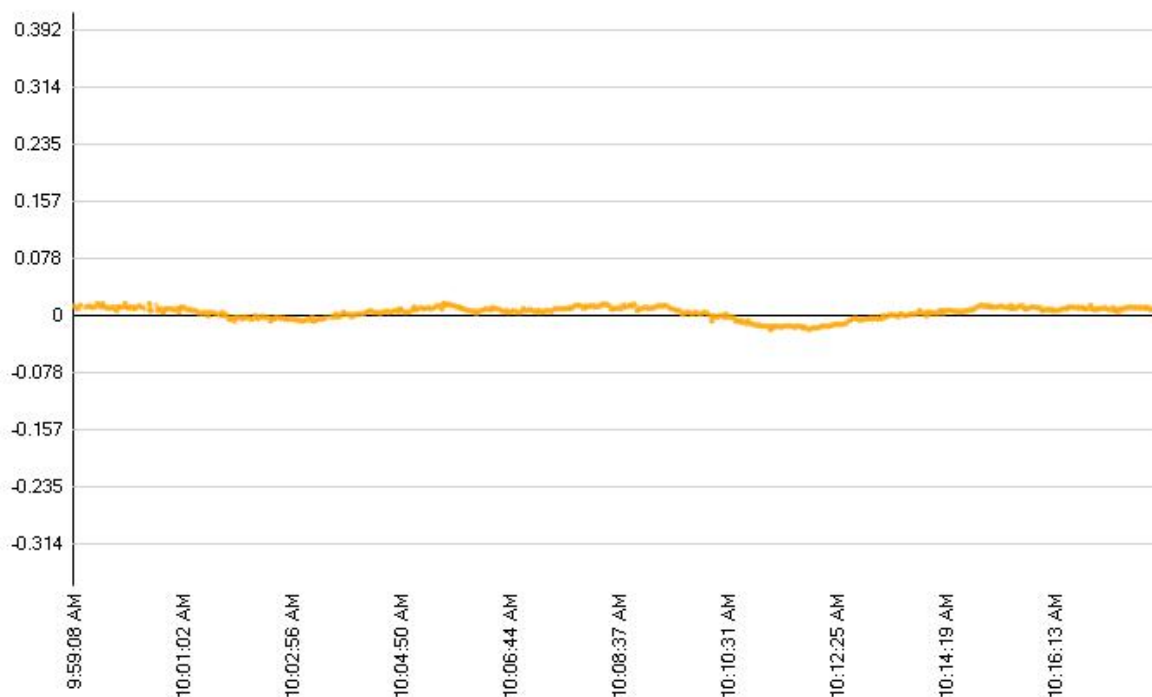
Tracking Summary

SV	2/9/2012 9:59:06 AM	Duration: 00:18:59 Major interval: 00:01:00	2/9/2012 10:18:05 AM
G 3			
G 5			
G 6			
G 15			
G 16			
G 18			
G 21			
G 22			
G 26			
G 27			
G 29			
G 30			

Residuals



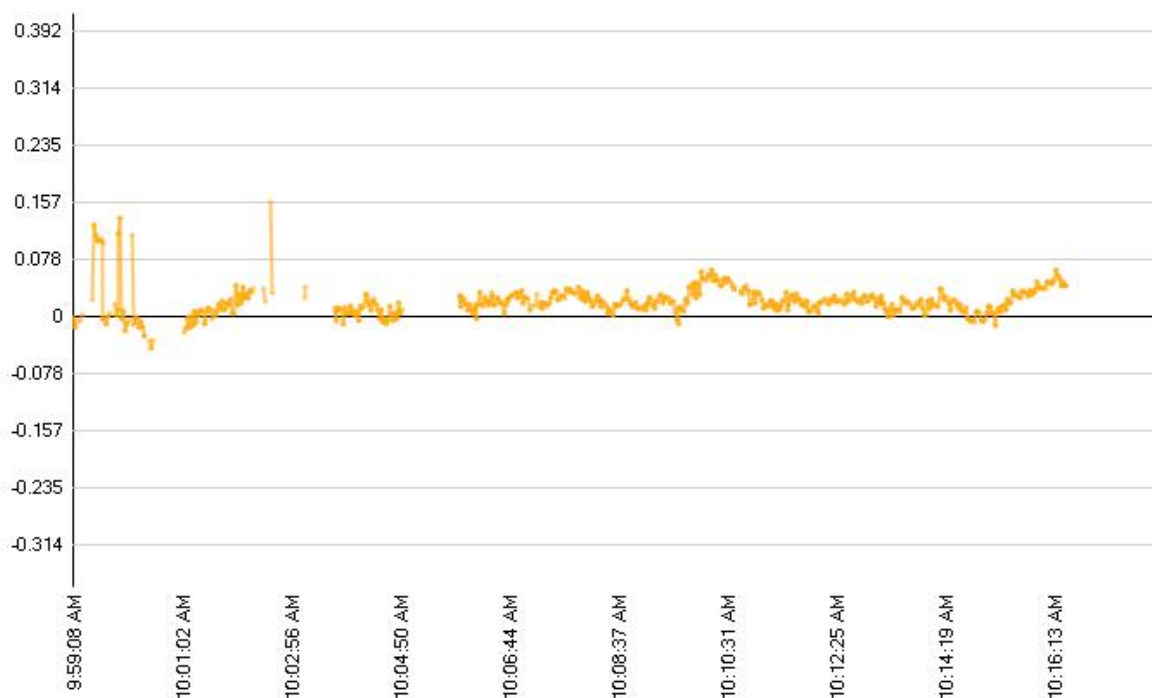
Mean = 0.004 m Std. Dev. = 0.008 m Min. = -0.019 m Max. = 0.018 m



G 15

2/9/2012 9:59:08 AM - 2/9/2012 10:18:05 AM

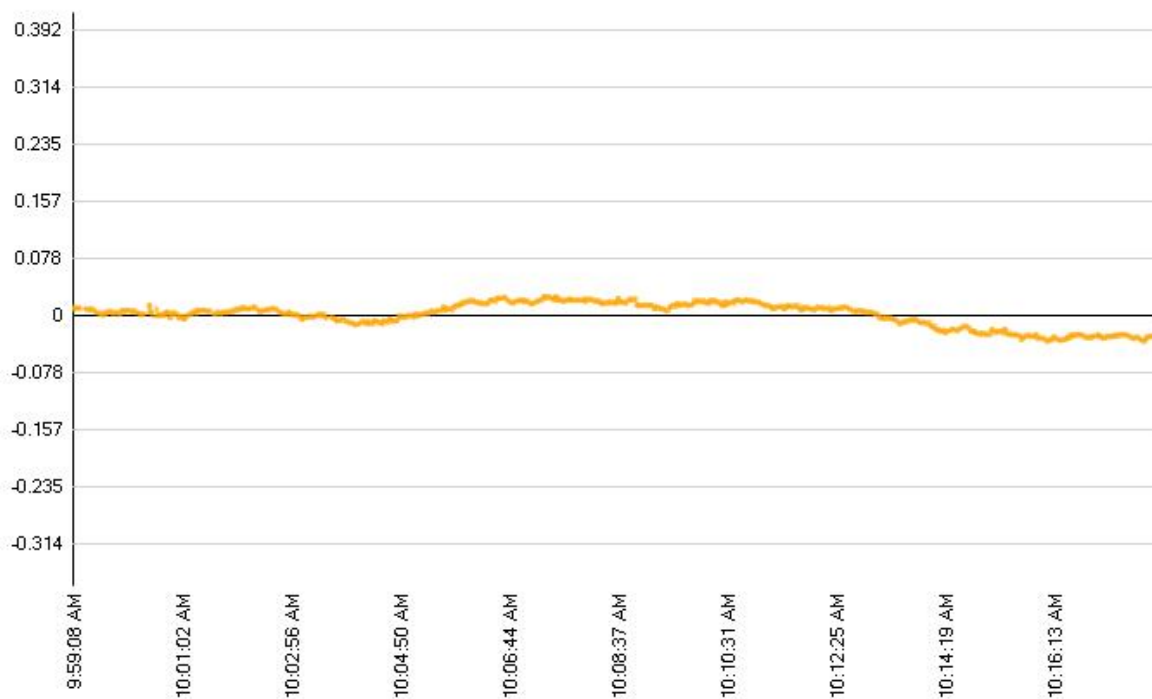
Mean = 0.019 m Std. Dev. = 0.019 m Min. = -0.043 m Max. = 0.156 m



G 16

2/9/2012 9:59:08 AM - 2/9/2012 10:18:05 AM

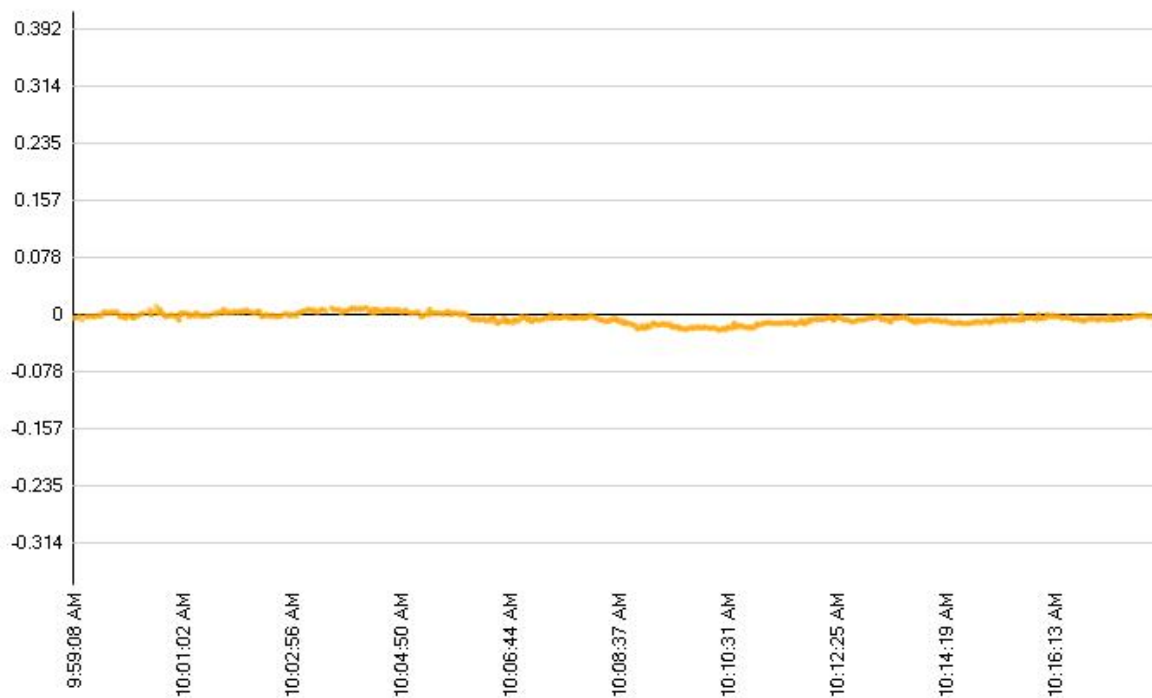
Mean = 0.001 m Std. Dev. = 0.016 m Min. = -0.036 m Max. = 0.026 m



G 18

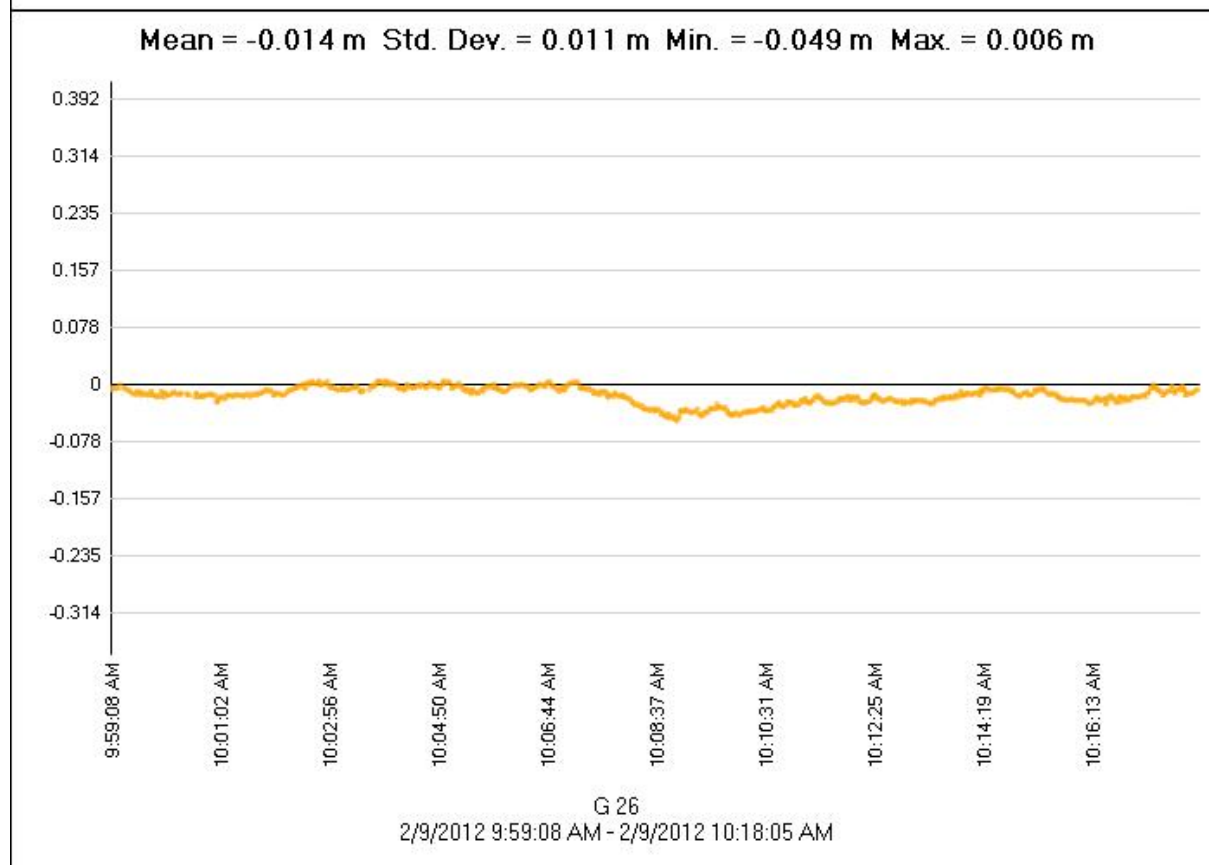
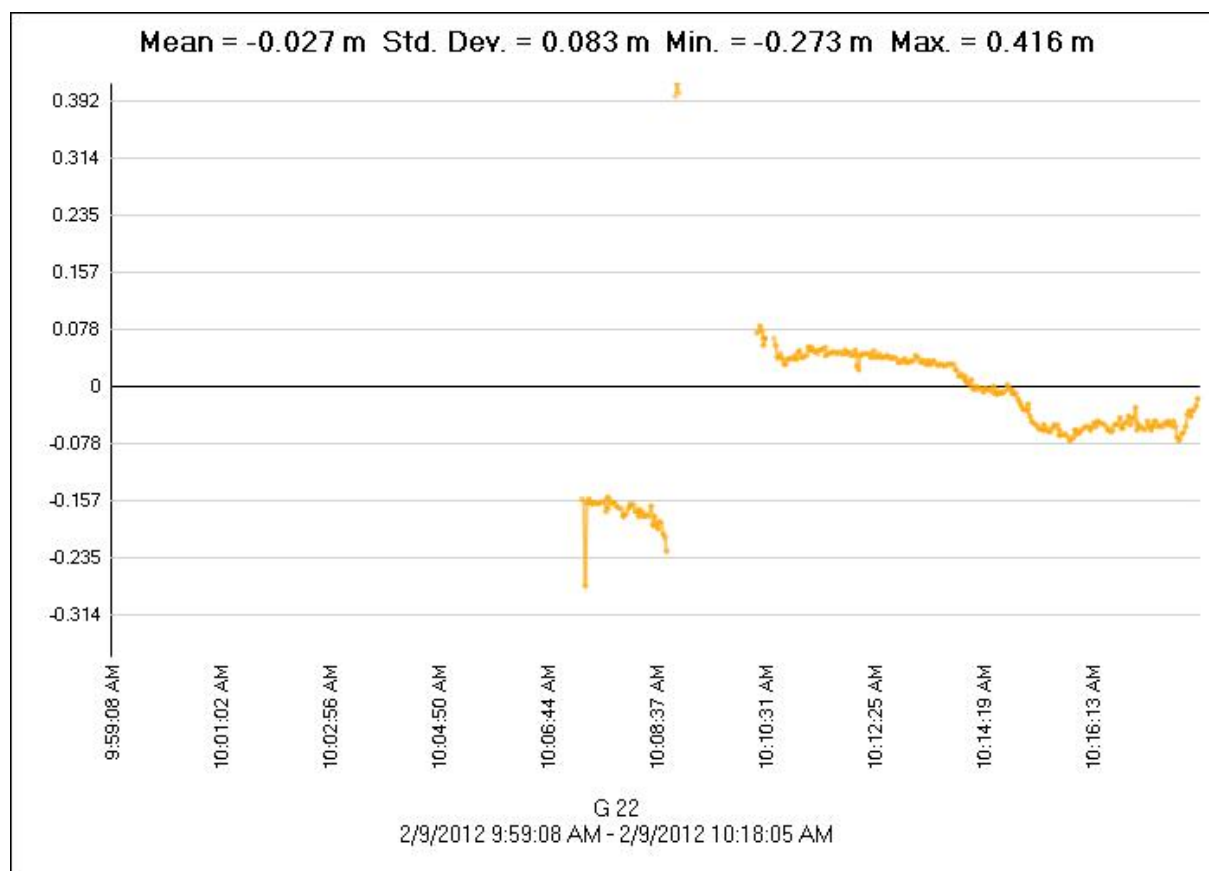
2/9/2012 9:59:08 AM - 2/9/2012 10:18:05 AM

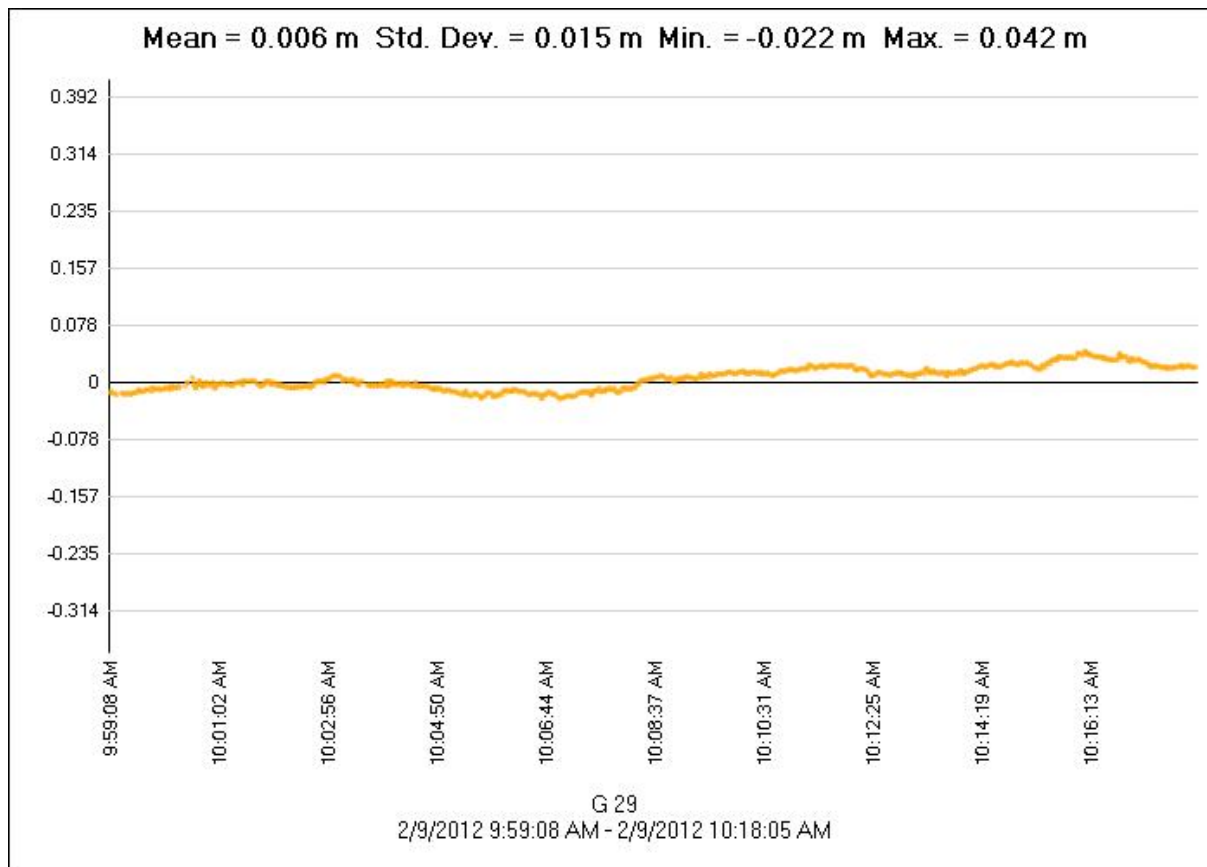
Mean = -0.004 m Std. Dev. = 0.007 m Min. = -0.022 m Max. = 0.012 m



G 21

2/9/2012 9:59:08 AM - 2/9/2012 10:18:05 AM





Processing style

Elevation mask:	10.0 deg
Auto start processing:	Yes
Start automatic ID numbering:	AUTO0001
Continuous vectors:	No
Generate residuals:	Yes
Antenna model:	Automatic
Ephemeris type:	Automatic
Frequency:	Dual Frequency (L1, L2)
Processing Interval:	Use all data
Force float:	No

Acceptance Criteria

Vector Component	Flag 	Fail 
Horizontal Precision >	0.050 m + 1.000 ppm	0.100 m + 1.000 ppm
Vertical Precision >	0.100 m + 1.000 ppm	0.200 m + 1.000 ppm

HH0162 - SVA12-B2 (10:30:54 AM-10:53:08 AM) (S71)

Baseline observation: HH0162 --- SVA12-B2 (B71)

Processed: 3/21/2012 10:59:24 AM

Solution type: Fixed

Frequency used: Dual Frequency (L1, L2)

Horizontal precision: 0.028 m

Vertical precision: 0.056 m

RMS: 0.010 m

Maximum PDOP: 2.882

Ephemeris used: Broadcast

Antenna model: US National Geodetic Survey Calibration

Processing start time: 2/9/2012 10:30:54 AM (Local: UTC-7hr)

Processing stop time: 2/9/2012 10:53:08 AM (Local: UTC-7hr)

Processing duration: 00:22:14

Processing interval: .5 second

Vector Components (Mark to Mark)

From:	HH0162				
Grid		Local		Global	
Easting	334883.094 m	Latitude	N37°57'51.89981"	Latitude	N37°57'51.89980"
Northing	4203533.480 m	Longitude	W100°52'46.80868"	Longitude	W100°52'46.80868"
Elevation	875.739 m	Height	850.245 m	Height	850.245 m

To:	SVA12-B2				
Grid		Local		Global	
Easting	357398.775 m	Latitude	N38°08'51.12135"	Latitude	N38°08'51.12135"
Northing	4223435.539 m	Longitude	W100°37'38.72152"	Longitude	W100°37'38.72152"
Elevation	866.269 m	Height	840.915 m	Height	840.915 m

Vector					
9Ughb[	22515.682 m	NS Fwd Azimuth	47°22'02"	L	24092.082 m
Bcfh\jb[	19902.059 m	Ellipsoid Dist.	30053.998 m	M	8186.827 m
9`Yj Uhcb	-9.470 m	<Y][\h	-9.329 m	N	16000.886 m

Standard Errors

Vector errors:					
Point ID	0.007 m	Point ID	0°00'00"	Point ID	0.009 m
Point ID	0.012 m	Point ID	0.009 m	Point ID	0.026 m
Point ID	0.028 m	Point ID	0.028 m	Point ID	0.015 m

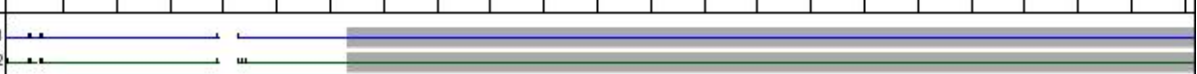


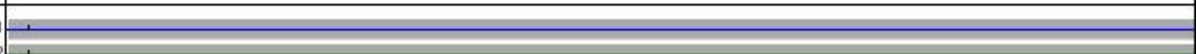
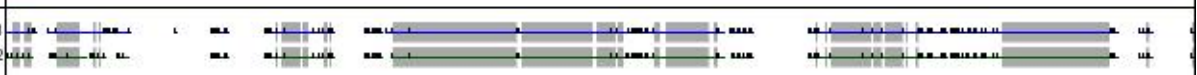


Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0000836121		
Y	0.0001379974	0.0006793256	
Z	-0.0000729741	-0.0002808086	0.0002356834

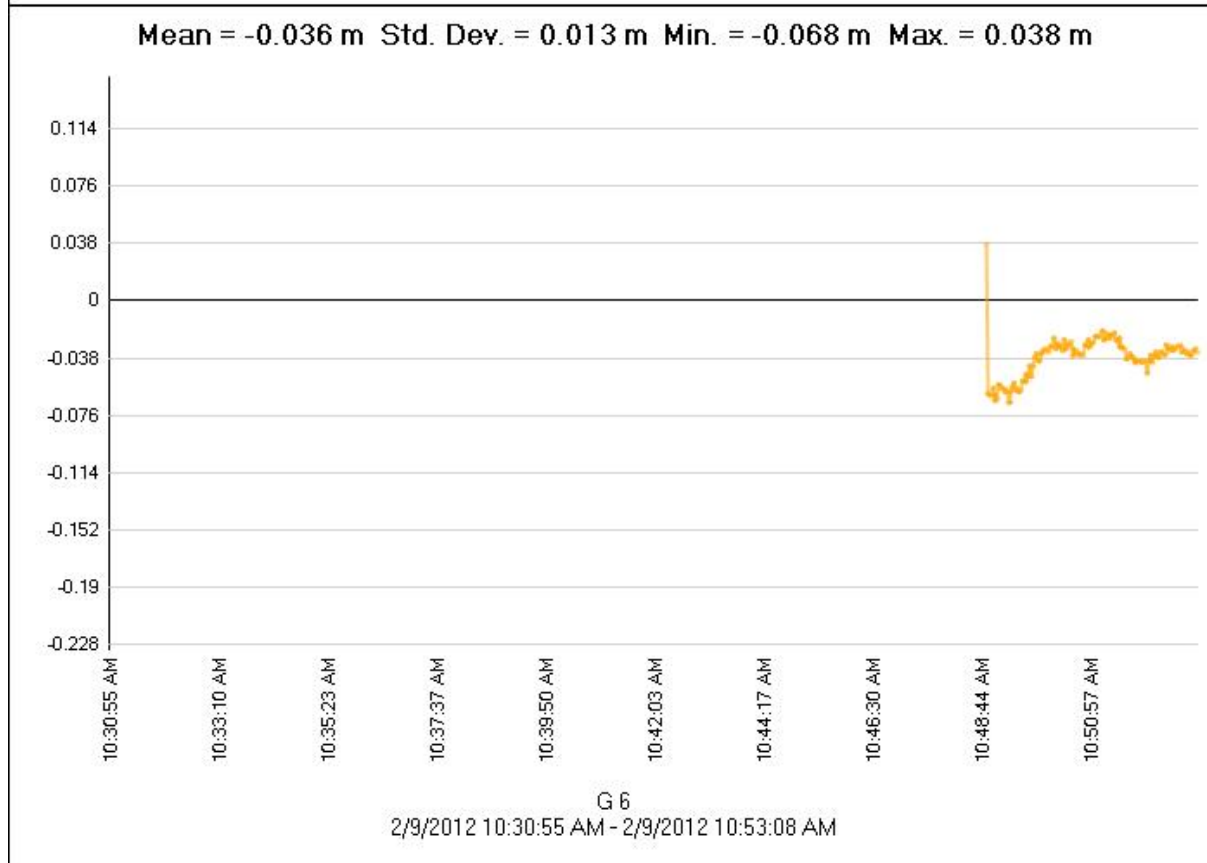
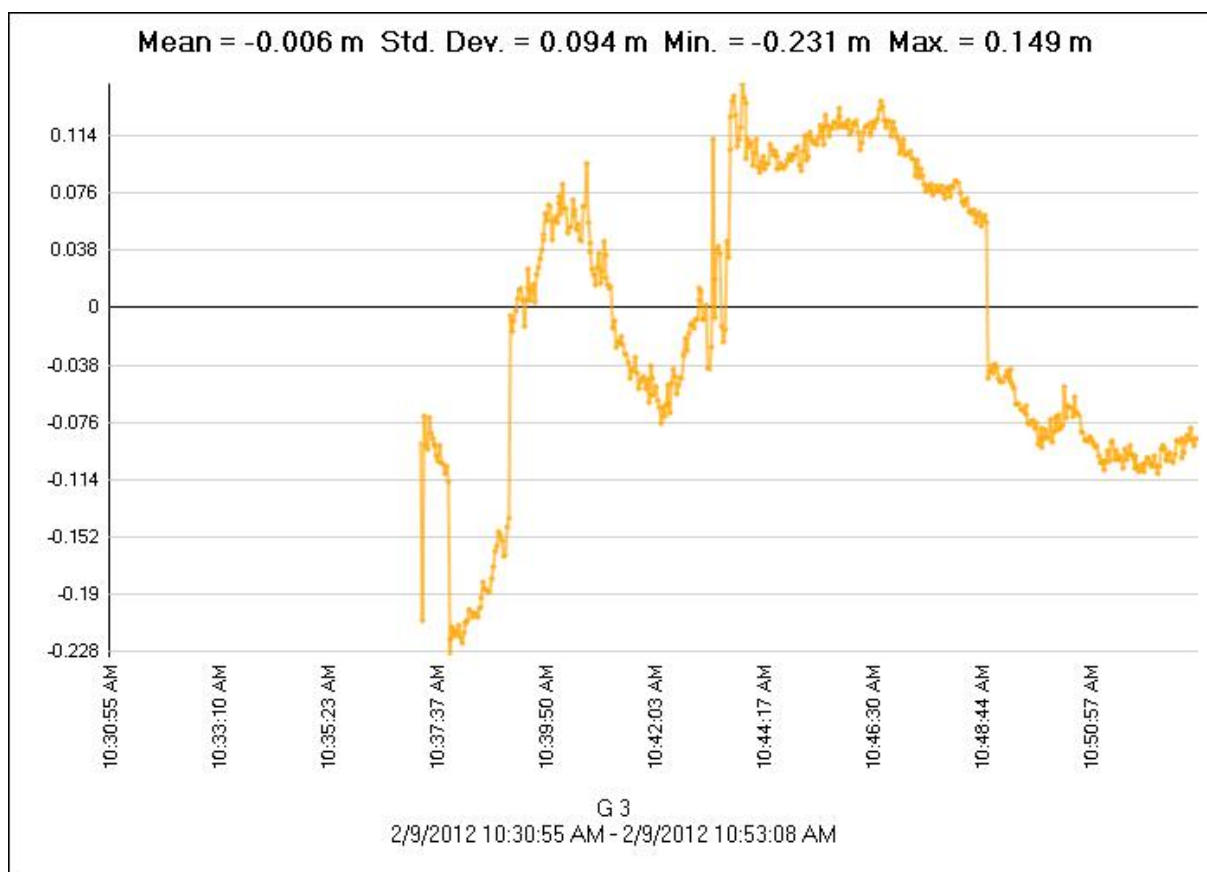
Occupations

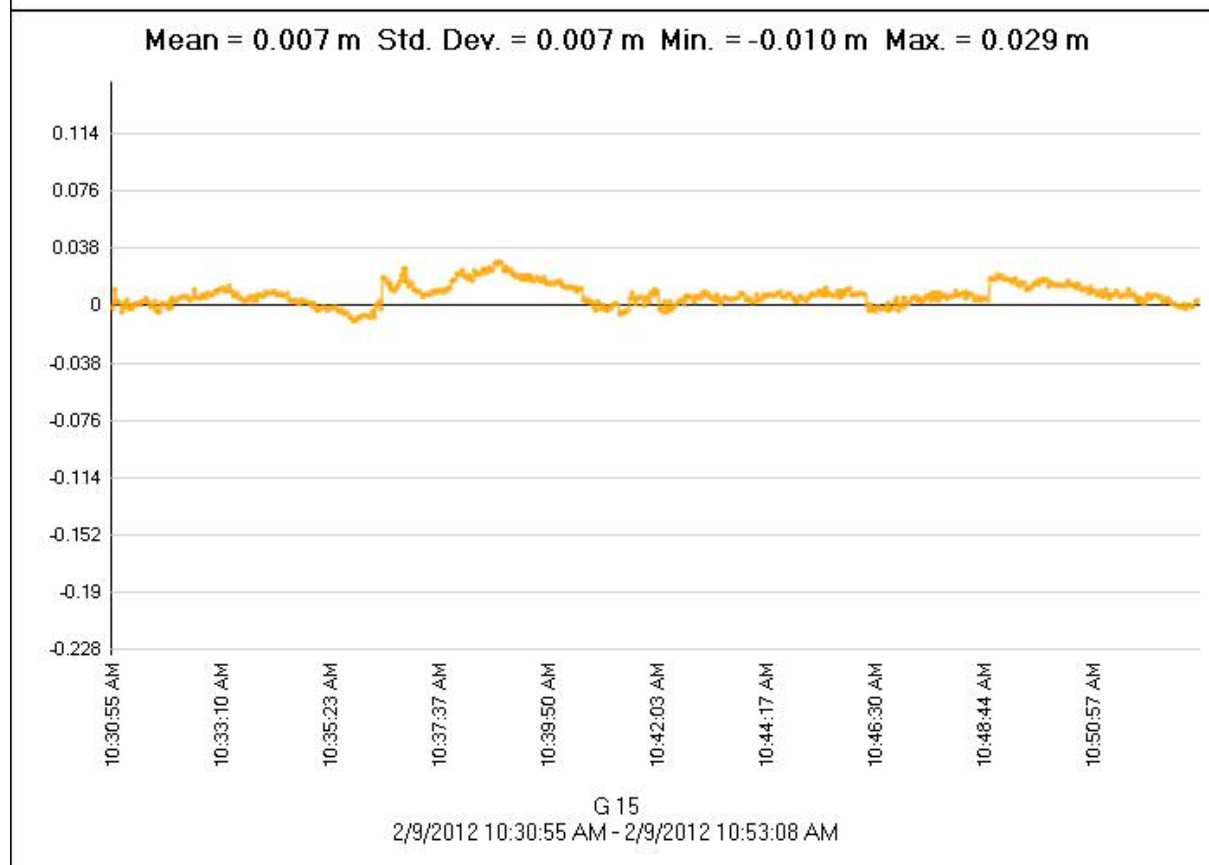
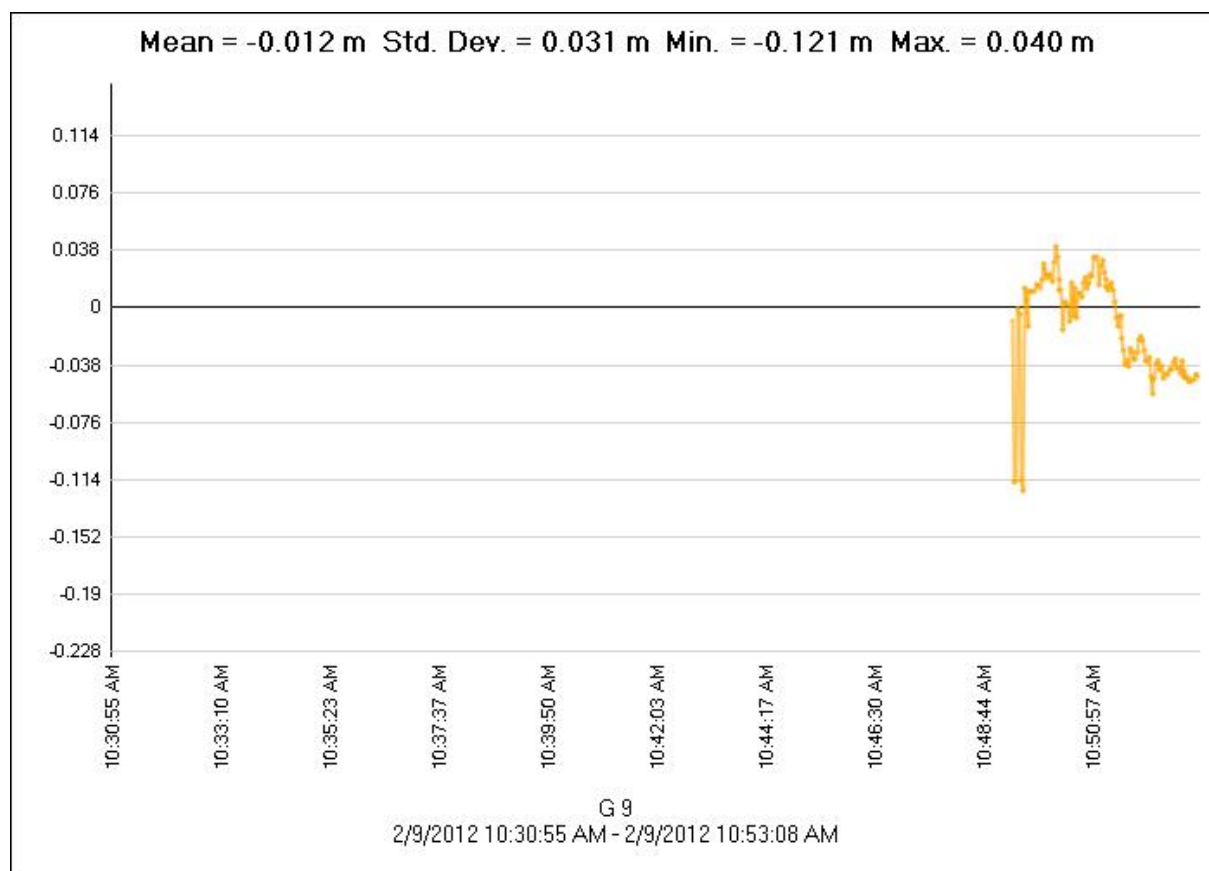
	From	To
Point ID:	HH0162	SVA12-B2
Data file:	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00010400.12o	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00080405.12o
Receiver type:	Unknown	Unknown
Receiver serial number:		
Antenna type:	Unknown External	Unknown External
Antenna serial number:	-----	-----
Antenna height (measured):	1.565 m	2.065 m
Antenna method:	Antenna Phase Center	Antenna Phase Center

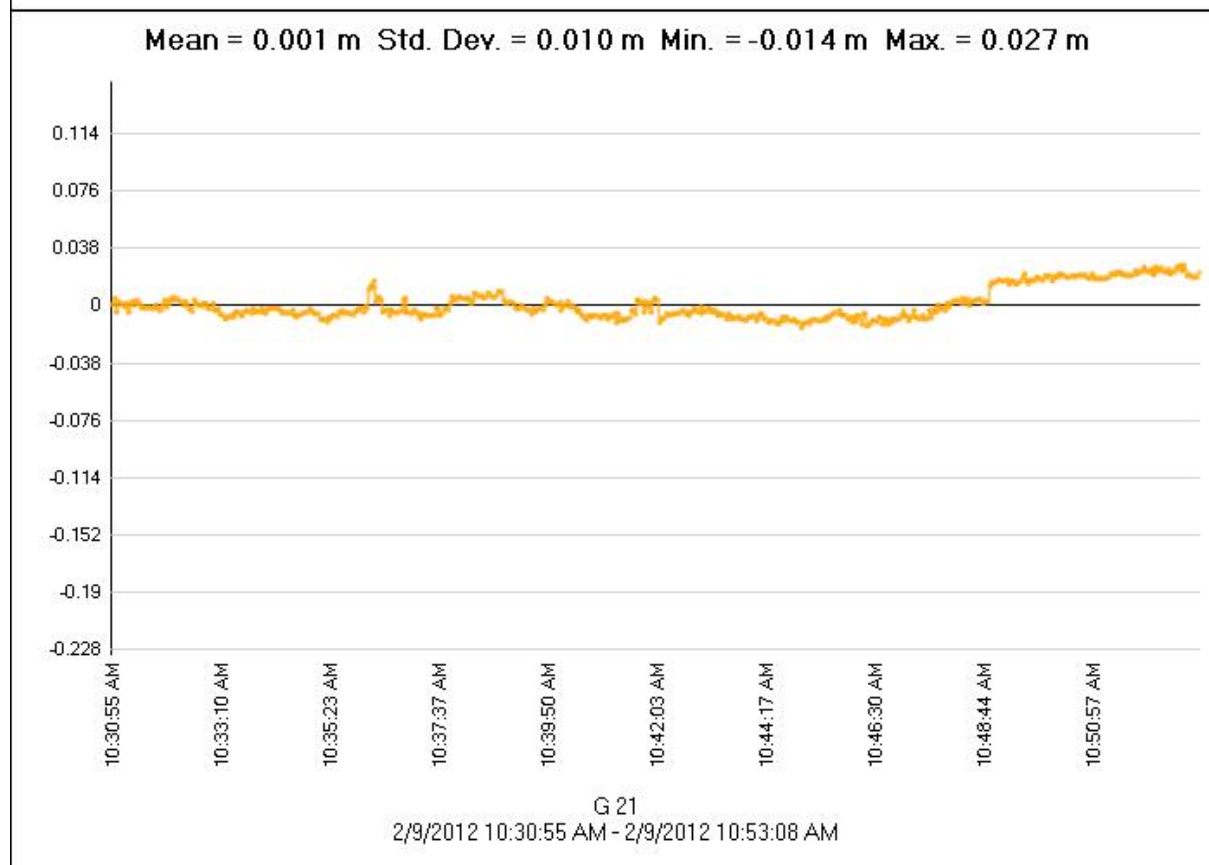
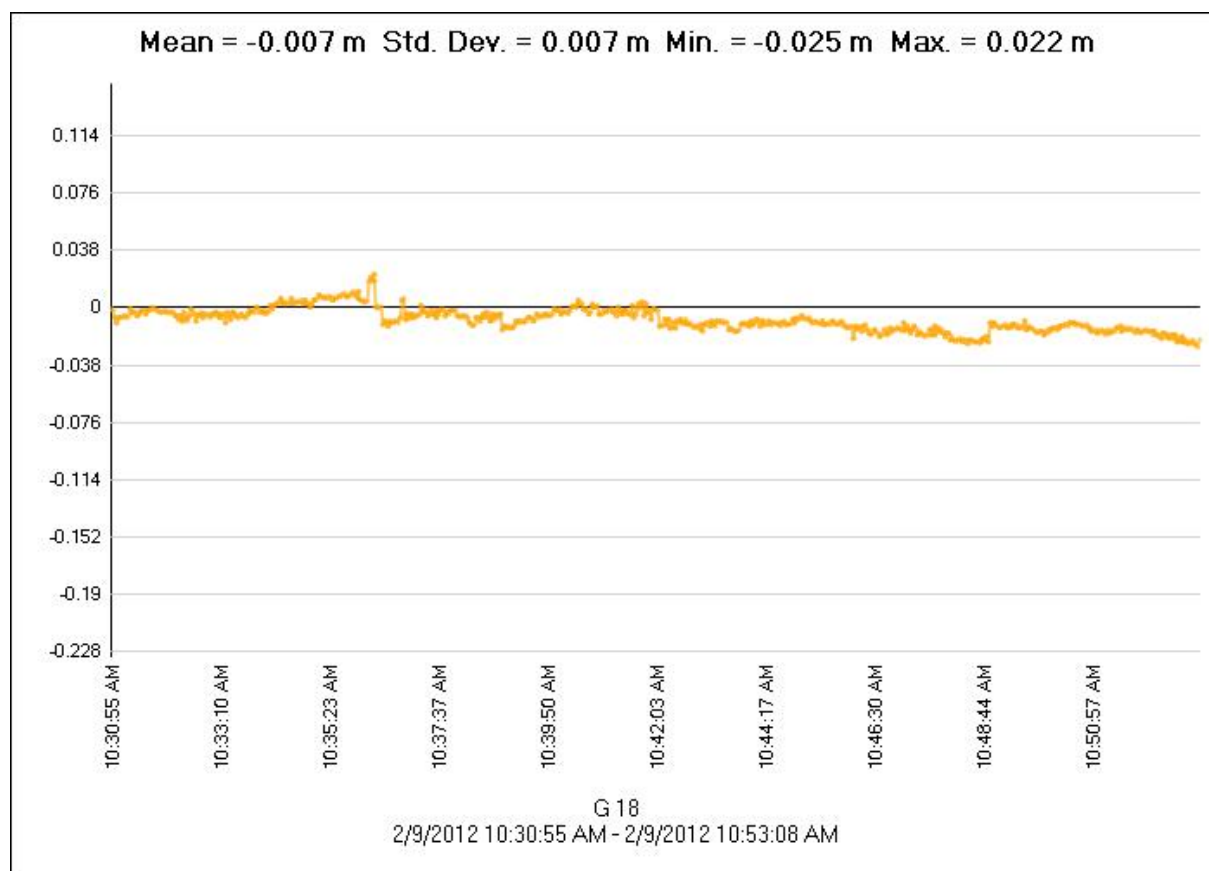
Tracking Summary

SV	2/9/2012 10:30:54 AM	Duration: 00:22:14	Major interval: 00:01:00	2/9/2012 10:53:08 AM
G 3	L1 L2			
G 5	L1 L2			
G 6	L1 L2			
G 9	L1 L2			
G 15	L1 L2			
G 16	L1 L2			
G 18	L1 L2			
G 21	L1 L2			
G 22	L1 L2			
G 26	L1 L2			
G 27	L1 L2			
G 29	L1 L2			
G 30	L1 L2			

Residuals







Mean = 0.032 m Std. Dev. = 0.043 m Min. = -0.043 m Max. = 0.120 m



G 22

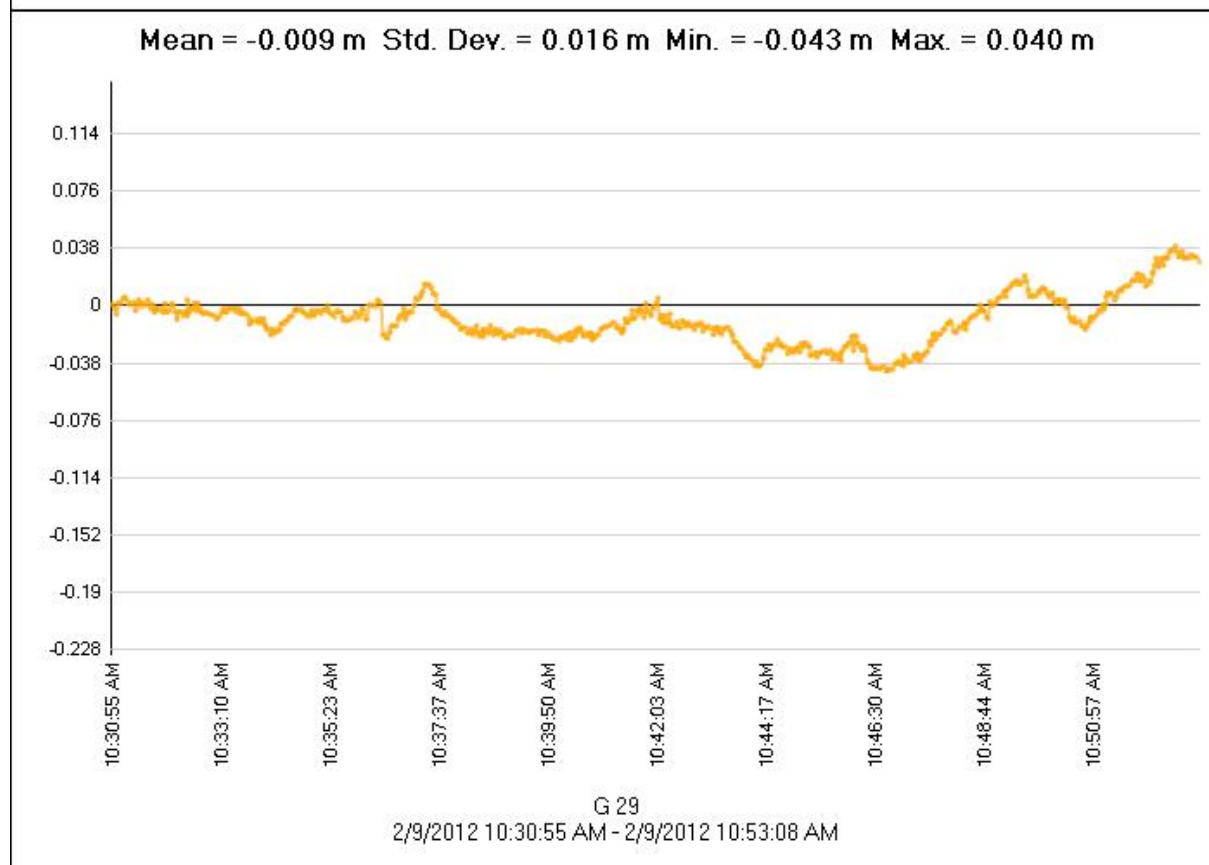
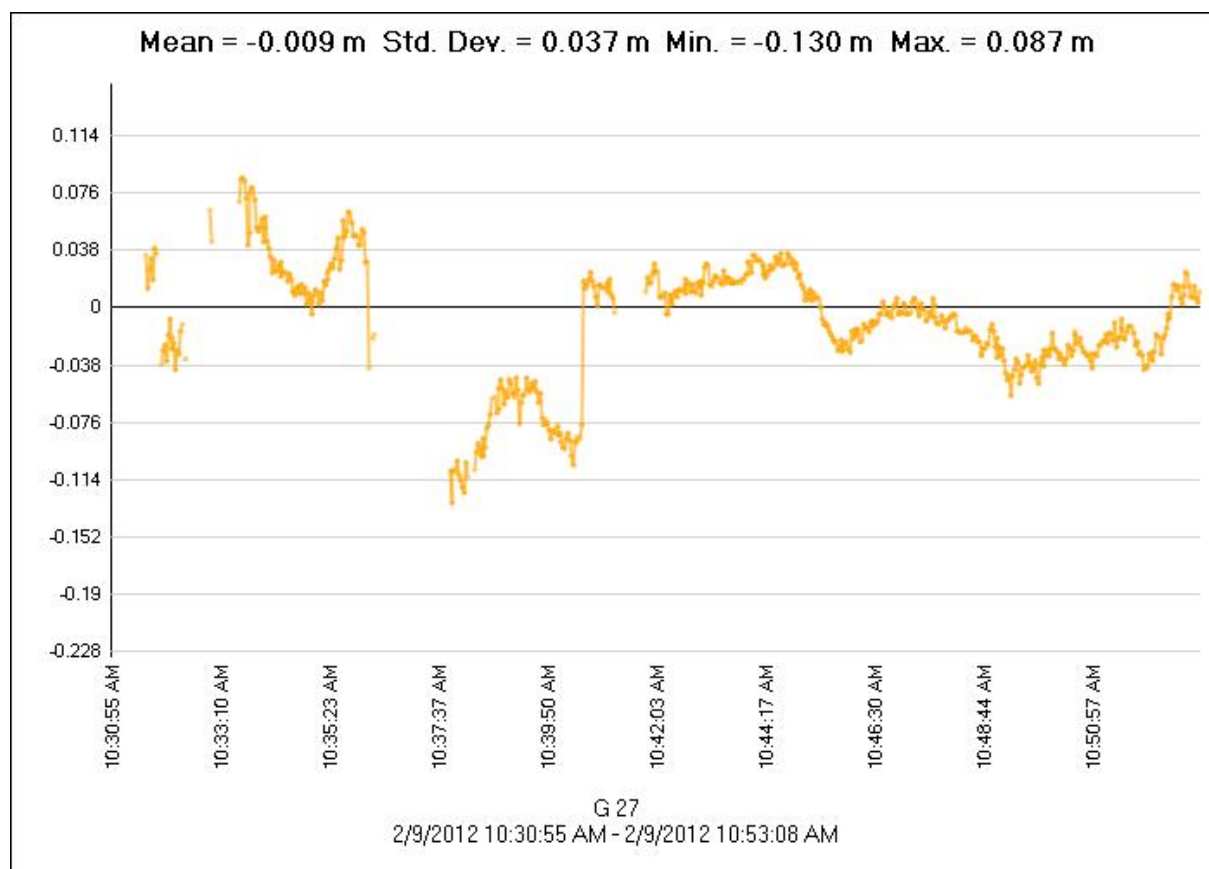
2/9/2012 10:30:55 AM - 2/9/2012 10:53:08 AM

Mean = 0.009 m Std. Dev. = 0.041 m Min. = -0.113 m Max. = 0.128 m



G 26



2/9/2012 10:30:55 AM - 2/9/2012 10:53:08 AM



Processing style

Elevation mask:	10.0 deg
Auto start processing:	Yes
Start automatic ID numbering:	AUTO0001
Continuous vectors:	No
Generate residuals:	Yes
Antenna model:	Automatic
Ephemeris type:	Automatic
Frequency:	Dual Frequency (L1, L2)
Processing Interval:	Use all data
Force float:	No

Acceptance Criteria

Vector Component	Flag 	Fail 
Horizontal Precision >	0.050 m + 1.000 ppm	0.100 m + 1.000 ppm
Vertical Precision >	0.100 m + 1.000 ppm	0.200 m + 1.000 ppm

HH0162 - FVA45-B2-OLD (11:25:29 AM-11:47:07 AM) (S72)

Baseline observation: HH0162 --- FVA45-B2-OLD (B72)

Processed: 3/21/2012 10:59:26 AM

Solution type: Fixed

Frequency used: Dual Frequency (L1, L2)

Horizontal precision: 0.015 m

Vertical precision: 0.017 m

RMS: 0.008 m

Maximum PDOP: 2.022

Ephemeris used: Broadcast

Antenna model: US National Geodetic Survey Calibration

Processing start time: 2/9/2012 11:25:29 AM (Local: UTC-7hr)

Processing stop time: 2/9/2012 11:47:07 AM (Local: UTC-7hr)

Processing duration: 00:21:37

Processing interval: .5 second

Vector Components (Mark to Mark)

From:	HH0162				
Grid		Local		Global	
Easting	334883.094 m	Latitude	N37°57'51.89981"	Latitude	N37°57'51.89980"
Northing	4203533.480 m	Longitude	W100°52'46.80868"	Longitude	W100°52'46.80868"
Elevation	875.739 m	Height	850.245 m	Height	850.245 m

To:	FVA45-B2-OLD				
Grid		Local		Global	
Easting	376464.356 m	Latitude	N38°04'34.10671"	Latitude	N38°04'34.10671"
Northing	4215199.573 m	Longitude	W100°24'30.52062"	Longitude	W100°24'30.52062"
Elevation	844.816 m	Height	819.208 m	Height	819.208 m

Vector					
9Ughb[	41581.262 m	NS Fwd Azimuth	73°10'12"	L	42083.289 m
Bcfh\jb[	11666.093 m	Ellipsoid Dist.	43192.913 m	M	-111.330 m
9Yj Uhcb	-30.923 m	<Y][\h	-31.036 m	N	9751.606 m

Standard Errors

Vector errors:					
Point ID	0.003 m	Point Description	0°00'00"	Point Type	0.004 m
Point ID	0.006 m	Point Description	0.003 m	Point Type	0.006 m
Point ID	0.009 m	Point Description	0.009 m	Point Type	0.009 m

Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0000163643		
Y	0.0000138452	0.0000326945	
Z	-0.0000223002	-0.0000216629	0.0000749289

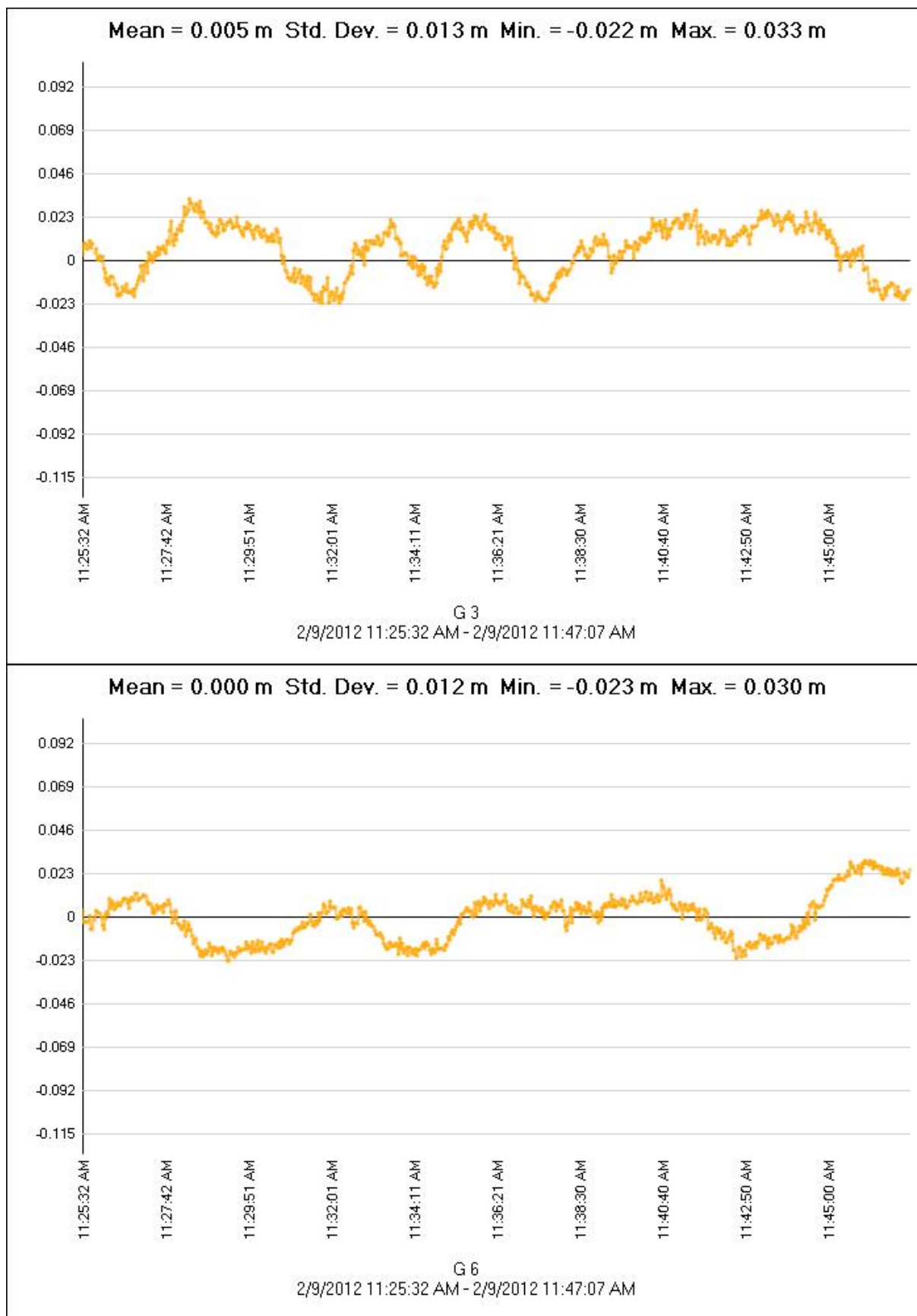
Occupations

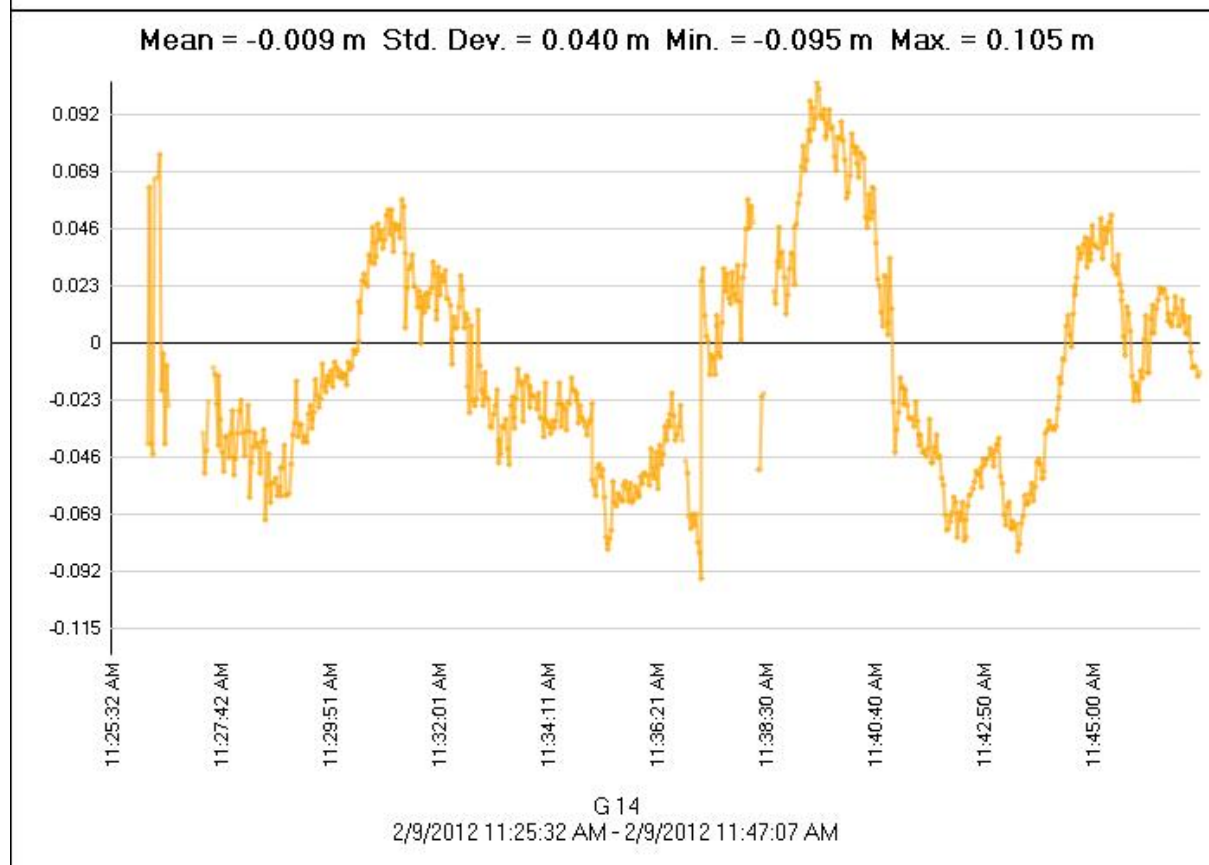
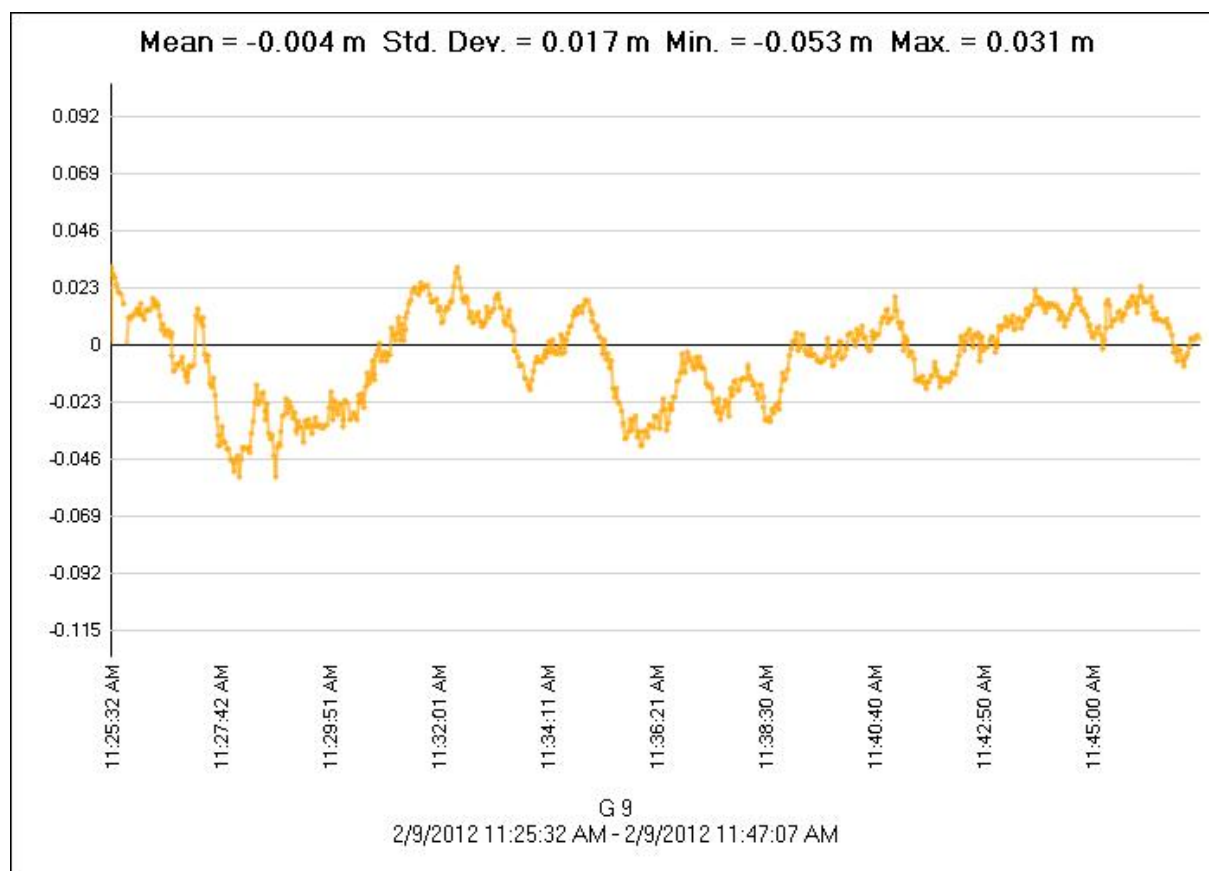
	From	To
Point ID:	HH0162	FVA45-B2-OLD
Data file:	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00010400.12o	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00080406.12o
Receiver type:	Unknown	Unknown
Receiver serial number:		
Antenna type:	Unknown External	Unknown External
Antenna serial number:	-----	-----
Antenna height (measured):	1.565 m	2.065 m
Antenna method:	Antenna Phase Center	Antenna Phase Center

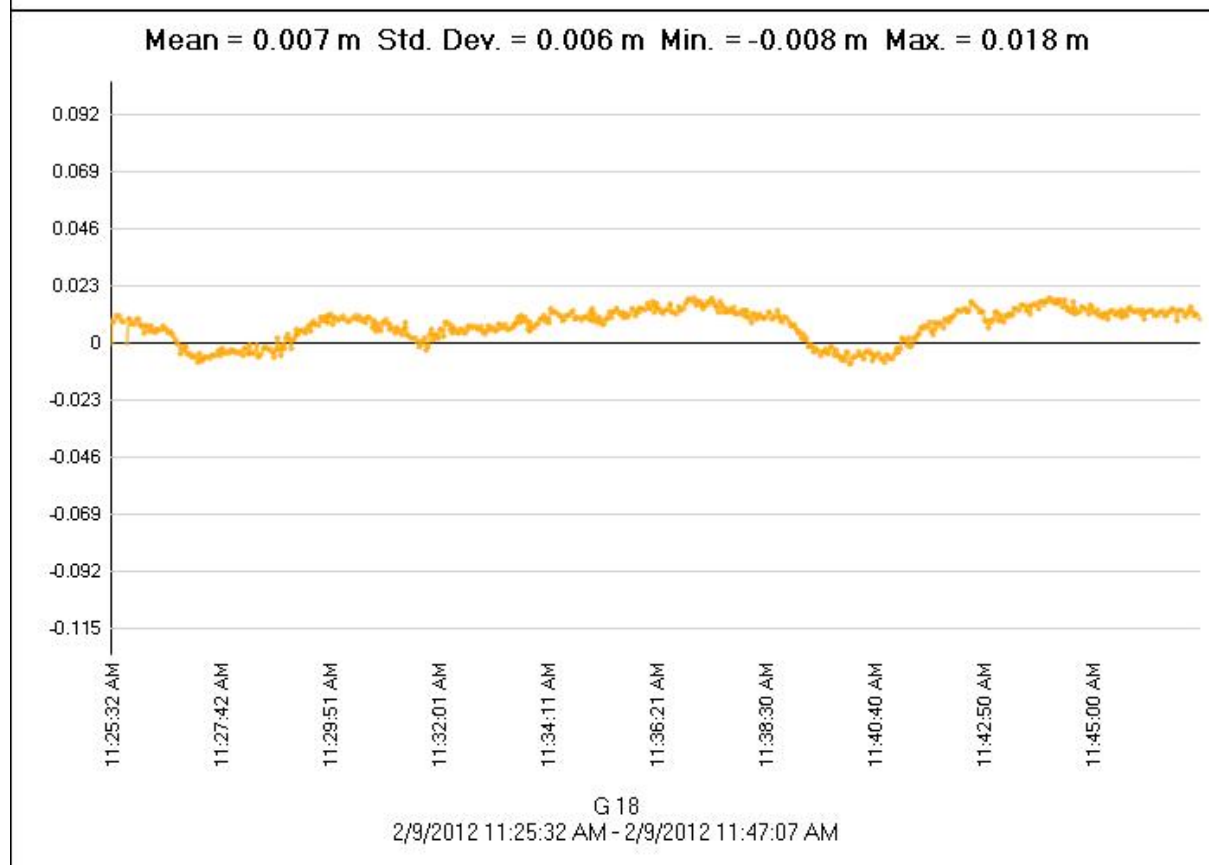
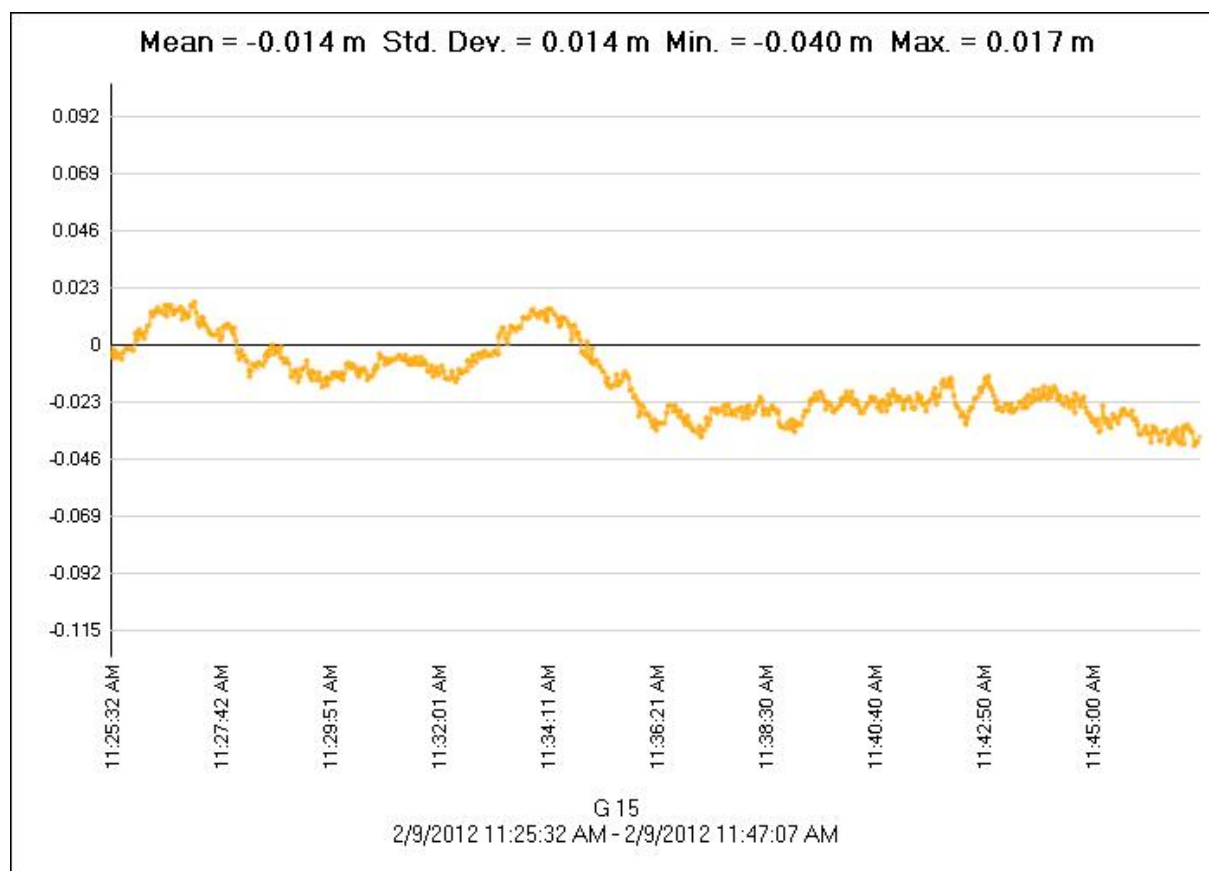
Tracking Summary

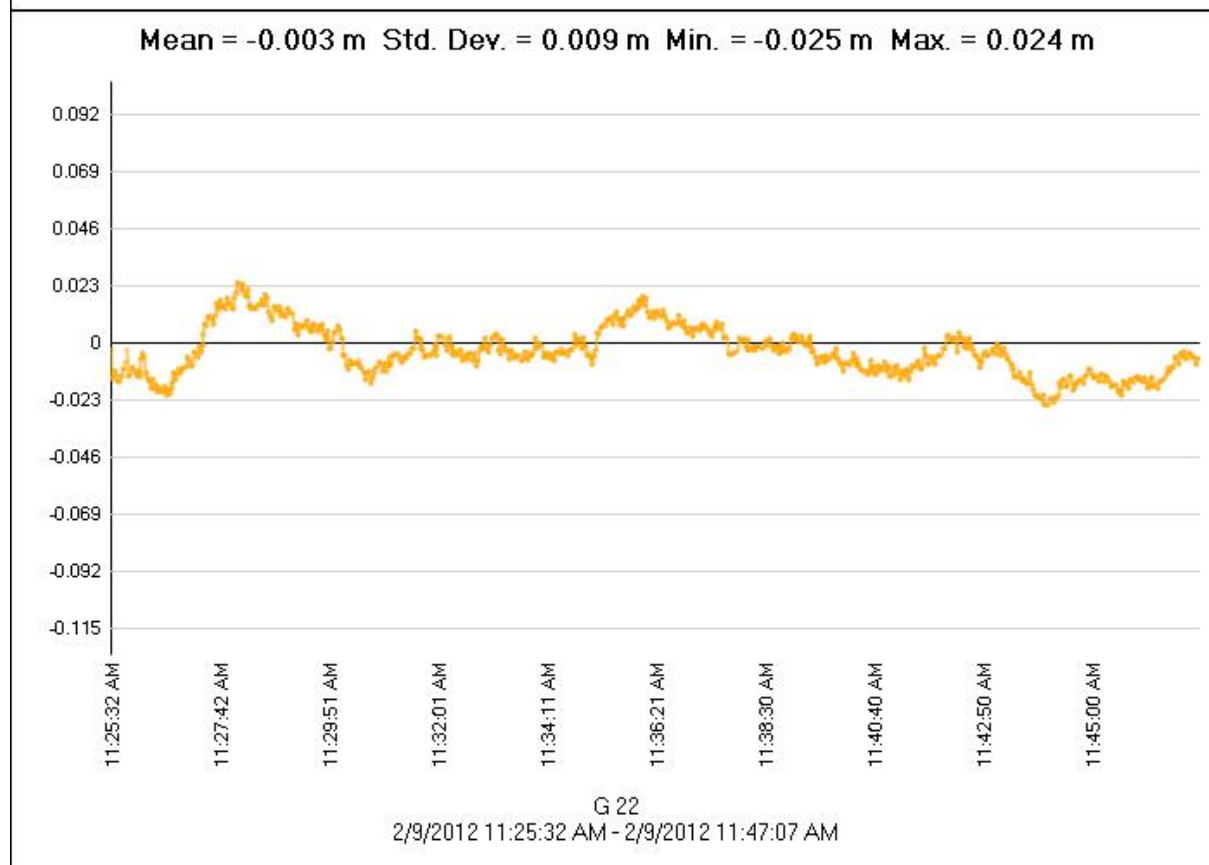
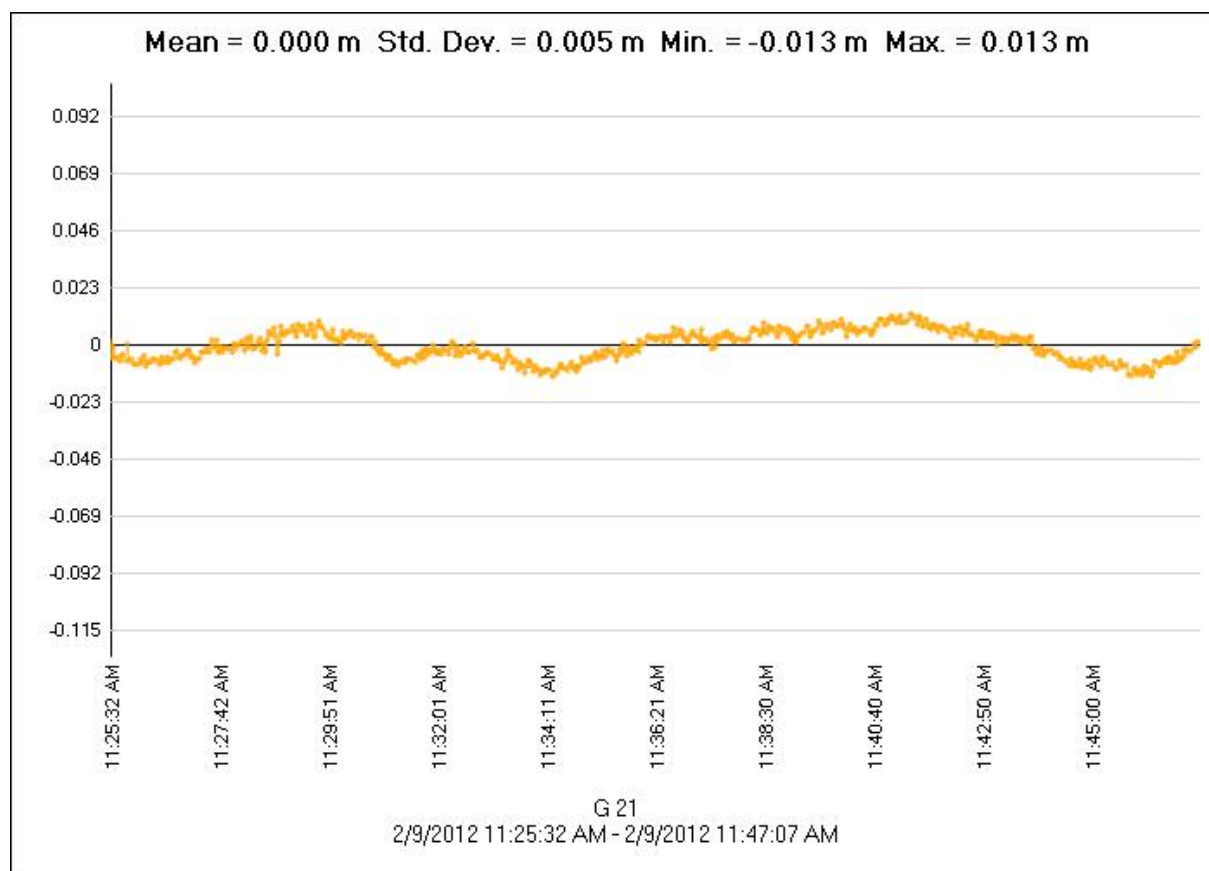
SV	2/9/2012 11:25:29 AM	Duration: 00:21:37.5000000	Major interval: 00:01:00	2/9/2012 11:47:07 AM
G 3	L1 L2			
G 6	L1 L2			
G 9	L1 L2			
G 14	L1 L2			
G 15	L1 L2			
G 18	L1 L2			
G 19	L1 L2			
G 21	L1 L2			
G 22	L1 L2			
G 26	L1 L2			
G 27	L1 L2			
G 29	L1 L2			

Residuals

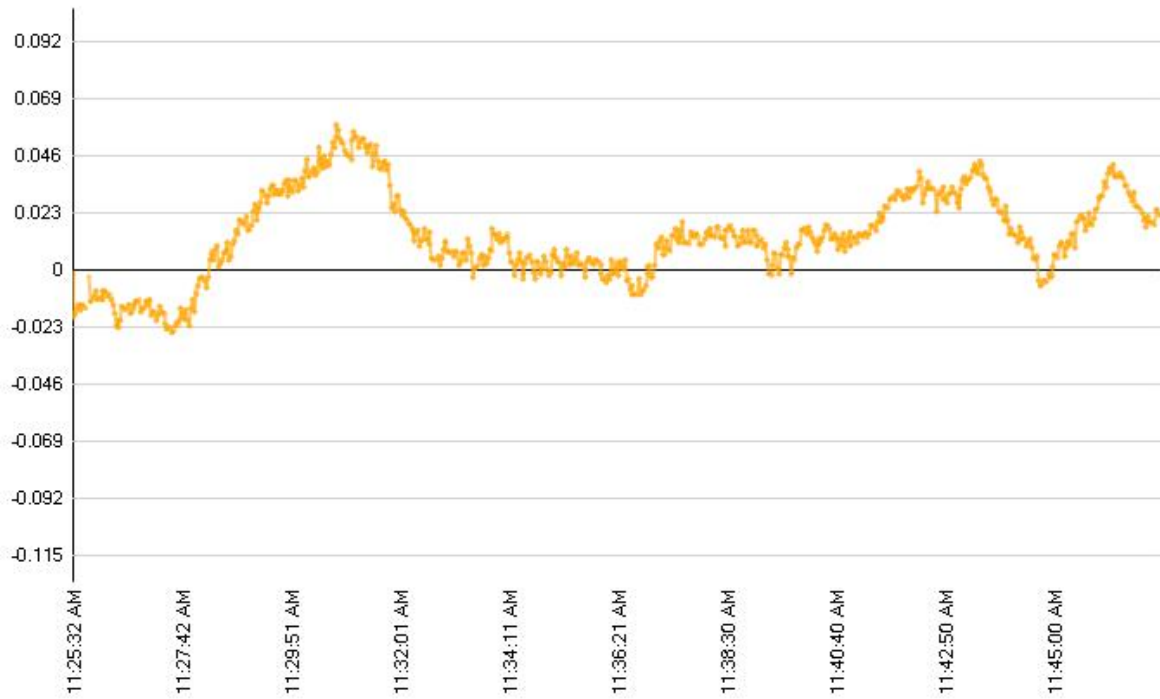








Mean = 0.013 m Std. Dev. = 0.017 m Min. = -0.025 m Max. = 0.058 m



G 27

2/9/2012 11:25:32 AM - 2/9/2012 11:47:07 AM

Mean = -0.021 m Std. Dev. = 0.046 m Min. = -0.124 m Max. = 0.065 m



G 29

2/9/2012 11:25:32 AM - 2/9/2012 11:47:07 AM

Processing style

Elevation mask:10.0 deg

Auto start processing:Yes

Start automatic ID numbering:AUTO0001

Continuous vectors:No

Generate residuals:Yes

Antenna model:Automatic



Ephemeris type:Automatic

Frequency: Dual Frequency (L1, L2)

Processing Interval:Use all data

Force float:No

Acceptance Criteria

Vector Component	Flag 	Fail 
Horizontal Precision >	0.050 m + 1.000 ppm	0.100 m + 1.000 ppm
Vertical Precision >	0.100 m + 1.000 ppm	0.200 m + 1.000 ppm

HH0162 - SVA45-B2 (11:50:58 AM-12:12:30 PM) (S73)

Baseline observation: HH0162 --- SVA45-B2 (B73)

Processed: 3/21/2012 10:59:33 AM

Solution type: Fixed

Frequency used: Dual Frequency (L1, L2)

Horizontal precision: 0.041 m

Vertical precision: 0.040 m

RMS: 0.012 m

Maximum PDOP: 2.522

Ephemeris used: Broadcast

Antenna model: US National Geodetic Survey Calibration

Processing start time: 2/9/2012 11:50:58 AM (Local: UTC-7hr)

Processing stop time: 2/9/2012 12:12:30 PM (Local: UTC-7hr)

Processing duration: 00:21:32

Processing interval: .5 second

Vector Components (Mark to Mark)

From:	HH0162				
Grid		Local		Global	
Easting	334883.094 m	Latitude	N37°57'51.89981"	Latitude	N37°57'51.89980"
Northing	4203533.480 m	Longitude	W100°52'46.80868"	Longitude	W100°52'46.80868"
Elevation	875.739 m	Height	850.245 m	Height	850.245 m

To:	SVA45-B2				
Grid		Local		Global	
Easting	376443.780 m	Latitude	N38°04'34.43642"	Latitude	N38°04'34.43642"
Northing	4215210.050 m	Longitude	W100°24'31.37143"	Longitude	W100°24'31.37143"
Elevation	844.405 m	Height	818.798 m	Height	818.798 m

Vector					
9Ughb[	41560.687 m	NS Fwd Azimuth	73°08'58"	L	42064.083 m
BcfA\jb[	11676.570 m	Ellipsoid Dist.	43175.931 m	M	-101.098 m
9Yj Uhcb	-31.334 m	<Y][\h	-31.447 m	N	9759.356 m

Standard Errors

Vector errors:					
Point ID	0.008 m	Point Description	0°00'00"	Point Type	0.010 m
Point ID	0.017 m	Point Description	0.010 m	Point Type	0.019 m
Point ID	0.020 m	Point Description	0.020 m	Point Type	0.018 m

Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0001028140		
Y	0.0001139088	0.0003460582	
Z	-0.0000367183	-0.0000579620	0.0003097140

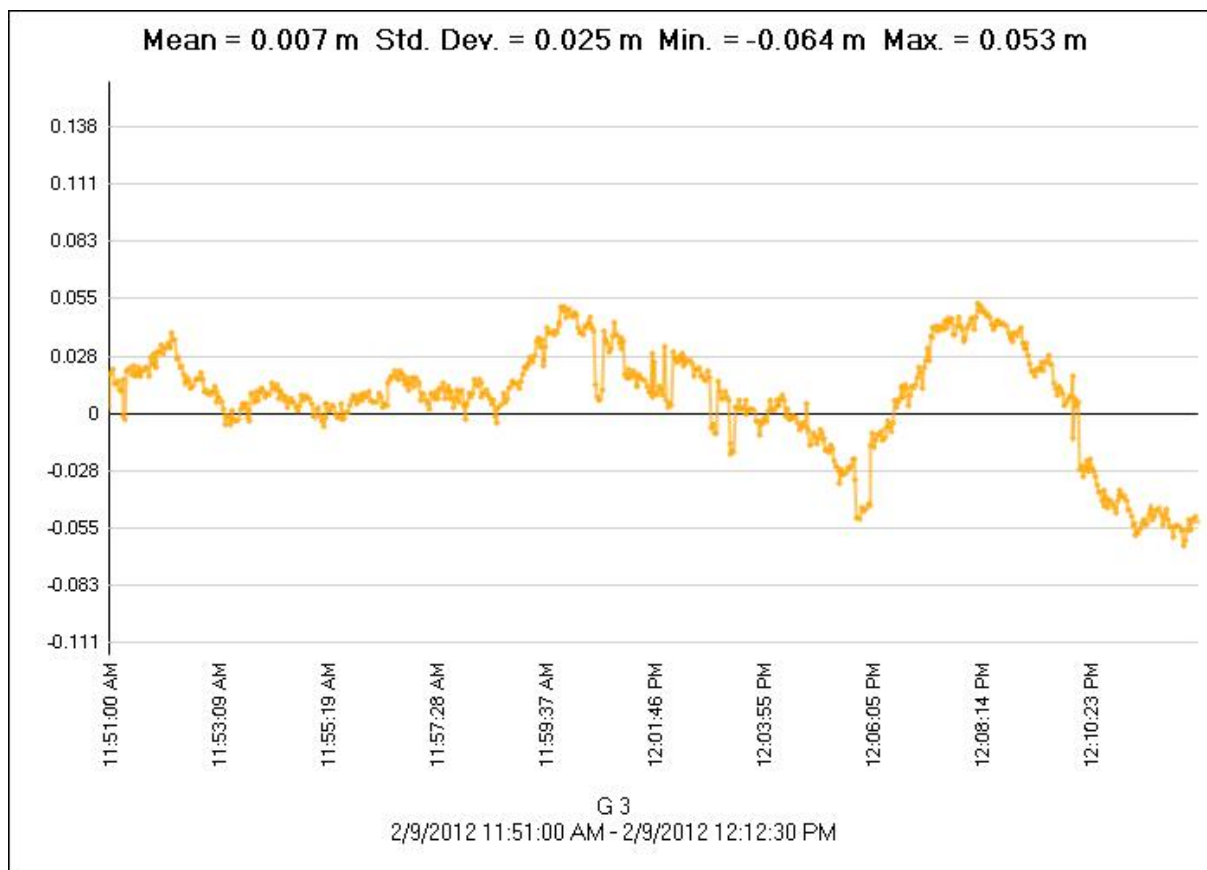
Occupations

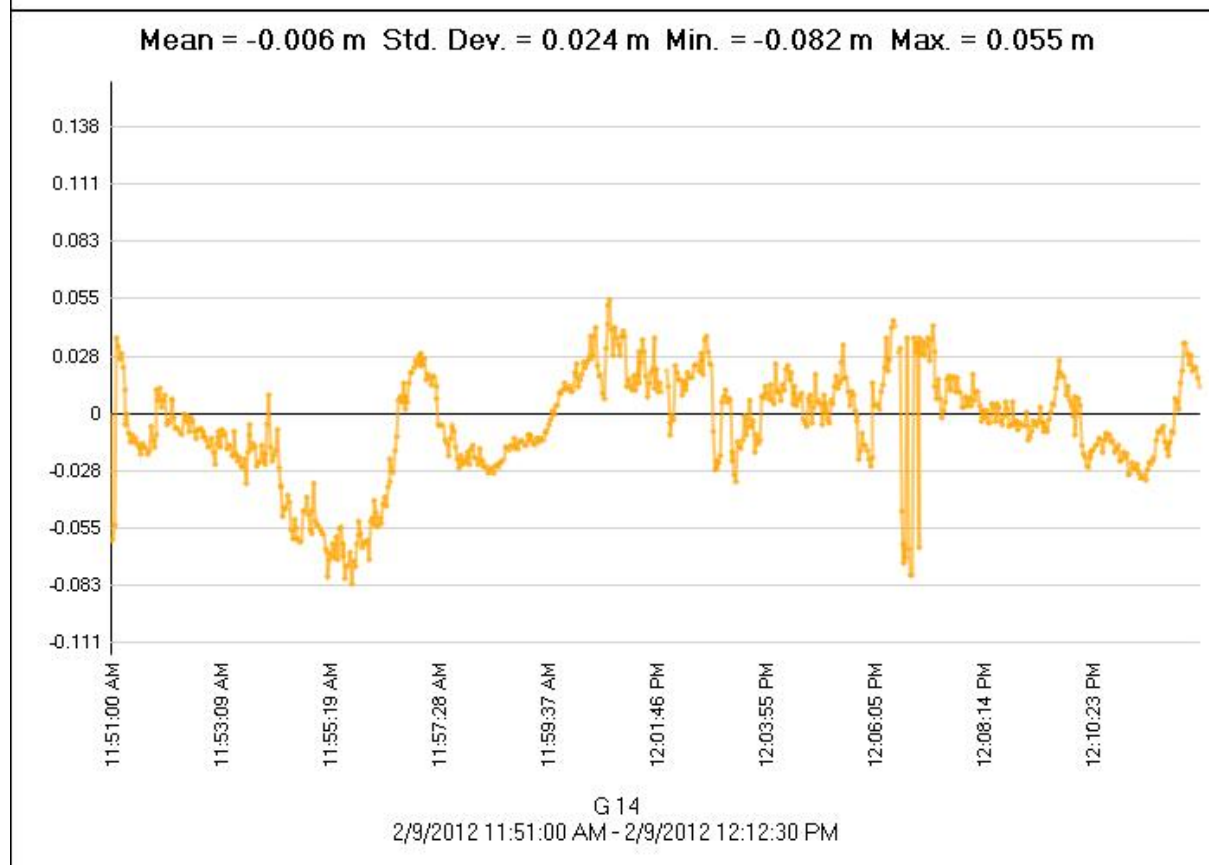
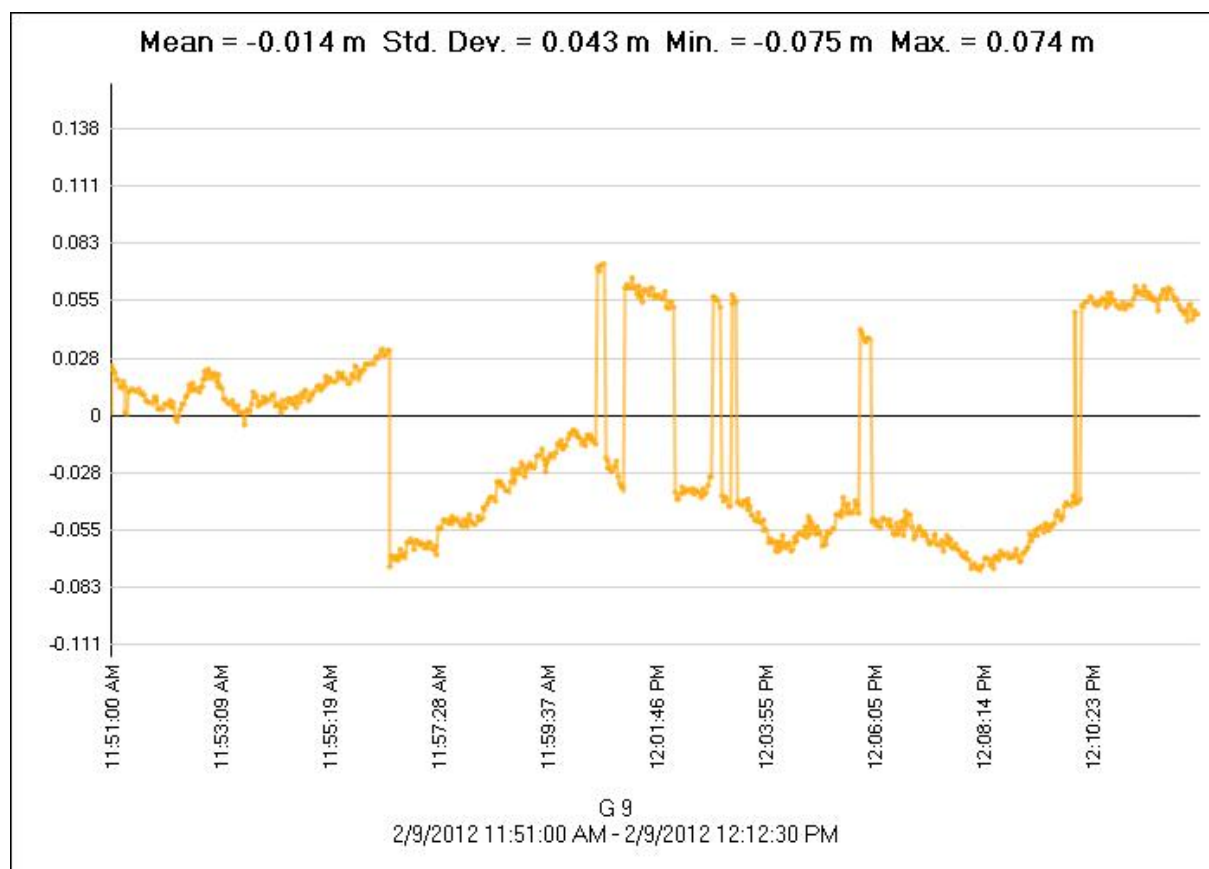
	From	To
Point ID:	HH0162	SVA45-B2
Data file:	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00010400.12o	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00080407.12o
Receiver type:	Unknown	Unknown
Receiver serial number:		
Antenna type:	Unknown External	Unknown External
Antenna serial number:	-----	-----
Antenna height (measured):	1.565 m	2.065 m
Antenna method:	Antenna Phase Center	Antenna Phase Center

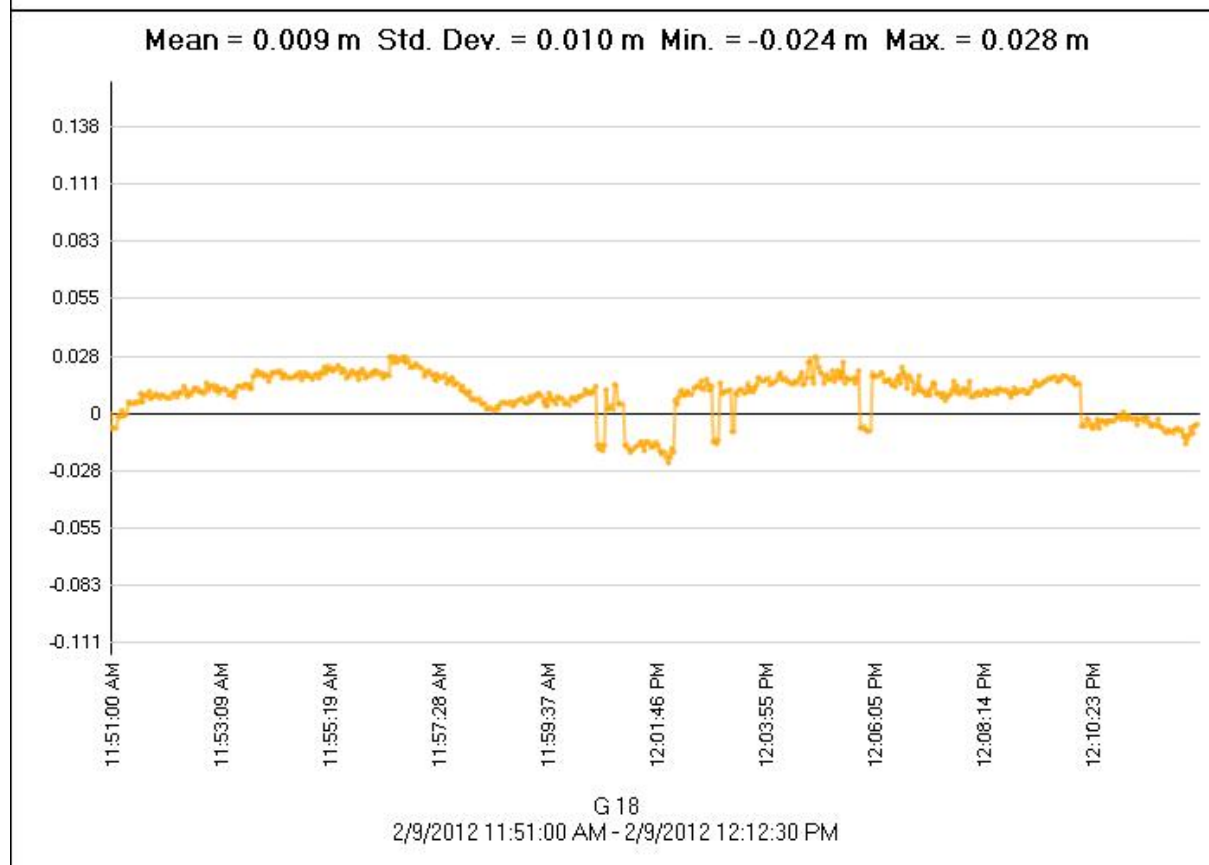
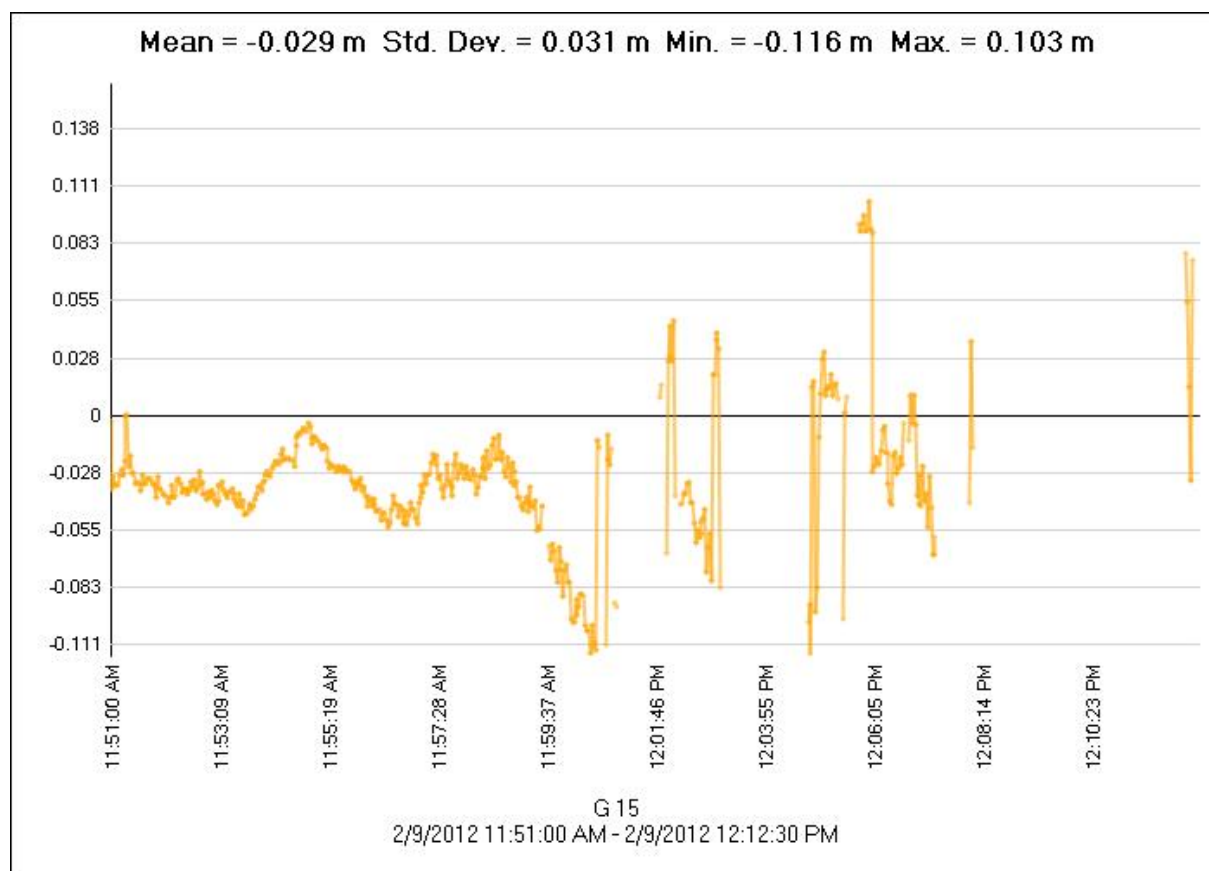
Tracking Summary

SV	2/9/2012 11:50:58 AM	Duration: 00:21:32	Major interval: 00:01:00	2/9/2012 12:12:30 PM
G 3	L1			
	L2			
G 6	L1			
	L2			
G 9	L1			
	L2			
G 14	L1			
	L2			
G 15	L1			
	L2			
G 18	L1			
	L2			
G 19	L1			
	L2			
G 21	L1			
	L2			
G 22	L1			
	L2			
G 27	L1			
	L2			
G 29	L1			
	L2			

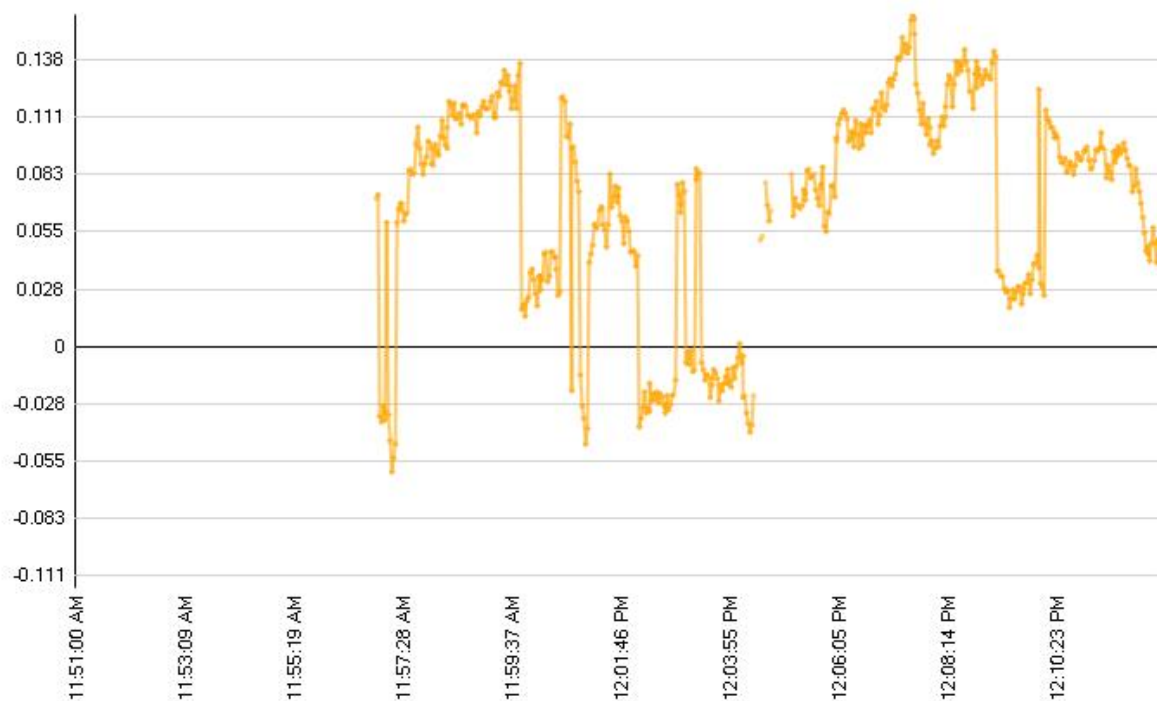
Residuals







Mean = 0.066 m Std. Dev. = 0.052 m Min. = -0.060 m Max. = 0.161 m



G 19

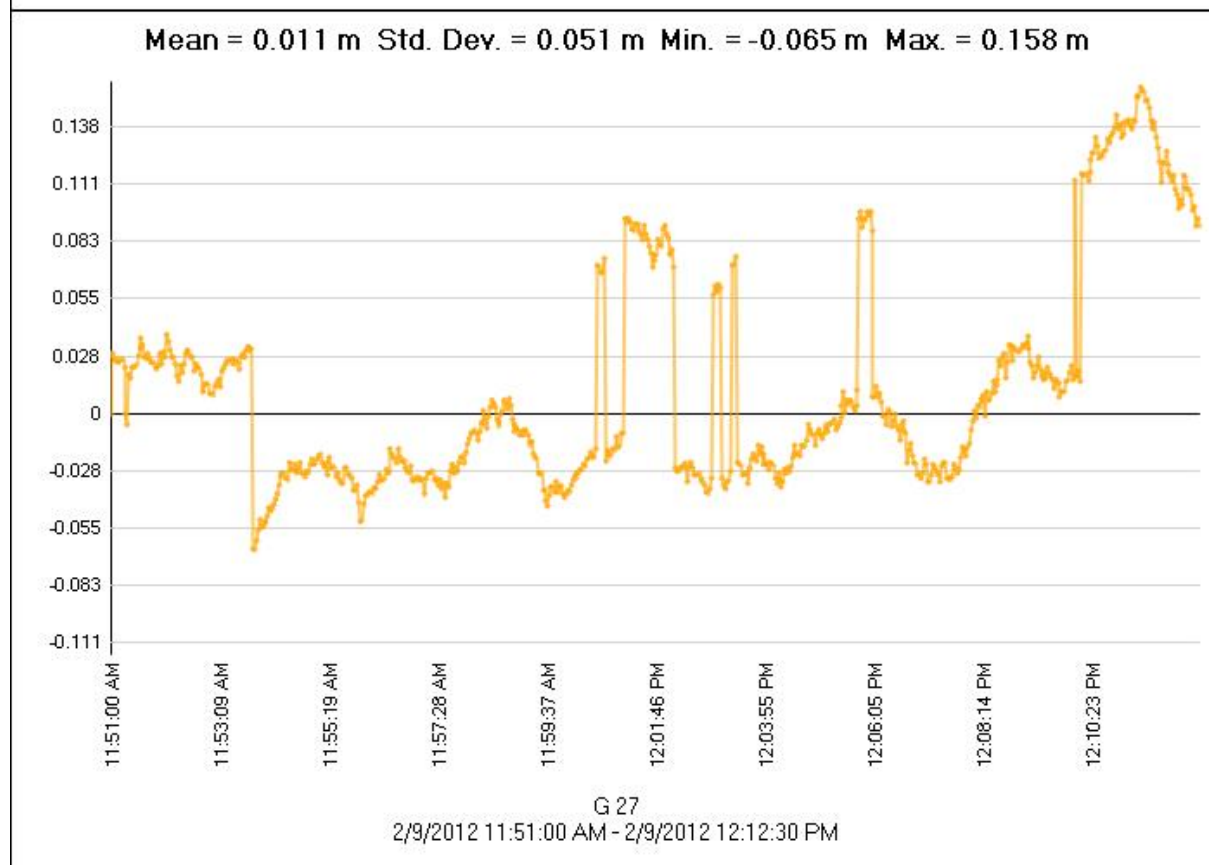
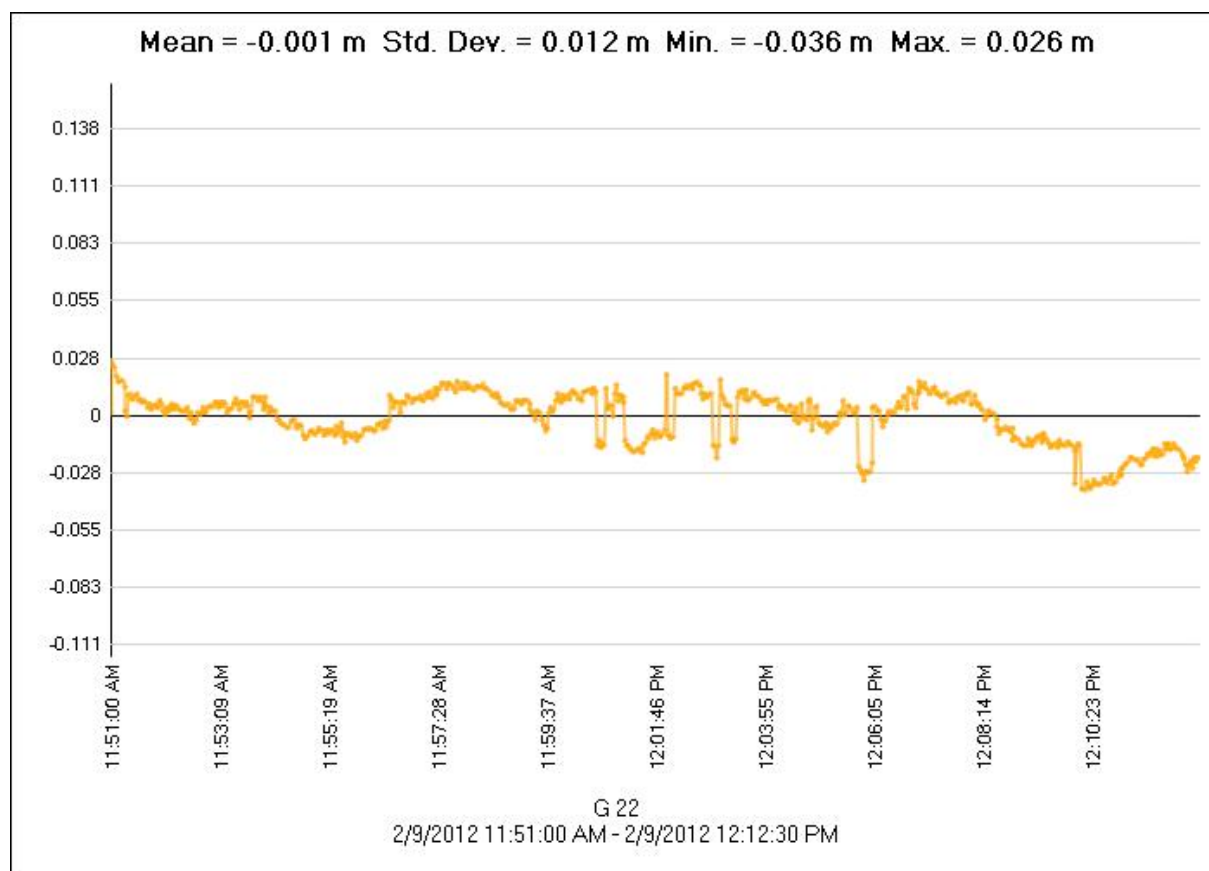
2/9/2012 11:51:00 AM - 2/9/2012 12:12:30 PM

Mean = 0.001 m Std. Dev. = 0.010 m Min. = -0.030 m Max. = 0.024 m



G 21



2/9/2012 11:51:00 AM - 2/9/2012 12:12:30 PM



Processing style

Elevation mask:	10.0 deg
Auto start processing:	Yes
Start automatic ID numbering:	AUTO0001
Continuous vectors:	No
Generate residuals:	Yes
Antenna model:	Automatic
Ephemeris type:	Automatic
Frequency:	Dual Frequency (L1, L2)
Processing Interval:	Use all data
Force float:	No

Acceptance Criteria

Vector Component	Flag 	Fail 
Horizontal Precision >	0.050 m + 1.000 ppm	0.100 m + 1.000 ppm
Vertical Precision >	0.100 m + 1.000 ppm	0.200 m + 1.000 ppm

HH0162 - FVA53-B2 (12:28:55 PM-12:48:50 PM) (S74)

Baseline observation: HH0162 --- FVA53-B2 (B74)

Processed: 3/21/2012 10:59:30 AM

Solution type: Fixed

Frequency used: Dual Frequency (L1, L2)

Horizontal precision: 0.029 m

Vertical precision: 0.054 m

RMS: 0.010 m

Maximum PDOP: 2.681

Ephemeris used: Broadcast

Antenna model: US National Geodetic Survey Calibration

Processing start time: 2/9/2012 12:28:55 PM (Local: UTC-7hr)

Processing stop time: 2/9/2012 12:48:50 PM (Local: UTC-7hr)

Processing duration: 00:19:54

Processing interval: .5 second

Vector Components (Mark to Mark)

From:	HH0162				
Grid		Local		Global	
Easting	334883.094 m	Latitude	N37°57'51.89981"	Latitude	N37°57'51.89980"
Northing	4203533.480 m	Longitude	W100°52'46.80868"	Longitude	W100°52'46.80868"
Elevation	875.739 m	Height	850.245 m	Height	850.245 m

To:	FVA53-B2				
Grid		Local		Global	
Easting	378997.248 m	Latitude	N38°09'38.12600"	Latitude	N38°09'38.12600"
Northing	4224534.357 m	Longitude	W100°22'52.28718"	Longitude	W100°22'52.28718"
Elevation	789.166 m	Height	763.582 m	Height	763.582 m

Vector					
9Ughb[	44114.155 m	NS Fwd Azimuth	63°23'03"	L	45489.201 m
Bcfh\jb[	21000.878 m	Ellipsoid Dist.	48865.043 m	M	5192.010 m
9Yj Uhcb	-86.572 m	<Y][\h	-86.663 m	N	17092.917 m

Standard Errors

Vector errors:					
Point ID	0.007 m	Point ID	0°00'00"	Point ID	0.010 m
Point ID	0.012 m	Point ID	0.007 m	Point ID	0.019 m
Point ID	0.027 m	Point ID	0.027 m	Point ID	0.022 m




Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0000920151		
Y	0.0001337772	0.0003638458	
Z	-0.0001416613	-0.0003080460	0.0004899027

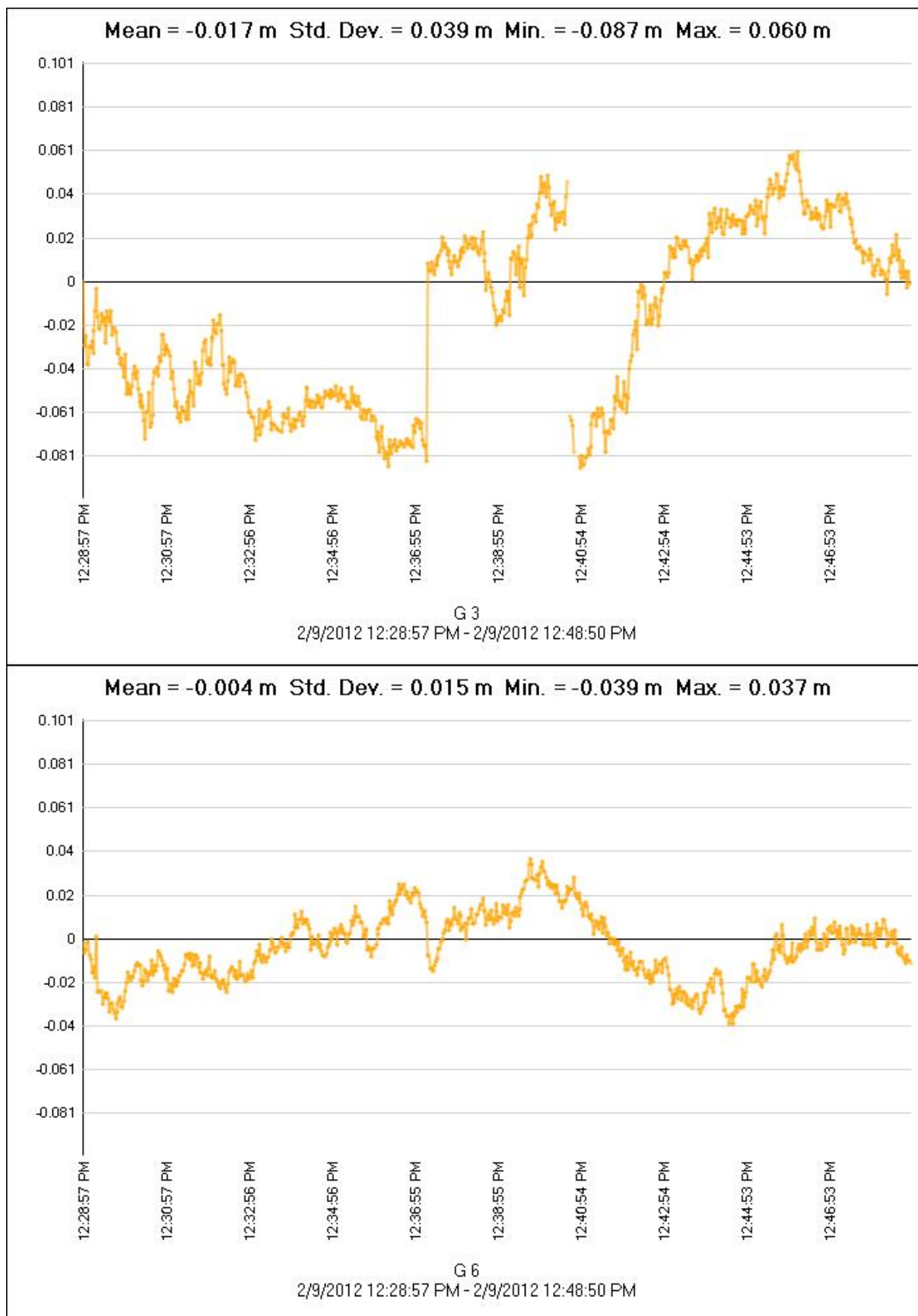
Occupations

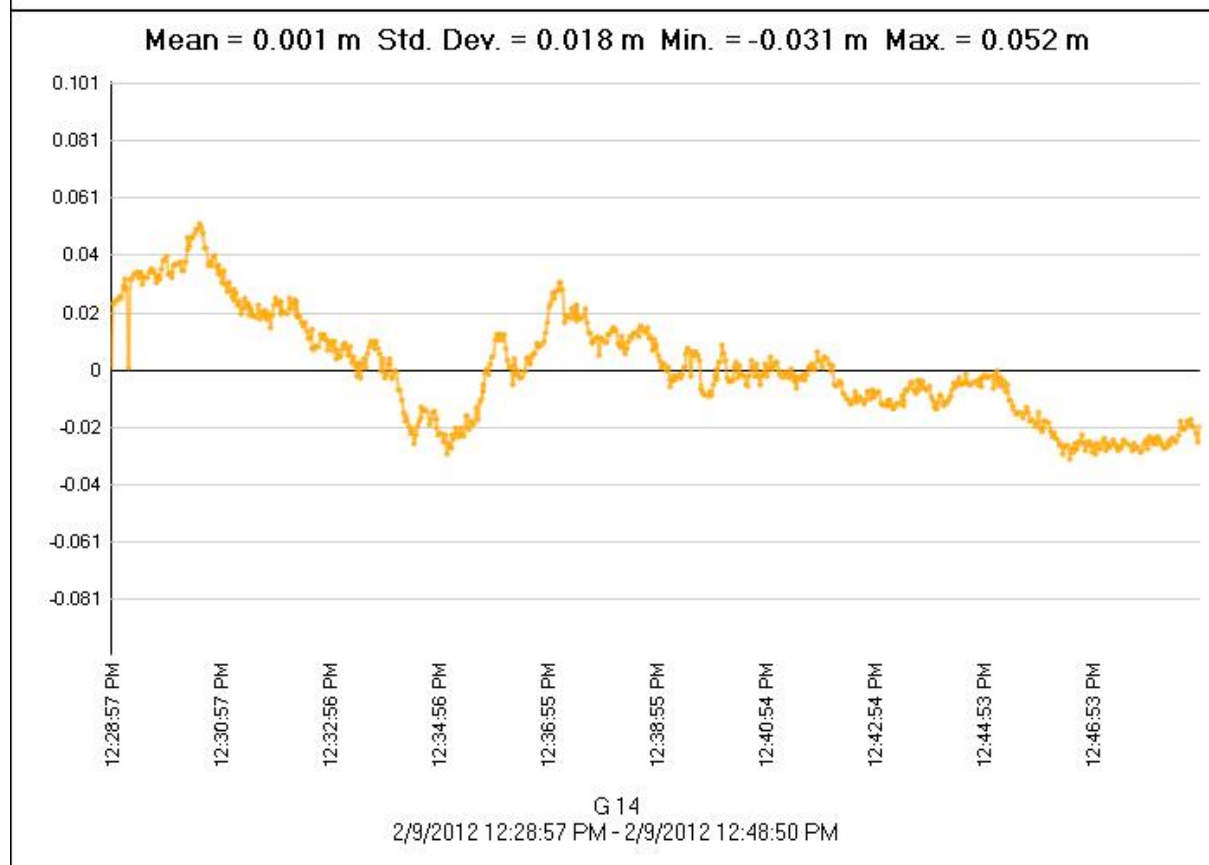
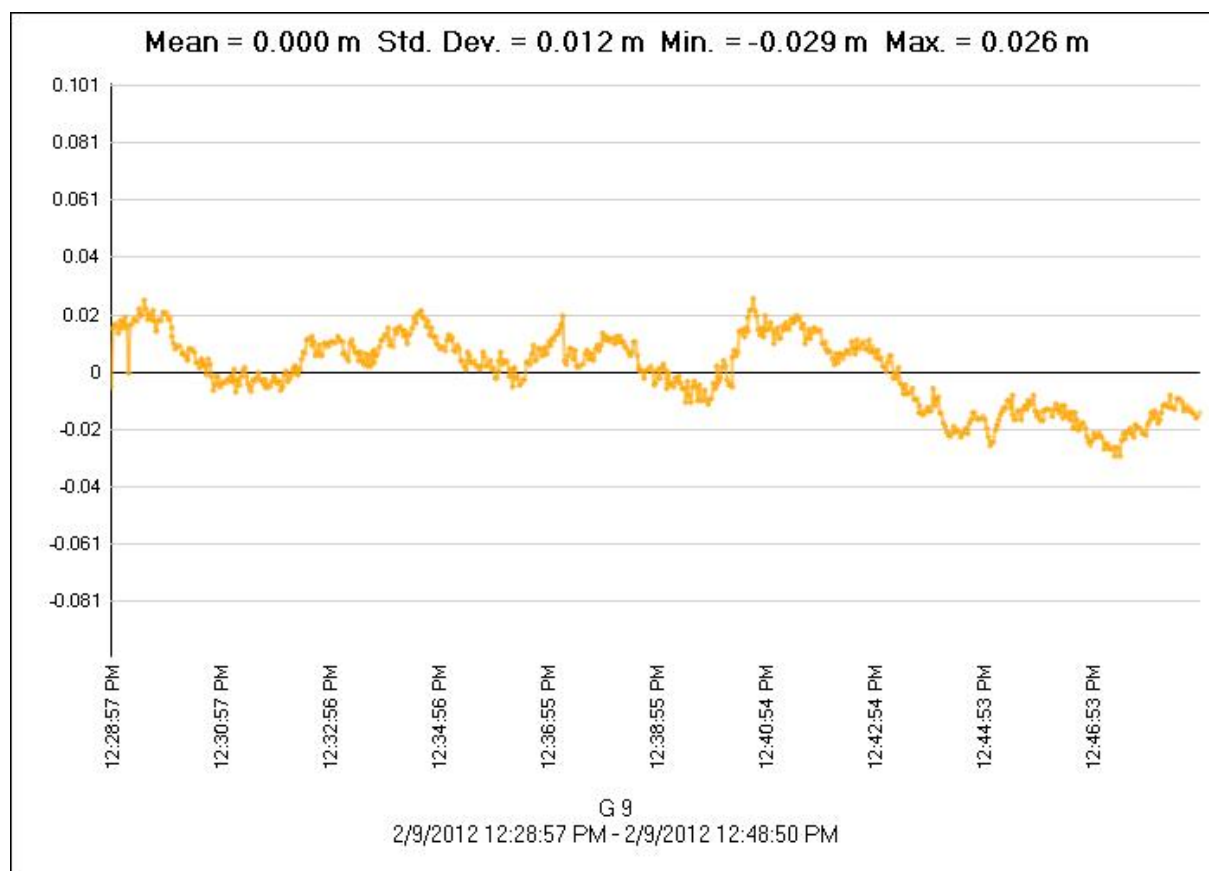
	From	To
Point ID:	HH0162	FVA53-B2
Data file:	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00010400.12o	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00080408.12o
Receiver type:	Unknown	Unknown
Receiver serial number:		
Antenna type:	Unknown External	Unknown External
Antenna serial number:	-----	-----
Antenna height (measured):	1.565 m	2.065 m
Antenna method:	Antenna Phase Center	Antenna Phase Center

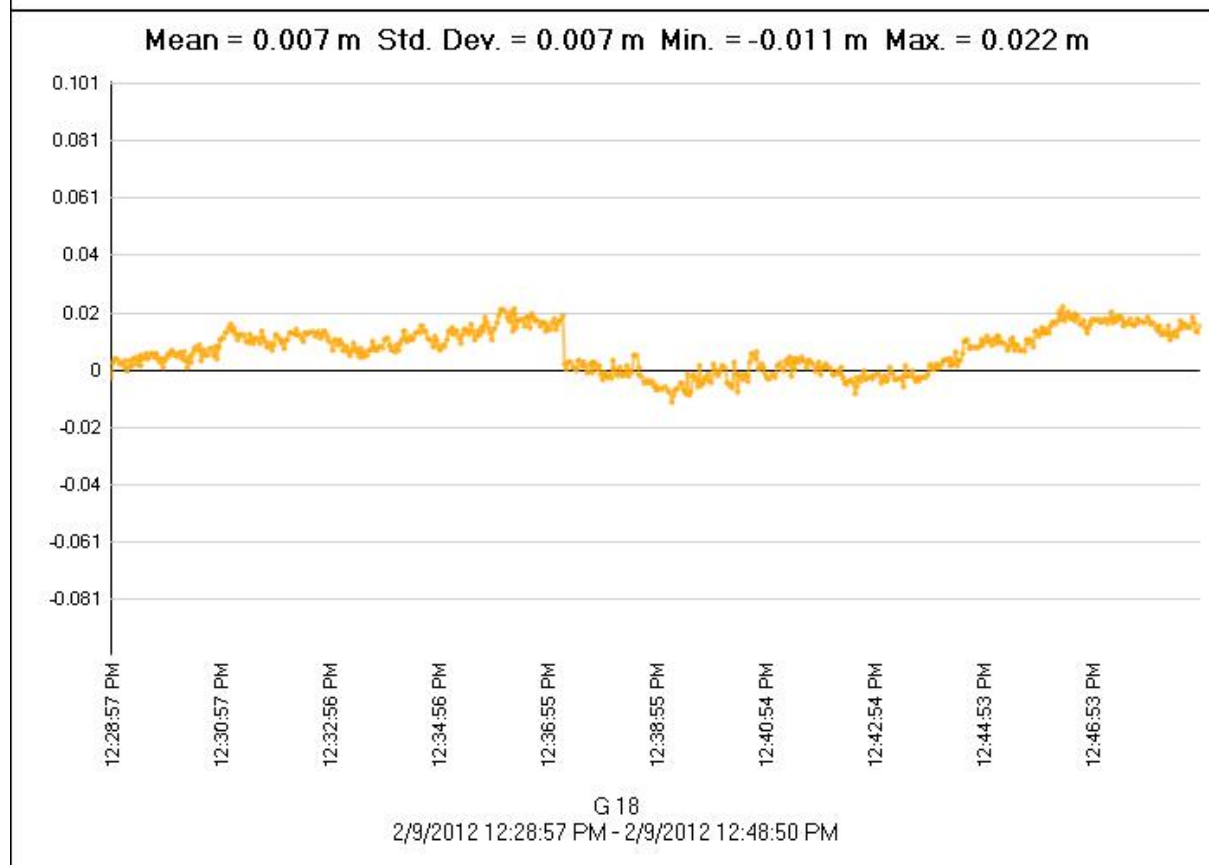
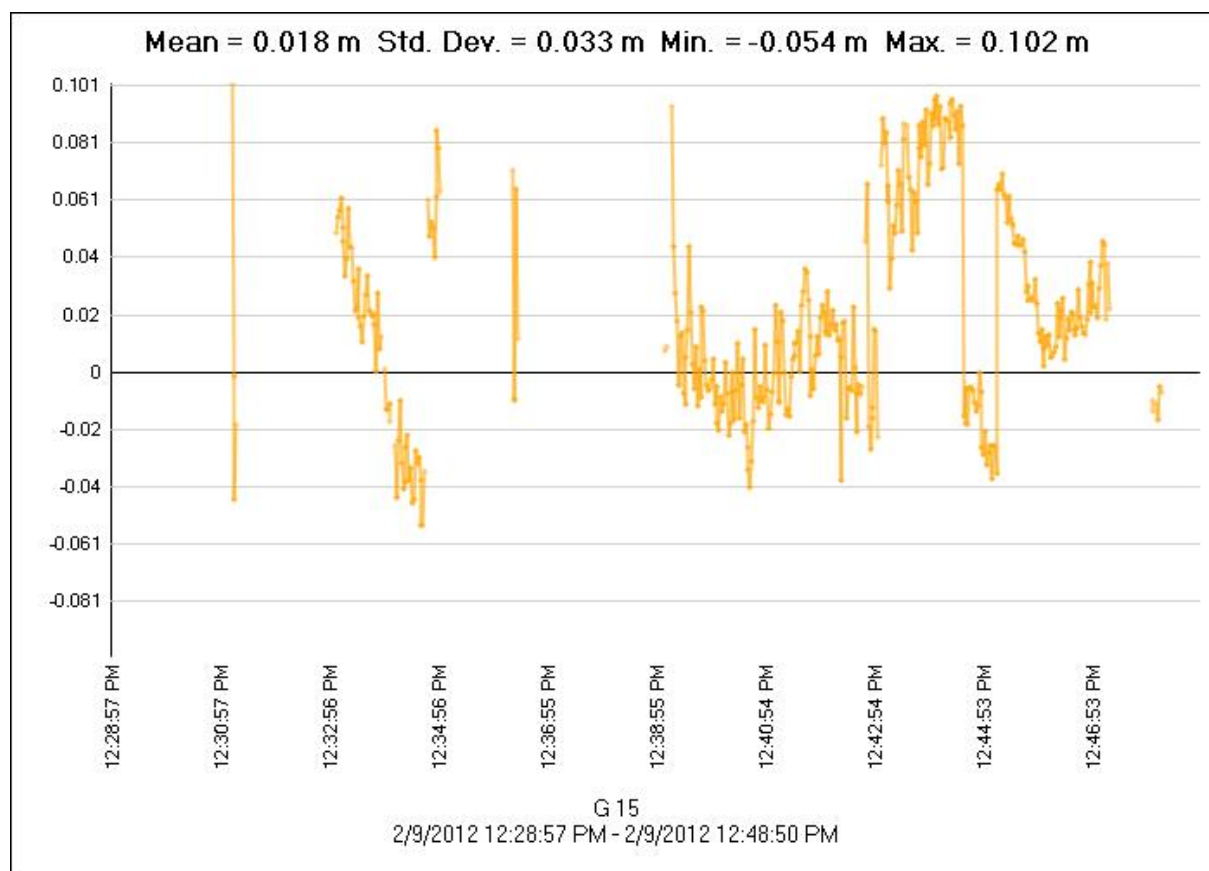
Tracking Summary

SV	2/9/2012 12:28:55 PM	Duration: 00:19:54.5000000	Major interval: 00:01:00	2/9/2012 12:48:50 PM
G 3	L1 L2			
G 6	L1 L2			
G 9	L1 L2			
G 14	L1 L2			
G 15	L1 L2			
G 18	L1 L2			
G 19	L1 L2			
G 21	L1 L2			
G 22	L1 L2			
G 27	L1 L2			

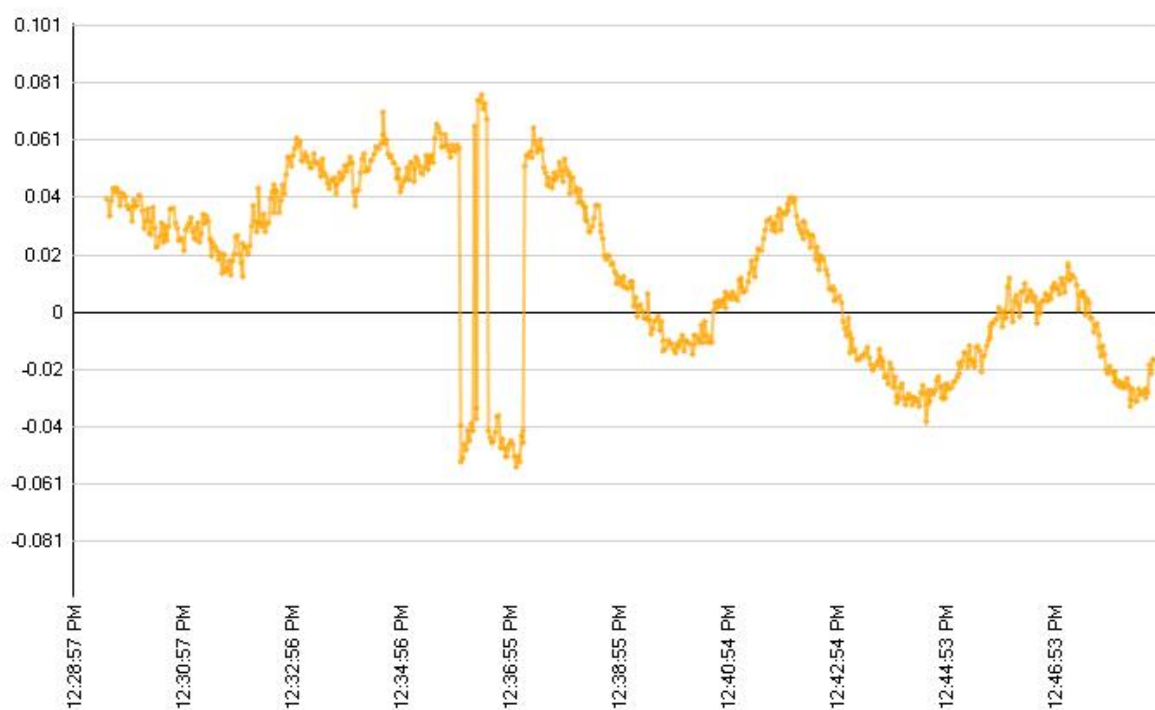
Residuals







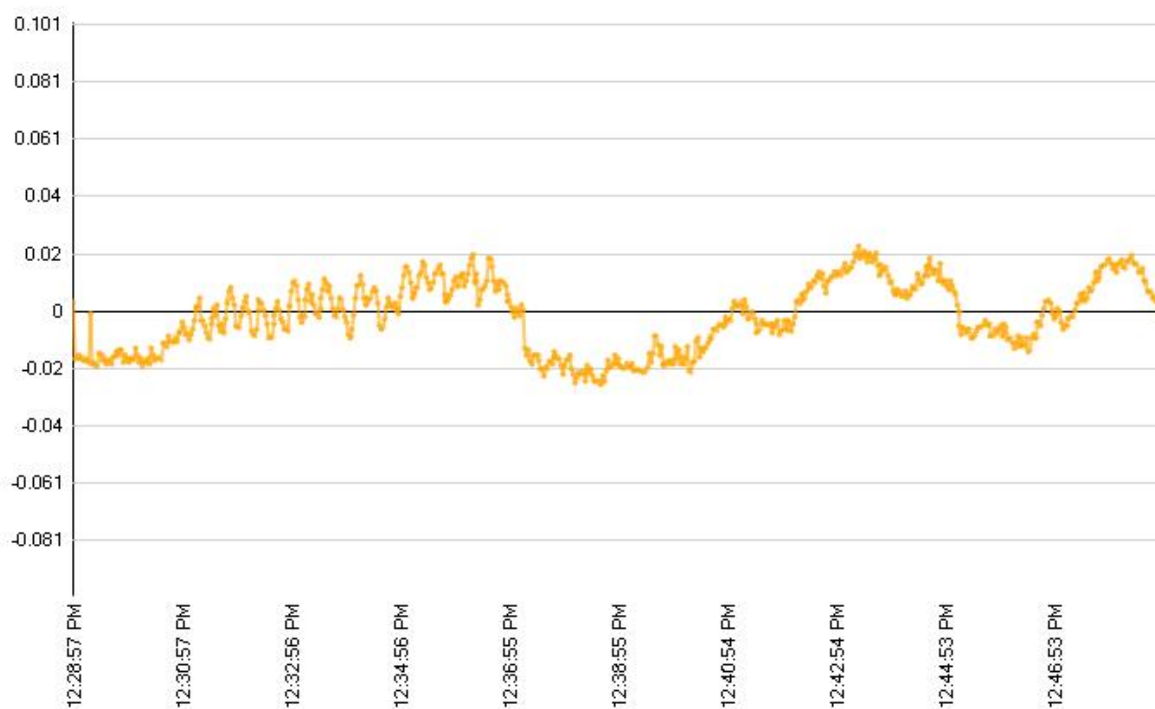
Mean = 0.014 m Std. Dev. = 0.030 m Min. = -0.054 m Max. = 0.077 m



G 19

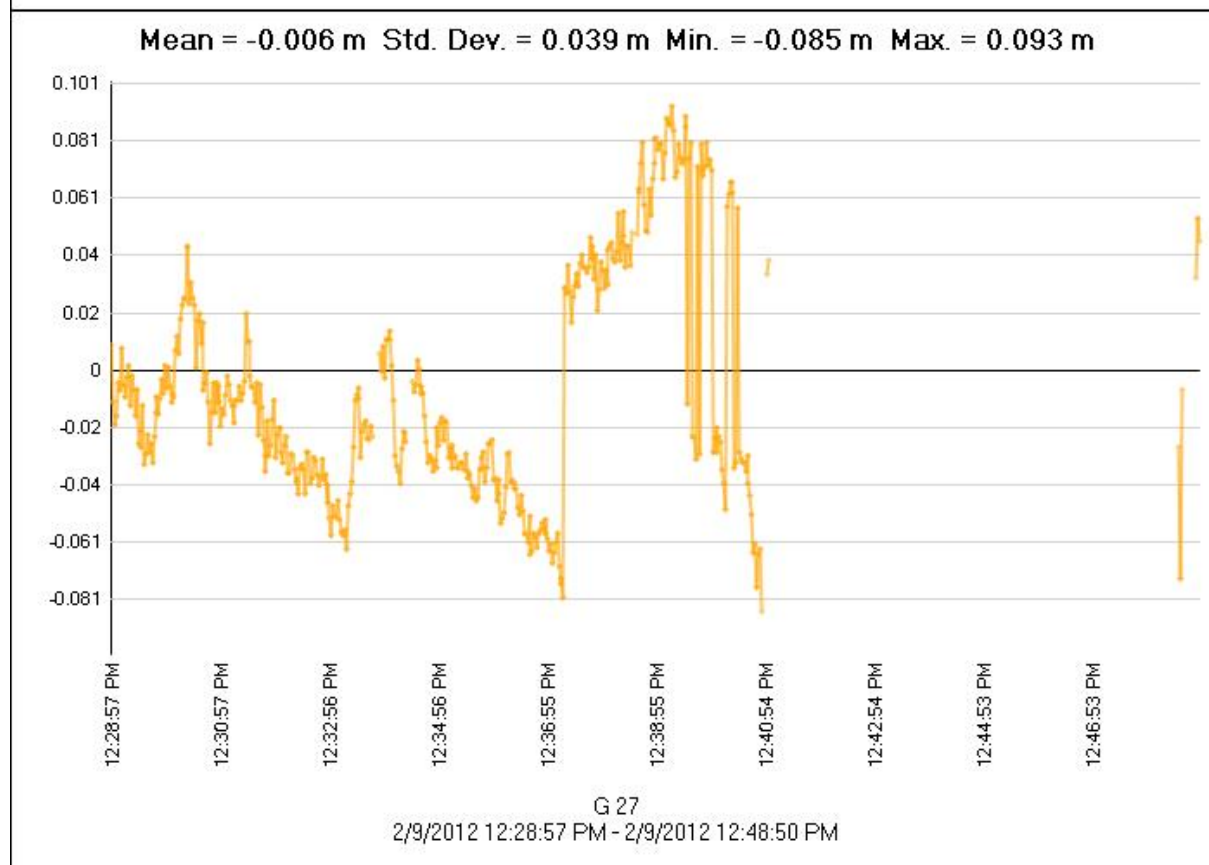
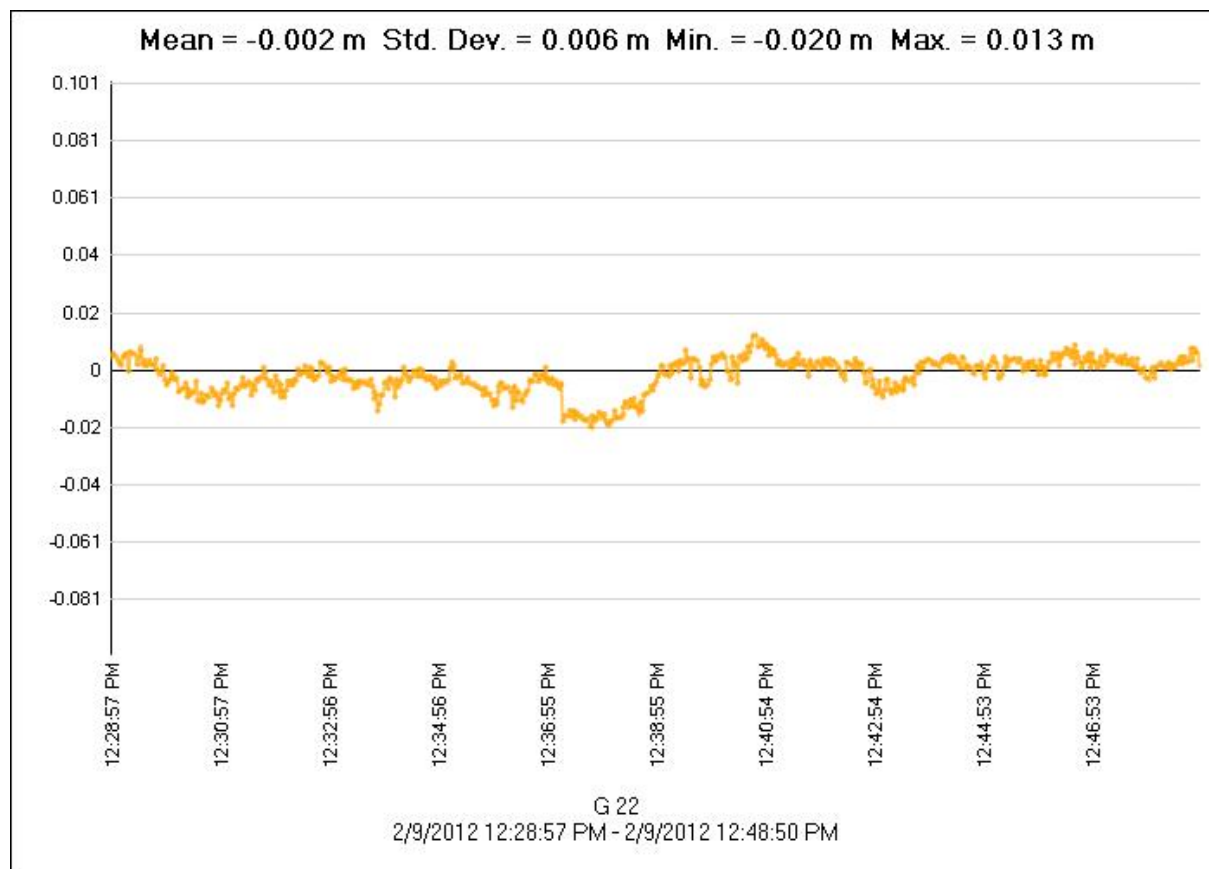
2/9/2012 12:28:57 PM - 2/9/2012 12:46:50 PM

Mean = -0.002 m Std. Dev. = 0.011 m Min. = -0.026 m Max. = 0.023 m



G 21



2/9/2012 12:28:57 PM - 2/9/2012 12:46:50 PM



Processing style

Elevation mask:	10.0 deg
Auto start processing:	Yes
Start automatic ID numbering:	AUTO0001
Continuous vectors:	No
Generate residuals:	Yes
Antenna model:	Automatic
Ephemeris type:	Automatic
Frequency:	Dual Frequency (L1, L2)
Processing Interval:	Use all data
Force float:	No

Acceptance Criteria

Vector Component	Flag 	Fail 
Horizontal Precision >	0.050 m + 1.000 ppm	0.100 m + 1.000 ppm
Vertical Precision >	0.100 m + 1.000 ppm	0.200 m + 1.000 ppm

HH0162 - SVA53-B2 (12:53:11 PM-1:13:20 PM) (S75)

Baseline observation: HH0162 --- SVA53-B2 (B75)

Processed: 3/21/2012 10:59:48 AM

Solution type: Fixed

Frequency used: Dual Frequency (L1, L2)

Horizontal precision: 0.031 m

Vertical precision: 0.043 m

RMS: 0.007 m

Maximum PDOP: 2.563

Ephemeris used: Broadcast

Antenna model: US National Geodetic Survey Calibration

Processing start time: 2/9/2012 12:53:11 PM (Local: UTC-7hr)

Processing stop time: 2/9/2012 1:13:20 PM (Local: UTC-7hr)

Processing duration: 00:20:08

Processing interval: .5 second

Vector Components (Mark to Mark)

From:	HH0162				
Grid		Local		Global	
Easting	334883.094 m	Latitude	N37°57'51.89981"	Latitude	N37°57'51.89980"
Northing	4203533.480 m	Longitude	W100°52'46.80868"	Longitude	W100°52'46.80868"
Elevation	875.739 m	Height	850.245 m	Height	850.245 m

To:	SVA53-B2				
Grid		Local		Global	
Easting	379057.632 m	Latitude	N38°09'38.25137"	Latitude	N38°09'38.25137"
Northing	4224537.323 m	Longitude	W100°22'49.80836"	Longitude	W100°22'49.80836"
Elevation	787.979 m	Height	762.393 m	Height	762.393 m

Vector					
9Ughb[	44174.538 m	NS Fwd Azimuth	63°24'41"	L	45549.165 m
Bcfh\jb[	21003.843 m	Ellipsoid Dist.	48920.857 m	M	5184.404 m
9`Yj Uhcb	-87.760 m	<Y][\h	-87.851 m	N	17095.223 m

Standard Errors

Vector errors:					
Point ID	0.011 m	Point ID	0°00'00"	Point ID	0.013 m
Point ID	0.011 m	Point ID	0.010 m	Point ID	0.018 m
Point ID	0.022 m	Point ID	0.022 m	Point ID	0.016 m

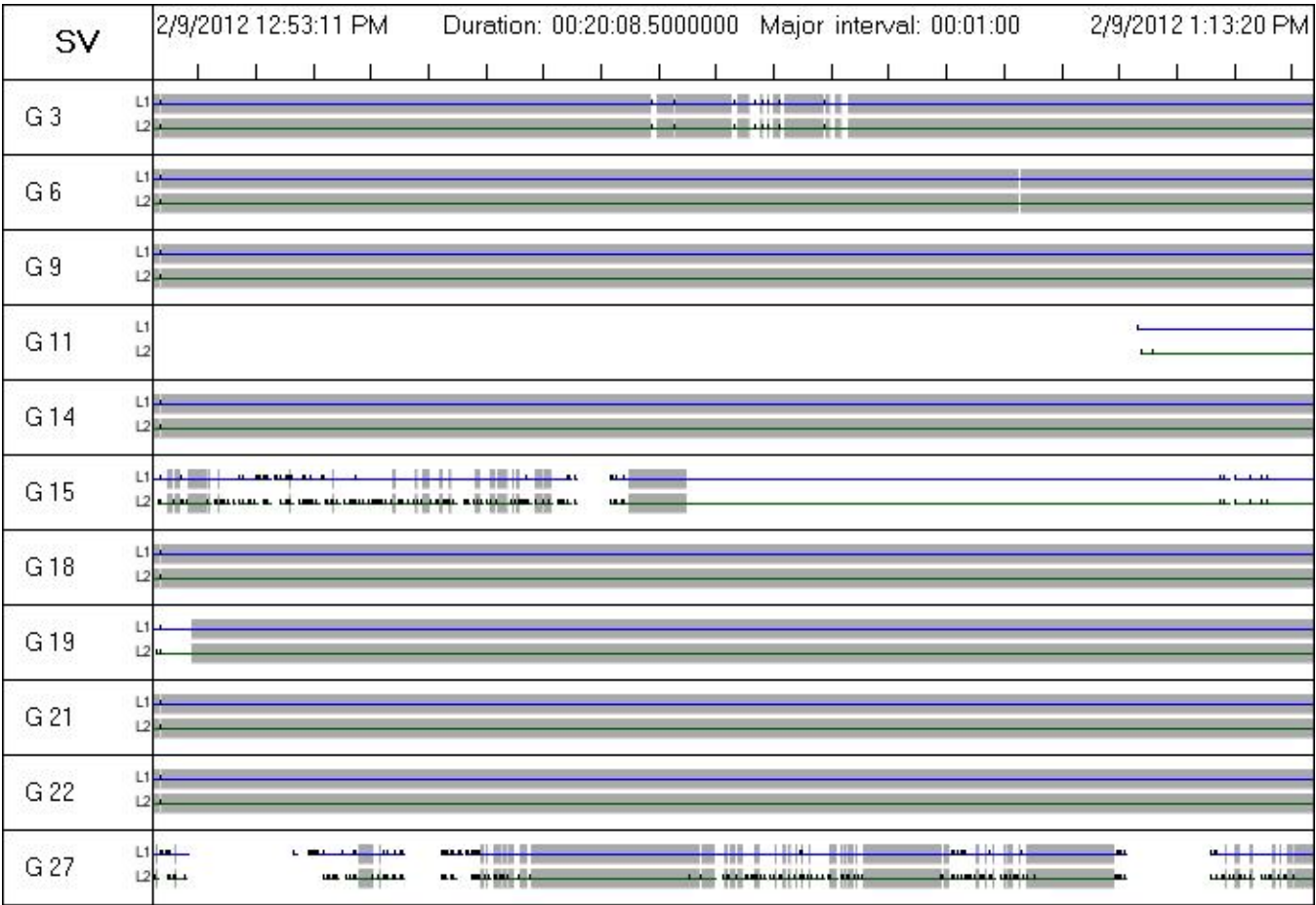
Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0001590308		
Y	0.0000886599	0.0003085523	
Z	-0.0001230191	-0.0001584993	0.0002561396

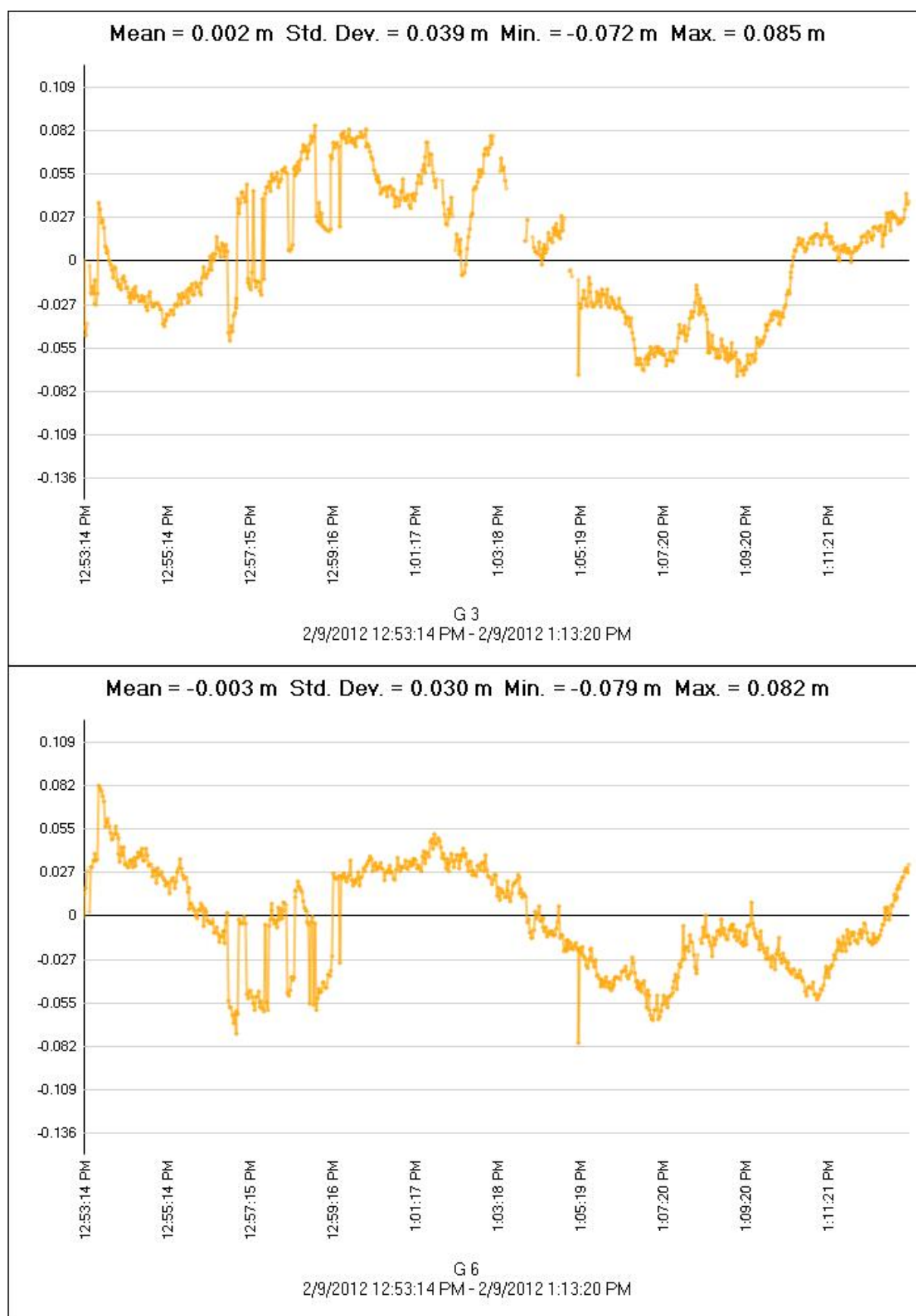
Occupations

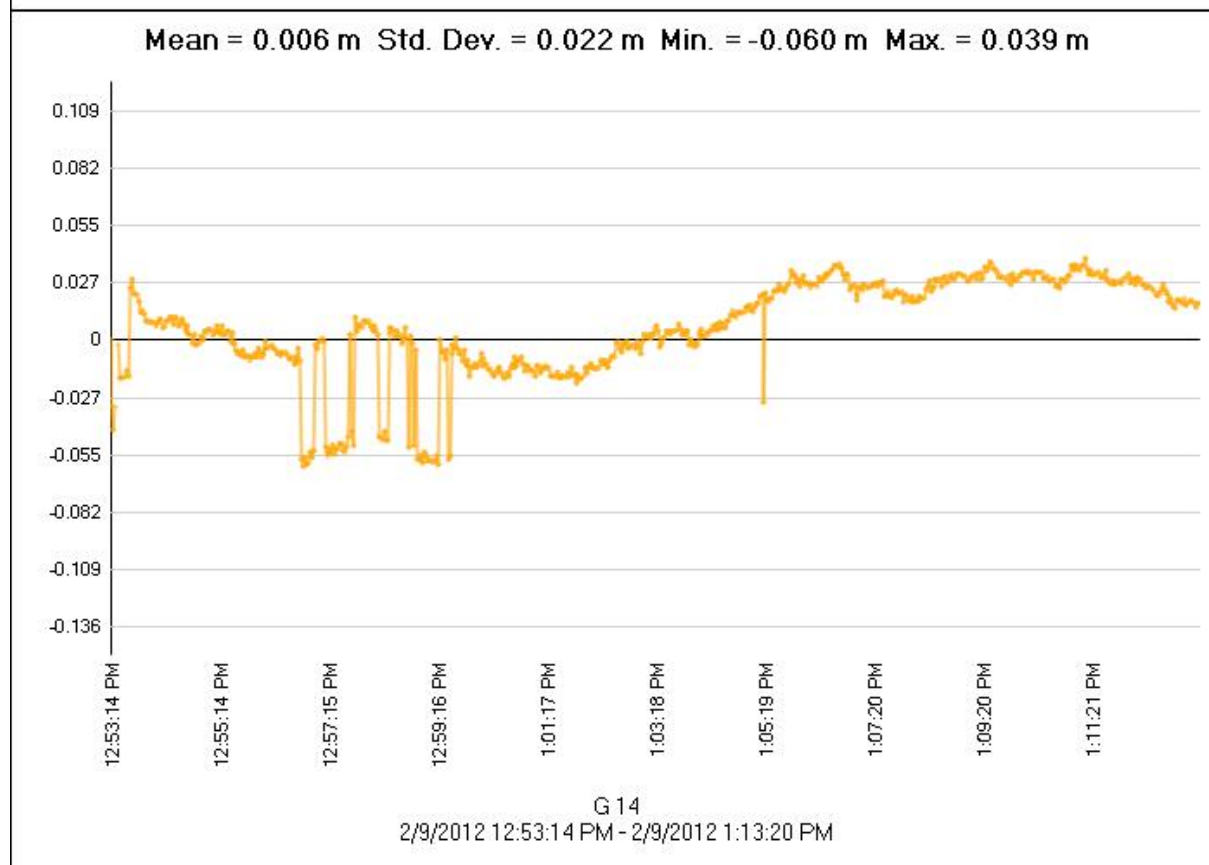
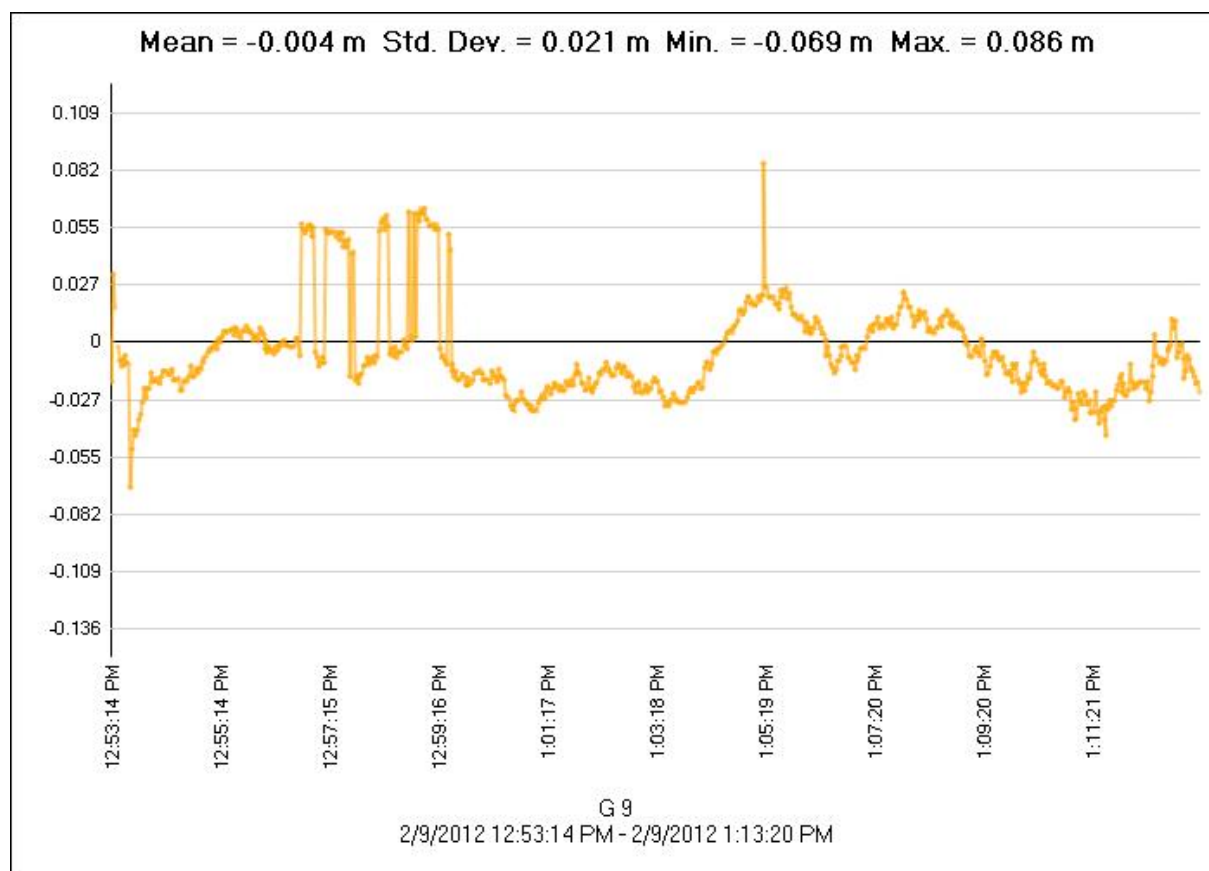
	From	To
Point ID:	HH0162	SVA53-B2
Data file:	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00010400.12o	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00080409.12o
Receiver type:	Unknown	Unknown
Receiver serial number:		
Antenna type:	Unknown External	Unknown External
Antenna serial number:	-----	-----
Antenna height (measured):	1.565 m	2.065 m
Antenna method:	Antenna Phase Center	Antenna Phase Center

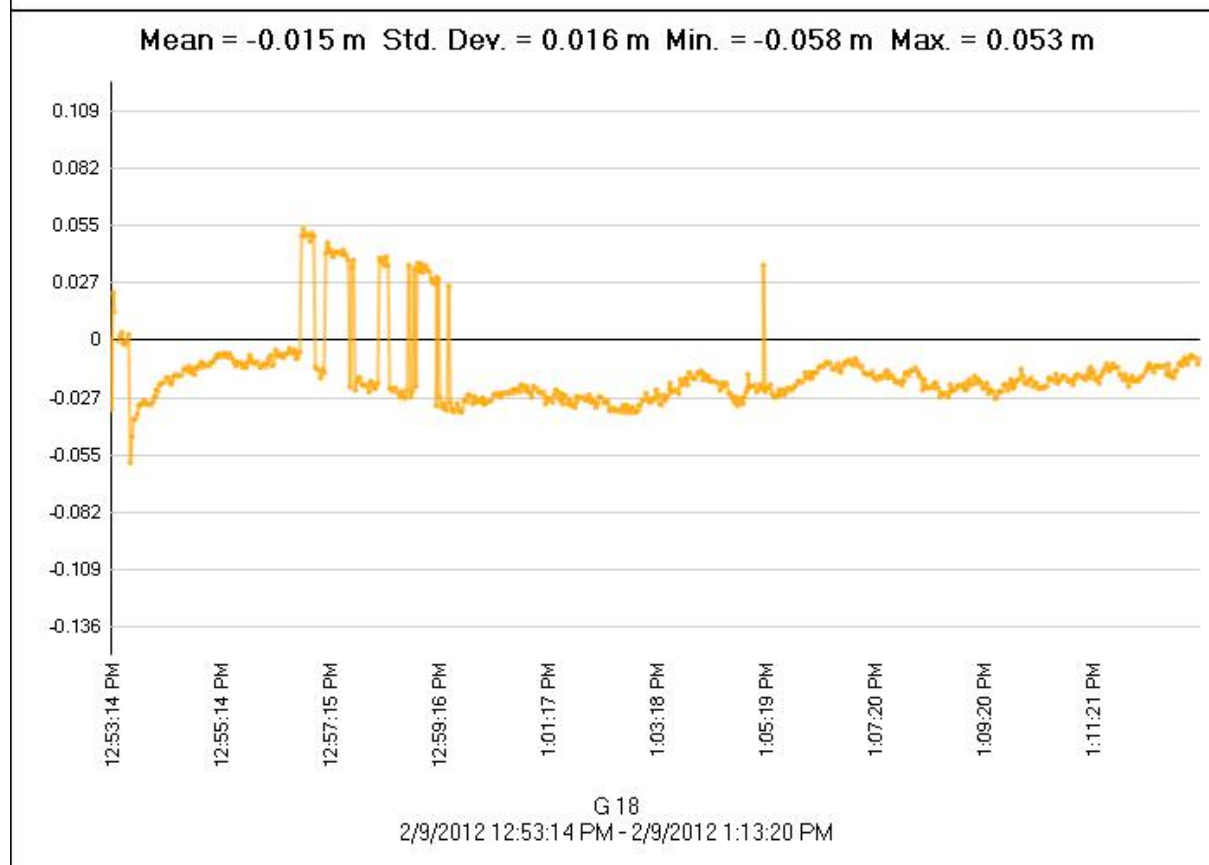
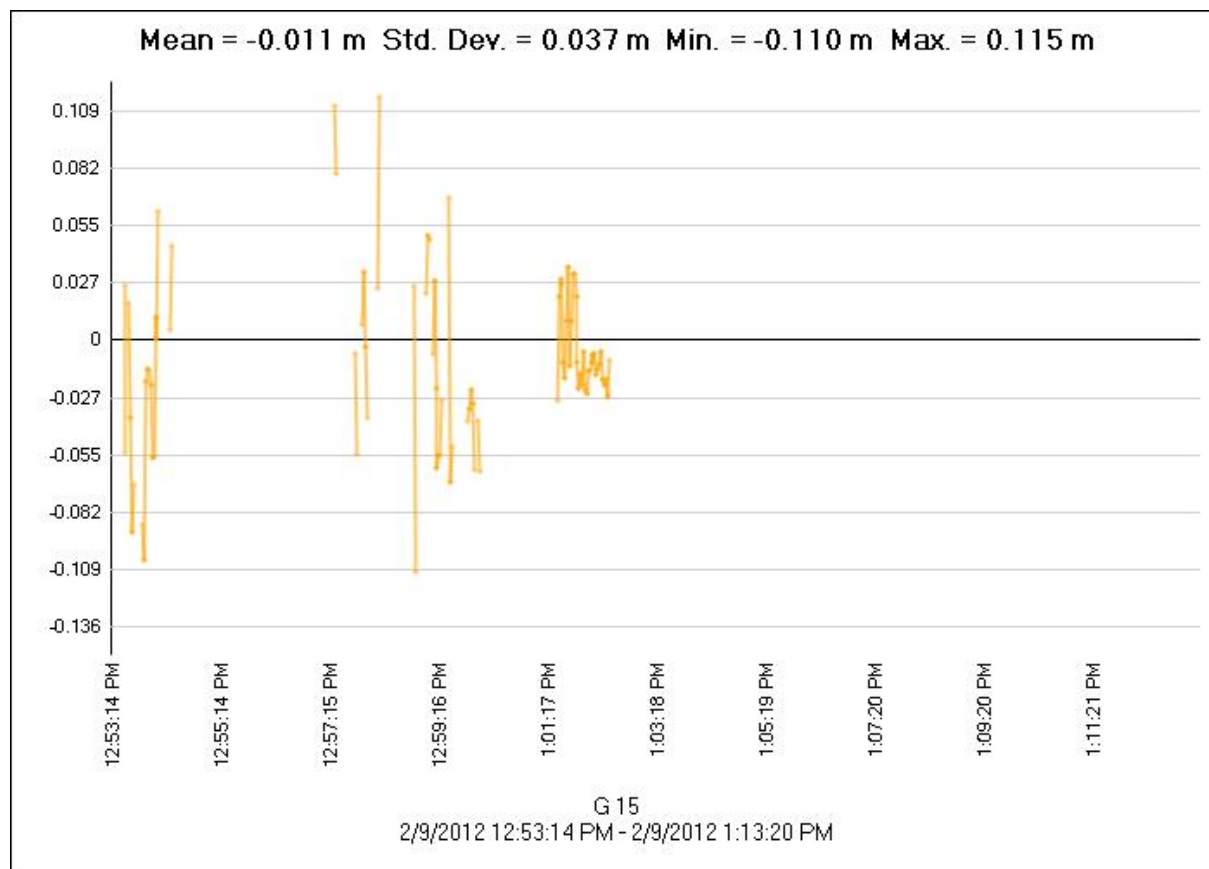
Tracking Summary

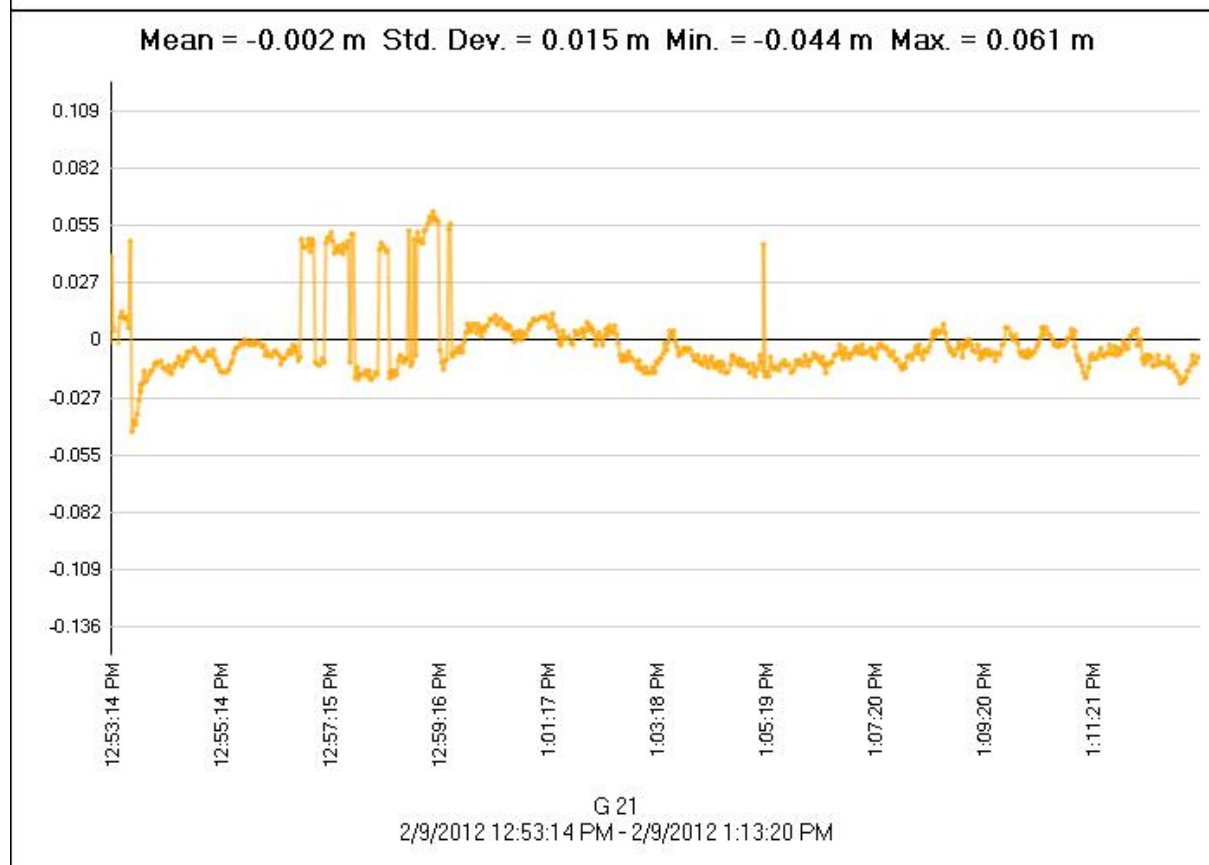
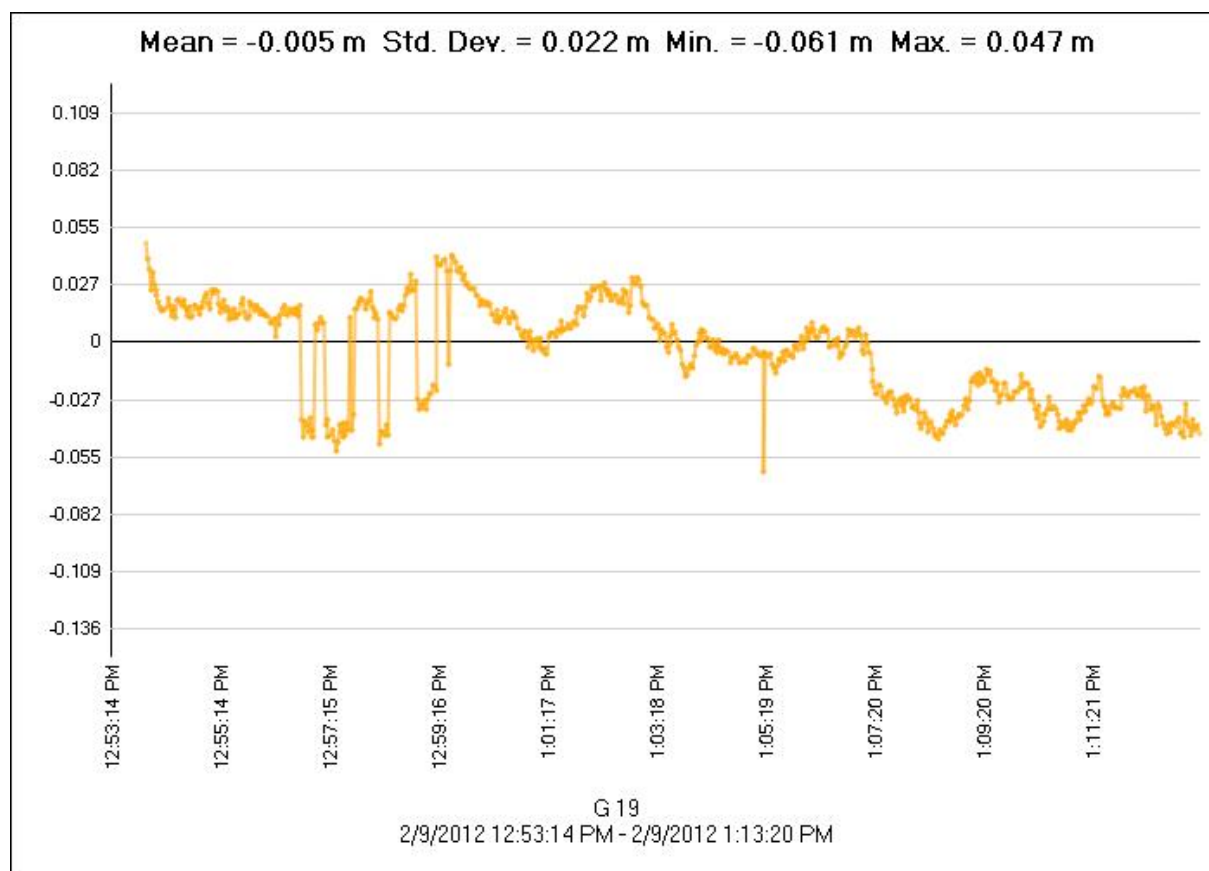


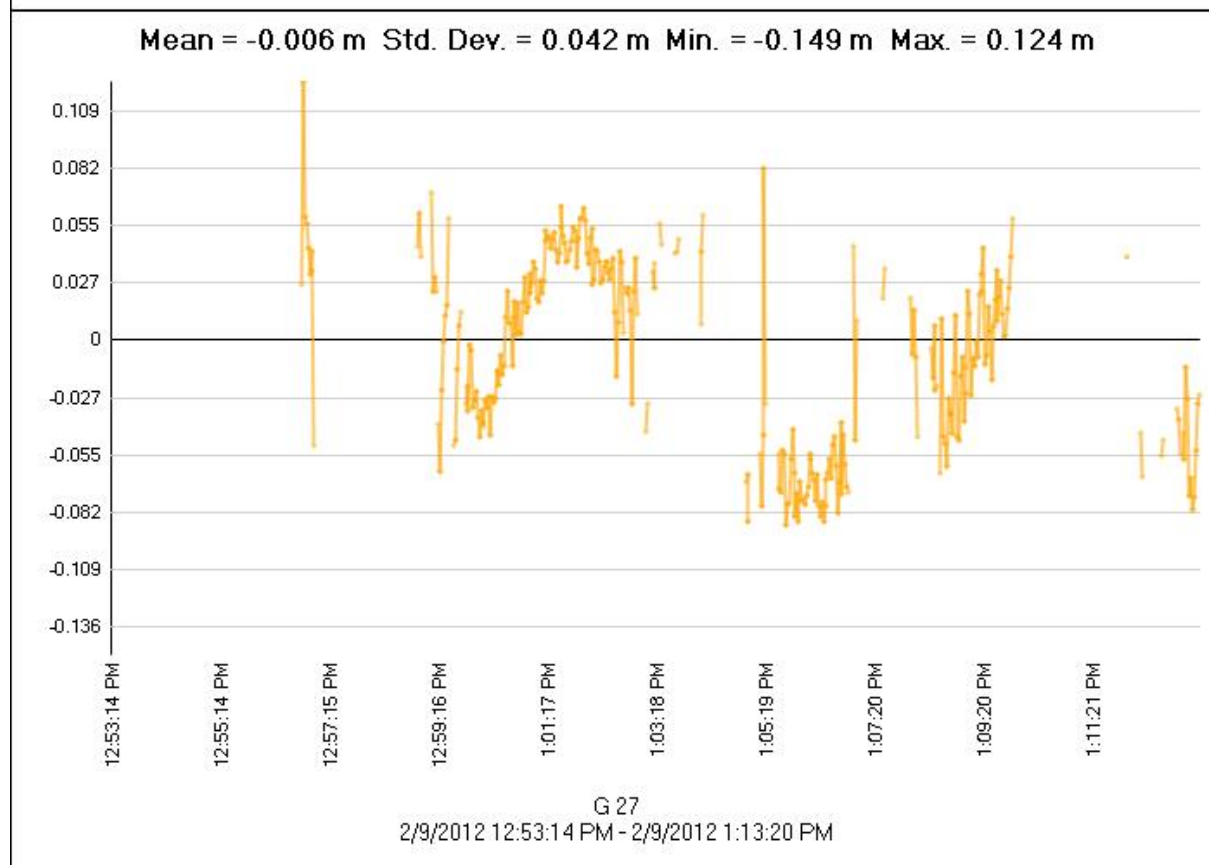
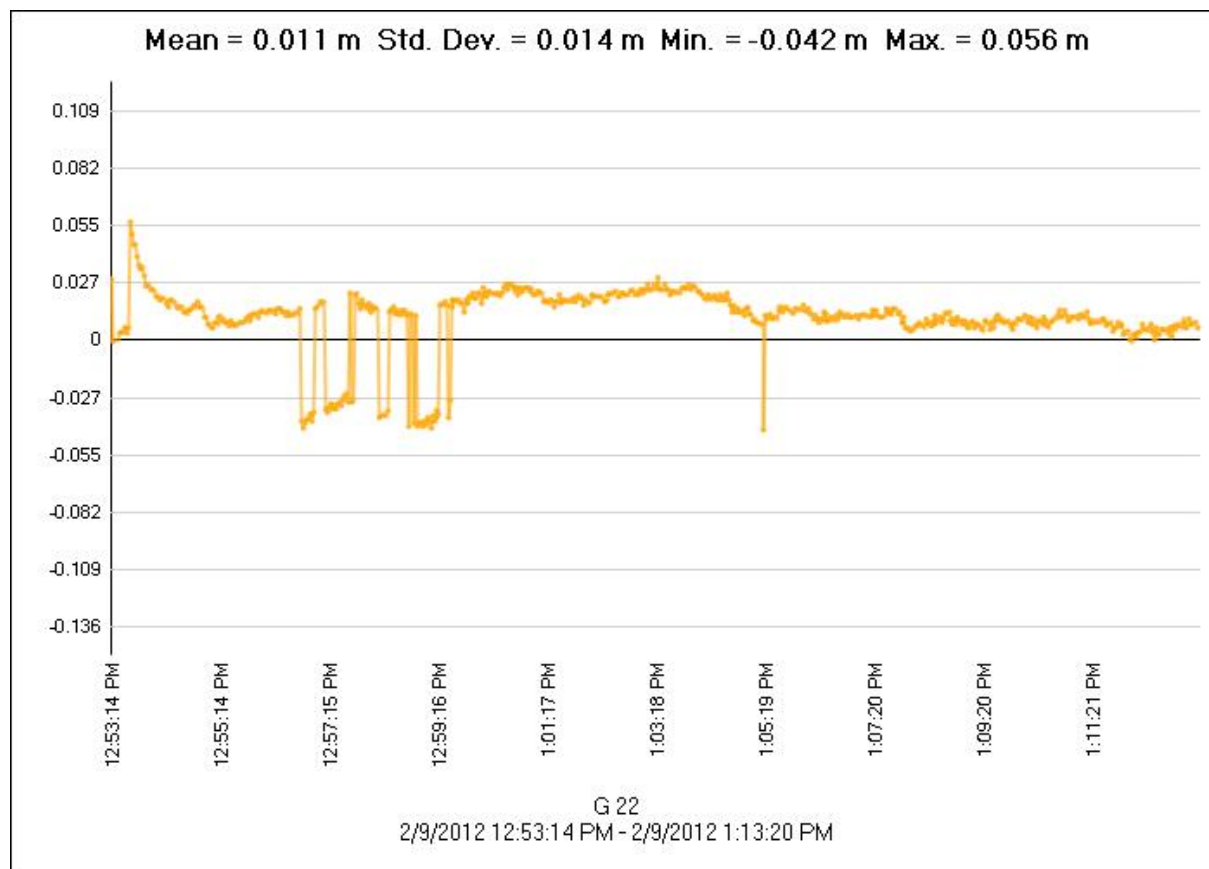
Residuals













Processing style

Elevation mask:	10.0 deg
Auto start processing:	Yes
Start automatic ID numbering:	AUTO0001
Continuous vectors:	No
Generate residuals:	Yes
Antenna model:	Automatic
Ephemeris type:	Automatic
Frequency:	Dual Frequency (L1, L2)
Processing Interval:	Use all data
Force float:	No

Acceptance Criteria

Vector Component	Flag 	Fail 
Horizontal Precision >	0.050 m + 1.000 ppm	0.100 m + 1.000 ppm
Vertical Precision >	0.100 m + 1.000 ppm	0.200 m + 1.000 ppm

HH0162 - FVA23-B2 (1:46:07 PM-2:05:37 PM) (S76)

Baseline observation: HH0162 --- FVA23-B2 (B76)

Processed: 4/3/2012 3:40:57 PM

Solution type: Fixed

Frequency used: Dual Frequency (L1, L2)

Horizontal precision: 0.083 m

Vertical precision: 0.099 m

RMS: 0.005 m

Maximum PDOP: 2.899

Ephemeris used: Broadcast

Antenna model: US National Geodetic Survey Calibration

Processing start time: 2/9/2012 1:46:36 PM (Local: UTC-7hr)

Processing stop time: 2/9/2012 2:05:37 PM (Local: UTC-7hr)

Processing duration: 00:19:01

Processing interval: .5 second

Vector Components (Mark to Mark)

From:	HH0162				
Grid		Local		Global	
Easting	334883.935 m	Latitude	N37°57'51.86317"	Latitude	N37°57'51.86317"
Northing	4203532.333 m	Longitude	W100°52'46.77326"	Longitude	W100°52'46.77326"
Elevation	865.832 m	Height	840.338 m	Height	840.338 m

To:	FVA23-B2				
Grid		Local		Global	
Easting	392424.778 m	Latitude	N38°03'32.84662"	Latitude	N38°03'32.84662"
Northing	4213084.705 m	Longitude	W100°13'34.42826"	Longitude	W100°13'34.42826"
Elevation	799.011 m	Height	773.344 m	Height	773.344 m

Vector					
9Ughb[	57540.843 m	NS Fwd Azimuth	79°25'00"	L	57614.890 m
Bcfh\jb[	9552.372 m	Ellipsoid Dist.	58338.130 m	M	-4093.195 m
9Yj Uhcb	-66.821 m	<Y][\h	-66.994 m	N	8243.092 m

Standard Errors

Vector errors:					
Point ID	0.015 m	Point Description	0°00'00"	Point Type	0.011 m
Point ID	0.033 m	Point Description	0.013 m	Point Type	0.058 m
Point ID	0.051 m	Point Description	0.051 m	Point Type	0.021 m

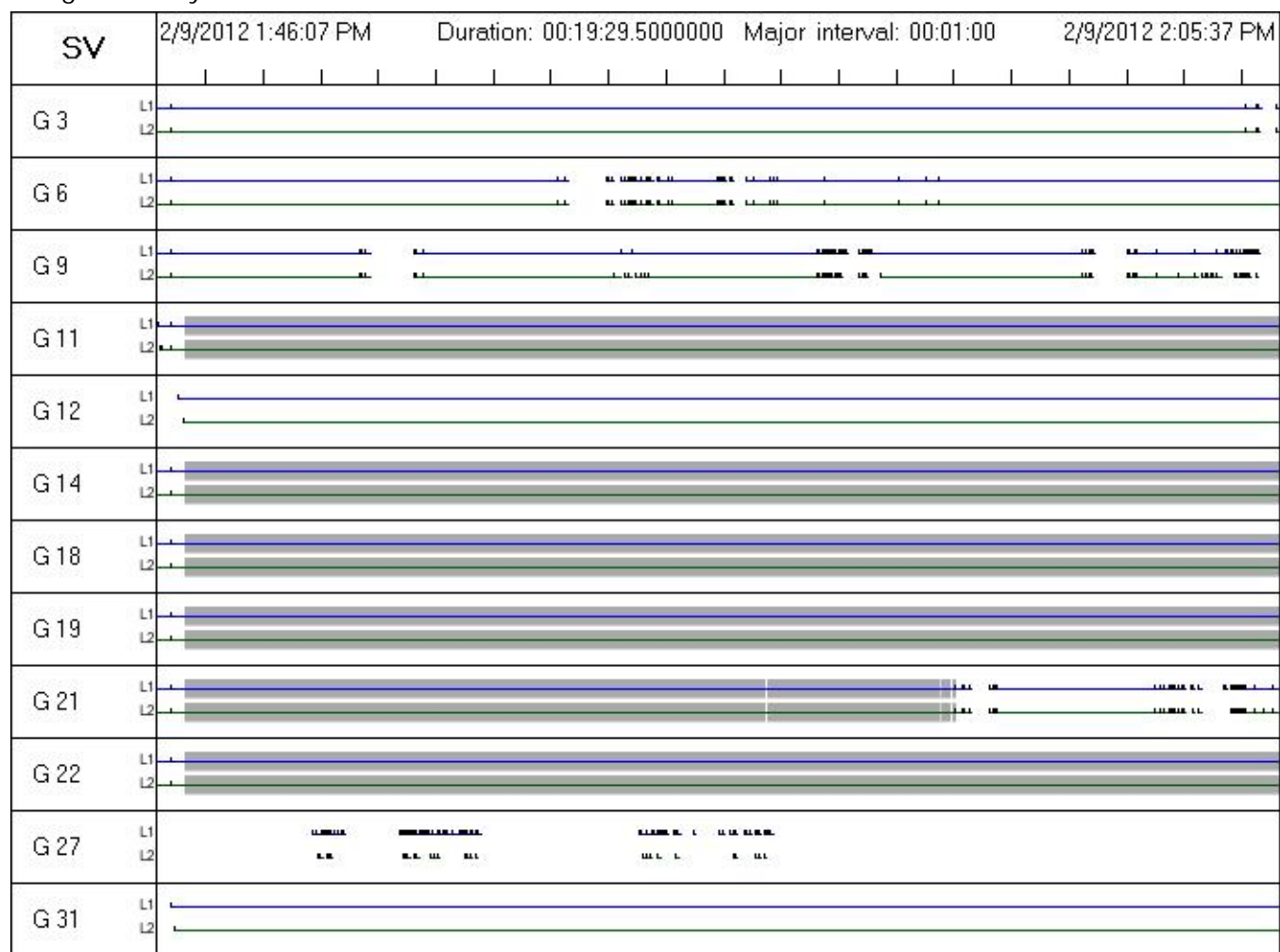
Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0001317428		
Y	0.0000481163	0.0033150823	
Z	0.0000647876	-0.0004301985	0.0004554373

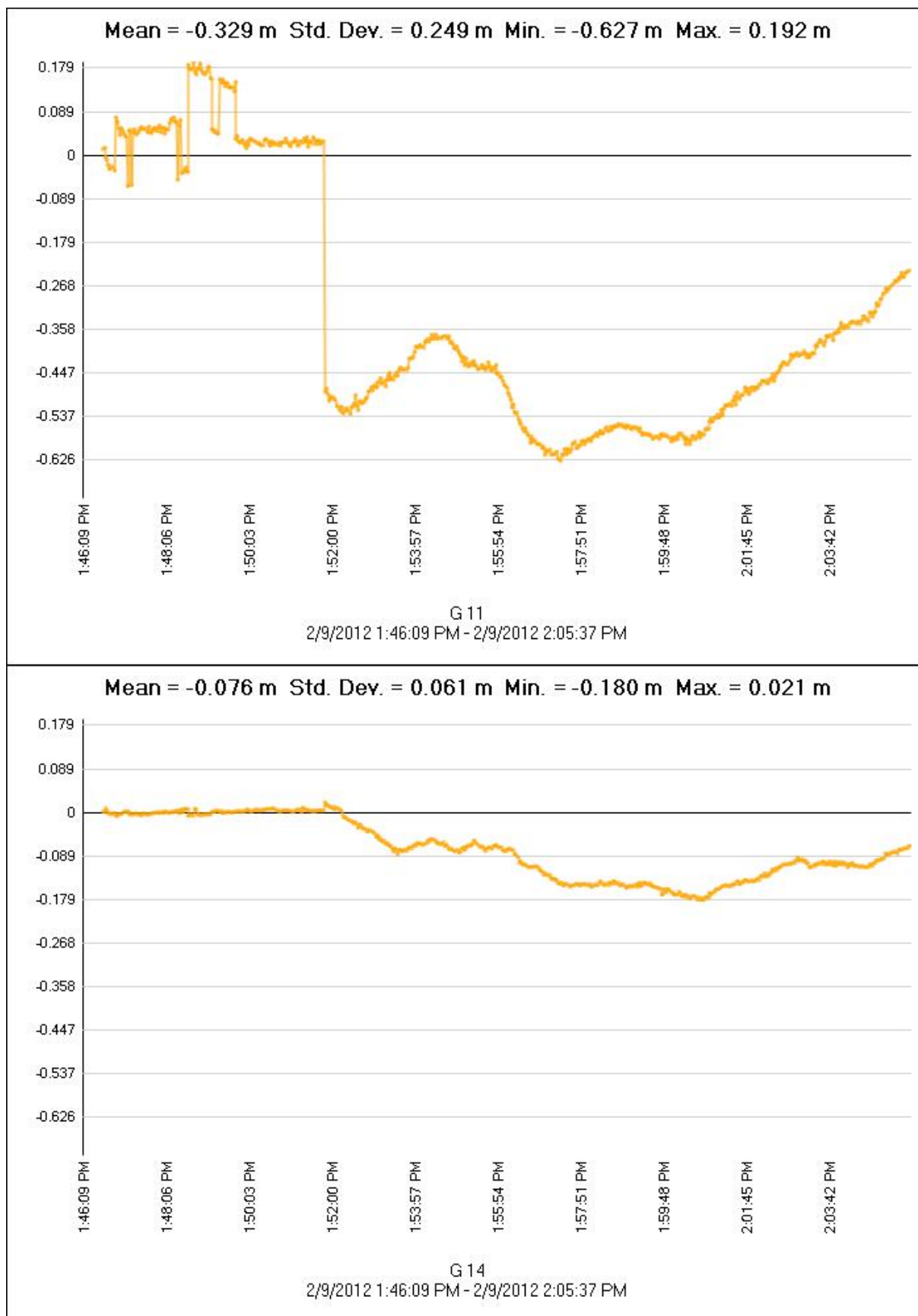
Occupations

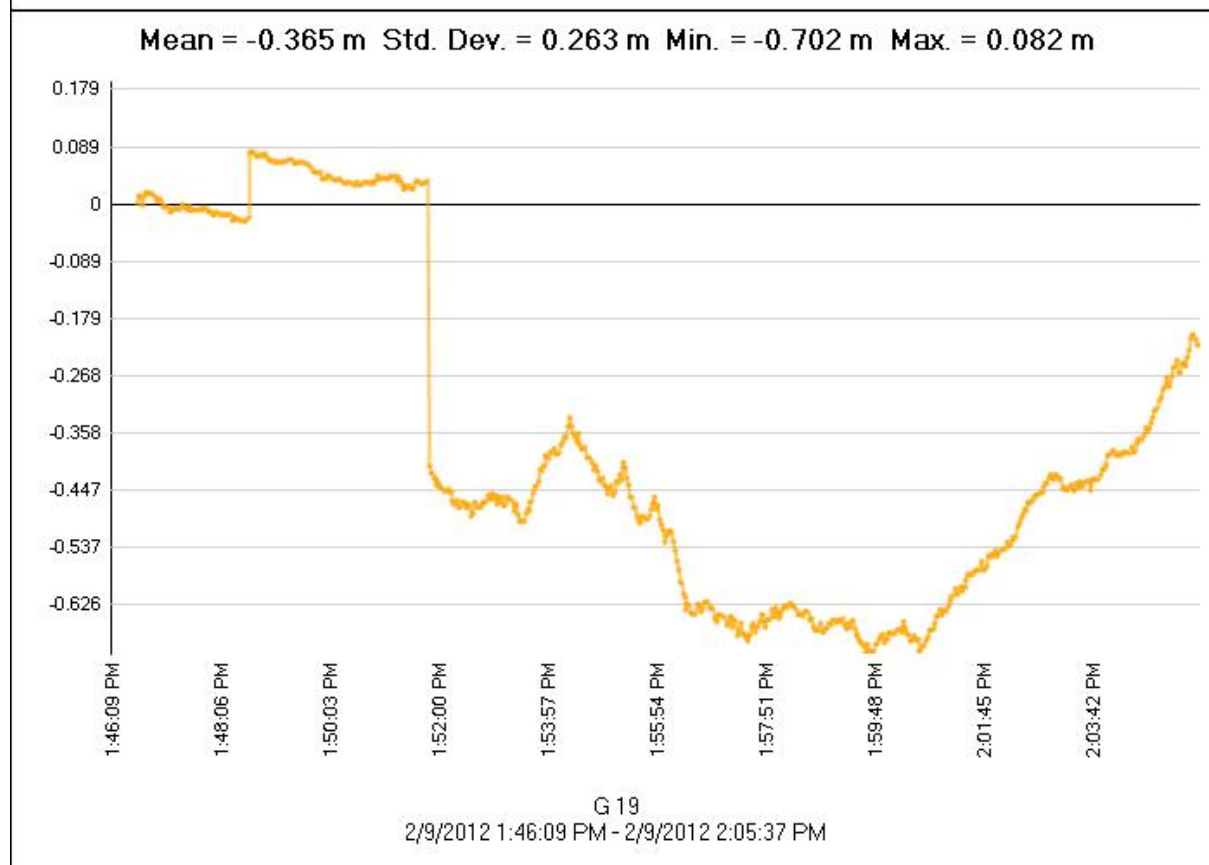
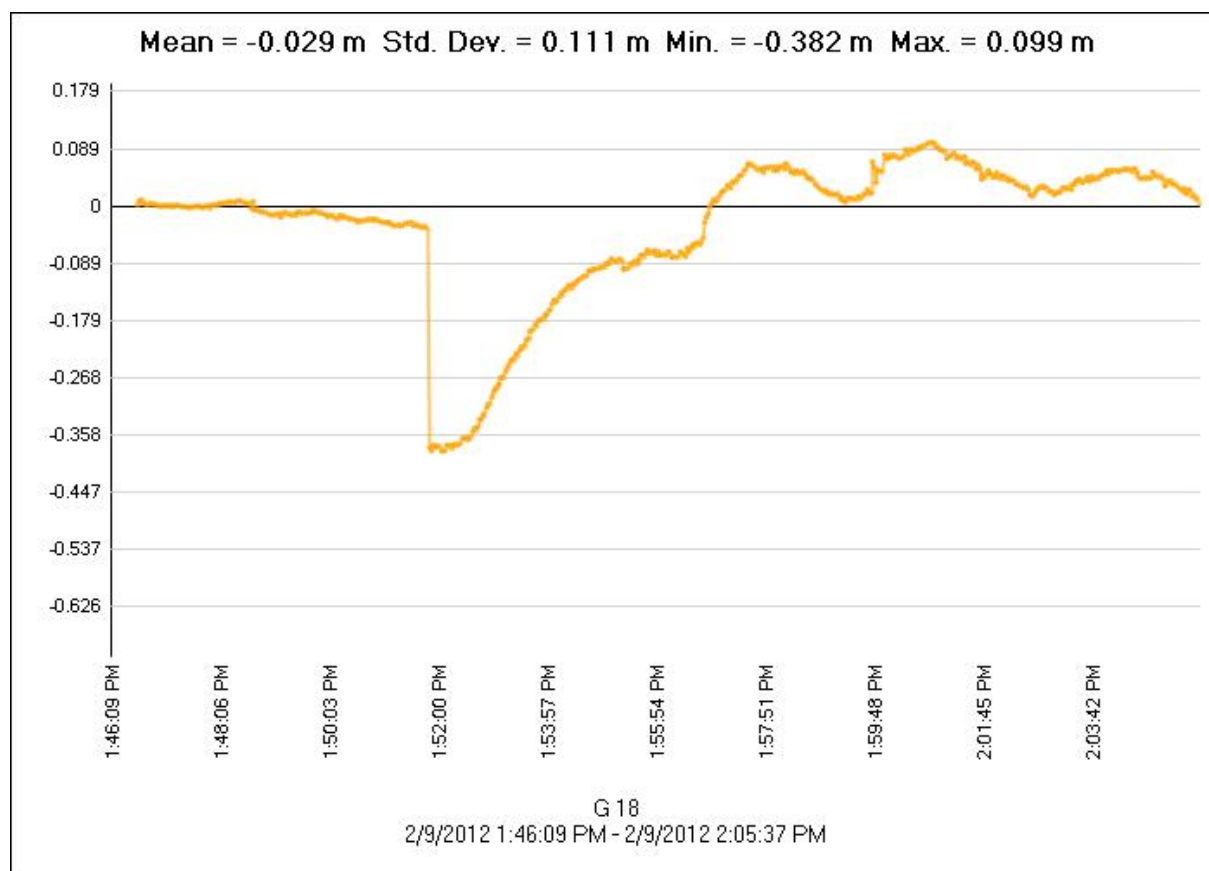
	From	To
Point ID:	HH0162	FVA23-B2
Data file:	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00010400.12o	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\0008040A.12o
Receiver type:	Unknown	Unknown
Receiver serial number:		
Antenna type:	Unknown External	Unknown External
Antenna serial number:	-----	-----
Antenna height (measured):	1.565 m	2.065 m
Antenna method:	Antenna Phase Center	Antenna Phase Center

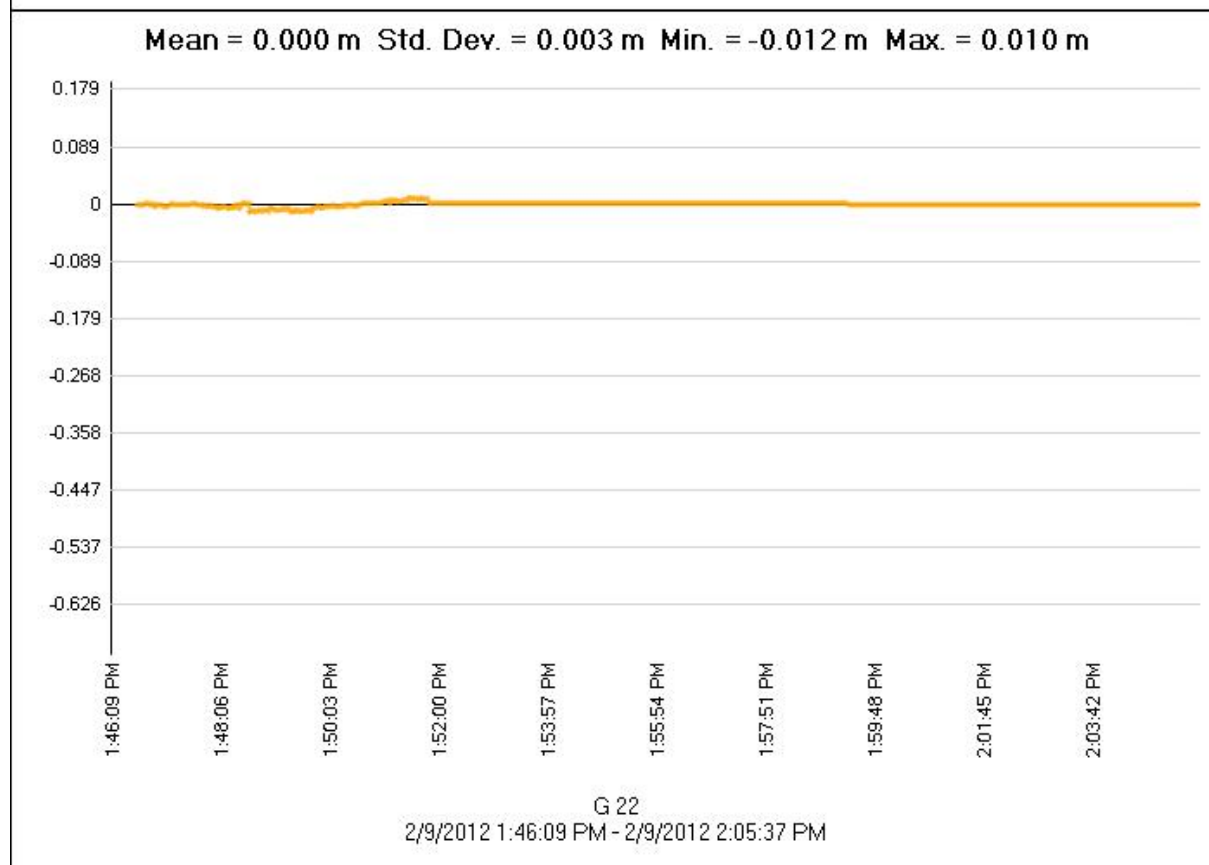
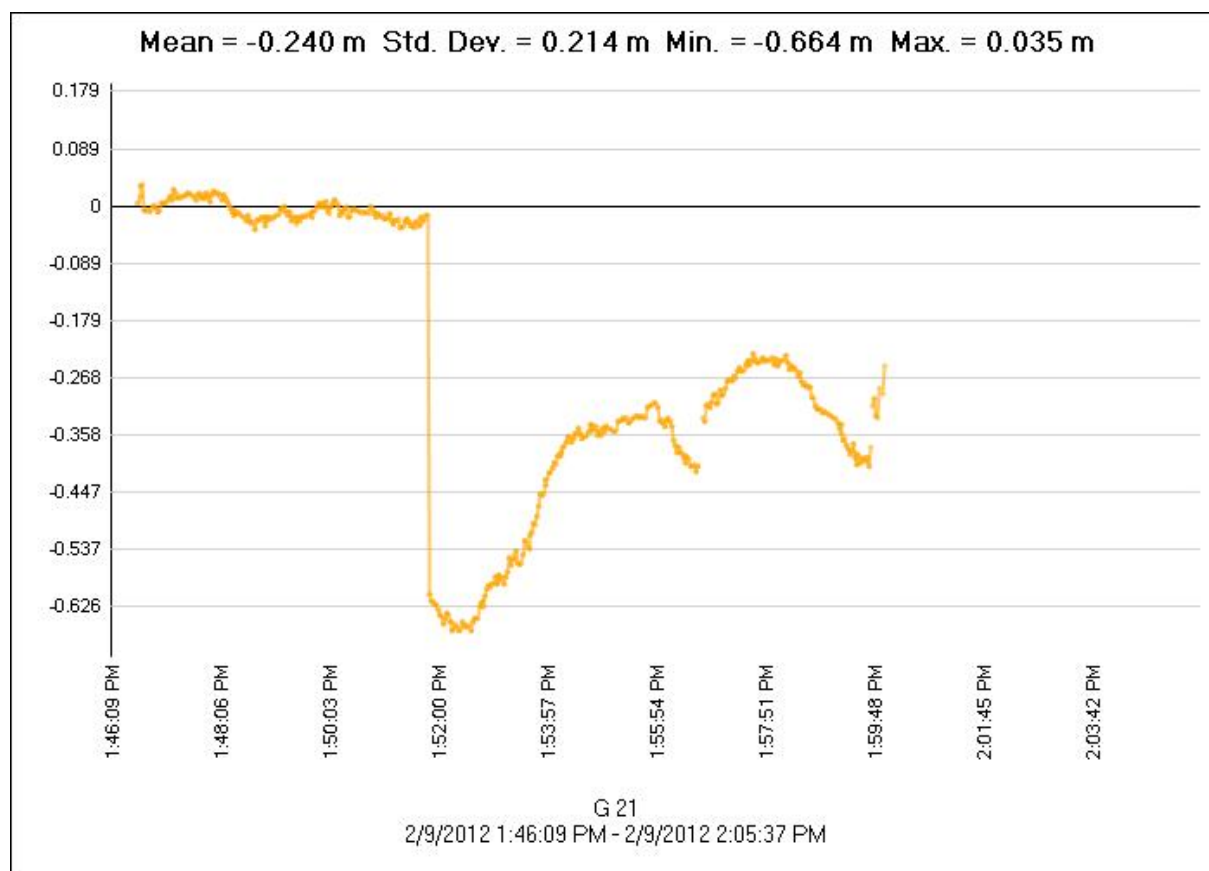
Tracking Summary



Residuals









Processing style

Elevation mask:	10.0 deg
Auto start processing:	Yes
Start automatic ID numbering:	AUTO0001
Continuous vectors:	No
Generate residuals:	Yes
Antenna model:	Automatic
Ephemeris type:	Automatic
Frequency:	Dual Frequency (L1, L2)
Processing Interval:	Use all data
Force float:	No

Acceptance Criteria

Vector Component	Flag 	Fail 
Horizontal Precision >	0.050 m + 1.000 ppm	0.100 m + 1.000 ppm
Vertical Precision >	0.100 m + 1.000 ppm	0.200 m + 1.000 ppm

HH0162 - SVA23-B2 (2:14:31 PM-2:33:29 PM) (S77)

Baseline observation: HH0162 --- SVA23-B2 (B77)

Processed: 3/21/2012 10:59:53 AM

Solution type: Fixed

Frequency used: Dual Frequency (L1, L2)

Horizontal precision: 0.029 m

Vertical precision: 0.031 m

RMS: 0.019 m

Maximum PDOP: 2.382

Ephemeris used: Broadcast

Antenna model: US National Geodetic Survey Calibration

Processing start time: 2/9/2012 2:14:31 PM (Local: UTC-7hr)

Processing stop time: 2/9/2012 2:33:29 PM (Local: UTC-7hr)

Processing duration: 00:18:58

Processing interval: .5 second

Vector Components (Mark to Mark)

From:	HH0162				
Grid		Local		Global	
Easting	334883.094 m	Latitude	N37°57'51.89981"	Latitude	N37°57'51.89980"
Northing	4203533.480 m	Longitude	W100°52'46.80868"	Longitude	W100°52'46.80868"
Elevation	875.739 m	Height	850.245 m	Height	850.245 m

To:	SVA23-B2				
Grid		Local		Global	
Easting	392430.637 m	Latitude	N38°02'36.47296"	Latitude	N38°02'36.47295"
Northing	4211346.776 m	Longitude	W100°13'33.24742"	Longitude	W100°13'33.24742"
Elevation	801.877 m	Height	776.214 m	Height	776.214 m

Vector					
9Ughb[	57547.543 m	NS Fwd Azimuth	81°06'39"	L	57454.796 m
BcfA\jb[	7813.297 m	Ellipsoid Dist.	58085.269 m	M	-5148.154 m
9Yj Uhcb	-73.862 m	<Y][\h	-74.030 m	N	6868.989 m

Standard Errors

Vector errors:					
Point ID	0.006 m	Point ID	0°00'00"	Point ID	0.007 m
Point ID	0.012 m	Point ID	0.007 m	Point ID	0.017 m
Point ID	0.016 m	Point ID	0.016 m	Point ID	0.009 m

Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0000428034		
Y	0.0000407059	0.0003026453	
Z	0.0000218282	-0.0000300418	0.0000798814

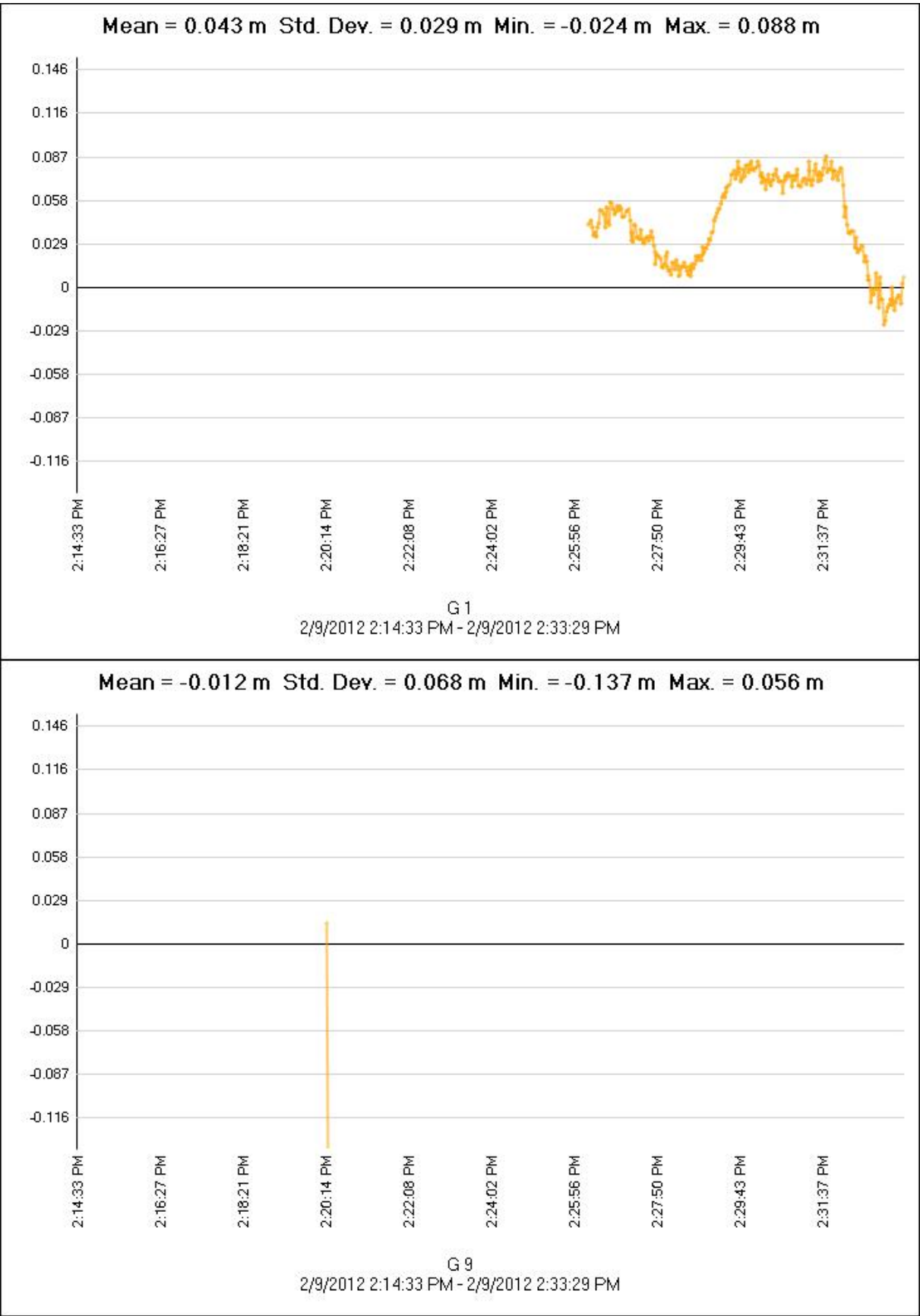
Occupations

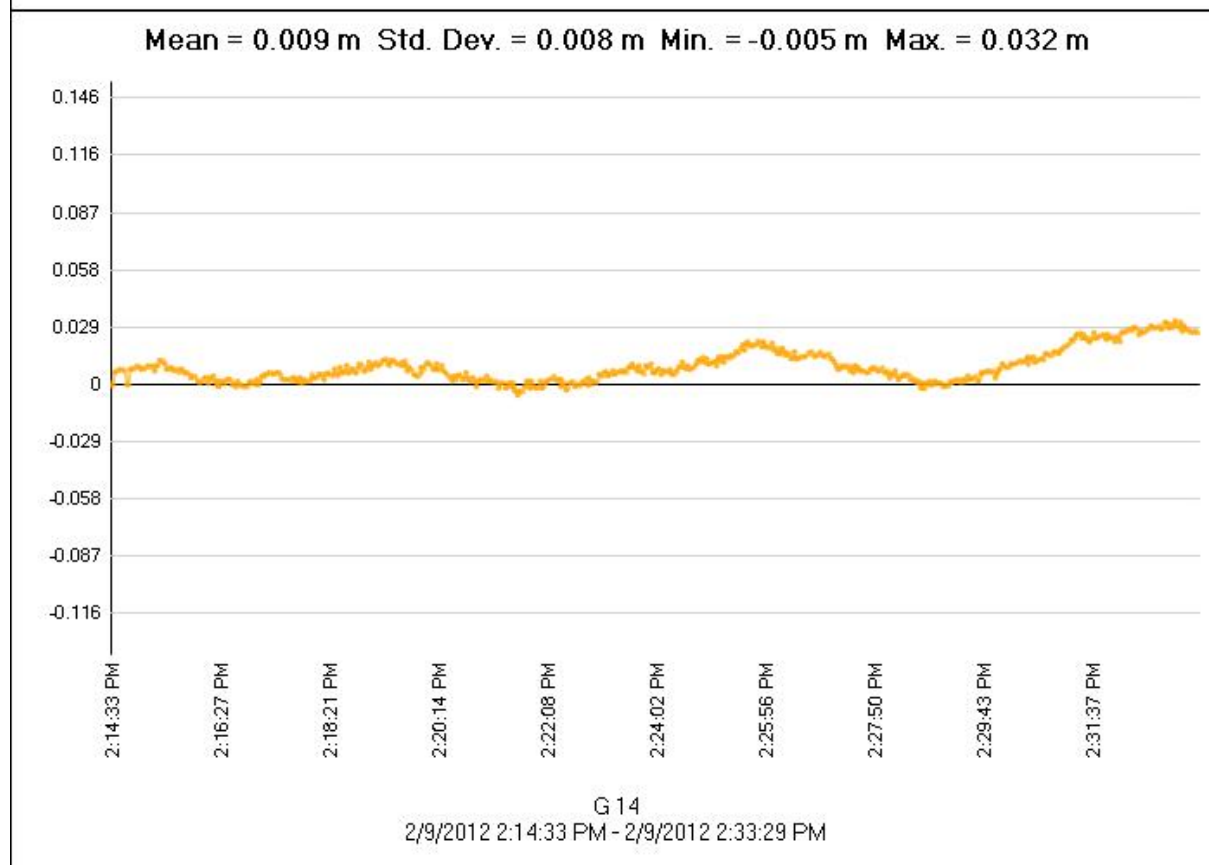
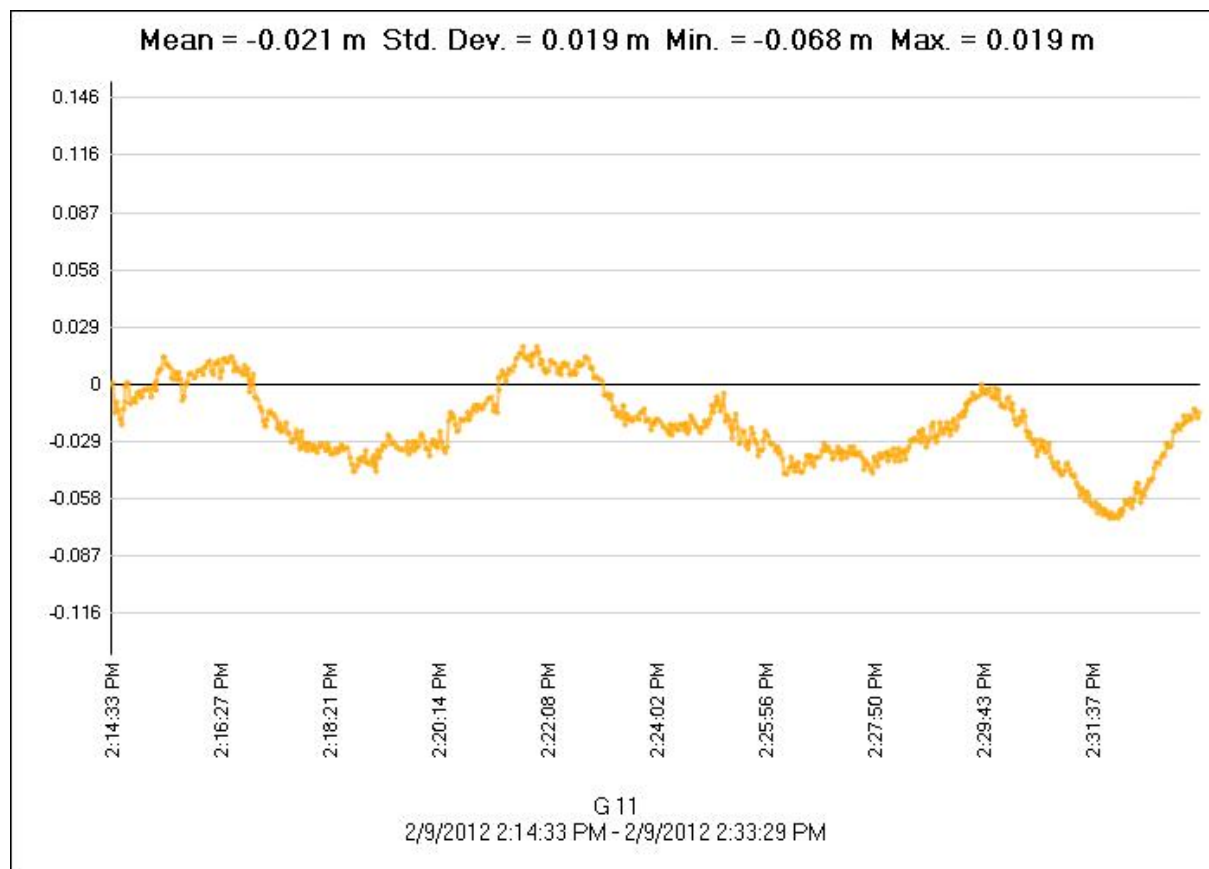
	From	To
Point ID:	HH0162	SVA23-B2
Data file:	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00010400.12o	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\0008040B.12o
Receiver type:	Unknown	Unknown
Receiver serial number:		
Antenna type:	Unknown External	Unknown External
Antenna serial number:	-----	-----
Antenna height (measured):	1.565 m	2.065 m
Antenna method:	Antenna Phase Center	Antenna Phase Center

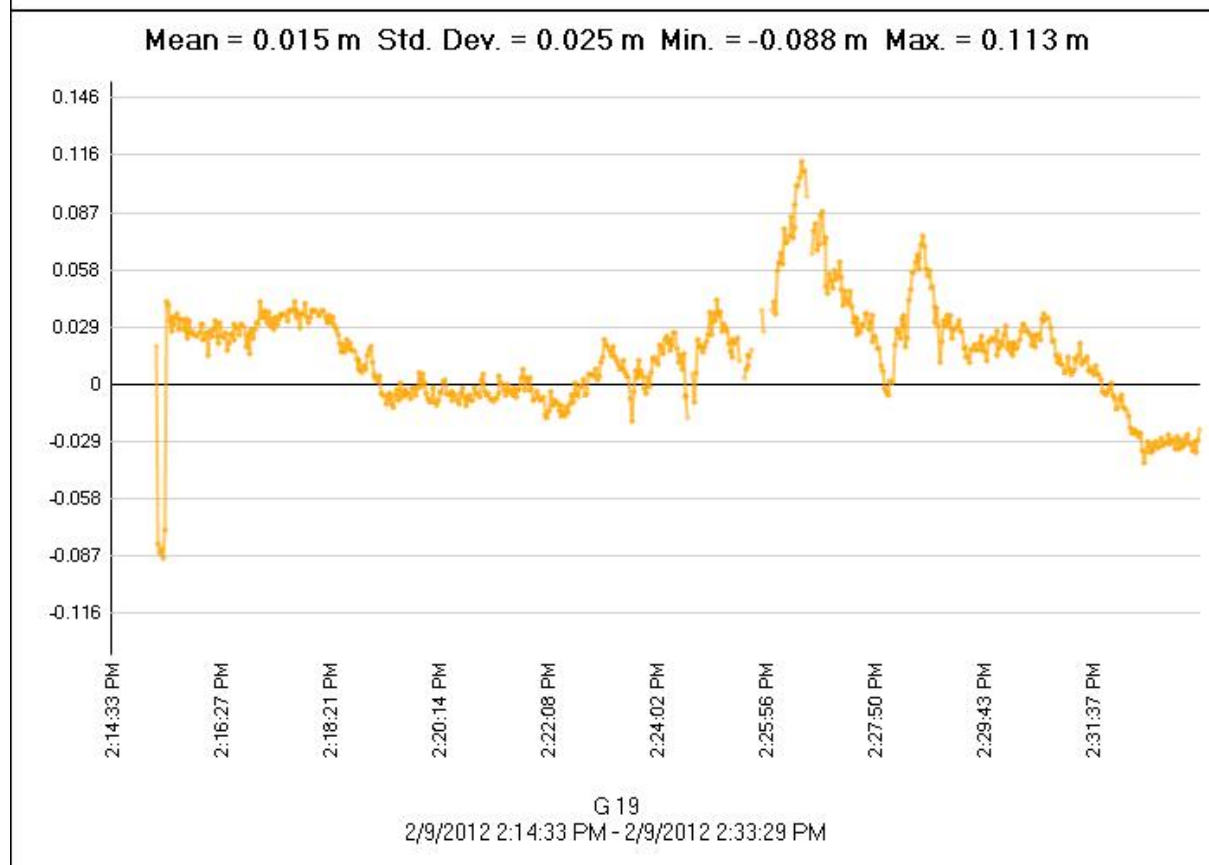
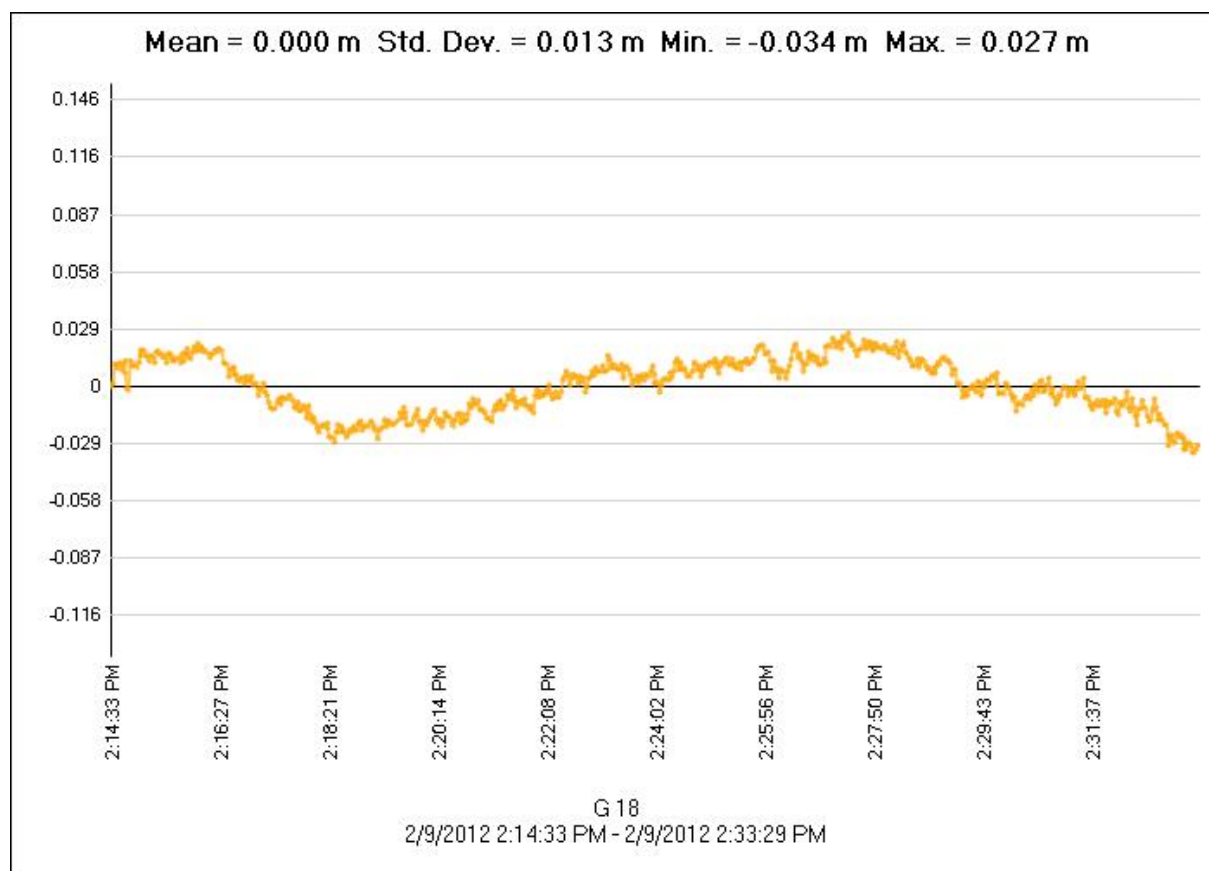
Tracking Summary

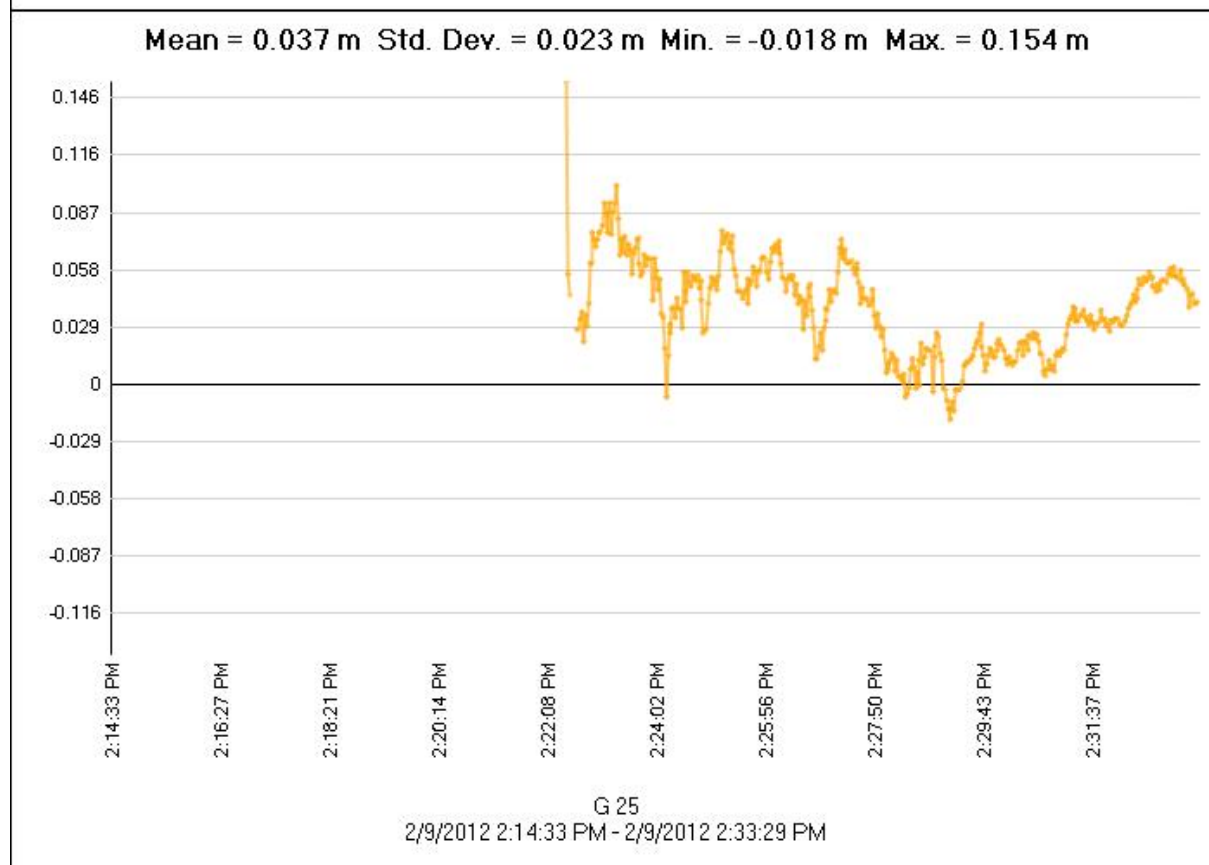
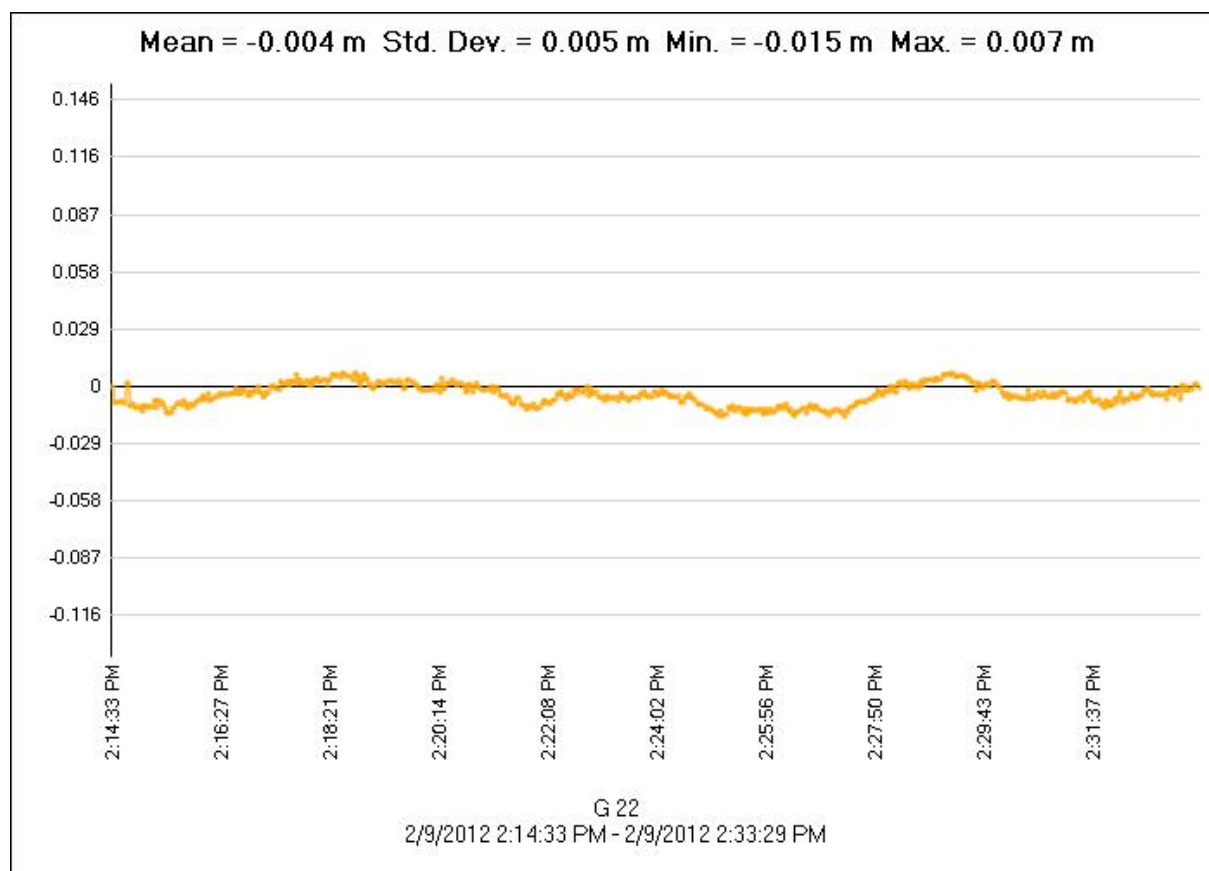
SV	2/9/2012 2:14:31 PM	Duration: 00:18:58	Major interval: 00:01:00	2/9/2012 2:33:29 PM
G1	L1 L2			
G9	L1 L2			
G11	L1 L2			
G12	L1 L2			
G14	L1 L2			
G18	L1 L2			
G19	L1 L2			
G21	L1 L2			
G22	L1 L2			
G25	L1 L2			
G31	L1 L2			
G32	L1 L2			

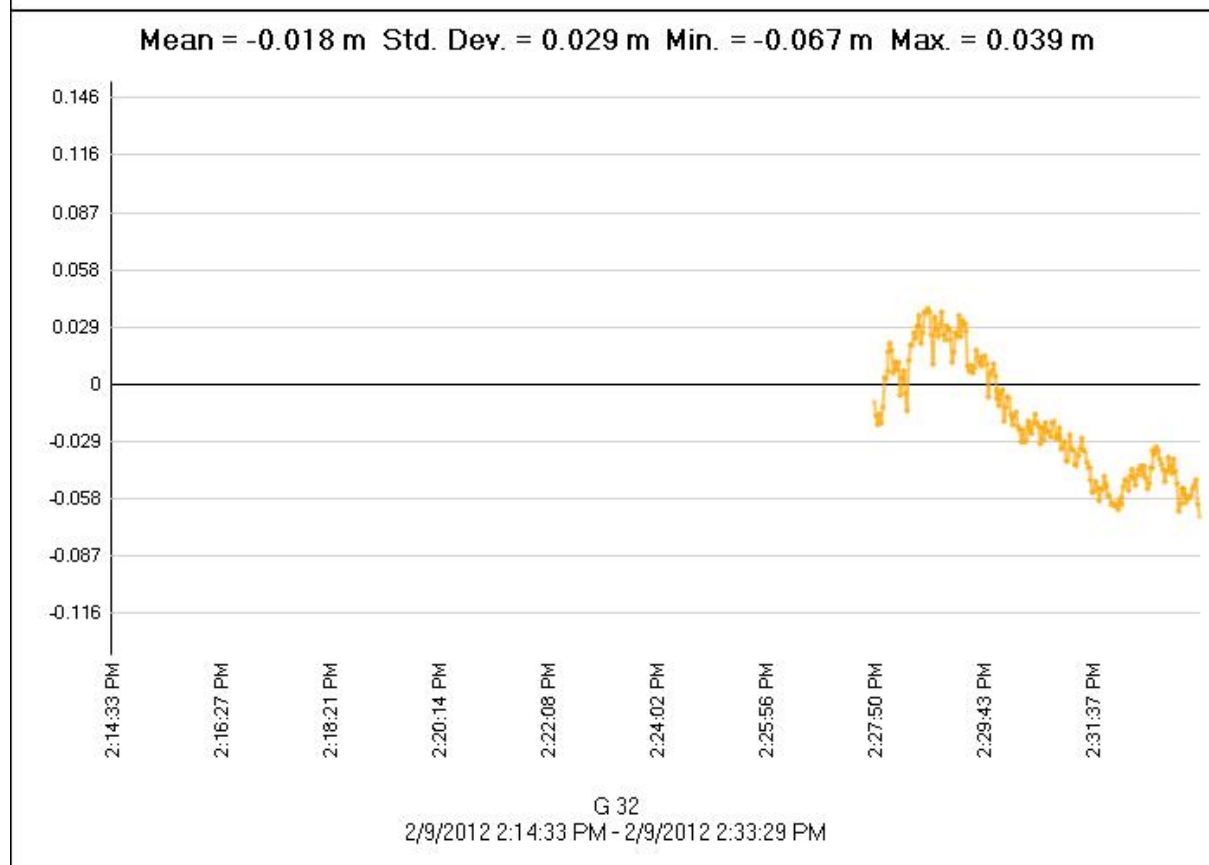
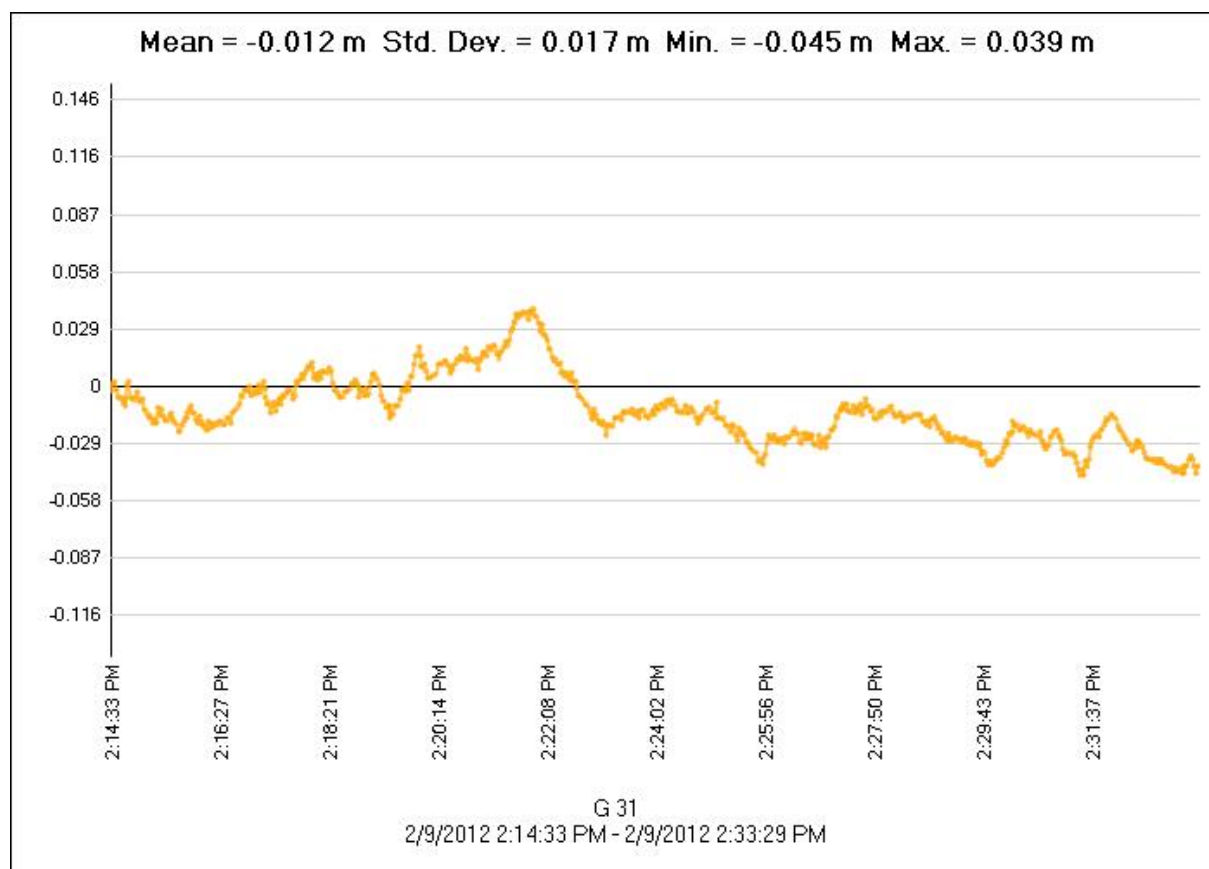
Residuals













Processing style

Elevation mask:	10.0 deg
Auto start processing:	Yes
Start automatic ID numbering:	AUTO0001
Continuous vectors:	No
Generate residuals:	Yes
Antenna model:	Automatic
Ephemeris type:	Automatic
Frequency:	Dual Frequency (L1, L2)
Processing Interval:	Use all data
Force float:	No

Acceptance Criteria

Vector Component	Flag 	Fail 
Horizontal Precision >	0.050 m + 1.000 ppm	0.100 m + 1.000 ppm
Vertical Precision >	0.100 m + 1.000 ppm	0.200 m + 1.000 ppm

HH0162 - FVA66-B2 (2:51:13 PM-3:13:54 PM) (S78)

Baseline observation: HH0162 --- FVA66-B2 (B78)

Processed: 3/21/2012 10:59:45 AM

Solution type: Fixed

Frequency used: Dual Frequency (L1, L2)

Horizontal precision: 0.055 m

Vertical precision: 0.062 m

RMS: 0.009 m

Maximum PDOP: 2.528

Ephemeris used: Broadcast

Antenna model: US National Geodetic Survey Calibration

Processing start time: 2/9/2012 2:51:13 PM (Local: UTC-7hr)

Processing stop time: 2/9/2012 3:13:54 PM (Local: UTC-7hr)

Processing duration: 00:22:40

Processing interval: .5 second

Vector Components (Mark to Mark)

From:	HH0162				
Grid		Local		Global	
Easting	334883.094 m	Latitude	N37°57'51.89981"	Latitude	N37°57'51.89980"
Northing	4203533.480 m	Longitude	W100°52'46.80868"	Longitude	W100°52'46.80868"
Elevation	875.739 m	Height	850.245 m	Height	850.245 m

To:	FVA66-B2				
Grid		Local		Global	
Easting	390574.417 m	Latitude	N37°56'34.98766"	Latitude	N37°56'34.98765"
Northing	4200227.852 m	Longitude	W100°14'43.28292"	Longitude	W100°14'43.28292"
Elevation	819.240 m	Height	793.573 m	Height	793.573 m

Vector					
9Ughb[	55691.324 m	NS Fwd Azimuth	92°14'26"	L	54551.192 m
Bcfh\jb[	-3305.628 m	Ellipsoid Dist.	55798.534 m	M	-11610.341 m
9Yj Uhcb	-56.499 m	<Y][\h	-56.672 m	N	-1904.935 m

Standard Errors

Vector errors:

Point ID	0.017 m	Point Description	0°00'00"	Point Type	0.019 m
Point ID	0.018 m	Point Description	0.016 m	Point Type	0.029 m
Point ID	0.031 m	Point Description	0.031 m	Point Type	0.019 m

Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0003710476		
Y	0.0002969686	0.0008545165	
Z	0.0000548239	-0.0002834354	0.0003720099

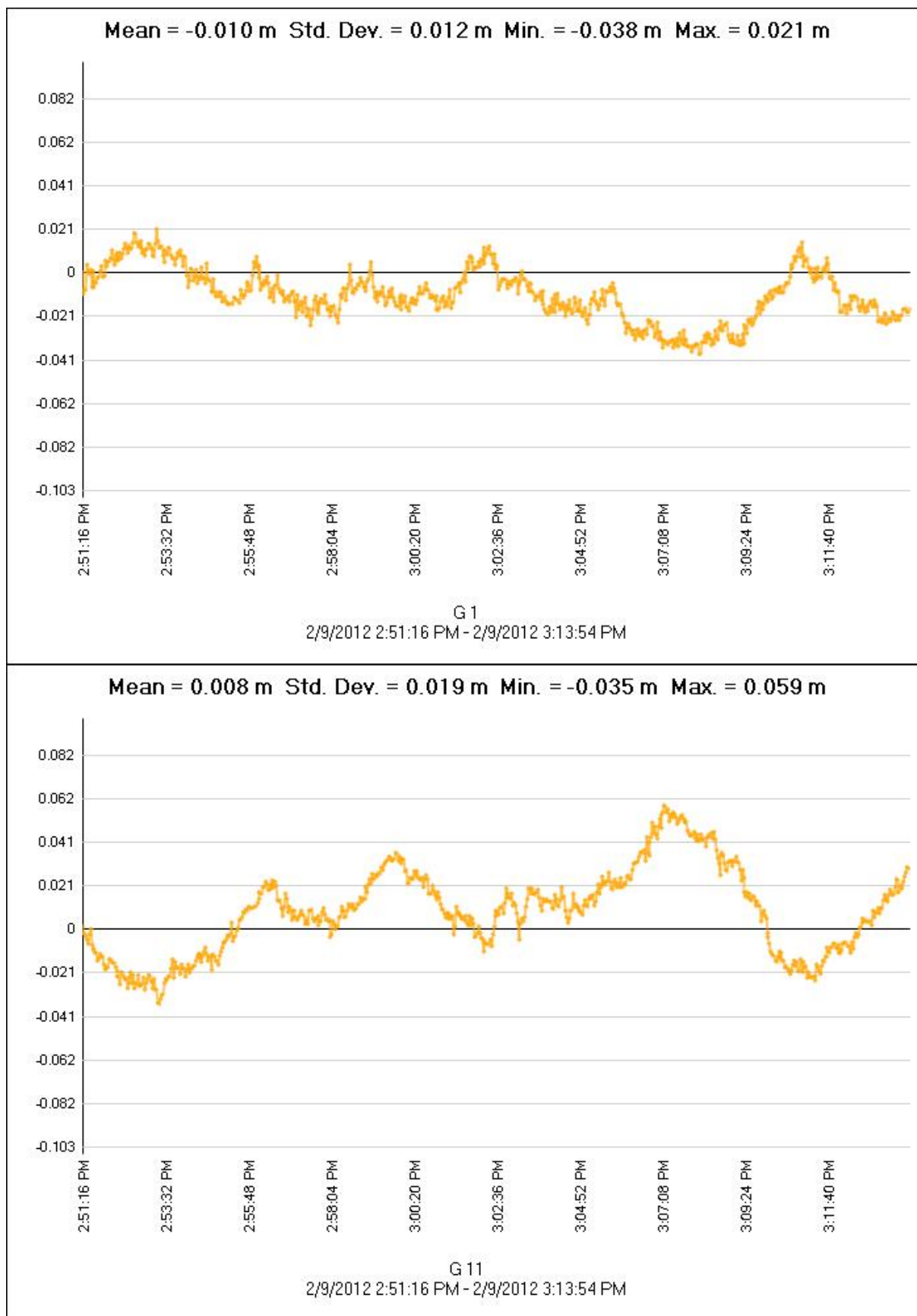
Occupations

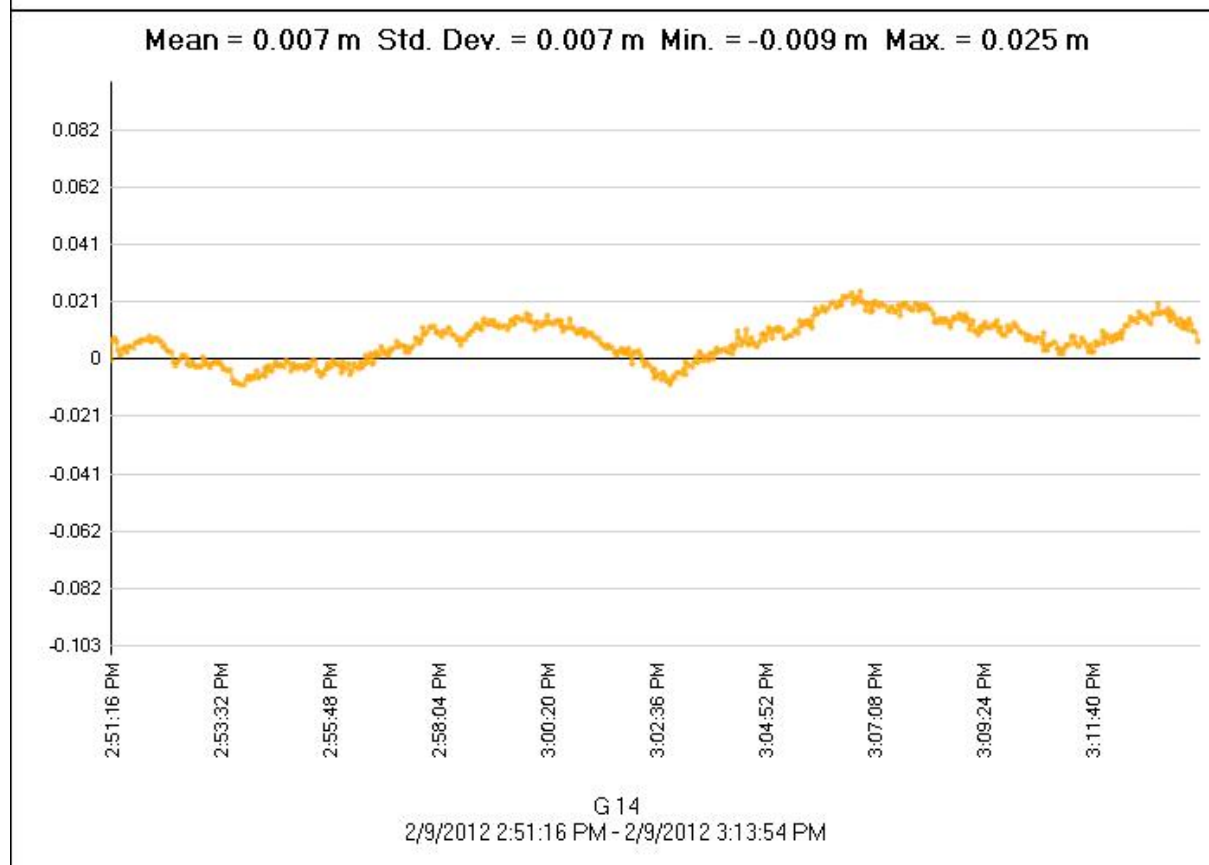
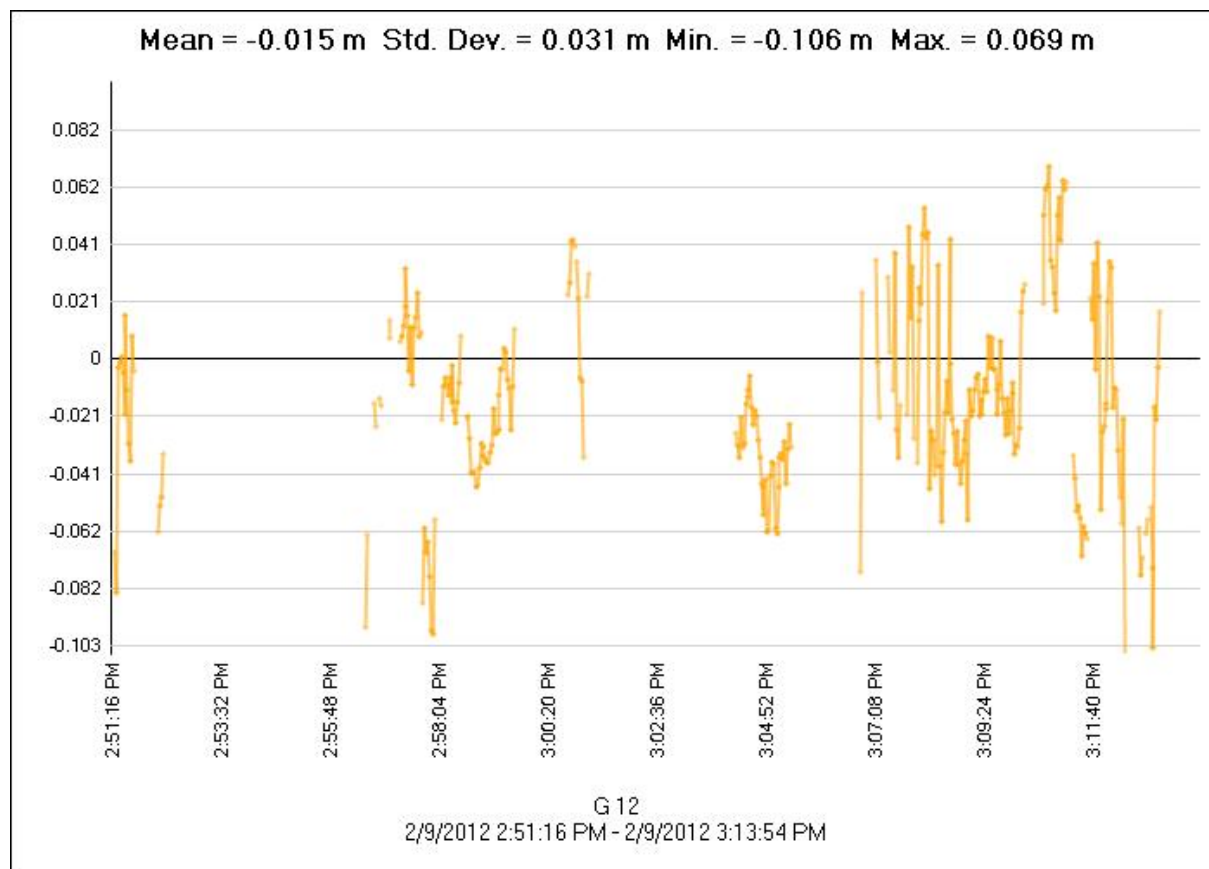
	From	To
Point ID:	HH0162	FVA66-B2
Data file:	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00010400.12o	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\0008040C.12o
Receiver type:	Unknown	Unknown
Receiver serial number:		
Antenna type:	Unknown External	Unknown External
Antenna serial number:	-----	-----
Antenna height (measured):	1.565 m	2.065 m
Antenna method:	Antenna Phase Center	Antenna Phase Center

Tracking Summary

SV	2/9/2012 2:51:13 PM	Duration: 00:22:40.5000000	Major interval: 00:01:00	2/9/2012 3:13:54 PM
G1				
G9				
G11				
G12				
G14				
G18				
G19				
G20				
G22				
G25				
G31				
G32				

Residuals





Mean = 0.021 m Std. Dev. = 0.039 m Min. = -0.099 m Max. = 0.083 m

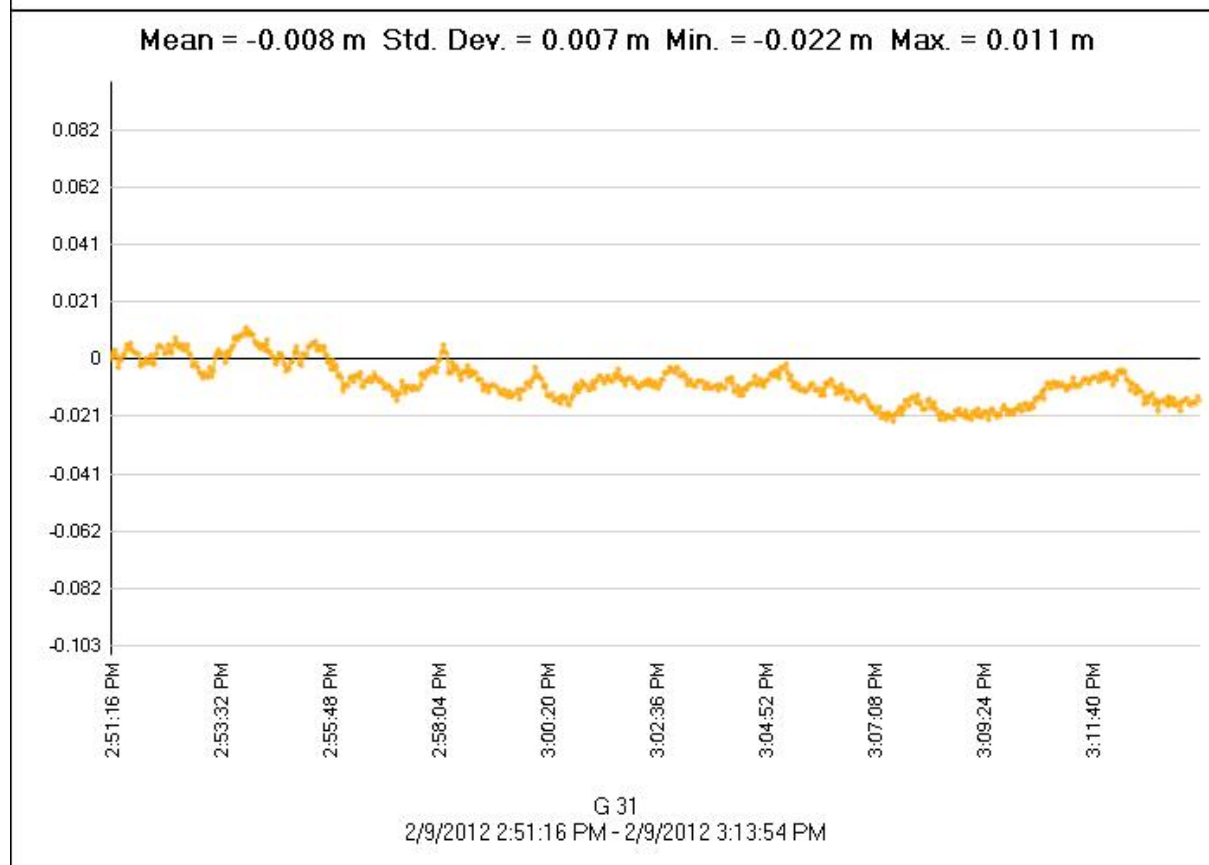
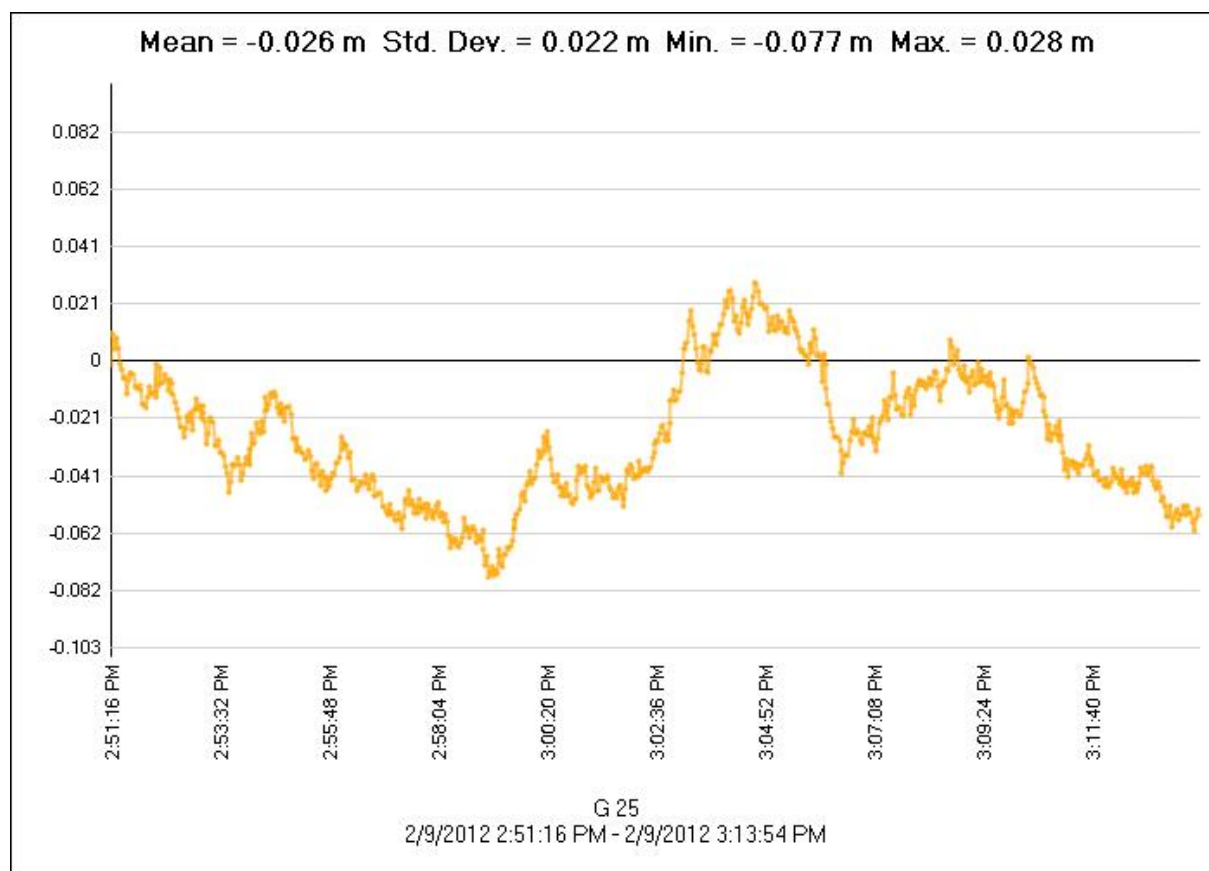


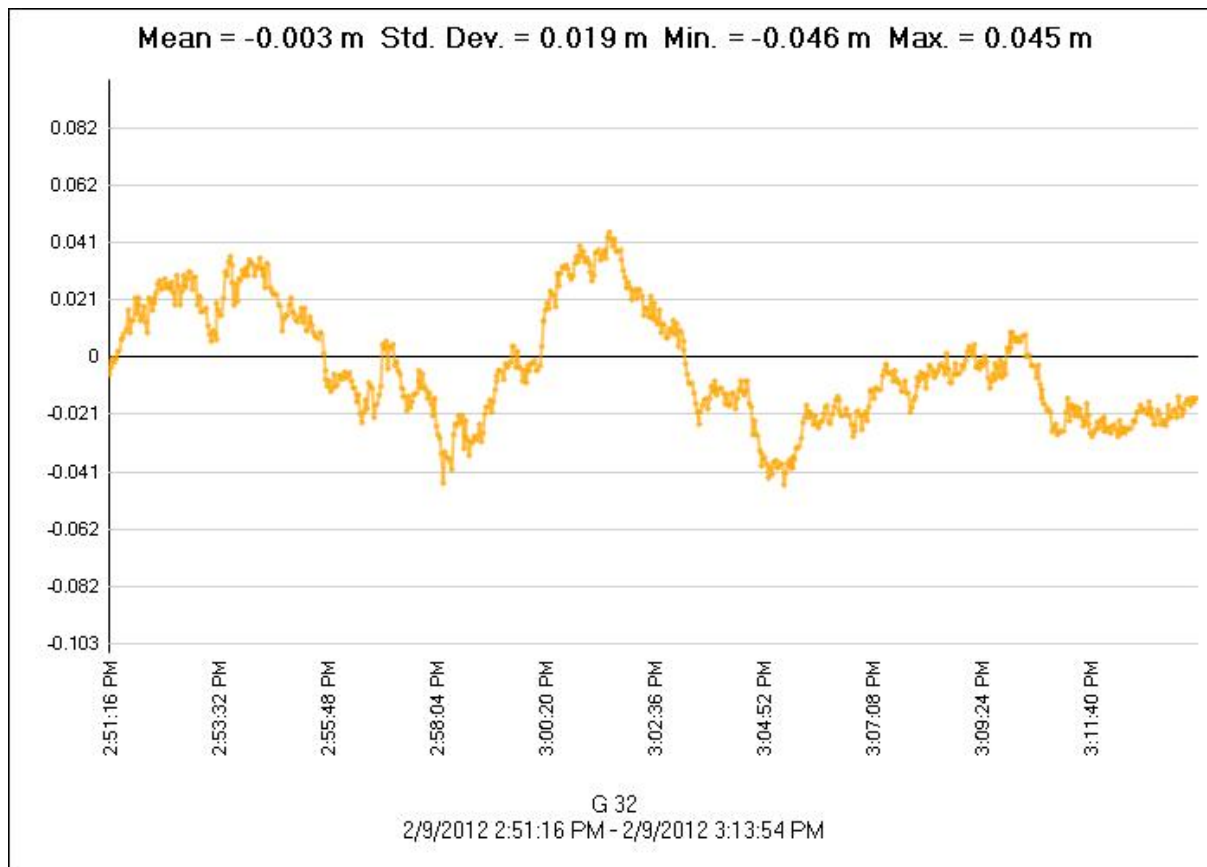
G 18
2/9/2012 2:51:16 PM - 2/9/2012 3:13:54 PM

Mean = 0.003 m Std. Dev. = 0.010 m Min. = -0.018 m Max. = 0.025 m



G 22
2/9/2012 2:51:16 PM - 2/9/2012 3:13:54 PM





Processing style

Elevation mask:	10.0 deg
Auto start processing:	Yes
Start automatic ID numbering:	AUTO0001
Continuous vectors:	No
Generate residuals:	Yes
Antenna model:	Automatic
Ephemeris type:	Automatic
Frequency:	Dual Frequency (L1, L2)
Processing Interval:	Use all data
Force float:	No

Acceptance Criteria

Vector Component	Flag 	Fail 
Horizontal Precision >	0.050 m + 1.000 ppm	0.100 m + 1.000 ppm
Vertical Precision >	0.100 m + 1.000 ppm	0.200 m + 1.000 ppm

HH0162 - SVA66-B2 (3:20:40 PM-3:39:34 PM) (S79)

Baseline observation: HH0162 --- SVA66-B2 (B79)

Processed: 3/21/2012 11:31:59 AM

Solution type: Fixed

Frequency used: Dual Frequency (L1, L2)

Horizontal precision: 0.030 m

Vertical precision: 0.029 m

RMS: 0.007 m

Maximum PDOP: 2.737

Ephemeris used: Broadcast

Antenna model: US National Geodetic Survey Calibration

Processing start time: 2/9/2012 3:20:40 PM (Local: UTC-7hr)

Processing stop time: 2/9/2012 3:39:34 PM (Local: UTC-7hr)

Processing duration: 00:18:53

Processing interval: .5 second

Vector Components (Mark to Mark)

From:	HH0162				
Grid		Local		Global	
Easting	334882.427 m	Latitude	N37°57'51.86394"	Latitude	N37°57'51.86394"
Northing	4203532.387 m	Longitude	W100°52'46.83509"	Longitude	W100°52'46.83509"
Elevation	877.100 m	Height	851.606 m	Height	851.606 m

To:	SVA66-B2				
Grid		Local		Global	
Easting	388917.916 m	Latitude	N37°56'35.50101"	Latitude	N37°56'35.50101"
Northing	4200265.987 m	Longitude	W100°15'51.15767"	Longitude	W100°15'51.15767"
Elevation	818.671 m	Height	792.999 m	Height	792.999 m

Vector					
9Ughb[	54035.489 m	NS Fwd Azimuth	92°18'11"	L	52922.960 m
Bcfh\jb[	-3266.400 m	Ellipsoid Dist.	54142.901 m	M	-11303.642 m
9Yj Uhcb	-58.429 m	<Y][\h	-58.607 m	N	-1892.770 m

Standard Errors

Vector errors:					
Point ID	0.005 m	Point ID	0°00'00"	Point ID	0.006 m
Point ID	0.012 m	Point ID	0.006 m	Point ID	0.010 m
Point ID	0.015 m	Point ID	0.015 m	Point ID	0.016 m

Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0000395733		
Y	0.0000317716	0.0000918791	
Z	-0.0000687423	-0.0000458678	0.0002551373

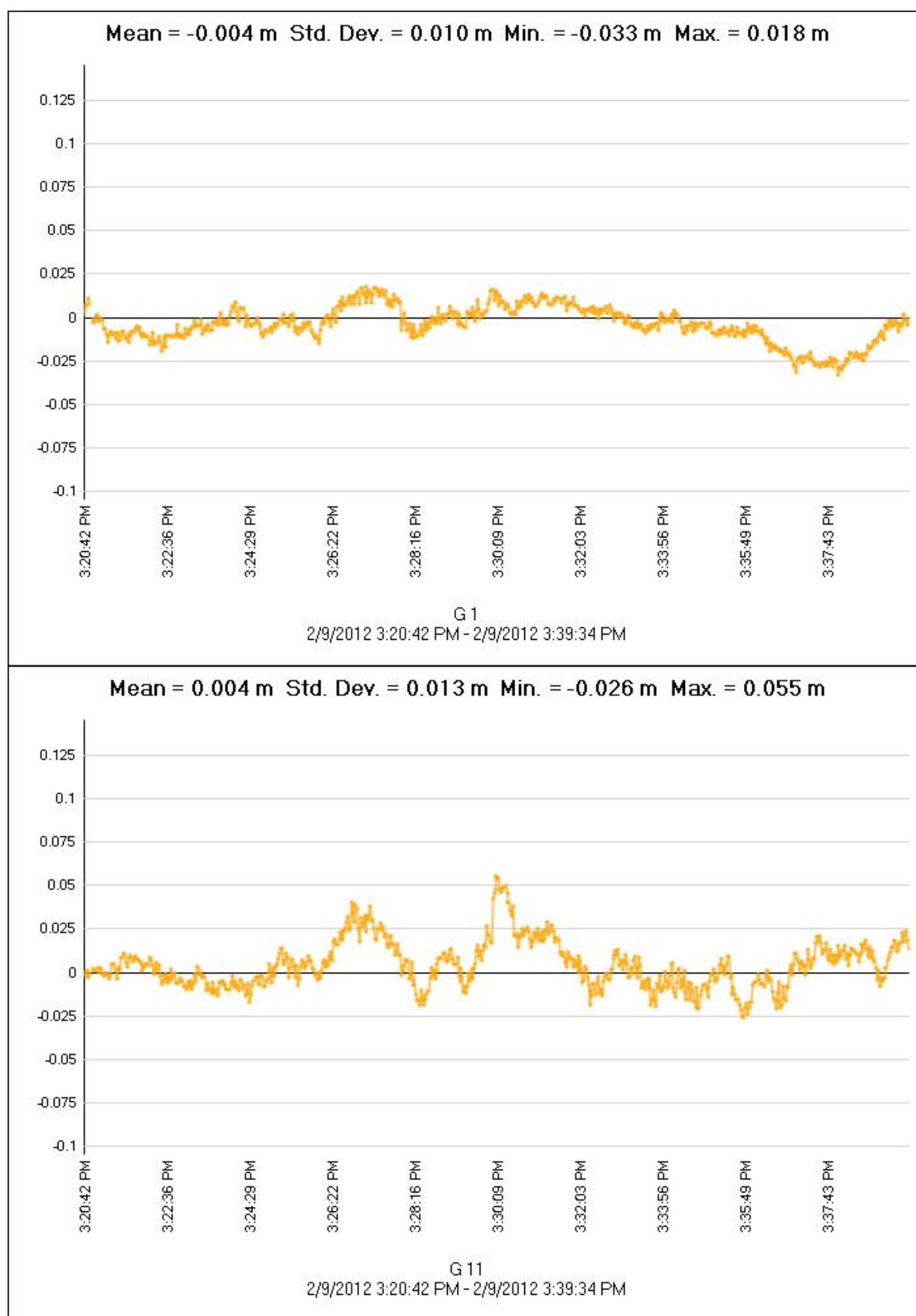
Occupations

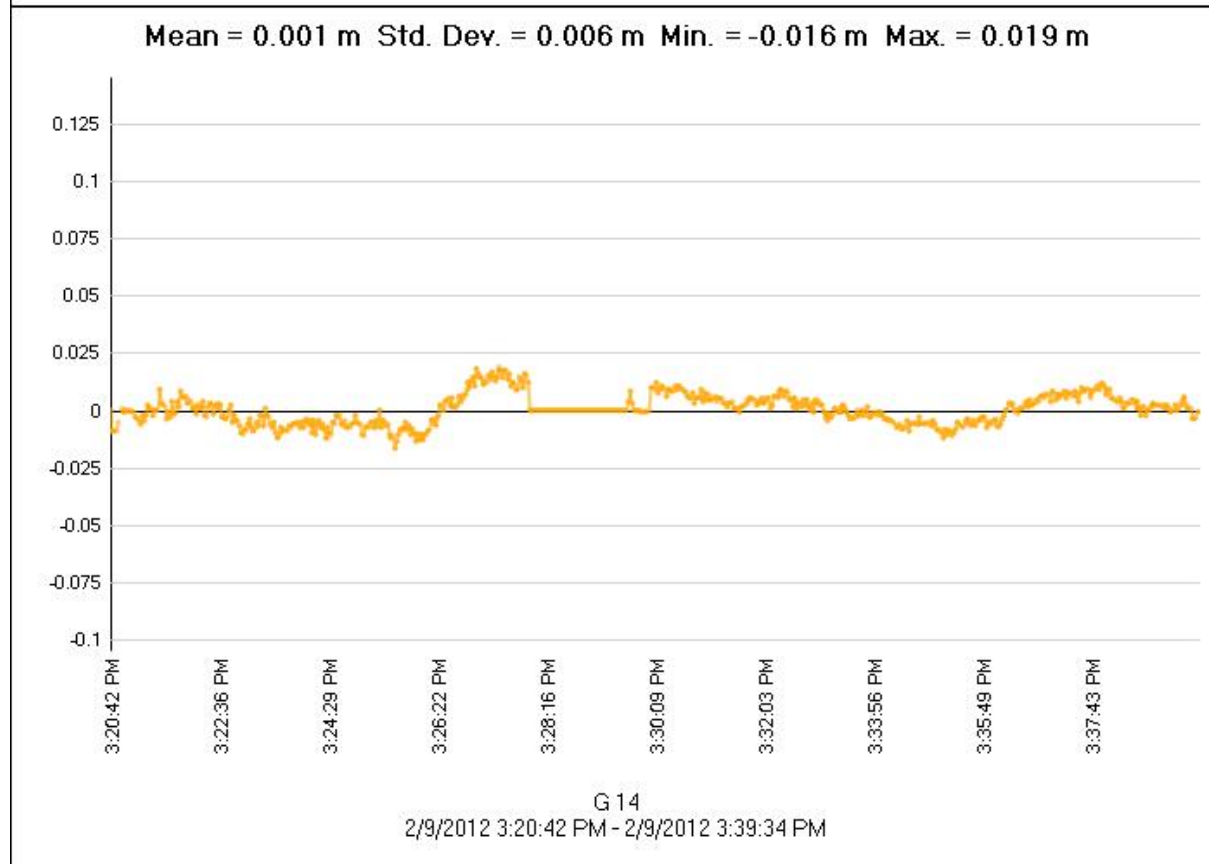
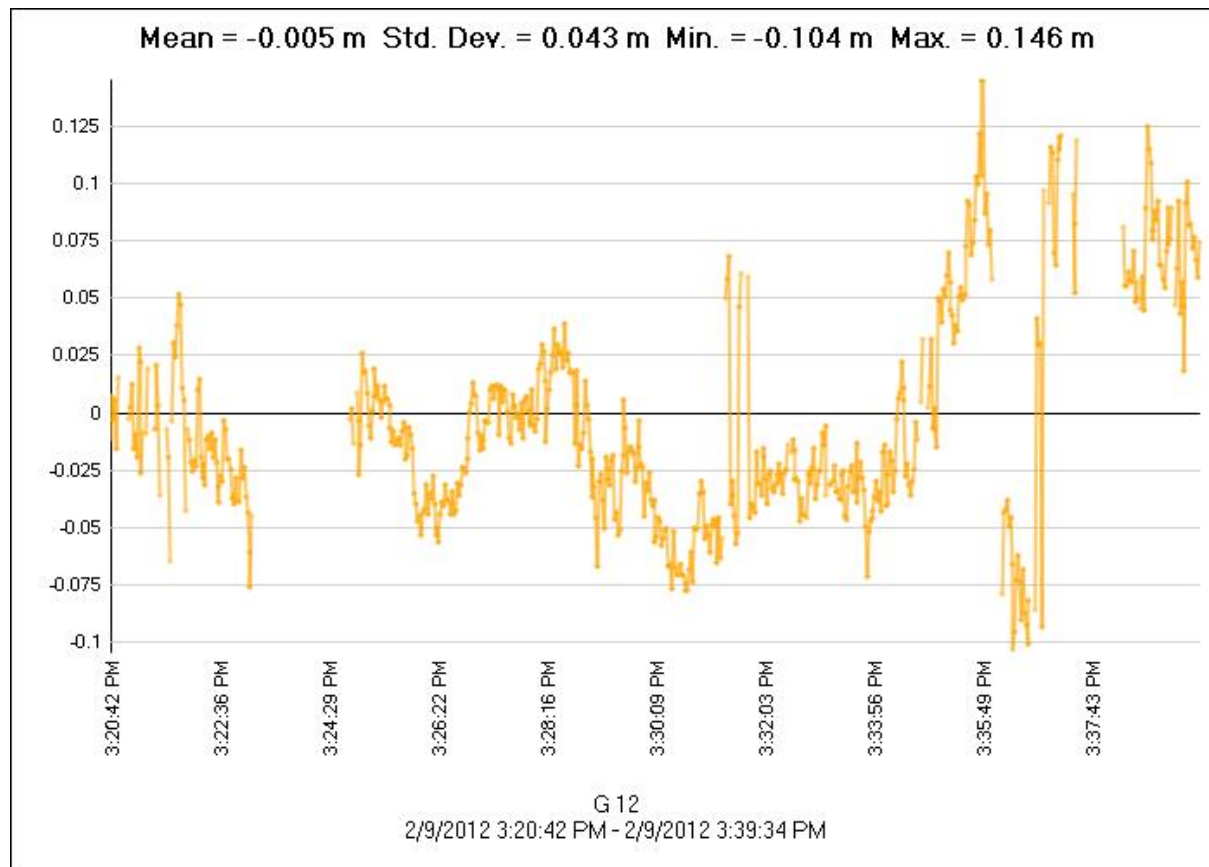
	From	To
Point ID:	HH0162	SVA66-B2
Data file:	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00010400.12o	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\0008040D.12o
Receiver type:	Unknown	Unknown
Receiver serial number:		
Antenna type:	Unknown External	Unknown External
Antenna serial number:	-----	-----
Antenna height (measured):	1.565 m	2.065 m
Antenna method:	Antenna Phase Center	Antenna Phase Center

Tracking Summary

SV	2/9/2012 3:20:40 PM	Duration: 00:18:53.5000000	Major interval: 00:01:00	2/9/2012 3:39:34 PM
G 1	L1 L2			
G 11	L1 L2			
G 12	L1 L2			
G 14	L1 L2			
G 18	L1 L2			
G 20	L1 L2			
G 22	L1 L2			
G 25	L1 L2			
G 30	L1 L2			
G 31	L1 L2			
G 32	L1 L2			

Residuals





Mean = 0.004 m Std. Dev. = 0.009 m Min. = -0.023 m Max. = 0.037 m



G 22

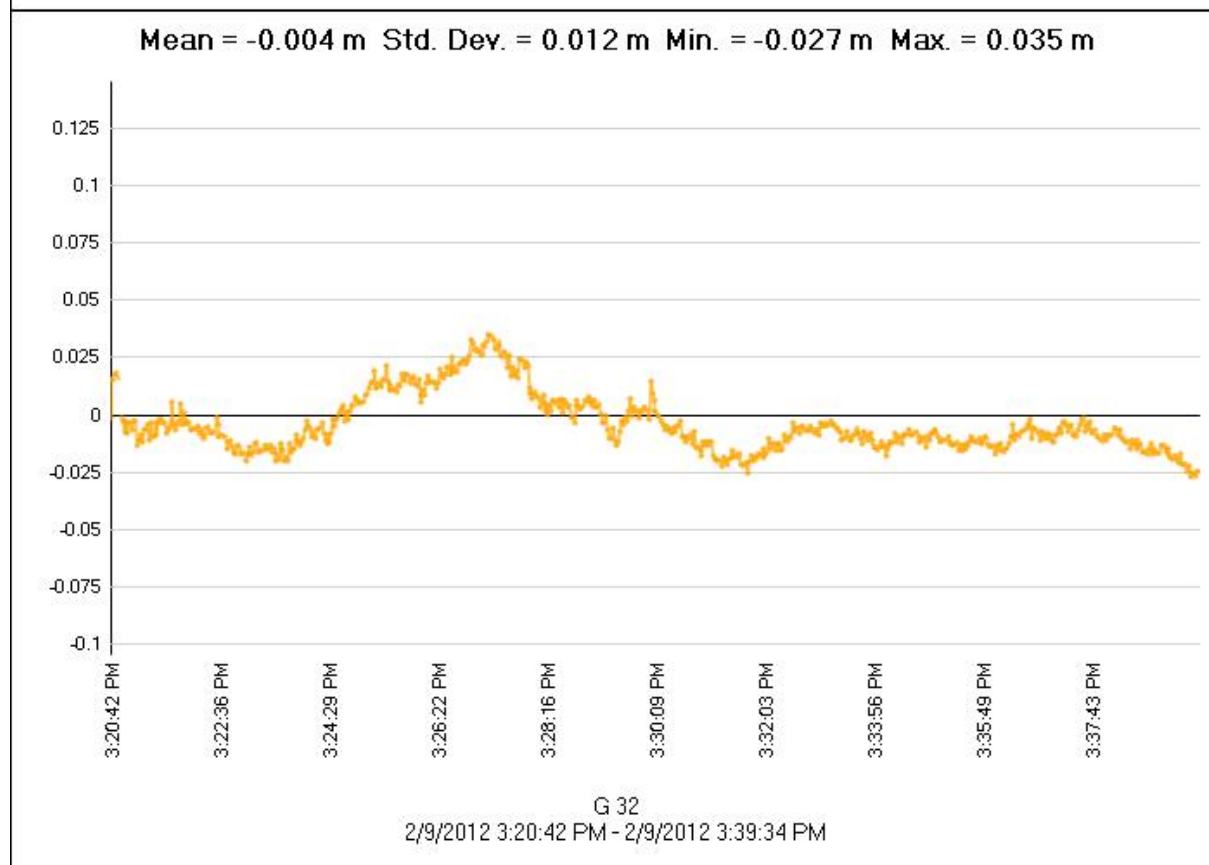
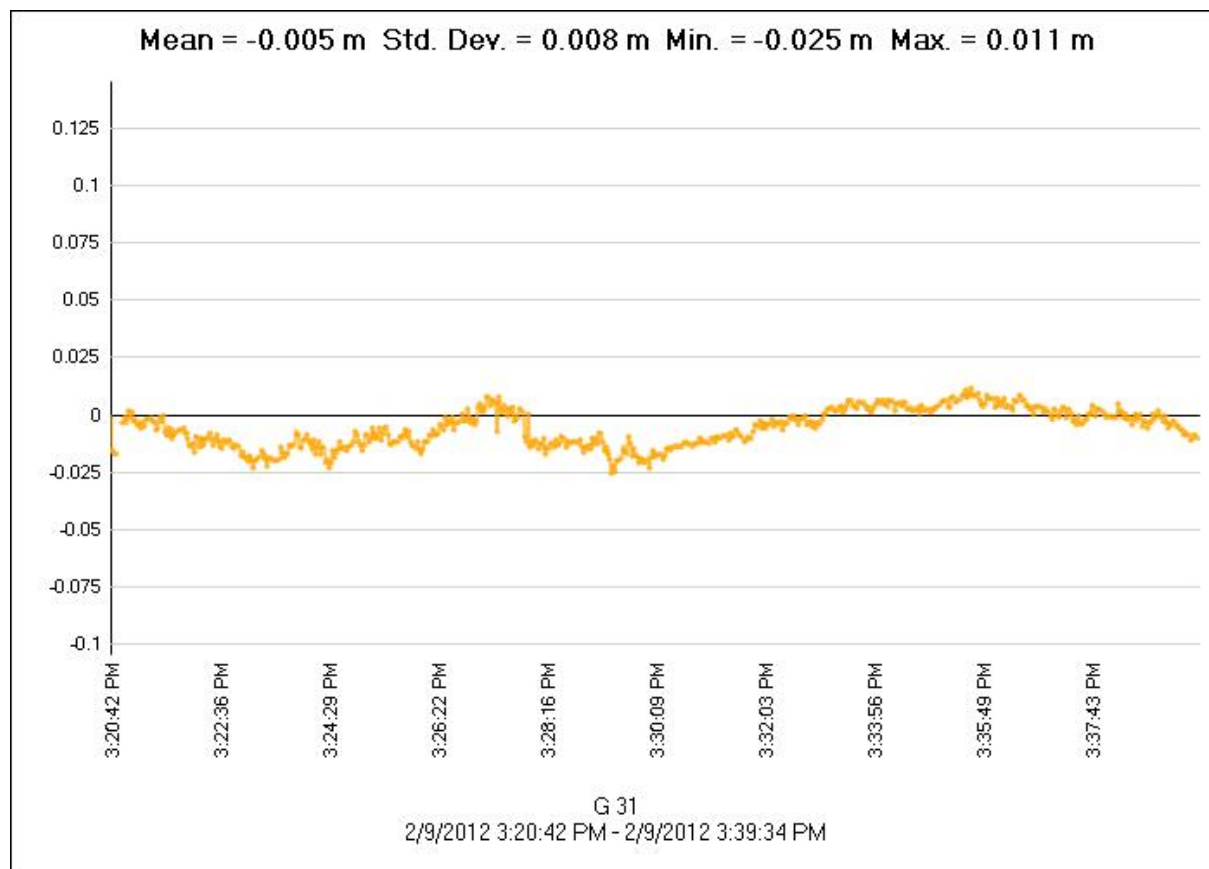
2/9/2012 3:20:42 PM - 2/9/2012 3:39:34 PM

Mean = -0.011 m Std. Dev. = 0.013 m Min. = -0.058 m Max. = 0.025 m



G 25



2/9/2012 3:20:42 PM - 2/9/2012 3:39:34 PM



Processing style

Elevation mask:	10.0 deg
Auto start processing:	Yes
Start automatic ID numbering:	AUTO0001
Continuous vectors:	No
Generate residuals:	Yes
Antenna model:	Automatic
Ephemeris type:	Automatic
Frequency:	Dual Frequency (L1, L2)
Processing Interval:	Use all data
Force float:	No

Acceptance Criteria

Vector Component	Flag 	Fail 
Horizontal Precision >	0.050 m + 1.000 ppm	0.100 m + 1.000 ppm
Vertical Precision >	0.100 m + 1.000 ppm	0.200 m + 1.000 ppm

HH0162 - SVA36-B2 (9:59:12 AM-10:19:46 AM) (S86)

Baseline observation: HH0162 --- SVA36-B2 (B86)

Processed: 3/21/2012 11:31:53 AM

Solution type: Fixed

Frequency used: Dual Frequency (L1, L2)

Horizontal precision: 0.028 m

Vertical precision: 0.075 m

RMS: 0.012 m

Maximum PDOP: 4.014

Ephemeris used: Broadcast

Antenna model: US National Geodetic Survey Calibration

Processing start time: 2/10/2012 9:59:12 AM (Local: UTC-7hr)

Processing stop time: 2/10/2012 10:19:46 AM (Local: UTC-7hr)

Processing duration: 00:20:34

Processing interval: .5 second

Vector Components (Mark to Mark)

From:	HH0162				
Grid		Local		Global	
Easting	334882.427 m	Latitude	N37°57'51.86394"	Latitude	N37°57'51.86394"
Northing	4203532.387 m	Longitude	W100°52'46.83509"	Longitude	W100°52'46.83509"
Elevation	877.100 m	Height	851.606 m	Height	851.606 m

To:	SVA36-B2				
Grid		Local		Global	
Easting	322281.972 m	Latitude	N38°00'13.98073"	Latitude	N38°00'13.98073"
Northing	4208179.262 m	Longitude	W101°01'27.07982"	Longitude	W101°01'27.07982"
Elevation	908.757 m	Height	883.436 m	Height	883.436 m

Vector					
9Ughb[	-12600.455 m	NS Fwd Azimuth	289°05'10"	L	-11958.433 m
Bcfh\jb[	4646.875 m	Ellipsoid Dist.	13430.510 m	M	5035.660 m
9Yj Uhcb	31.657 m	<Y][\h	31.830 m	N	3473.700 m

Standard Errors

Vector errors:					
Point ID	0.009 m	Point Description	0°00'00"	Point Type	0.011 m
Point ID	0.010 m	Point Description	0.007 m	Point Type	0.030 m
Point ID	0.038 m	Point Description	0.038 m	Point Type	0.025 m













Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0001168635		
Y	0.0001956955	0.0009049653	
Z	-0.0001096116	-0.0006572307	0.0006365580

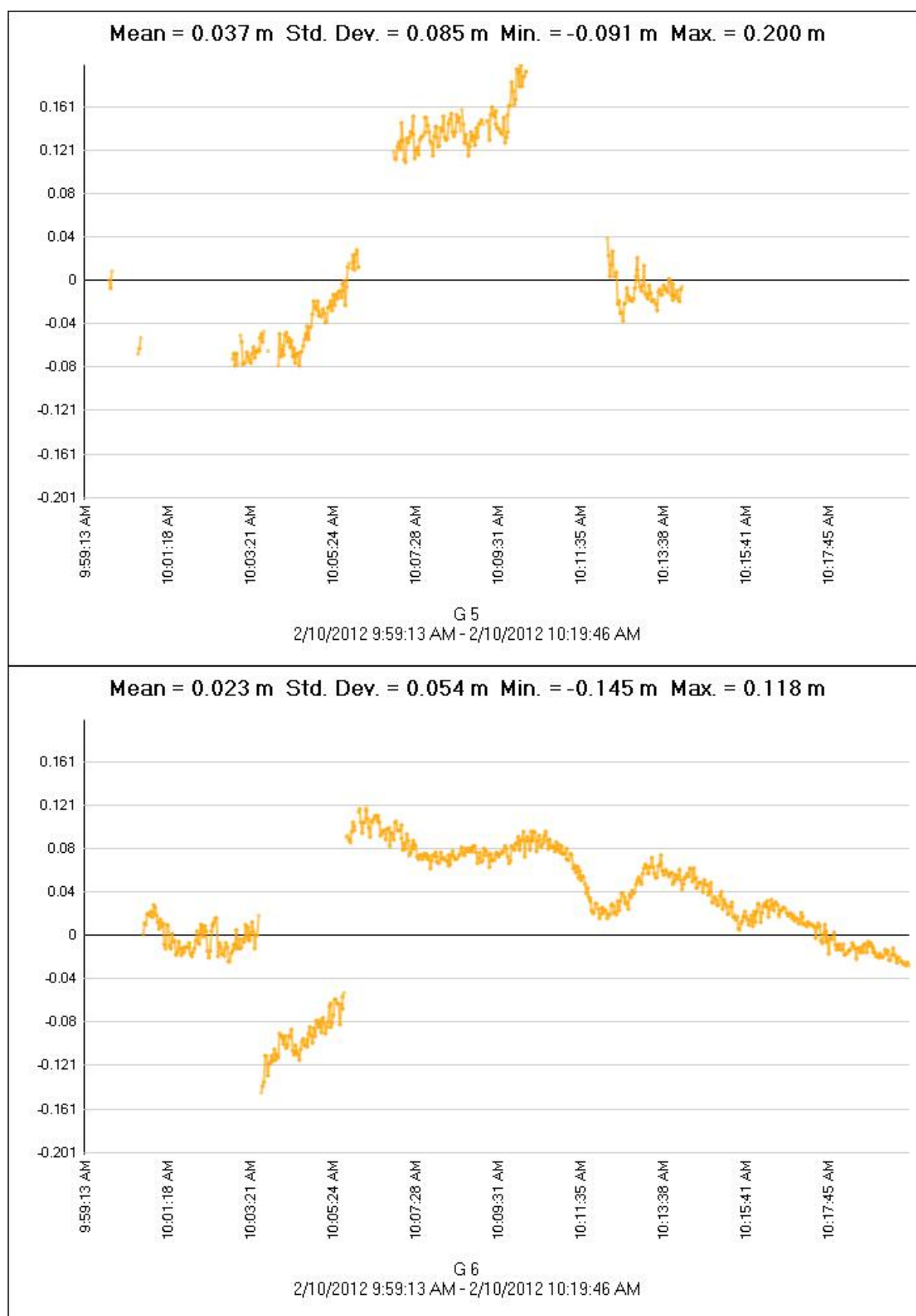
Occupations

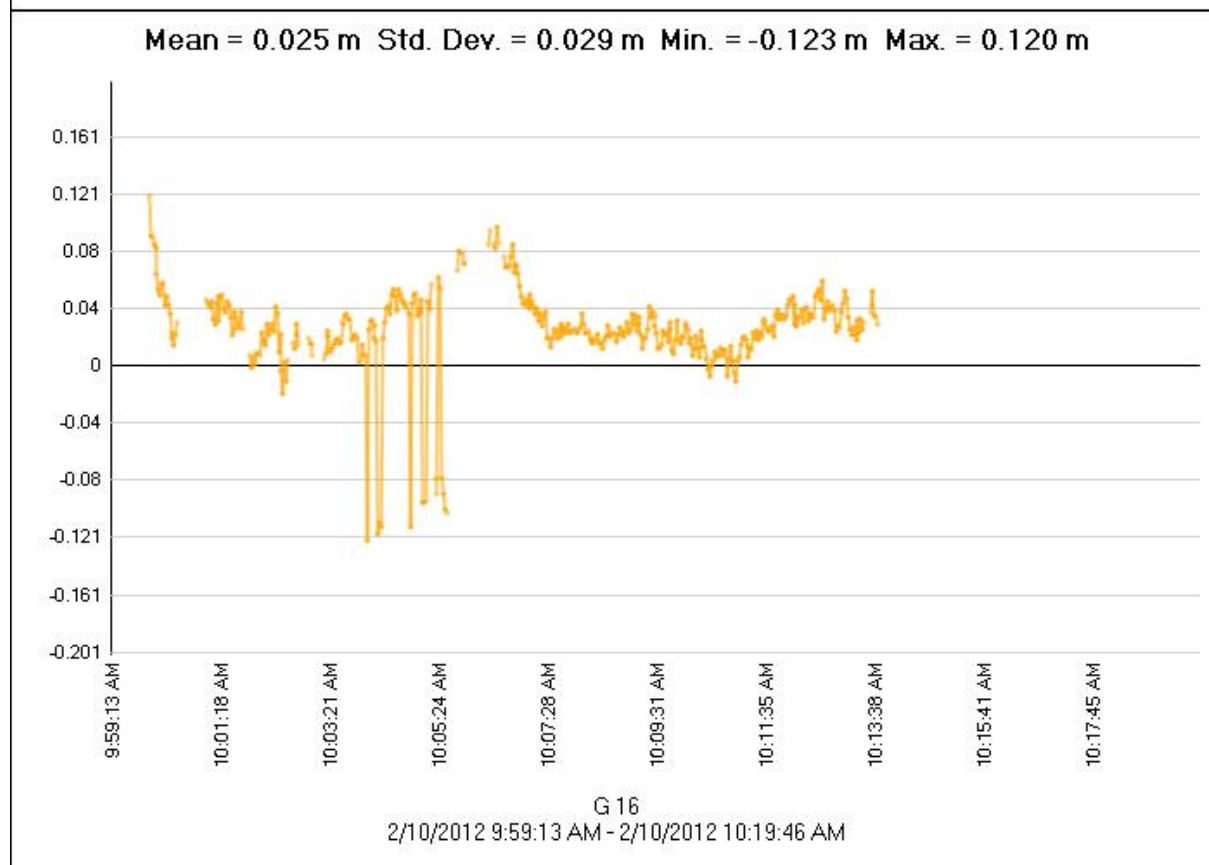
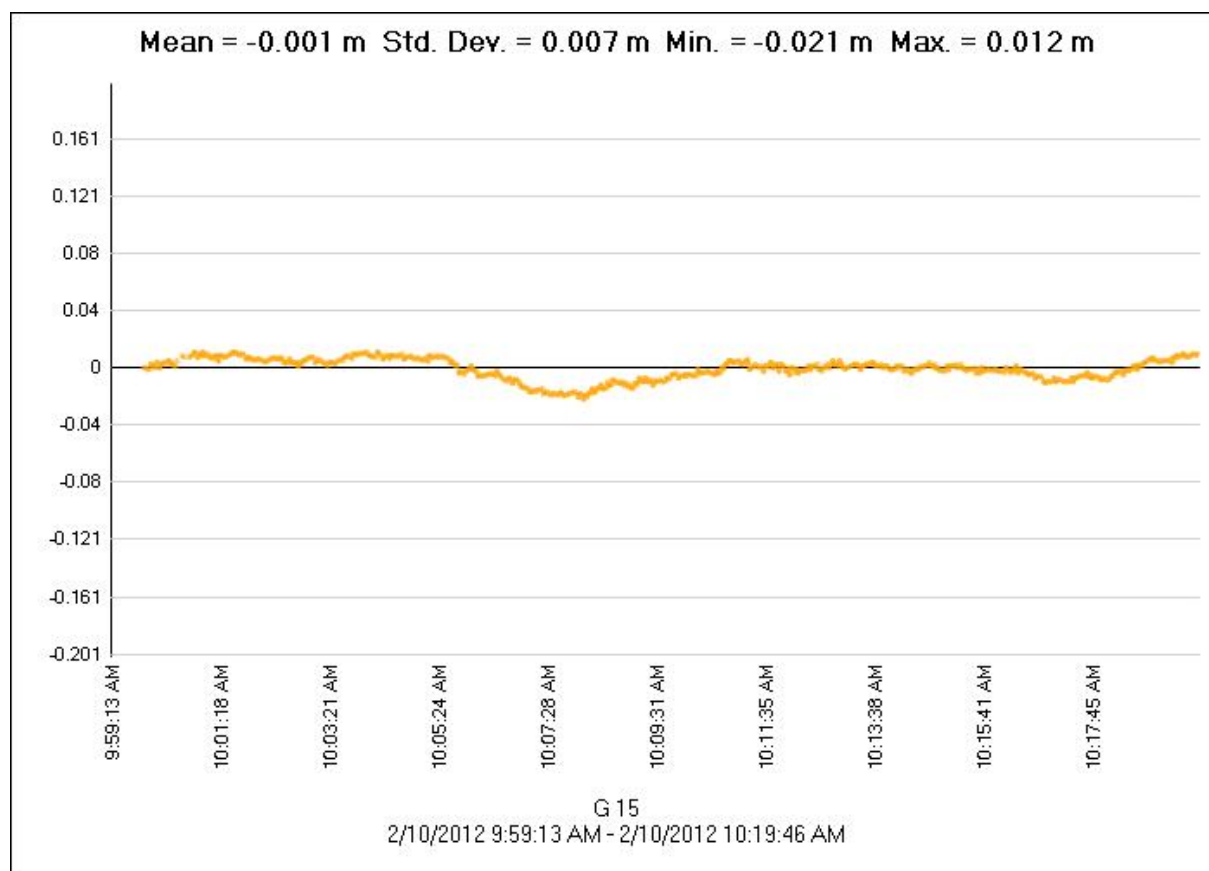
	From	To
Point ID:	HH0162	SVA36-B2
Data file:	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00010410.12o	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00080410.12o
Receiver type:	Unknown	Unknown
Receiver serial number:		
Antenna type:	Unknown External	Unknown External
Antenna serial number:	-----	-----
Antenna height (measured):	1.565 m	2.065 m
Antenna method:	Antenna Phase Center	Antenna Phase Center

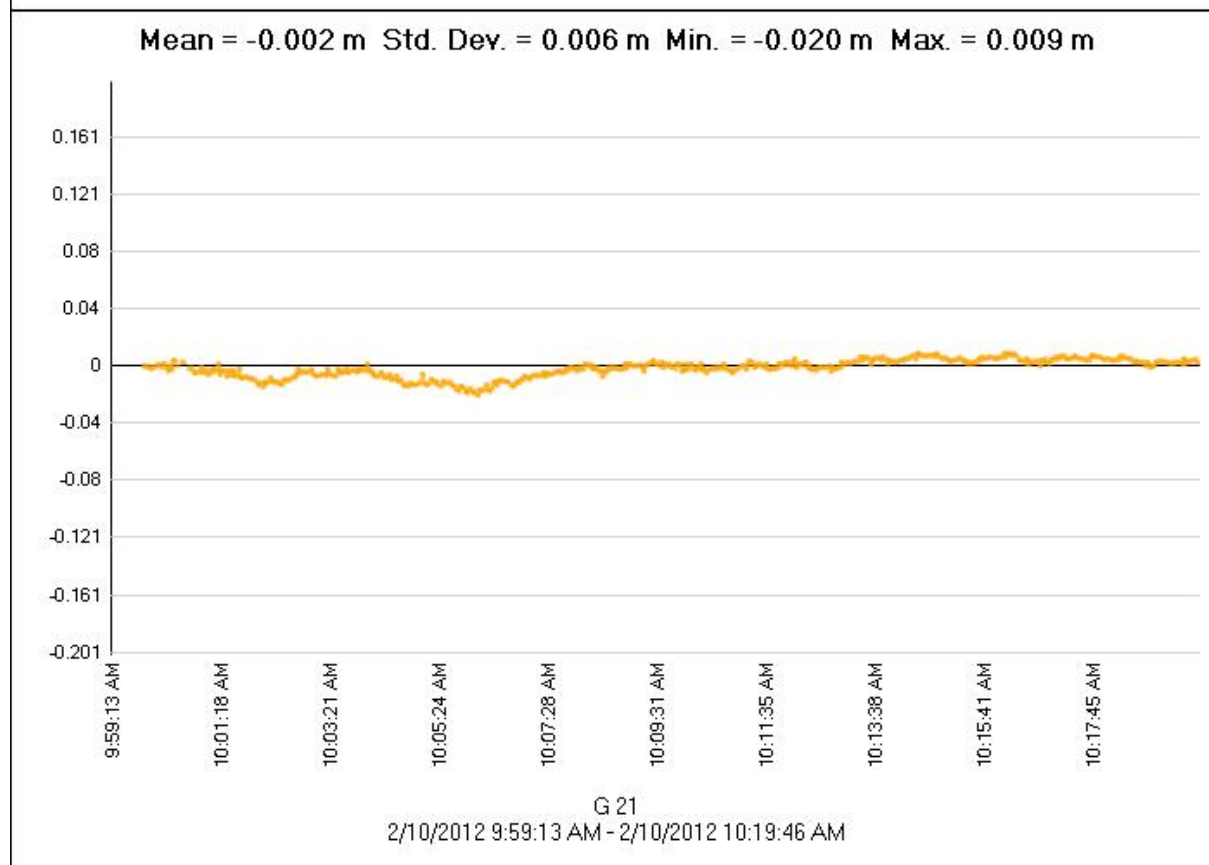
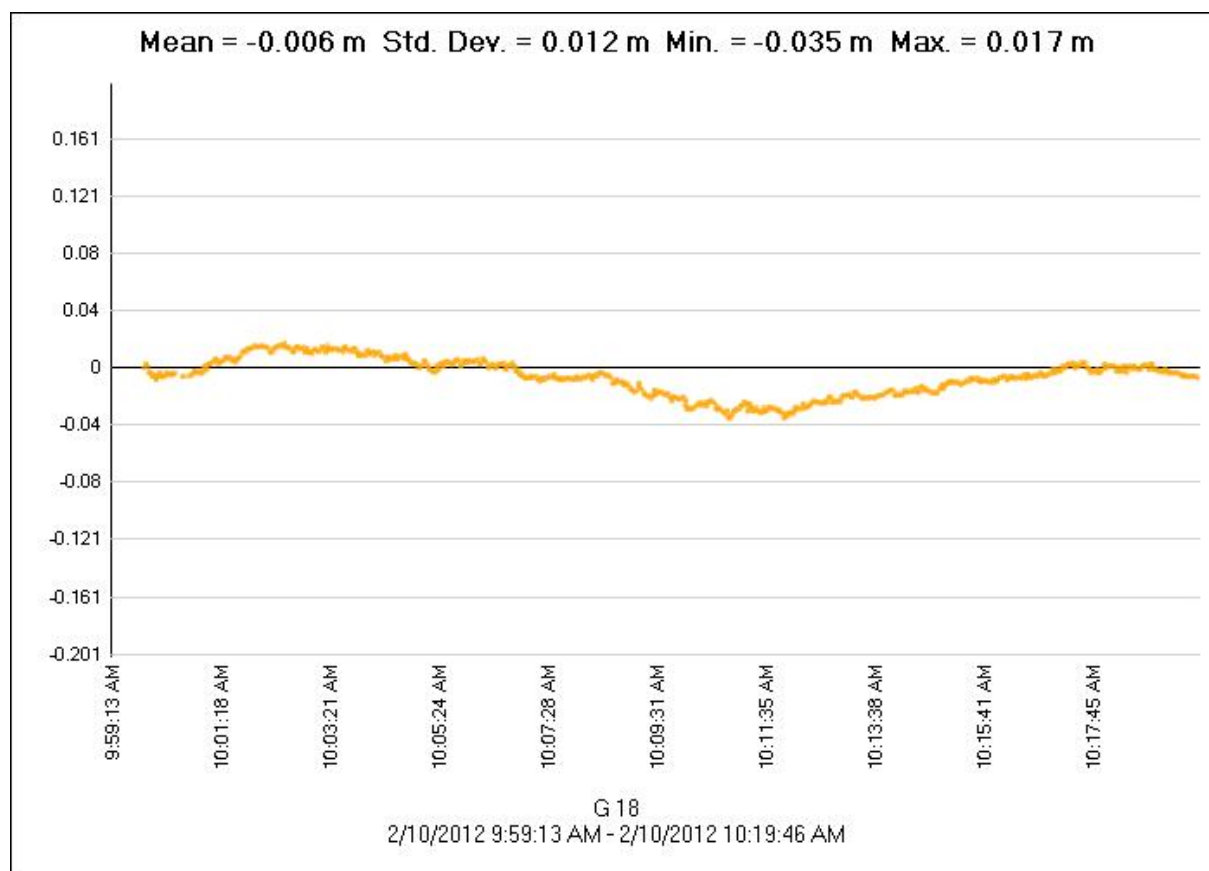
Tracking Summary

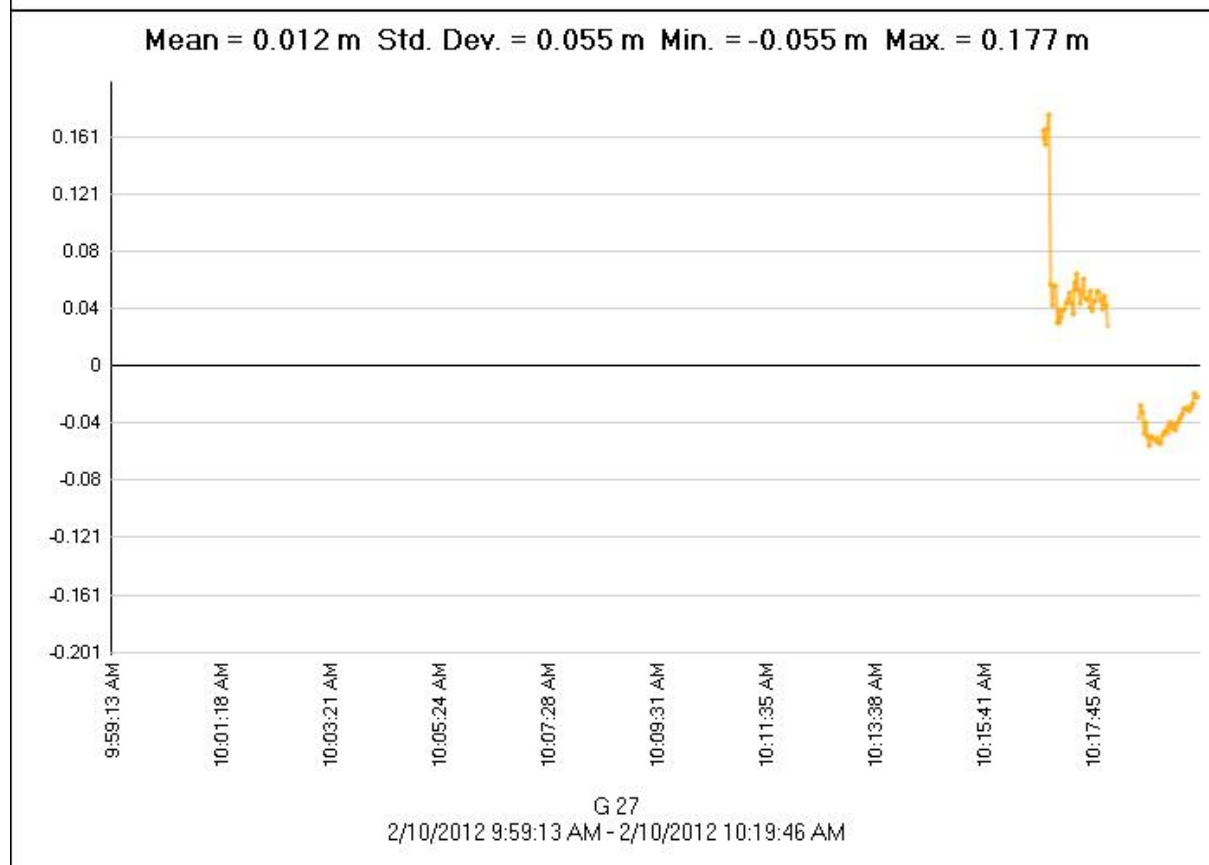
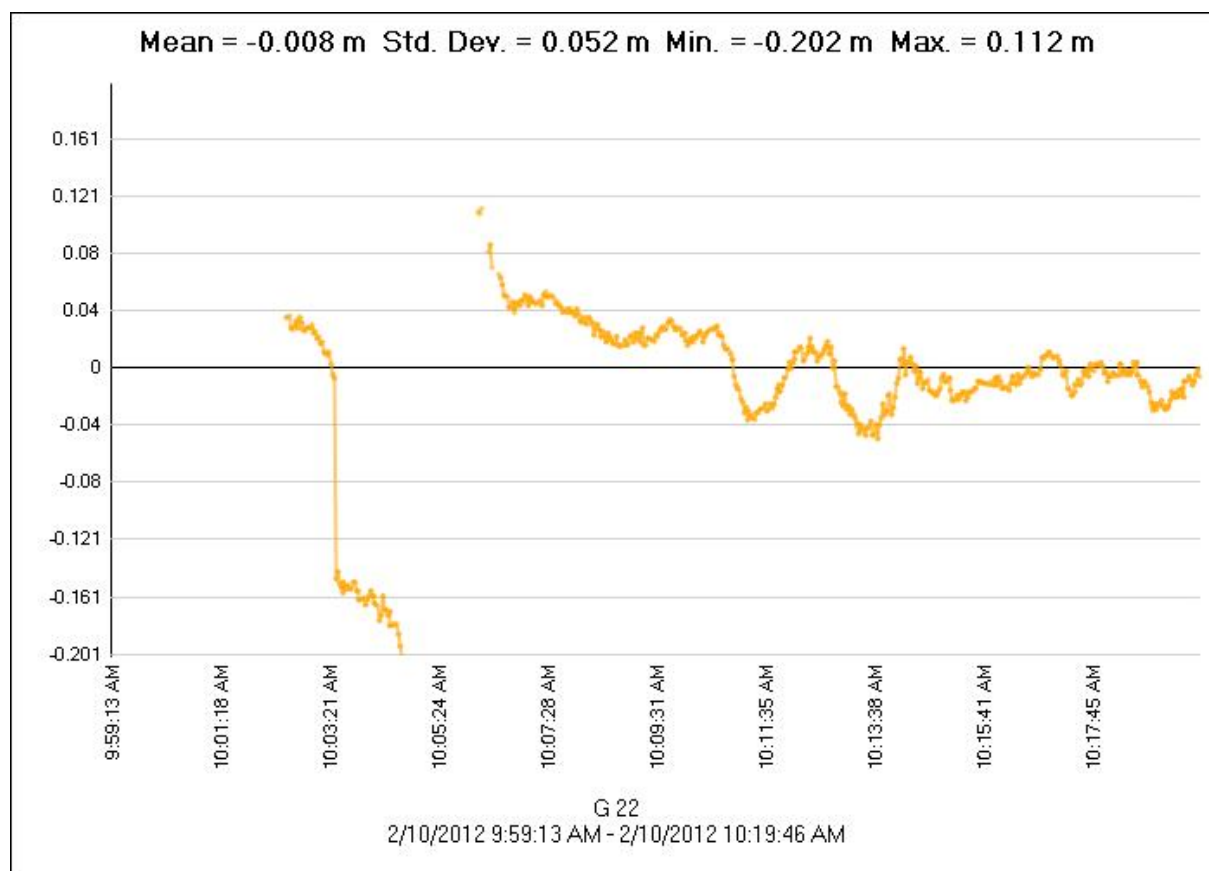
SV	2/10/2012 9:59:12 AM	Duration: 00:20:34	Major interval: 00:01:00	2/10/2012 10:19:46 AM
G 3	L1 L2			
G 5	L1 L2			
G 6	L1 L2			
G 9	L1 L2			
G 15	L1 L2			
G 16	L1 L2			
G 18	L1 L2			
G 21	L1 L2			
G 22	L1 L2			
G 26	L1 L2			
G 27	L1 L2			
G 29	L1 L2			
G 30	L1 L2			

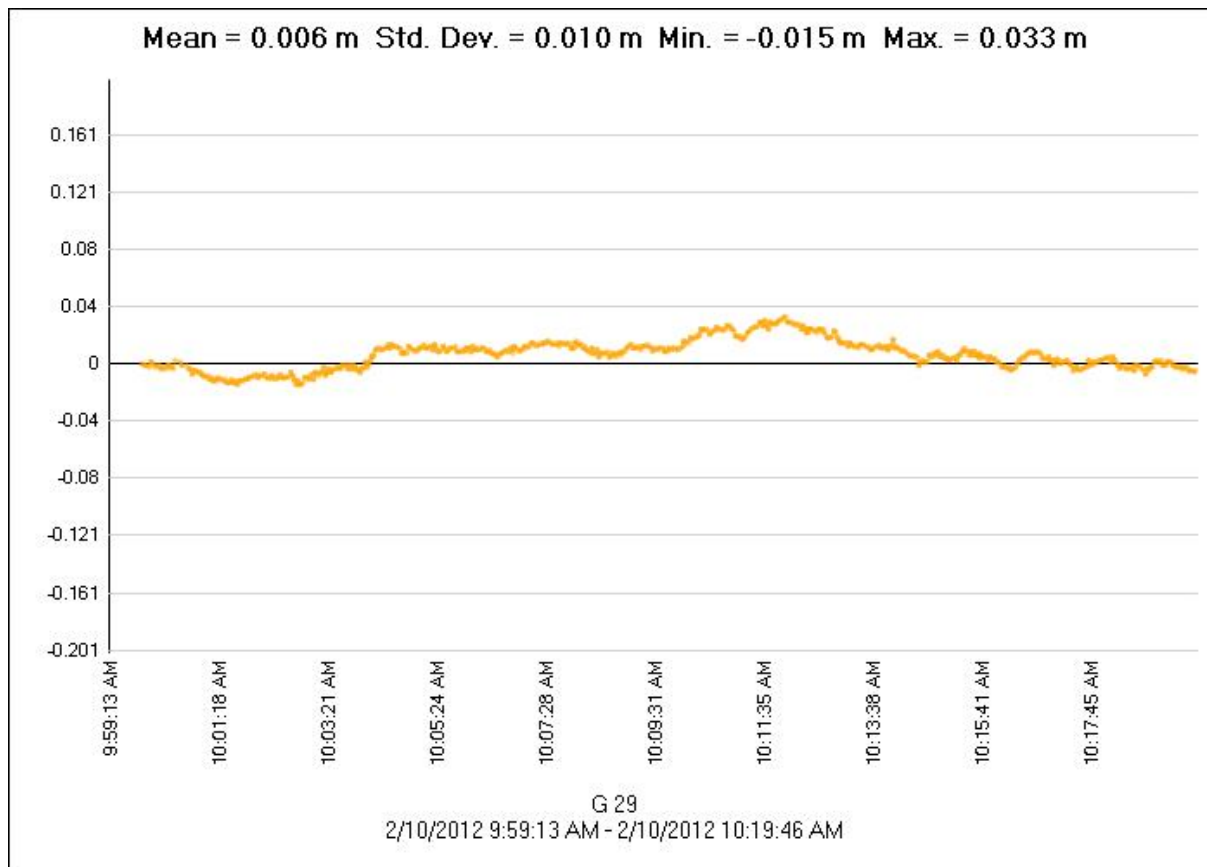
Residuals











Processing style

Elevation mask:	10.0 deg
Auto start processing:	Yes
Start automatic ID numbering:	AUTO0001
Continuous vectors:	No
Generate residuals:	Yes
Antenna model:	Automatic
Ephemeris type:	Automatic
Frequency:	Dual Frequency (L1, L2)
Processing Interval:	Use all data
Force float:	No

Acceptance Criteria

Vector Component	Flag 	Fail 
Horizontal Precision >	0.050 m + 1.000 ppm	0.100 m + 1.000 ppm
Vertical Precision >	0.100 m + 1.000 ppm	0.200 m + 1.000 ppm

HH0162 - SVA46-B2 (10:39:36 AM-11:01:38 AM) (S87)

Baseline observation: HH0162 --- SVA46-B2 (B87)

Processed: 3/21/2012 11:32:04 AM

Solution type: Fixed

Frequency used: Dual Frequency (L1, L2)

Horizontal precision: 0.011 m

Vertical precision: 0.013 m

RMS: 0.004 m

Maximum PDOP: 2.131

Ephemeris used: Broadcast

Antenna model: US National Geodetic Survey Calibration

Processing start time: 2/10/2012 10:39:36 AM (Local: UTC-7hr)

Processing stop time: 2/10/2012 11:01:38 AM (Local: UTC-7hr)

Processing duration: 00:22:02

Processing interval: .5 second

Vector Components (Mark to Mark)

From:	HH0162				
Grid		Local		Global	
Easting	334882.427 m	Latitude	N37°57'51.86394"	Latitude	N37°57'51.86394"
Northing	4203532.387 m	Longitude	W100°52'46.83509"	Longitude	W100°52'46.83509"
Elevation	877.100 m	Height	851.606 m	Height	851.606 m

To:	SVA46-B2				
Grid		Local		Global	
Easting	338512.849 m	Latitude	N38°00'03.06976"	Latitude	N38°00'03.06976"
Northing	4207505.742 m	Longitude	W100°50'21.34132"	Longitude	W100°50'21.34132"
Elevation	874.664 m	Height	849.212 m	Height	849.212 m

Vector					
9Ughb[	3630.422 m	NS Fwd Azimuth	41°15'38"	L	3956.925 m
BcfA\jb[	3973.355 m	Ellipsoid Dist.	5382.533 m	M	1778.189 m
9`Yj U\jcb	-2.436 m	<Y][\h	-2.394 m	N	3187.505 m

Standard Errors

Vector errors:					
Point ID	0.003 m	Point Name	0°00'00"	Point Type	0.003 m
Point ID	0.004 m	Point Name	0.004 m	Point Type	0.007 m
Point ID	0.007 m	Point Name	0.007 m	Point Type	0.004 m

Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0000119652		
Y	0.0000115210	0.0000438821	
Z	-0.0000020696	-0.0000097938	0.0000162443

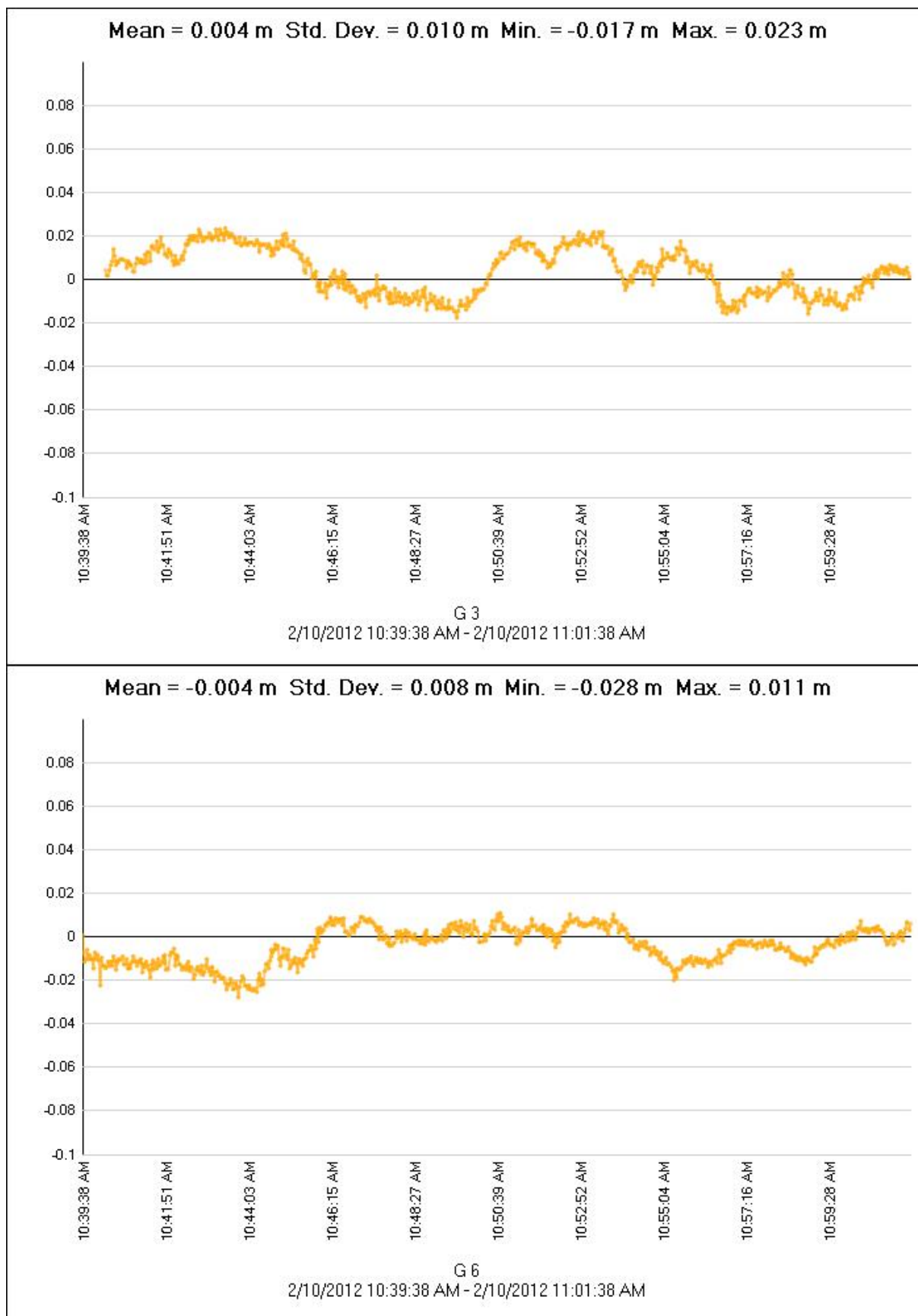
Occupations

	From	To
Point ID:	HH0162	SVA46-B2
Data file:	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00010410.12o	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00080411.12o
Receiver type:	Unknown	Unknown
Receiver serial number:		
Antenna type:	Unknown External	Unknown External
Antenna serial number:	-----	-----
Antenna height (measured):	1.565 m	2.065 m
Antenna method:	Antenna Phase Center	Antenna Phase Center

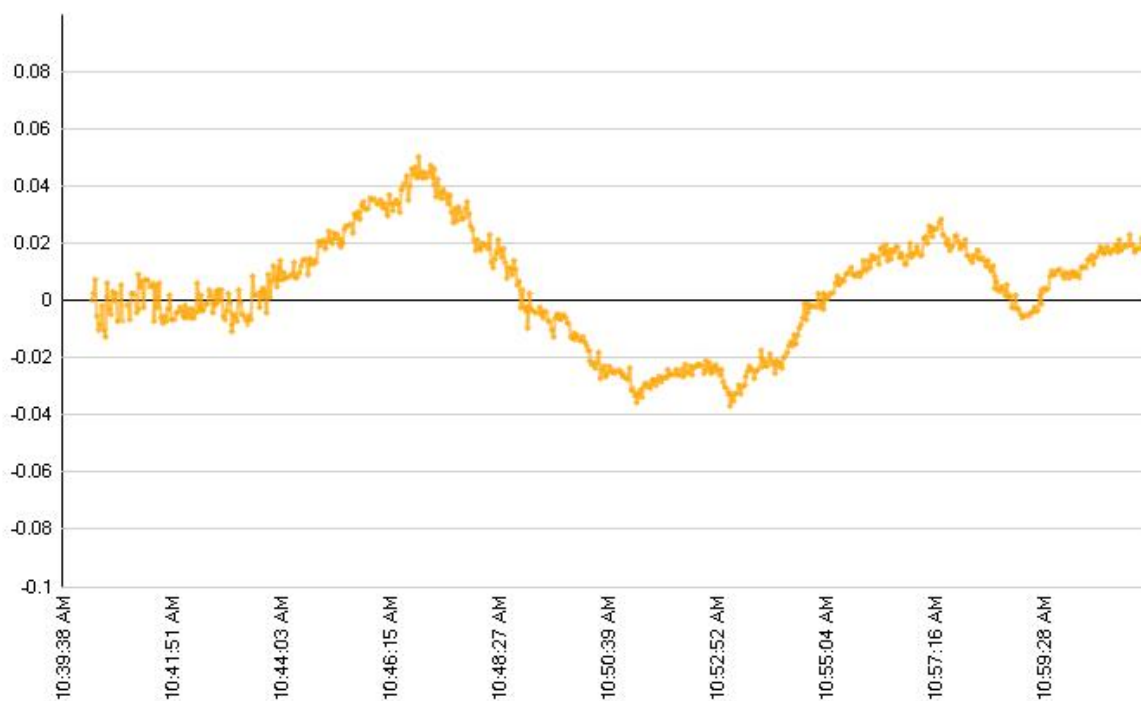
Tracking Summary

SV	2/10/2012 10:39:36 AM	Duration: 00:22:02	Major interval: 00:01:00	2/10/2012 11:01:38 AM
G 3	L1 L2			
G 5	L1 L2			
G 6	L1 L2			
G 9	L1 L2			
G 14	L1 L2			
G 15	L1 L2			
G 16	L1 L2			
G 18	L1 L2			
G 21	L1 L2			
G 22	L1 L2			
G 27	L1 L2			
G 29	L1 L2			
G 30	L1 L2			

Residuals



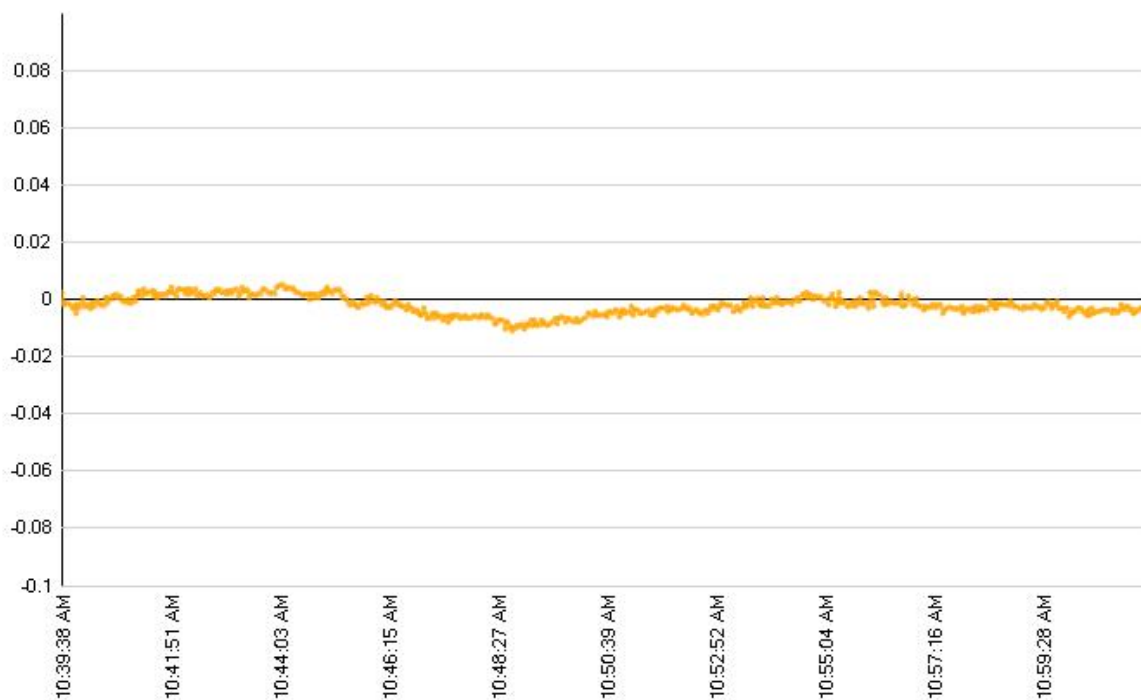
Mean = 0.004 m Std. Dev. = 0.019 m Min. = -0.037 m Max. = 0.050 m



G 9

2/10/2012 10:39:38 AM - 2/10/2012 11:01:38 AM

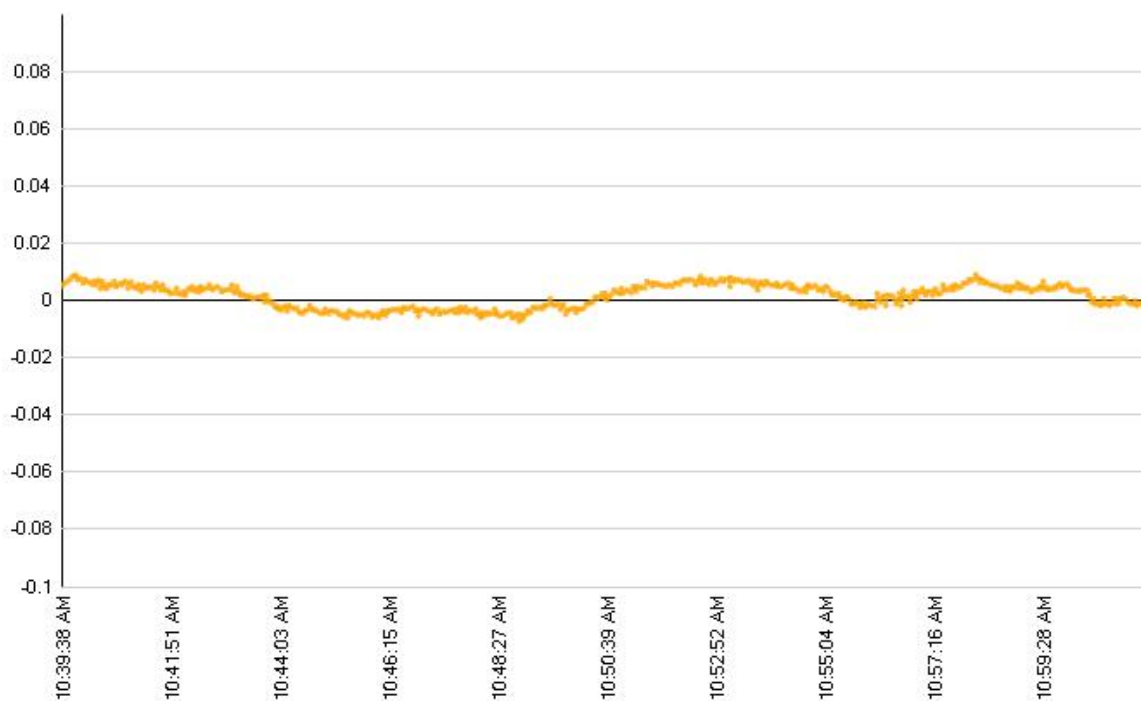
Mean = -0.002 m Std. Dev. = 0.003 m Min. = -0.011 m Max. = 0.005 m



G 15

2/10/2012 10:39:38 AM - 2/10/2012 11:01:38 AM

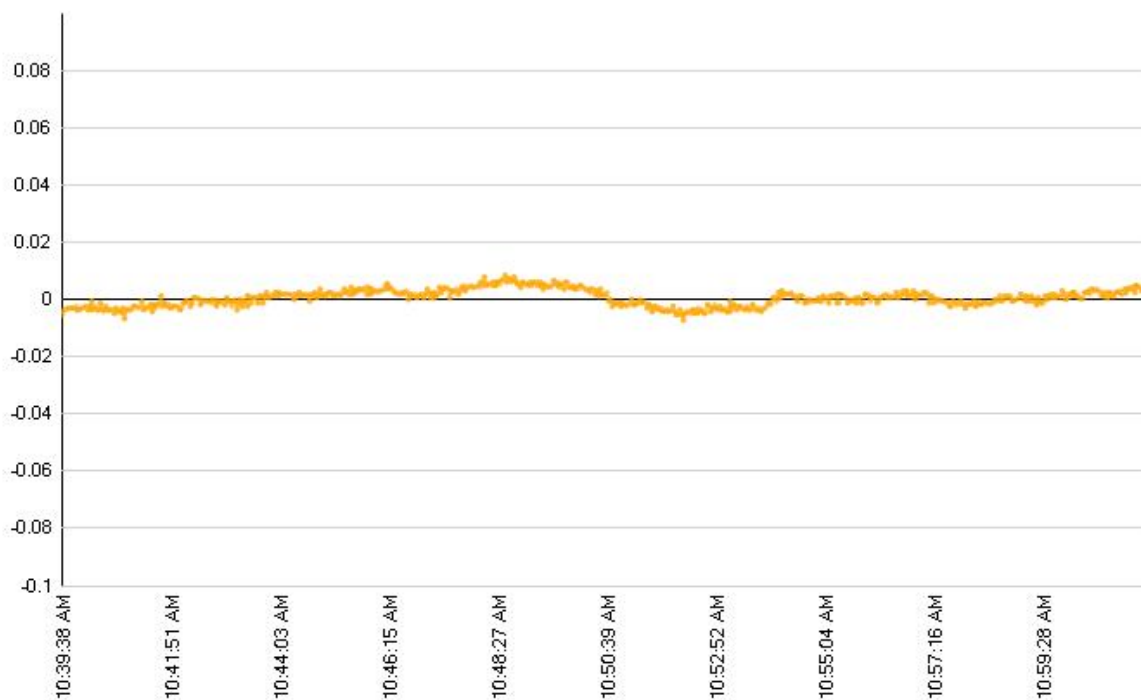
Mean = 0.001 m Std. Dev. = 0.004 m Min. = -0.007 m Max. = 0.009 m



G 18

2/10/2012 10:39:38 AM - 2/10/2012 11:01:38 AM

Mean = 0.000 m Std. Dev. = 0.003 m Min. = -0.007 m Max. = 0.009 m



G 21

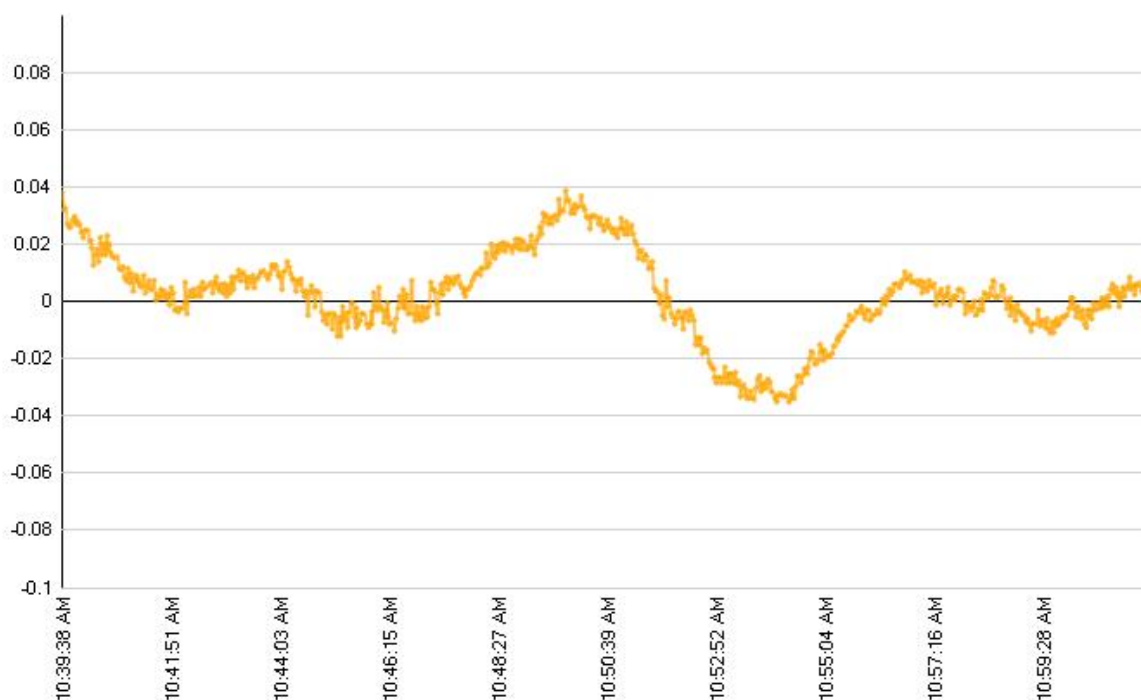
2/10/2012 10:39:38 AM - 2/10/2012 11:01:38 AM

Mean = 0.000 m Std. Dev. = 0.007 m Min. = -0.022 m Max. = 0.026 m

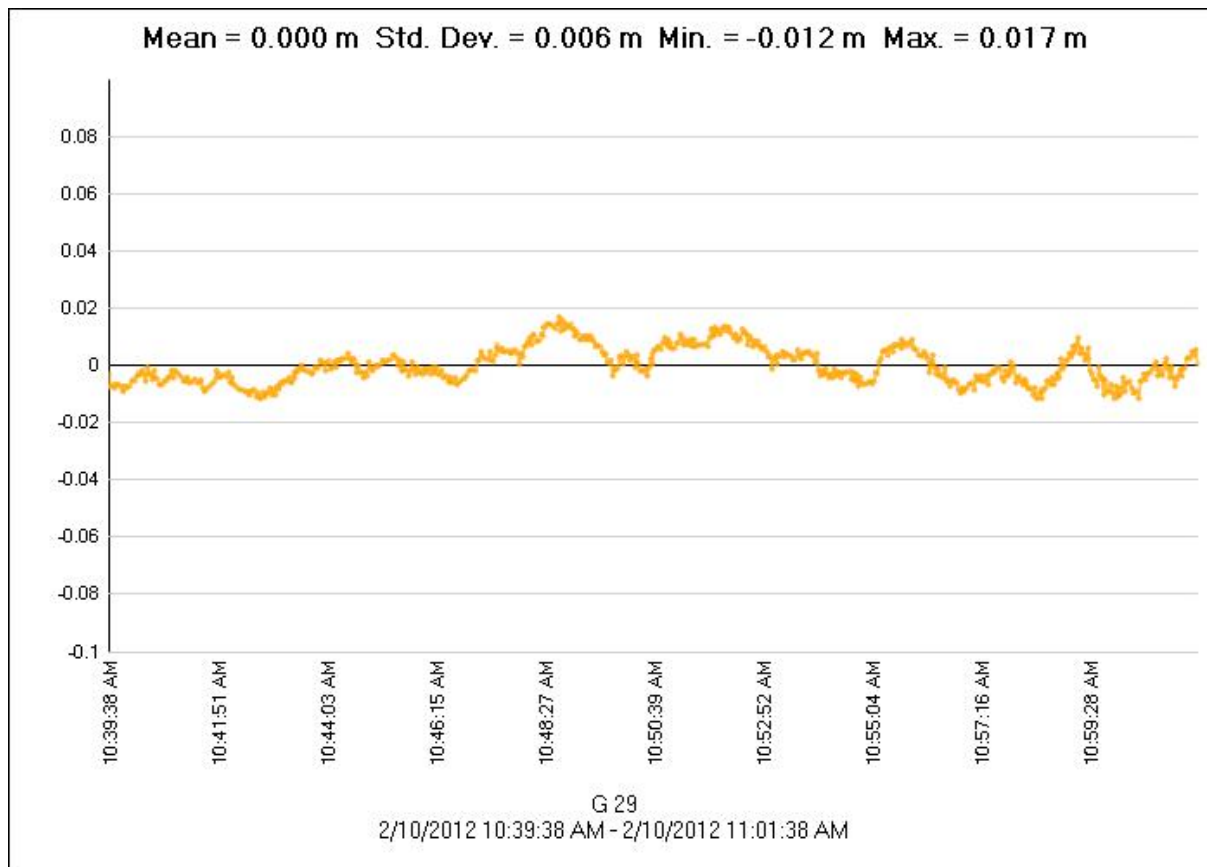


G 22
2/10/2012 10:39:38 AM - 2/10/2012 11:01:38 AM

Mean = 0.002 m Std. Dev. = 0.015 m Min. = -0.035 m Max. = 0.039 m



G 27
2/10/2012 10:39:38 AM - 2/10/2012 11:01:38 AM



Processing style

Elevation mask:	10.0 deg
Auto start processing:	Yes
Start automatic ID numbering:	AUTO0001
Continuous vectors:	No
Generate residuals:	Yes
Antenna model:	Automatic
Ephemeris type:	Automatic
Frequency:	Dual Frequency (L1, L2)
Processing Interval:	Use all data
Force float:	No

Acceptance Criteria

Vector Component	Flag 	Fail 
Horizontal Precision >	0.050 m + 1.000 ppm	0.100 m + 1.000 ppm
Vertical Precision >	0.100 m + 1.000 ppm	0.200 m + 1.000 ppm

HH0162 - FVA39-B2 (12:16:31 PM-12:34:42 PM) (S88)

Baseline observation: HH0162 --- FVA39-B2 (B88)

Processed: 3/21/2012 11:32:10 AM

Solution type: Fixed

Frequency used: Dual Frequency (L1, L2)

Horizontal precision: 0.015 m

Vertical precision: 0.026 m

RMS: 0.008 m

Maximum PDOP: 2.363

Ephemeris used: Broadcast

Antenna model: US National Geodetic Survey Calibration

Processing start time: 2/10/2012 12:16:31 PM (Local: UTC-7hr)

Processing stop time: 2/10/2012 12:34:42 PM (Local: UTC-7hr)

Processing duration: 00:18:11

Processing interval: .5 second

Vector Components (Mark to Mark)

From:	HH0162				
Grid		Local		Global	
Easting	334882.427 m	Latitude	N37°57'51.86394"	Latitude	N37°57'51.86394"
Northing	4203532.387 m	Longitude	W100°52'46.83509"	Longitude	W100°52'46.83509"
Elevation	877.100 m	Height	851.606 m	Height	851.606 m

To:	FVA39-B2				
Grid		Local		Global	
Easting	363752.332 m	Latitude	N37°40'45.59359"	Latitude	N37°40'45.59358"
Northing	4171360.222 m	Longitude	W100°32'42.32875"	Longitude	W100°32'42.32875"
Elevation	855.410 m	Height	829.443 m	Height	829.443 m

Vector					
9Ughb[	28869.905 m	NS Fwd Azimuth	136°56'37"	L	25344.902 m
Bcfh\jb[	-32172.166 m	Ellipsoid Dist.	43231.542 m	M	-24526.229 m
9`Yj Ufcb	-21.689 m	<Y][\h	-22.163 m	N	-25011.052 m

Standard Errors

Vector errors:					
Point ID	0.004 m	Point Name	0°00'00"	Point L	0.005 m
Point B	0.006 m	Point dgc	0.006 m	Point M	0.011 m
Point Yj	0.013 m	Point <Y	0.013 m	Point N	0.010 m

Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0000211978		
Y	0.0000262948	0.0001162636	
Z	-0.0000227698	-0.0000654926	0.0000905440

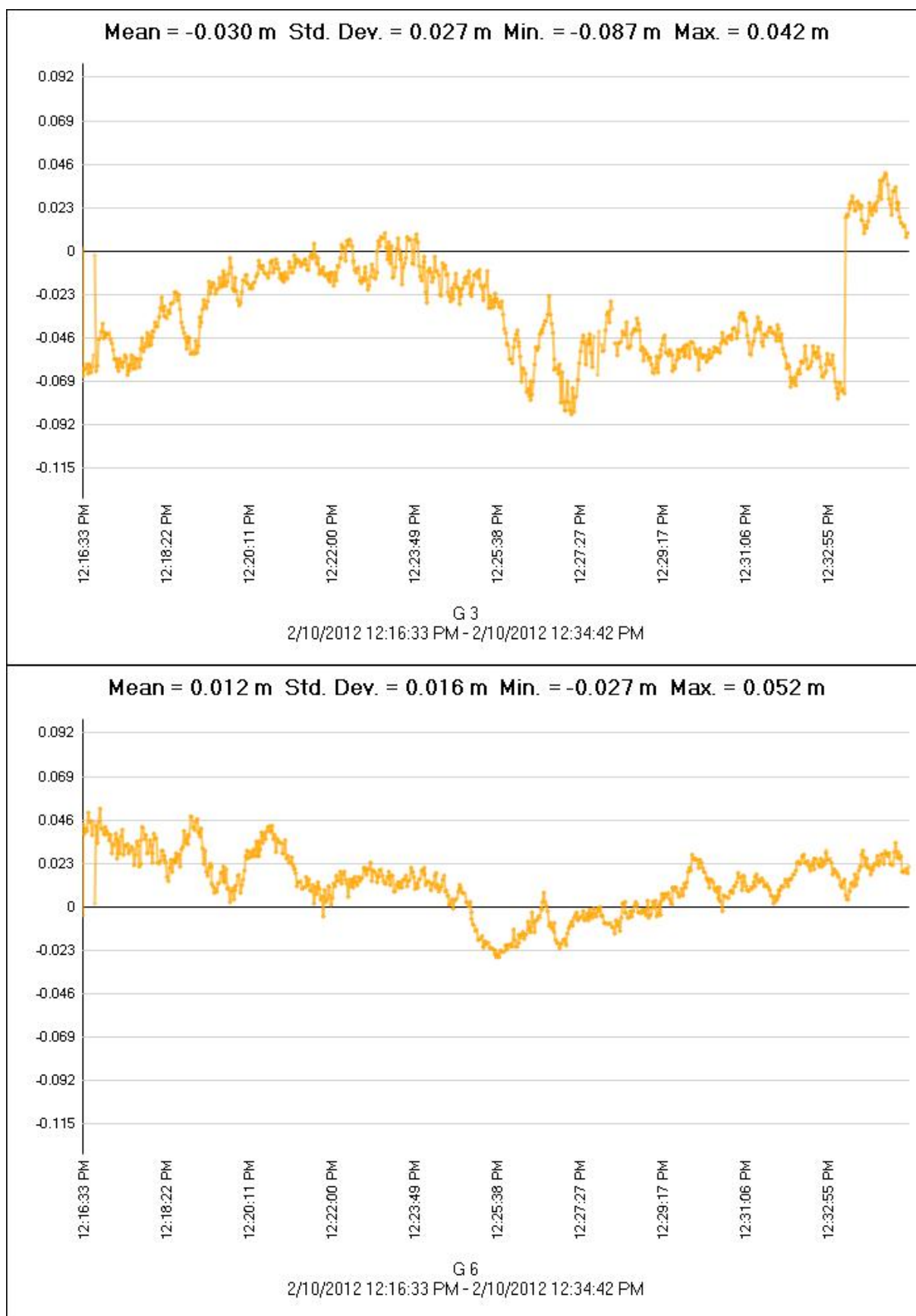
Occupations

	From	To
Point ID:	HH0162	FVA39-B2
Data file:	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00010410.12o	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00080412.12o
Receiver type:	Unknown	Unknown
Receiver serial number:		
Antenna type:	Unknown External	Unknown External
Antenna serial number:	-----	-----
Antenna height (measured):	1.565 m	2.065 m
Antenna method:	Antenna Phase Center	Antenna Phase Center

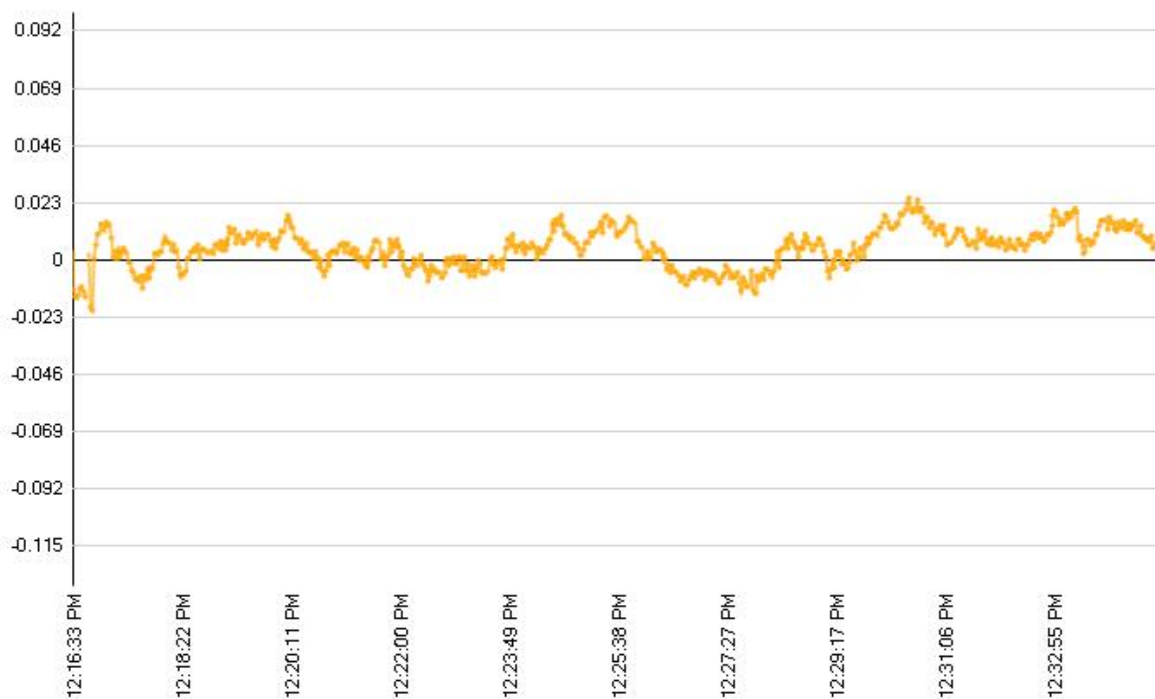
Tracking Summary

SV	2/10/2012 12:16:31 PM	Duration: 00:18:11	Major interval: 00:01:00	2/10/2012 12:34:42 PM
G 3	L1 L2			
G 6	L1 L2			
G 9	L1 L2			
G 14	L1 L2			
G 15	L1 L2			
G 18	L1 L2			
G 19	L1 L2			
G 21	L1 L2			
G 22	L1 L2			
G 27	L1 L2			

Residuals



Mean = 0.005 m Std. Dev. = 0.007 m Min. = -0.021 m Max. = 0.025 m



G 9

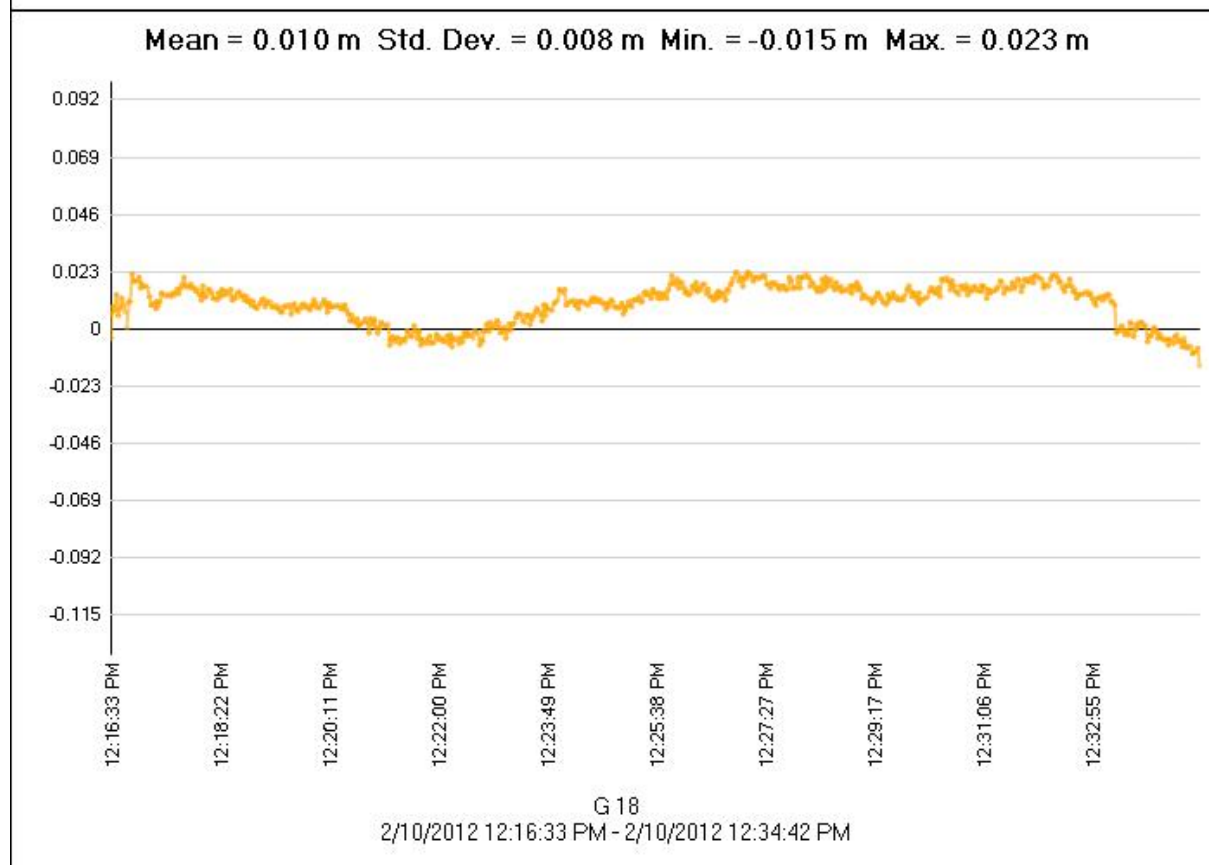
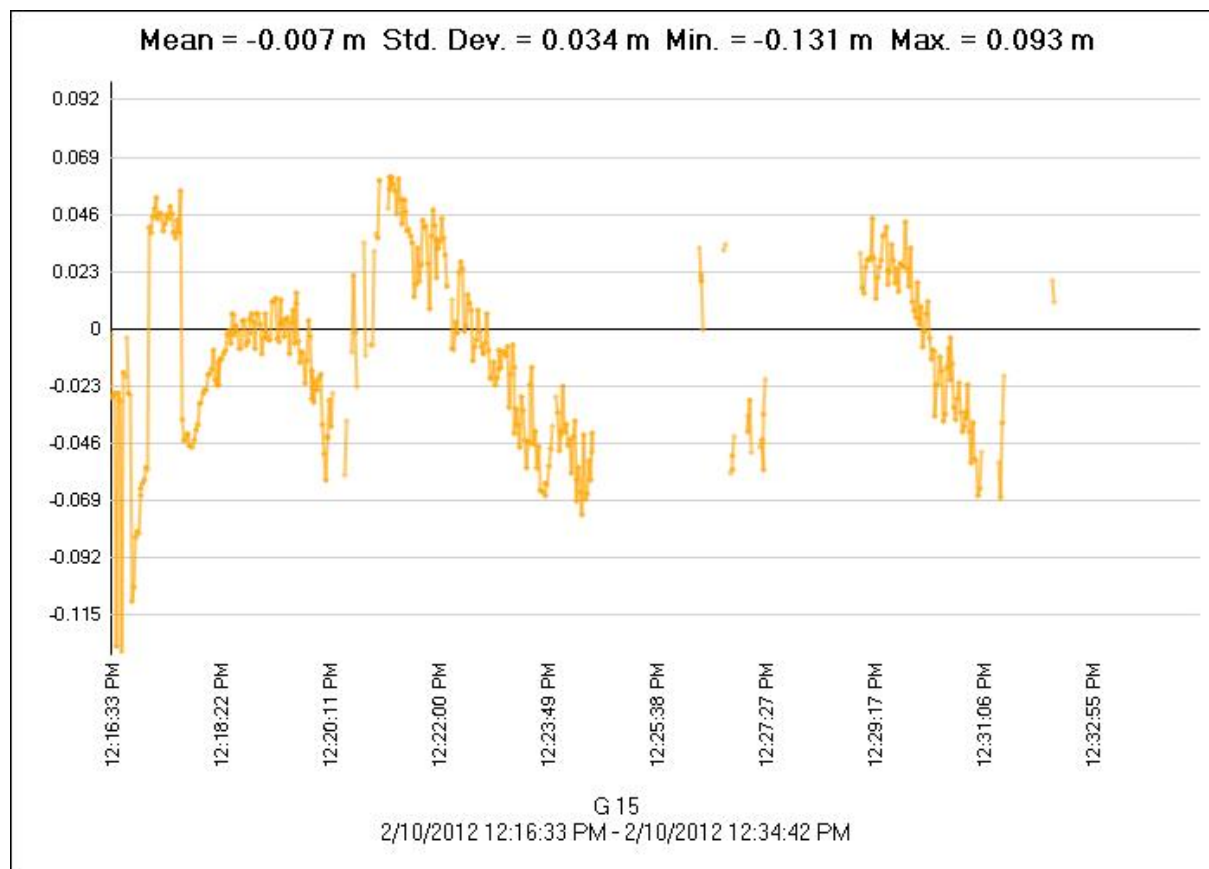
2/10/2012 12:16:33 PM - 2/10/2012 12:34:42 PM

Mean = 0.006 m Std. Dev. = 0.018 m Min. = -0.038 m Max. = 0.053 m



G 14

2/10/2012 12:16:33 PM - 2/10/2012 12:34:42 PM



Mean = 0.014 m Std. Dev. = 0.021 m Min. = -0.040 m Max. = 0.057 m



G 19

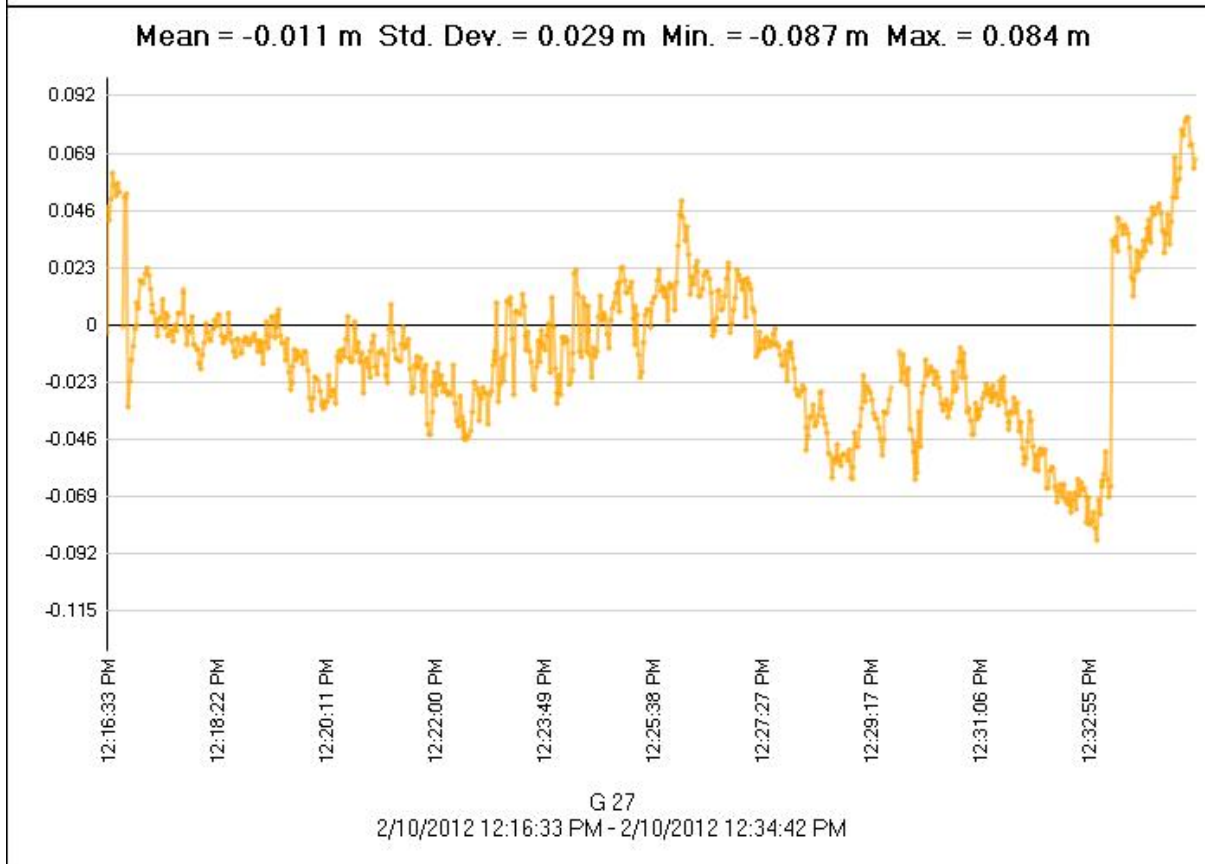
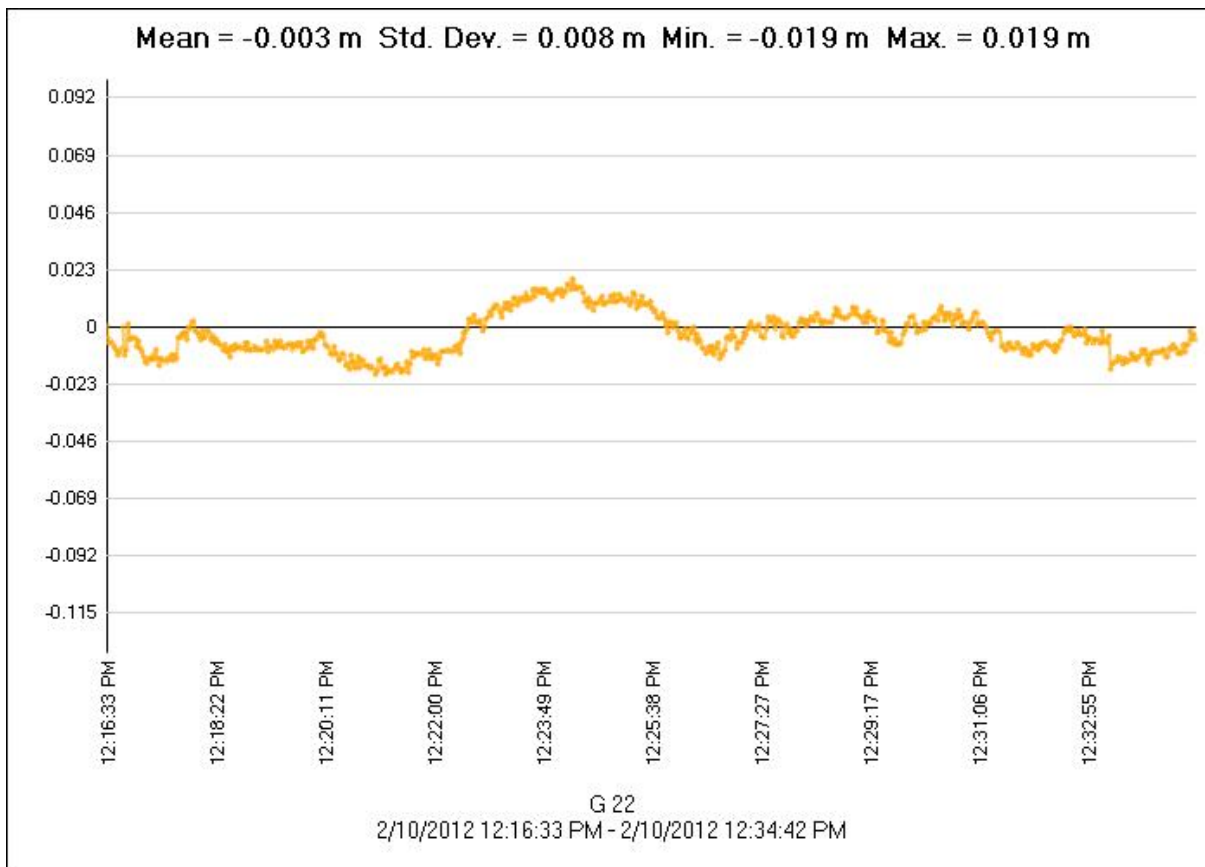
2/10/2012 12:16:33 PM - 2/10/2012 12:34:42 PM

Mean = -0.009 m Std. Dev. = 0.012 m Min. = -0.038 m Max. = 0.015 m



G 21



2/10/2012 12:16:33 PM - 2/10/2012 12:34:42 PM



Processing style

Elevation mask:	10.0 deg
Auto start processing:	Yes
Start automatic ID numbering:	AUTO0001
Continuous vectors:	No
Generate residuals:	Yes
Antenna model:	Automatic
Ephemeris type:	Automatic
Frequency:	Dual Frequency (L1, L2)
Processing Interval:	Use all data
Force float:	No

Acceptance Criteria

Vector Component	Flag 	Fail 
Horizontal Precision >	0.050 m + 1.000 ppm	0.100 m + 1.000 ppm
Vertical Precision >	0.100 m + 1.000 ppm	0.200 m + 1.000 ppm

HH0162 - FVA58-B2 (1:00:30 PM-1:21:16 PM) (S89)

Baseline observation: HH0162 --- FVA58-B2 (B89)

Processed: 3/21/2012 11:32:09 AM

Solution type: Fixed

Frequency used: Dual Frequency (L1, L2)

Horizontal precision: 0.041 m

Vertical precision: 0.053 m

RMS: 0.011 m

Maximum PDOP: 2.485

Ephemeris used: Broadcast

Antenna model: US National Geodetic Survey Calibration

Processing start time: 2/10/2012 1:00:30 PM (Local: UTC-7hr)

Processing stop time: 2/10/2012 1:21:16 PM (Local: UTC-7hr)

Processing duration: 00:20:46

Processing interval: .5 second

Vector Components (Mark to Mark)

From:	HH0162				
Grid		Local		Global	
Easting	334882.427 m	Latitude	N37°57'51.86394"	Latitude	N37°57'51.86394"
Northing	4203532.387 m	Longitude	W100°52'46.83509"	Longitude	W100°52'46.83509"
Elevation	877.100 m	Height	851.606 m	Height	851.606 m

To:	FVA58-B2				
Grid		Local		Global	
Easting	376918.834 m	Latitude	N37°44'15.03807"	Latitude	N37°44'15.03806"
Northing	4177610.319 m	Longitude	W100°23'48.76362"	Longitude	W100°23'48.76362"
Elevation	837.118 m	Height	811.161 m	Height	811.161 m

Vector					
9Ughb[	42036.407 m	NS Fwd Azimuth	120°30'24"	L	38918.661 m
Bcfh\jb[	-25922.068 m	Ellipsoid Dist.	49393.401 m	M	-23003.166 m
9Yj Uhcb	-39.982 m	<Y][\h	-40.444 m	N	-19912.951 m

Standard Errors

Vector errors:					
Point ID	0.017 m	Point ID	0°00'00"	Point ID	0.019 m
Point ID	0.008 m	Point ID	0.016 m	Point ID	0.021 m
Point ID	0.027 m	Point ID	0.027 m	Point ID	0.016 m

Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0003550091		
Y	0.0002107413	0.0004504133	
Z	-0.0002432185	-0.0002658362	0.0002594144

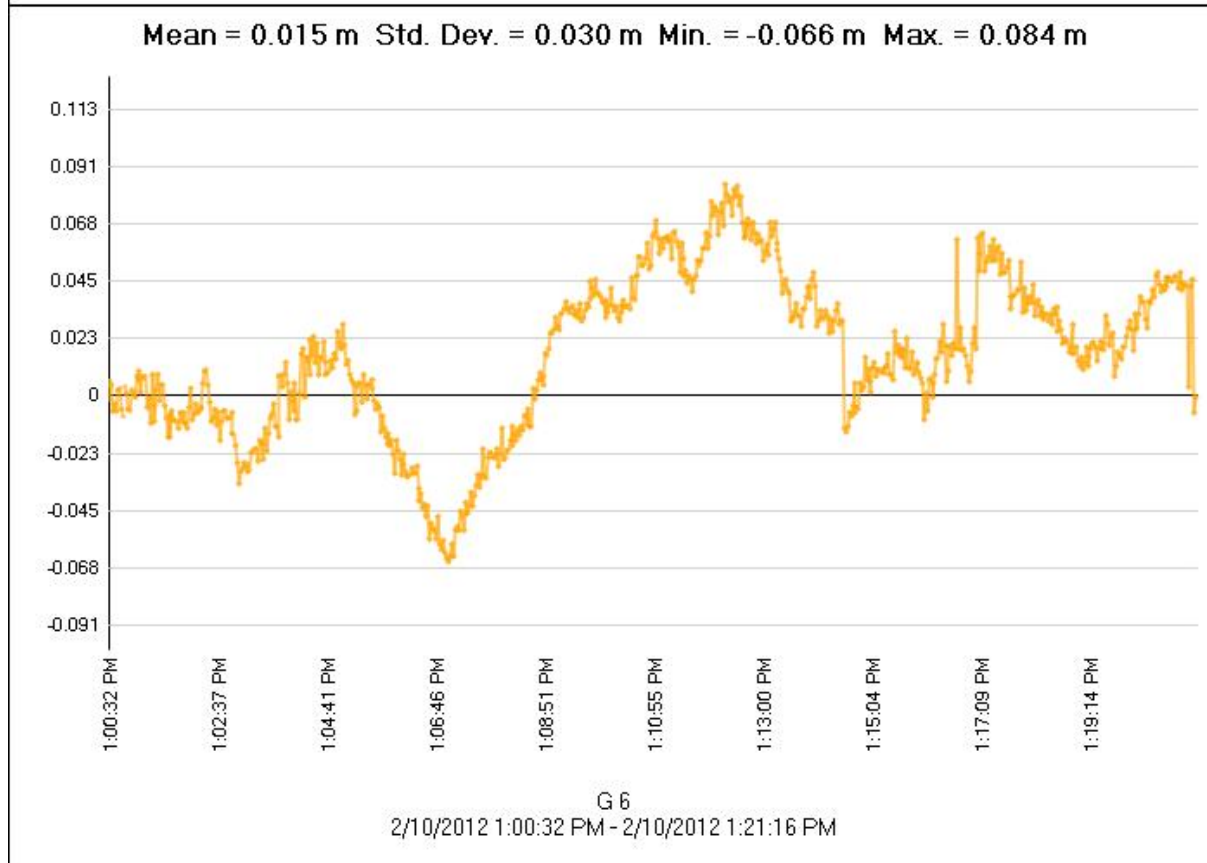
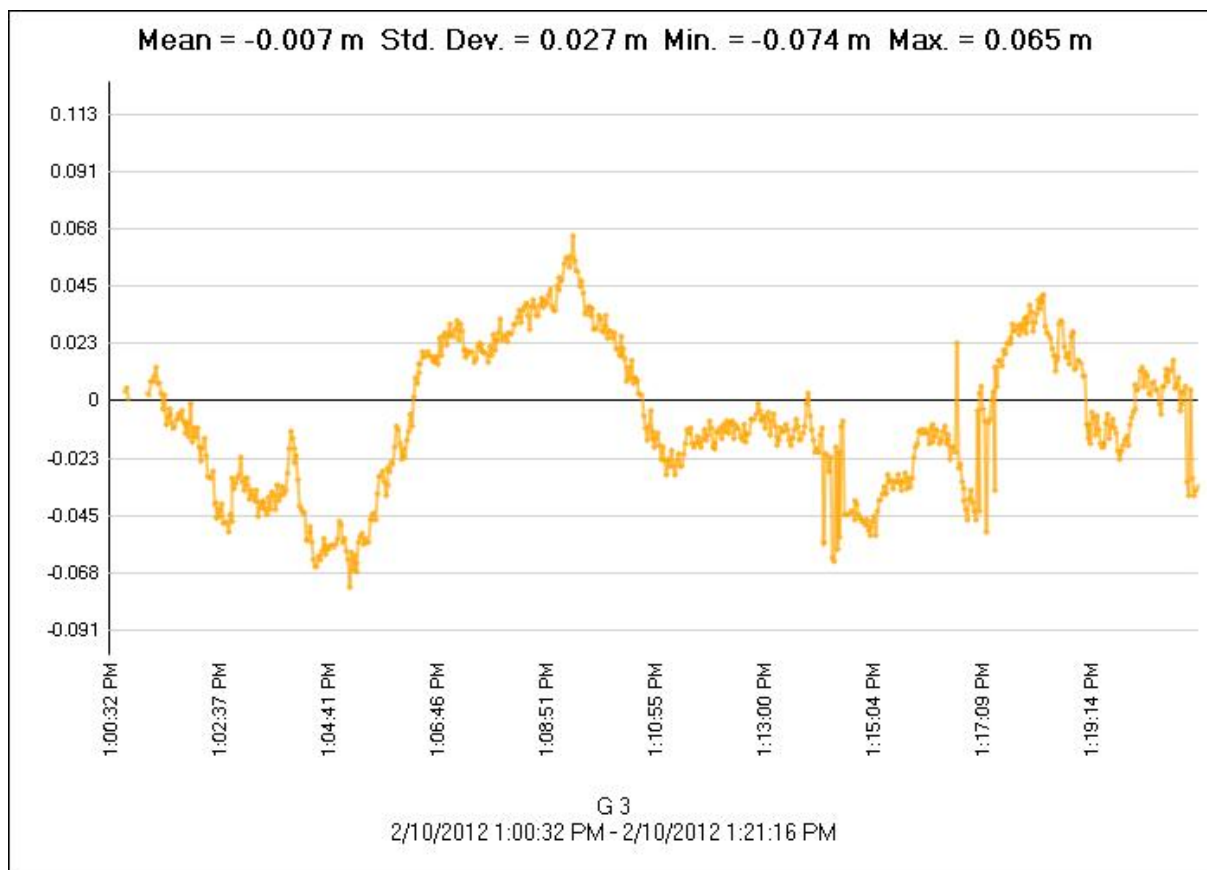
Occupations

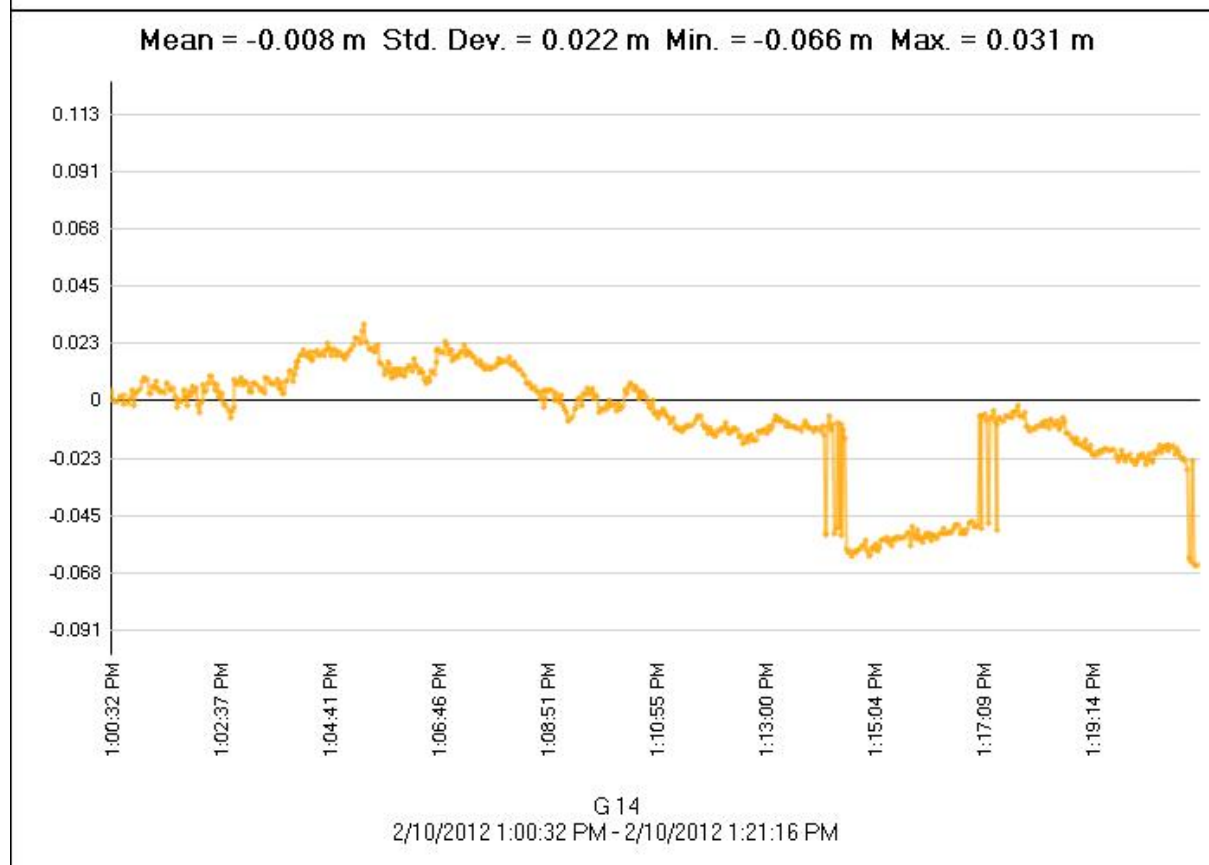
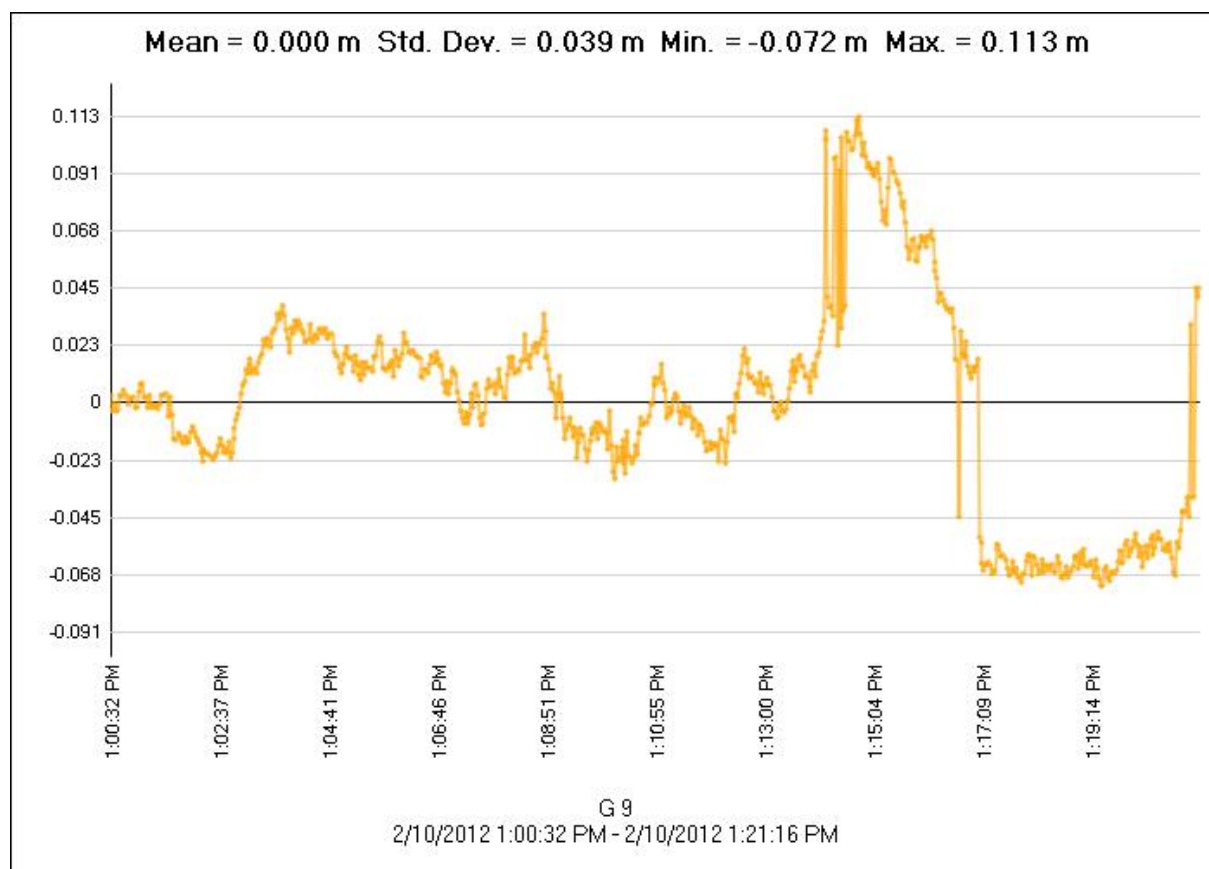
	From	To
Point ID:	HH0162	FVA58-B2
Data file:	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00010410.12o	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00080413.12o
Receiver type:	Unknown	Unknown
Receiver serial number:		
Antenna type:	Unknown External	Unknown External
Antenna serial number:	-----	-----
Antenna height (measured):	1.565 m	2.065 m
Antenna method:	Antenna Phase Center	Antenna Phase Center

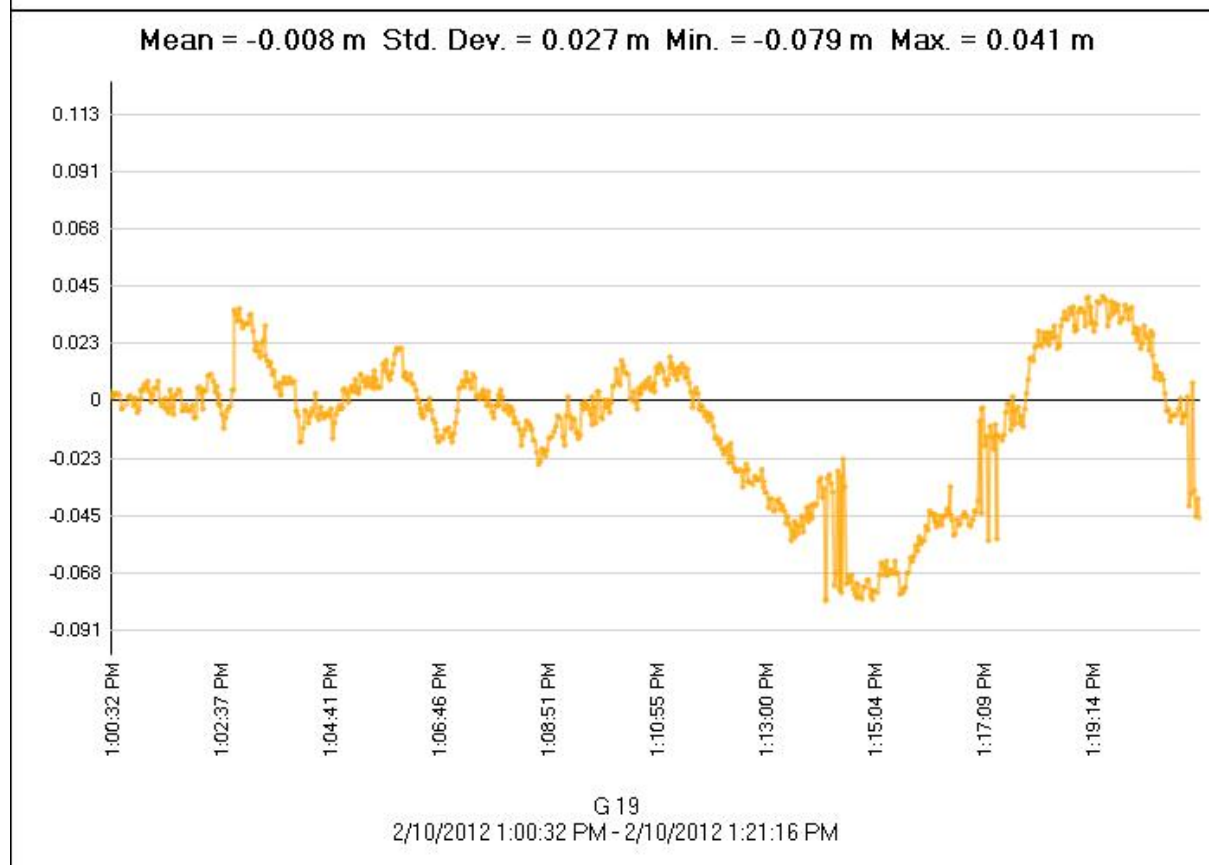
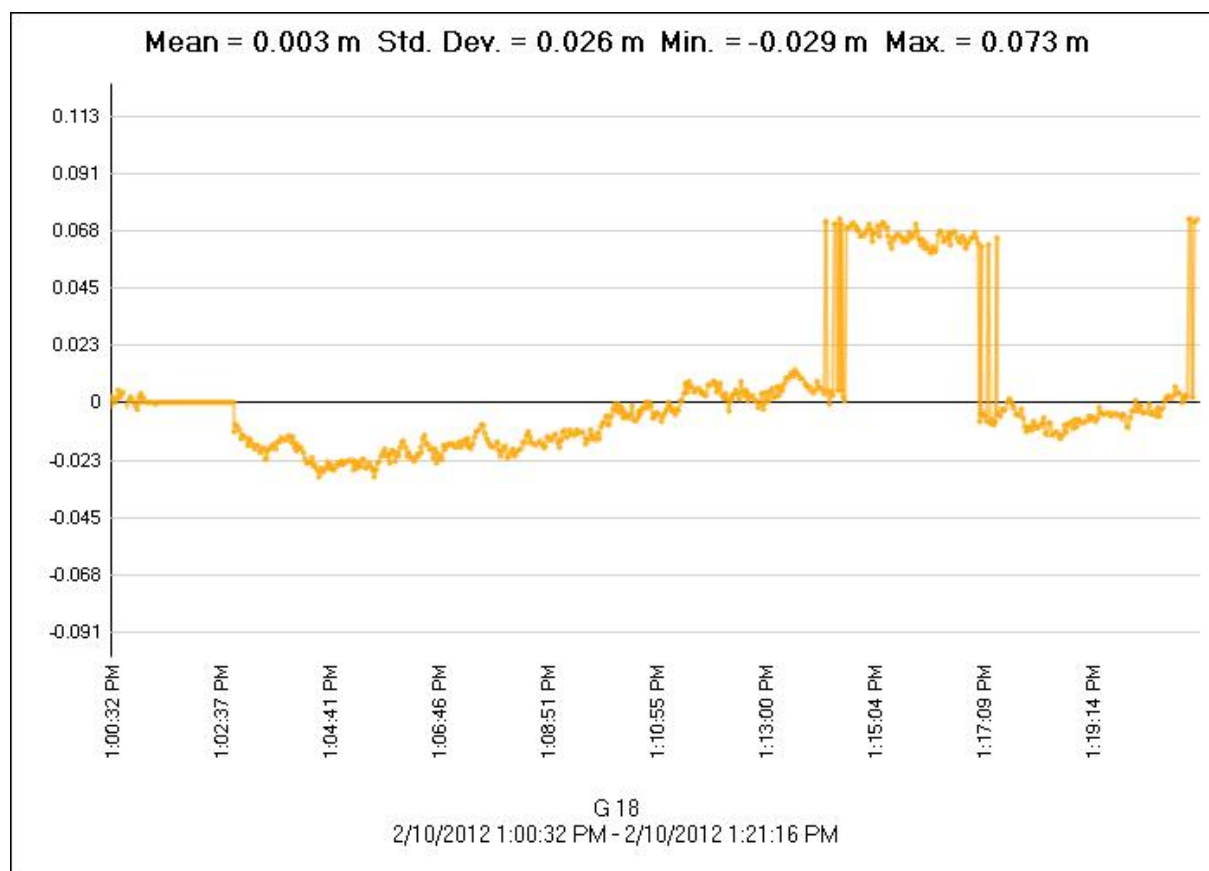
Tracking Summary

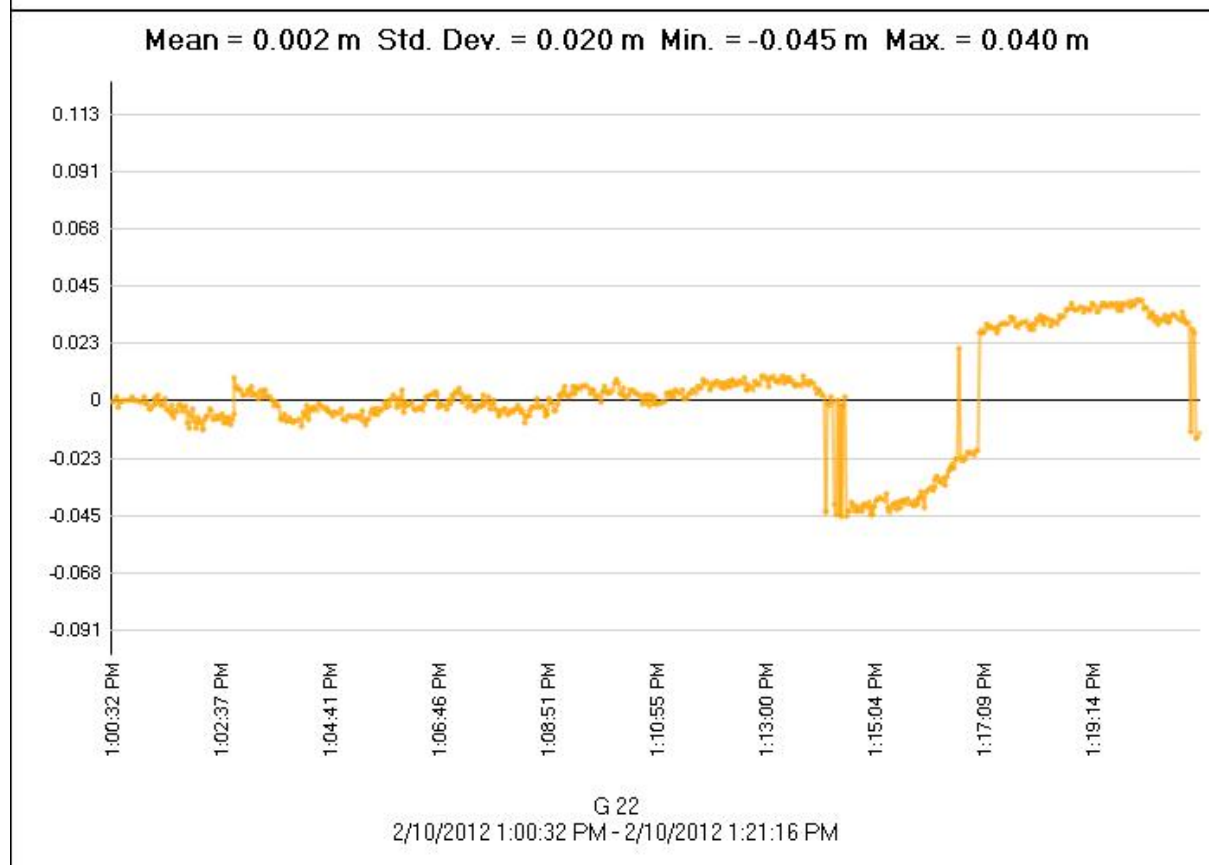
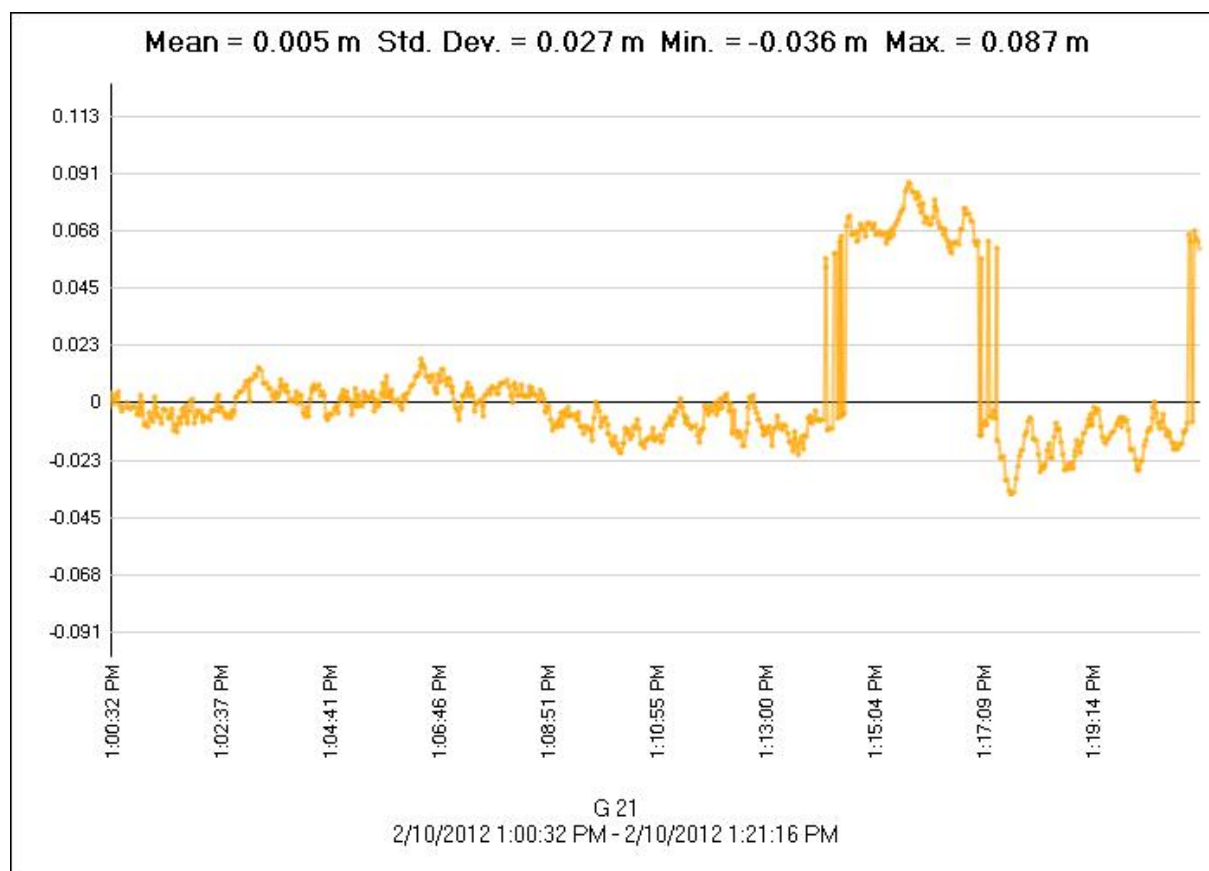
SV	2/10/2012 1:00:30 PM	Duration: 00:20:46 Major interval: 00:01:00	2/10/2012 1:21:16 PM
G 3			
G 6			
G 9			
G 11			
G 14			
G 15			
G 18			
G 19			
G 21			
G 22			
G 27			
G 31			

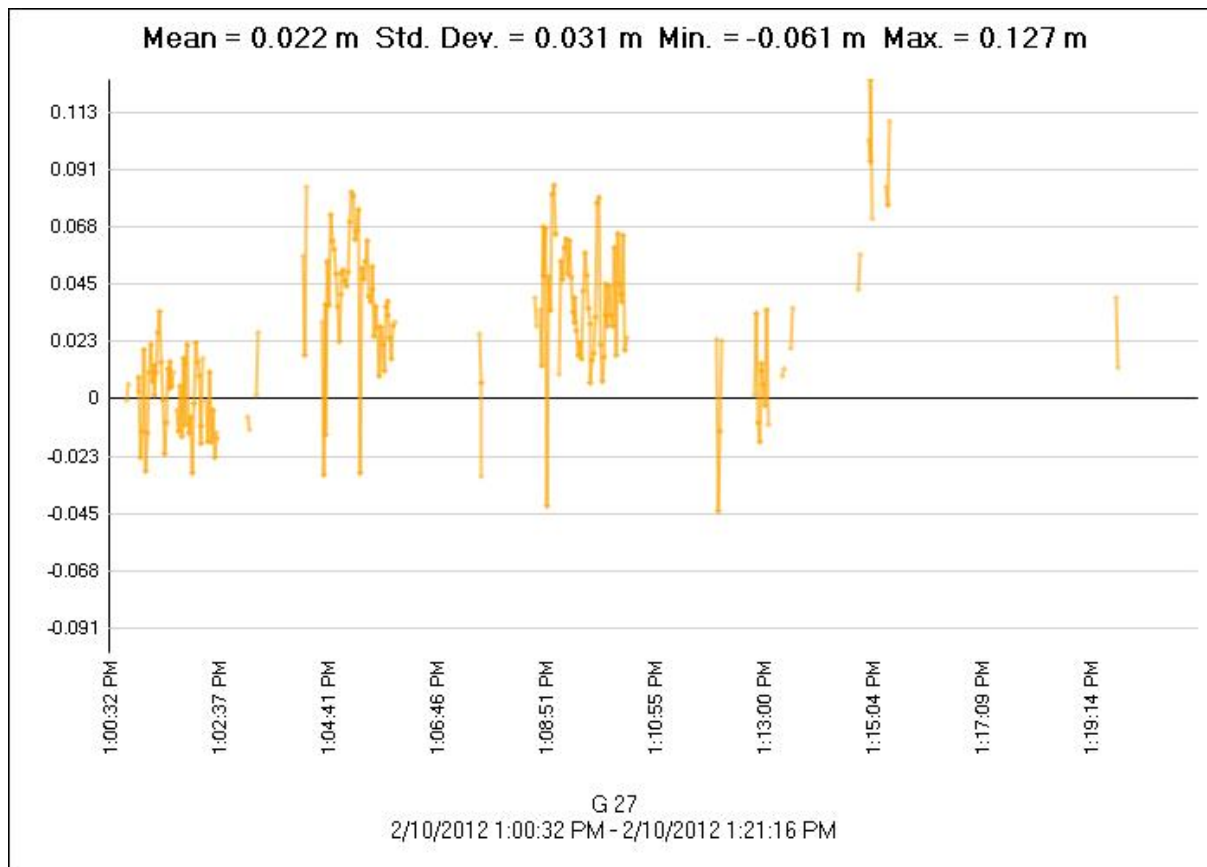
Residuals











Processing style

Elevation mask:	10.0 deg
Auto start processing:	Yes
Start automatic ID numbering:	AUTO0001
Continuous vectors:	No
Generate residuals:	Yes
Antenna model:	Automatic
Ephemeris type:	Automatic
Frequency:	Dual Frequency (L1, L2)
Processing Interval:	Use all data
Force float:	No

Acceptance Criteria

Vector Component	Flag 	Fail 
Horizontal Precision >	0.050 m + 1.000 ppm	0.100 m + 1.000 ppm
Vertical Precision >	0.100 m + 1.000 ppm	0.200 m + 1.000 ppm

Baseline observation: HH0162 --- FVA24-B2 (B90)

Processed: 3/21/2012 11:32:13 AM

Solution type: Fixed

Frequency used: Dual Frequency (L1, L2)

Horizontal precision: 0.047 m

Vertical precision: 0.043 m

RMS: 0.009 m

Maximum PDOP: 2.181

Ephemeris used: Broadcast

Antenna model: US National Geodetic Survey Calibration

Processing start time: 2/10/2012 2:32:16 PM (Local: UTC-7hr)

Processing stop time: 2/10/2012 2:55:08 PM (Local: UTC-7hr)

Processing duration: 00:22:52

Processing interval: .5 second

Vector Components (Mark to Mark)

From:	HH0162				
Grid		Local		Global	
Easting	334882.427 m	Latitude	N37°57'51.86394"	Latitude	N37°57'51.86394"
Northing	4203532.387 m	Longitude	W100°52'46.83509"	Longitude	W100°52'46.83509"
Elevation	877.100 m	Height	851.606 m	Height	851.606 m

To:	FVA24-B2				
Grid		Local		Global	
Easting	395274.386 m	Latitude	N37°51'55.54422"	Latitude	N37°51'55.54422"
Northing	4191552.199 m	Longitude	W100°11'26.22183"	Longitude	W100°11'26.22183"
Elevation	820.287 m	Height	794.559 m	Height	794.559 m

Vector					
9Ughb[	60391.959 m	NS Fwd Azimuth	100°03'54"	L	58351.308 m
BcfA\jb[	-11980.188 m	Ellipsoid Dist.	61579.366 m	M	-17673.345 m
9Yj Uhcb	-56.812 m	<Y][\h	-57.046 m	N	-8703.309 m

Standard Errors

Vector errors:

Point ID	0.016 m	Point Description	0°00'00"	Point Type	0.018 m
Point ID	0.013 m	Point Description	0.018 m	Point Type	0.012 m
Point ID	0.022 m	Point Description	0.022 m	Point Type	0.022 m


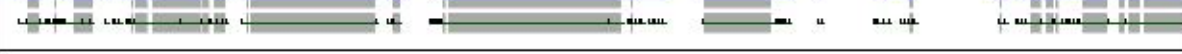







Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0003253379		
Y	0.0001344027	0.0001438601	
Z	-0.0003361920	-0.0001360150	0.0004661707

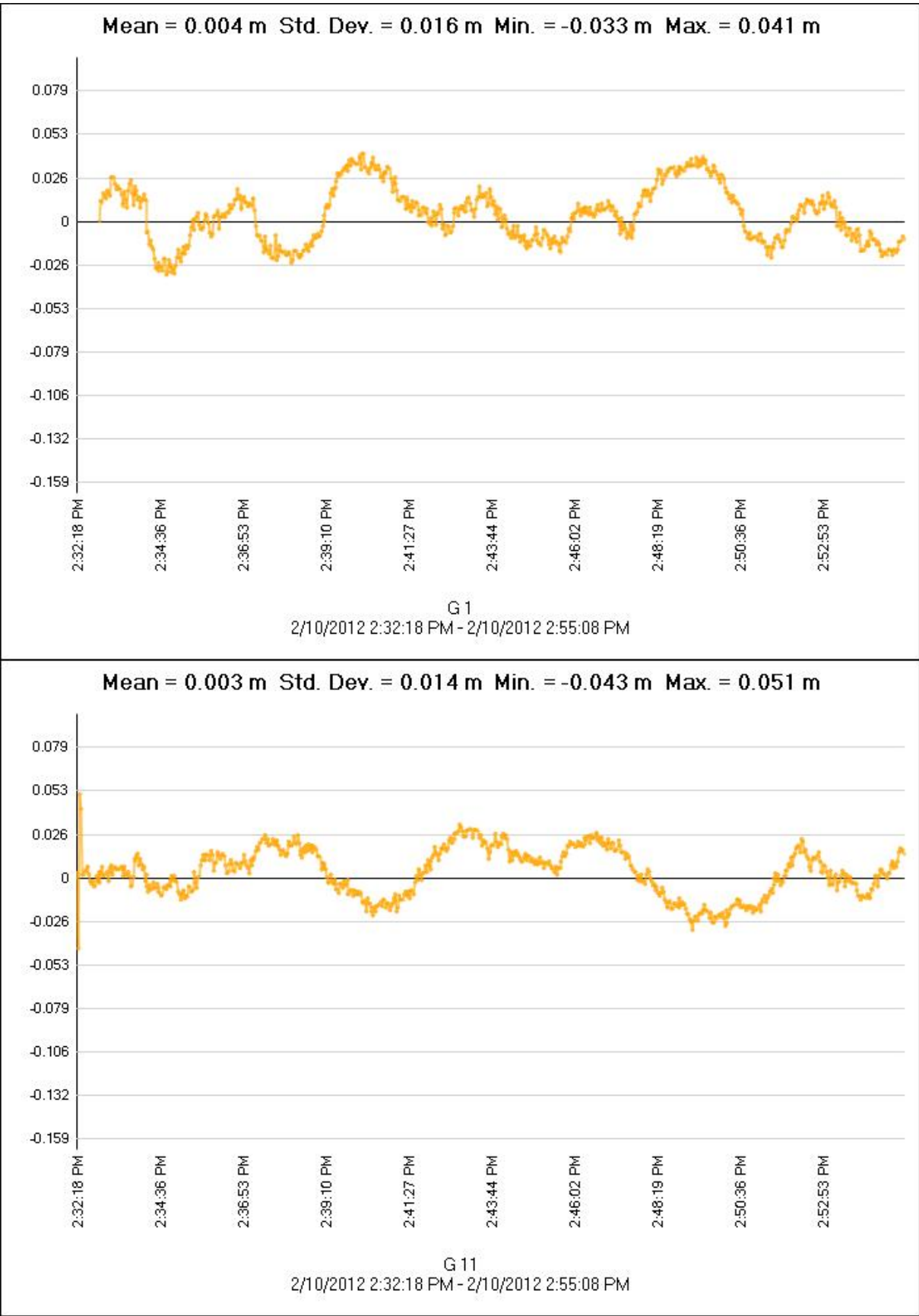
Occupations

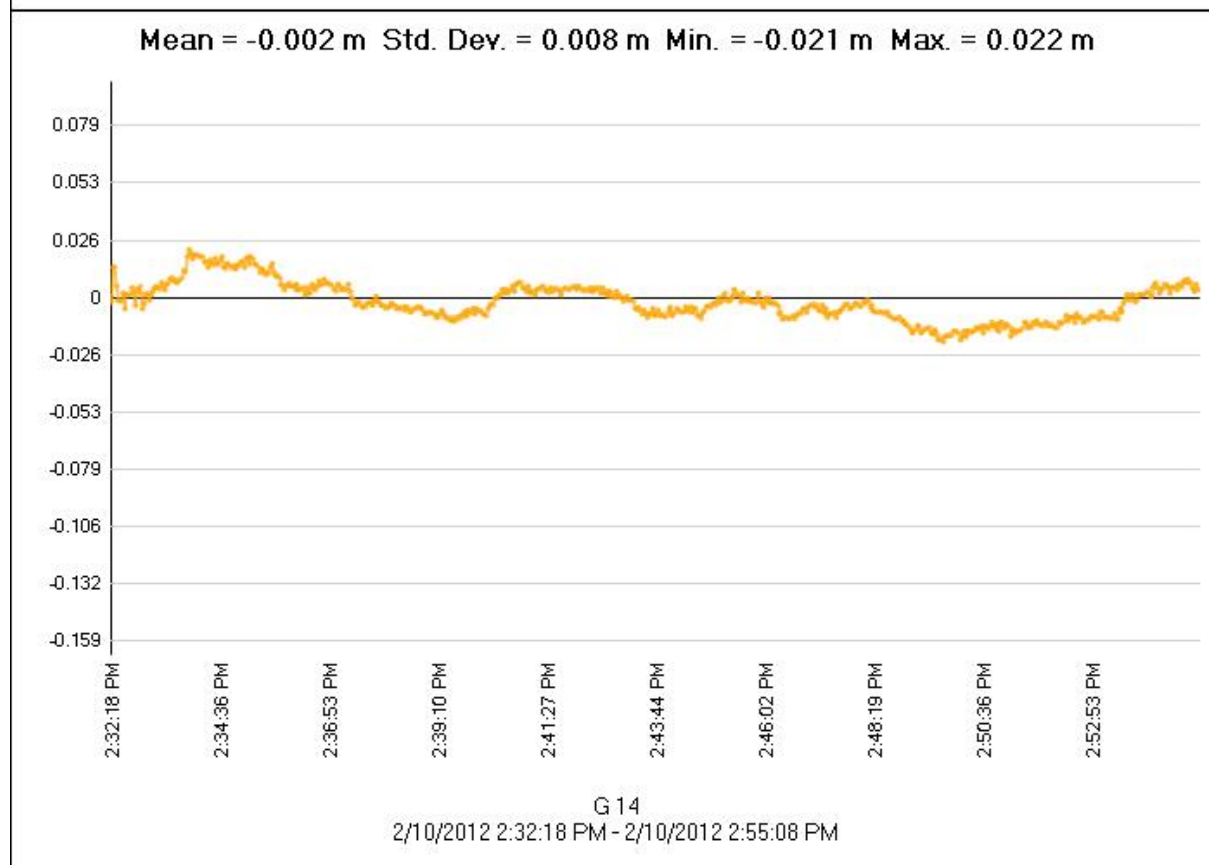
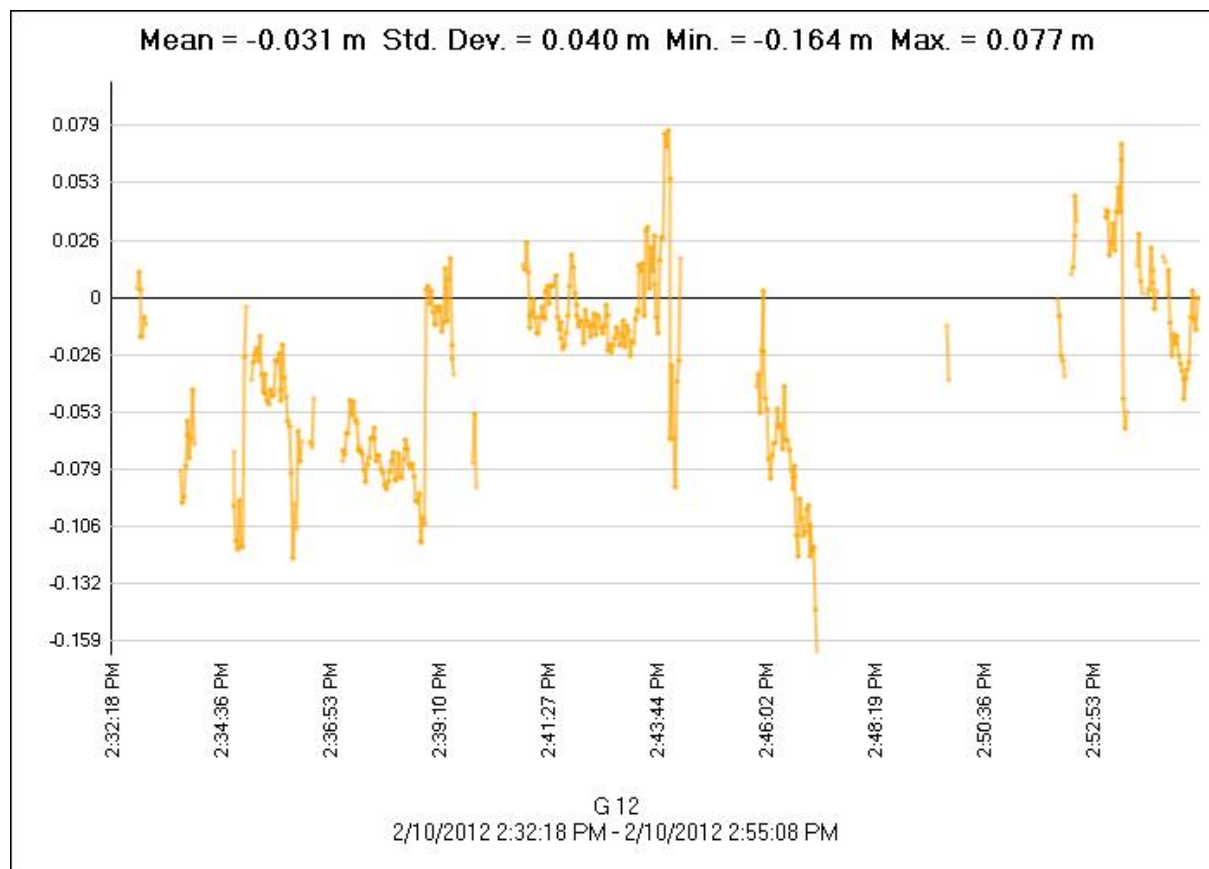
	From	To
Point ID:	HH0162	FVA24-B2
Data file:	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00010410.12o	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00080414.12o
Receiver type:	Unknown	Unknown
Receiver serial number:		
Antenna type:	Unknown External	Unknown External
Antenna serial number:	-----	-----
Antenna height (measured):	1.565 m	2.065 m
Antenna method:	Antenna Phase Center	Antenna Phase Center

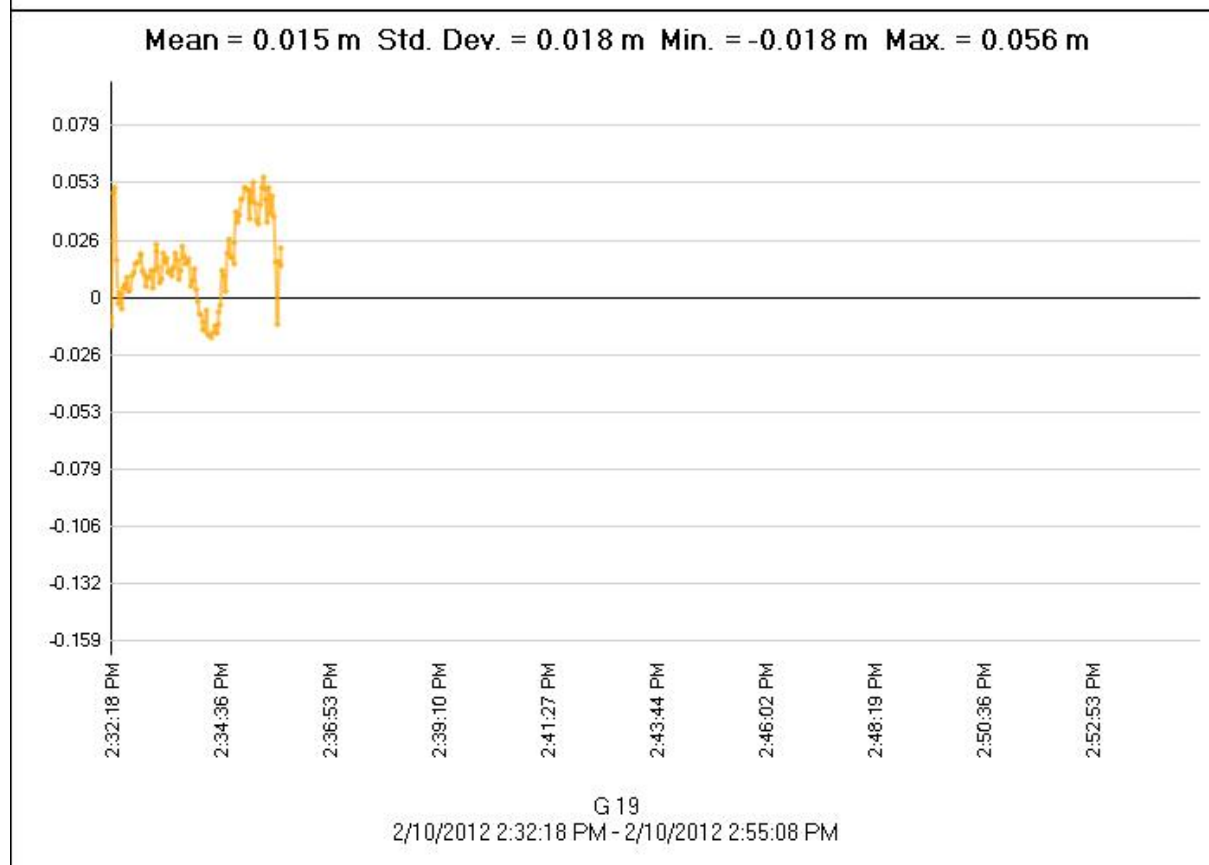
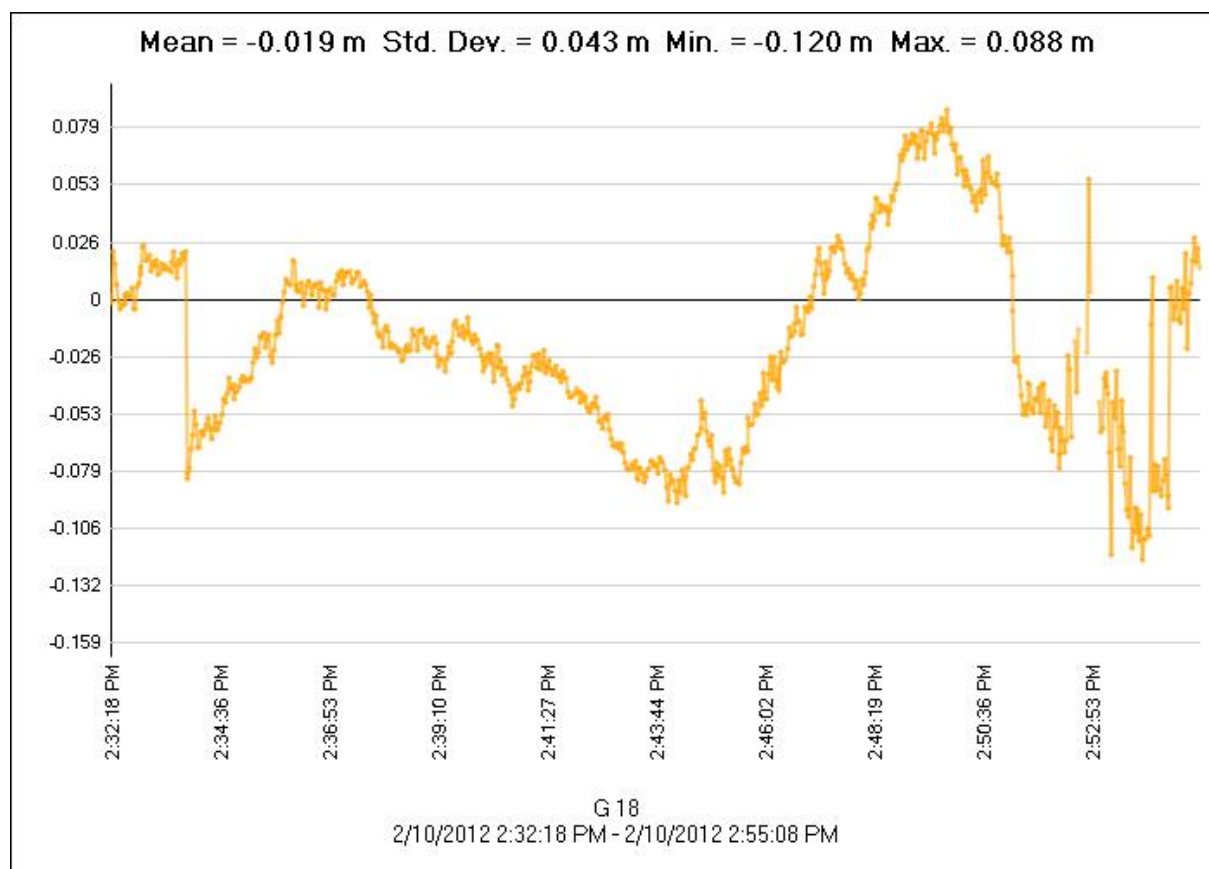
Tracking Summary

SV	2/10/2012 2:32:16 PM	Duration: 00:22:52	Major interval: 00:01:00	2/10/2012 2:55:08 PM
G 1	L1 L2			
G 9	L1 L2			
G 11	L1 L2			
G 12	L1 L2			
G 14	L1 L2			
G 18	L1 L2			
G 19	L1 L2			
G 21	L1 L2			
G 22	L1 L2			
G 25	L1 L2			
G 31	L1 L2			
G 32	L1 L2			

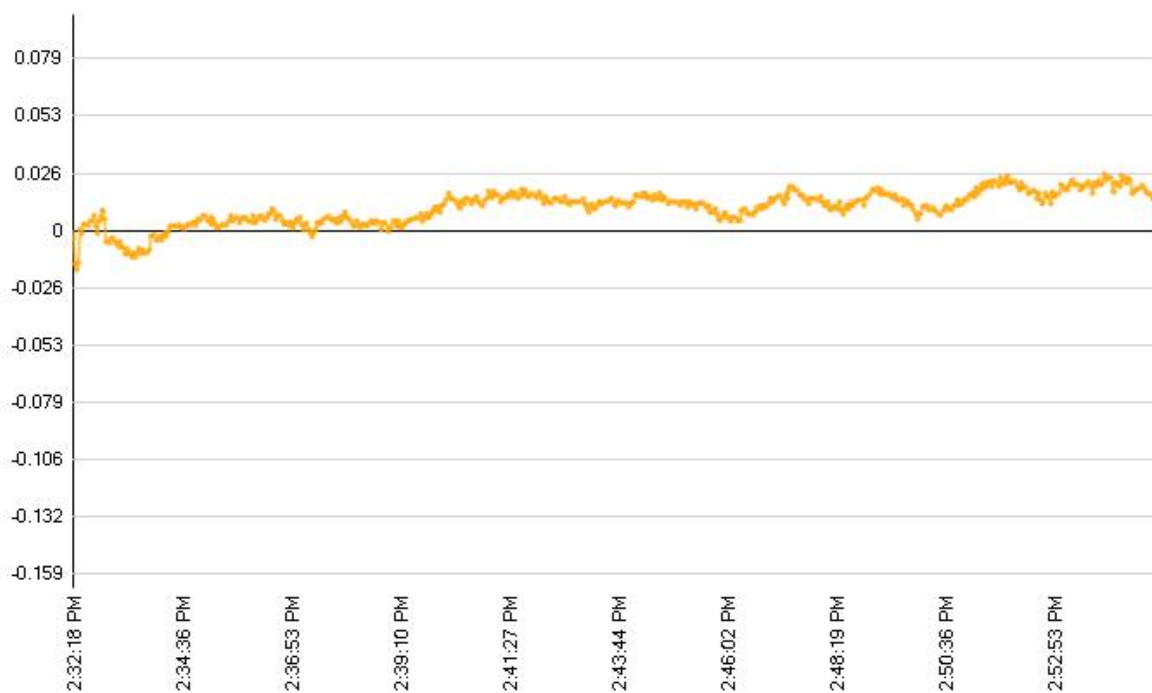
Residuals







Mean = 0.010 m Std. Dev. = 0.007 m Min. = -0.018 m Max. = 0.026 m



G 22

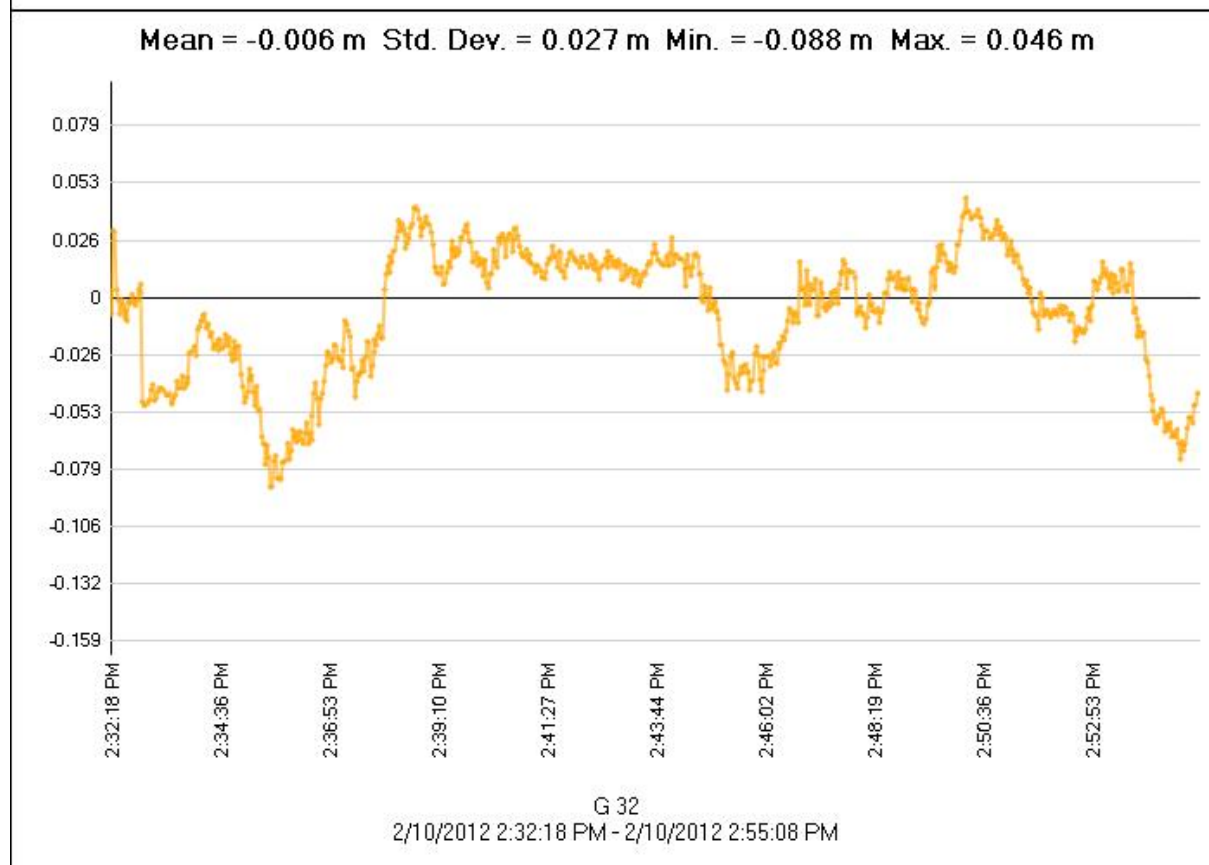
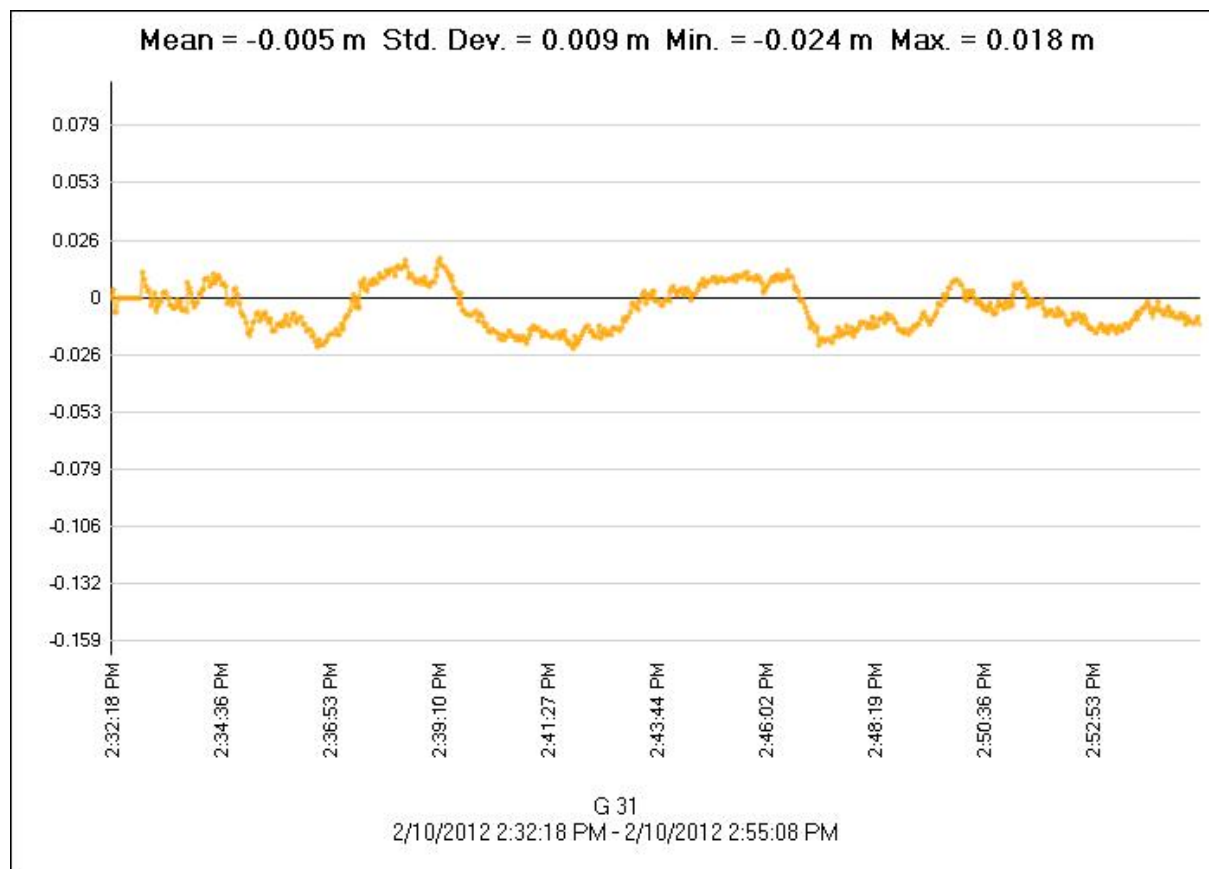
2/10/2012 2:32:18 PM - 2/10/2012 2:55:08 PM

Mean = -0.020 m Std. Dev. = 0.023 m Min. = -0.104 m Max. = 0.030 m



G 25



2/10/2012 2:32:18 PM - 2/10/2012 2:55:08 PM



Processing style

Elevation mask:	10.0 deg
Auto start processing:	Yes
Start automatic ID numbering:	AUTO0001
Continuous vectors:	No
Generate residuals:	Yes
Antenna model:	Automatic
Ephemeris type:	Automatic
Frequency:	Dual Frequency (L1, L2)
Processing Interval:	Use all data
Force float:	No

Acceptance Criteria

Vector Component	Flag 	Fail 
Horizontal Precision >	0.050 m + 1.000 ppm	0.100 m + 1.000 ppm
Vertical Precision >	0.100 m + 1.000 ppm	0.200 m + 1.000 ppm

HH0162 - FVA55-B2 (3:16:27 PM-3:40:46 PM) (S91)

Baseline observation: HH0162 --- FVA55-B2 (B91)

Processed: 3/21/2012 11:32:13 AM

Solution type: Fixed

Frequency used: Dual Frequency (L1, L2)

Horizontal precision: 0.024 m

Vertical precision: 0.134 m

RMS: 0.007 m

Maximum PDOP: 2.738

Ephemeris used: Broadcast

Antenna model: US National Geodetic Survey Calibration

Processing start time: 2/10/2012 3:16:27 PM (Local: UTC-7hr)

Processing stop time: 2/10/2012 3:40:46 PM (Local: UTC-7hr)

Processing duration: 00:24:18

Processing interval: .5 second

Vector Components (Mark to Mark)

From:	HH0162				
Grid		Local		Global	
Easting	334882.427 m	Latitude	N37°57'51.86394"	Latitude	N37°57'51.86394"
Northing	4203532.387 m	Longitude	W100°52'46.83509"	Longitude	W100°52'46.83509"
Elevation	877.100 m	Height	851.606 m	Height	851.606 m

To:	FVA55-B2				
Grid		Local		Global	
Easting	388222.371 m	Latitude	N37°48'04.46414"	Latitude	N37°48'04.46413"
Northing	4184521.745 m	Longitude	W100°16'10.87348"	Longitude	W100°16'10.87348"
Elevation	820.771 m	Height	794.934 m	Height	794.934 m

Vector					
9Ughb[	53339.945 m	NS Fwd Azimuth	108°27'42"	L	50724.257 m
BcfA\jb[	-19010.642 m	Ellipsoid Dist.	56635.563 m	M	-20738.283 m
9Yj Uhcb	-56.329 m	<Y][\h	-56.671 m	N	-14330.732 m

Standard Errors

Vector errors:					
Point ID	0.009 m	Point Description	0°00'00"	Point Type	0.011 m
Point ID	0.010 m	Point Description	0.010 m	Point Type	0.053 m
Point ID	0.068 m	Point Description	0.068 m	Point Type	0.043 m

Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0001300136		
Y	0.0003774024	0.0028484305	
Z	-0.0003064998	-0.0021928600	0.0018440294

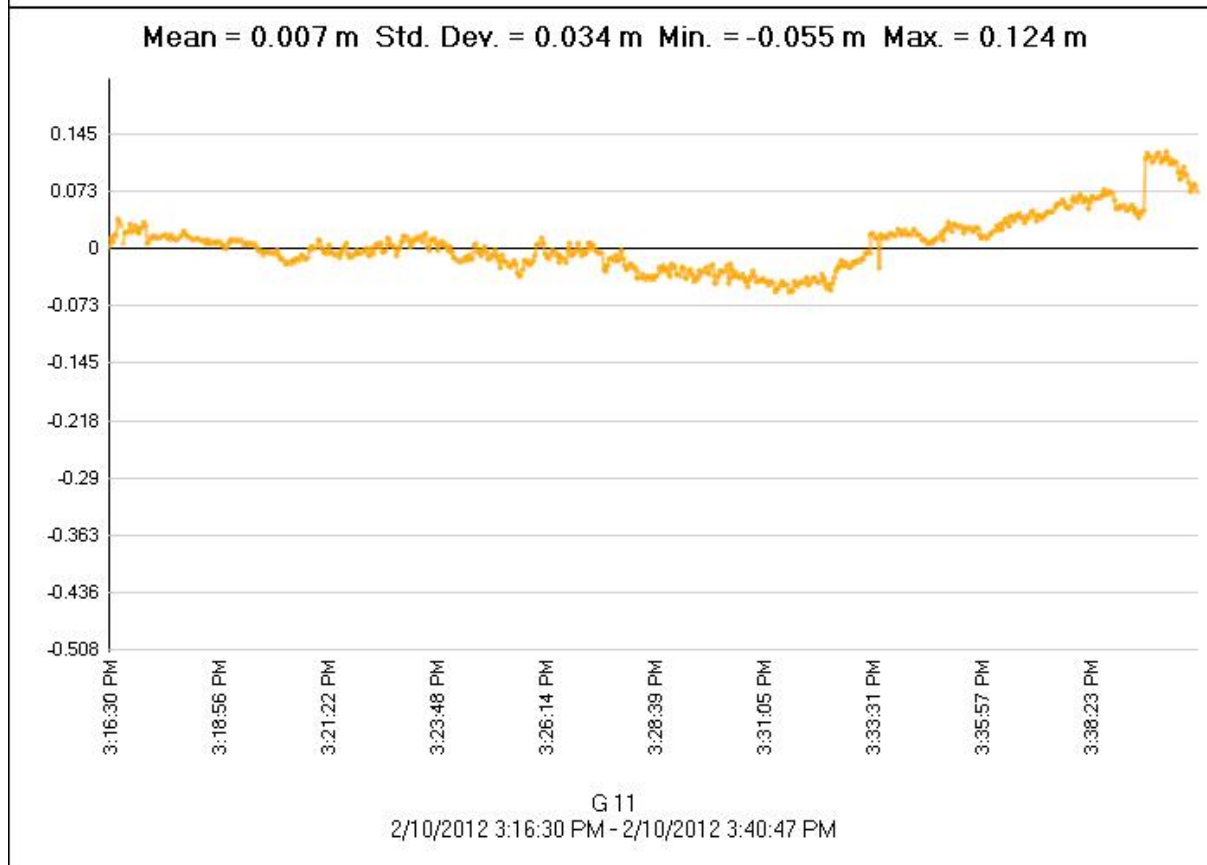
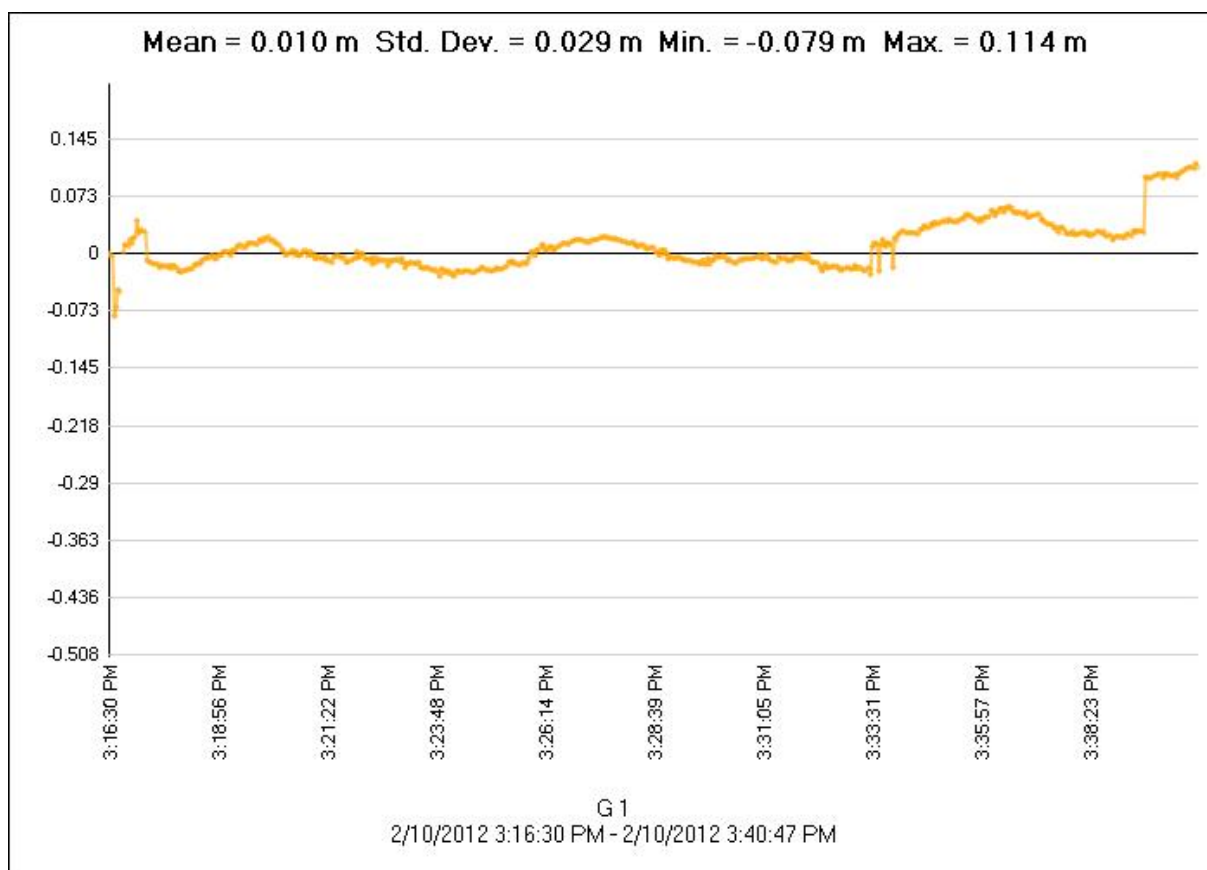
Occupations

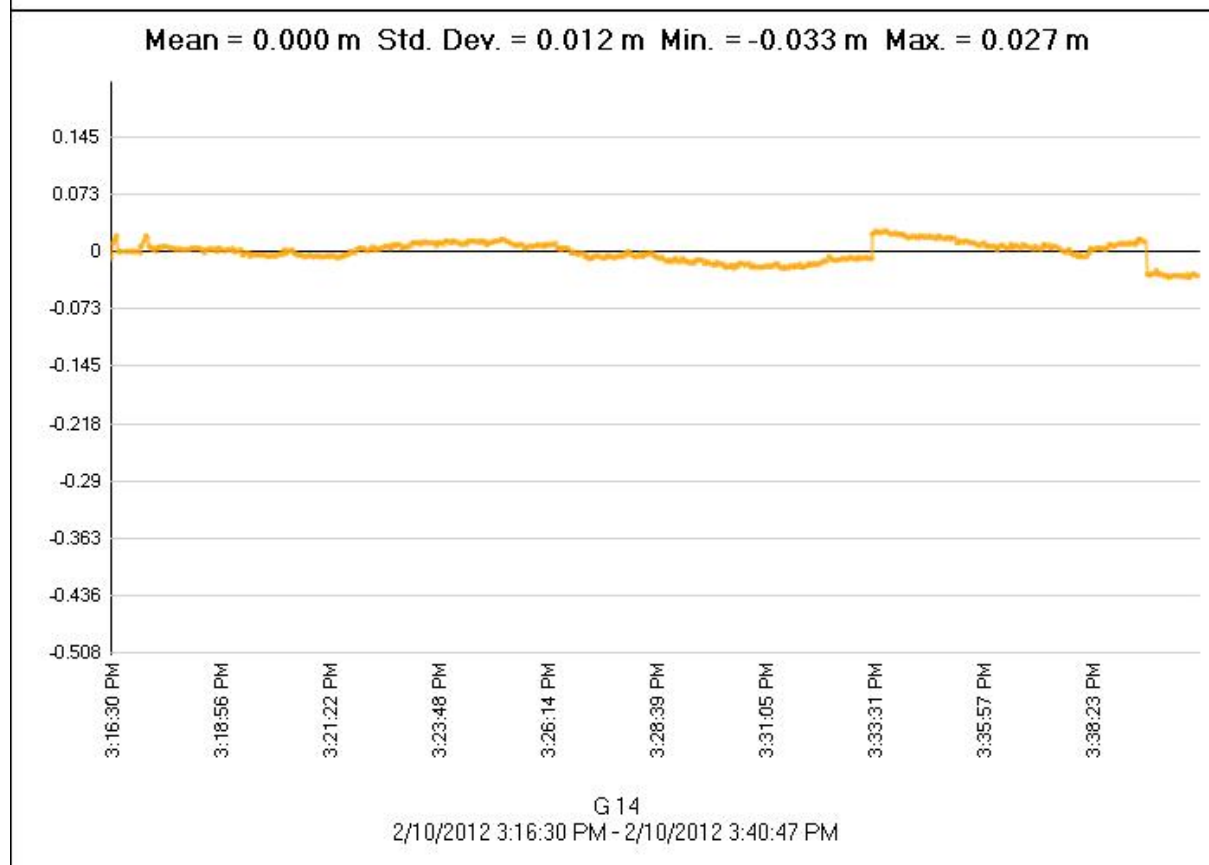
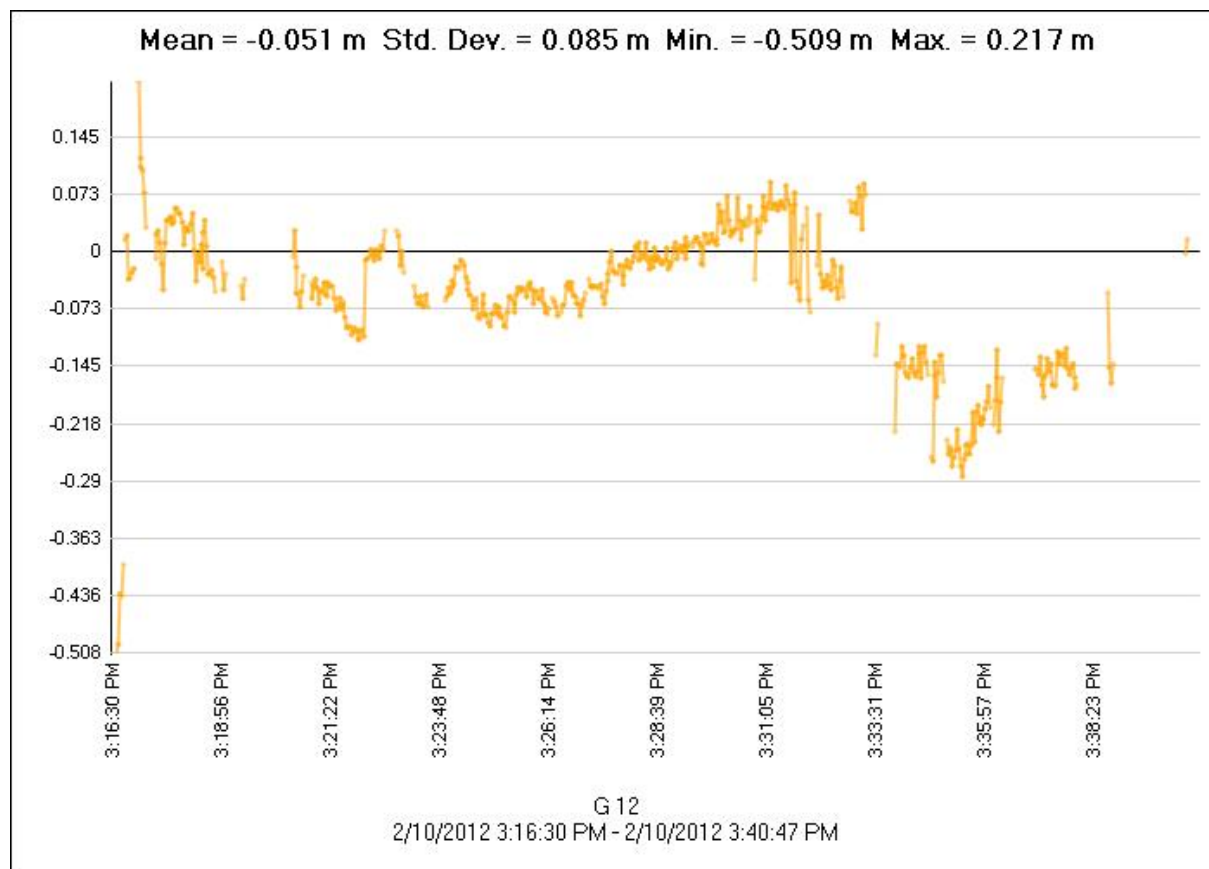
	From	To
Point ID:	HH0162	FVA55-B2
Data file:	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00010410.12o	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00080415.12o
Receiver type:	Unknown	Unknown
Receiver serial number:		
Antenna type:	Unknown External	Unknown External
Antenna serial number:	-----	-----
Antenna height (measured):	1.565 m	2.065 m
Antenna method:	Antenna Phase Center	Antenna Phase Center

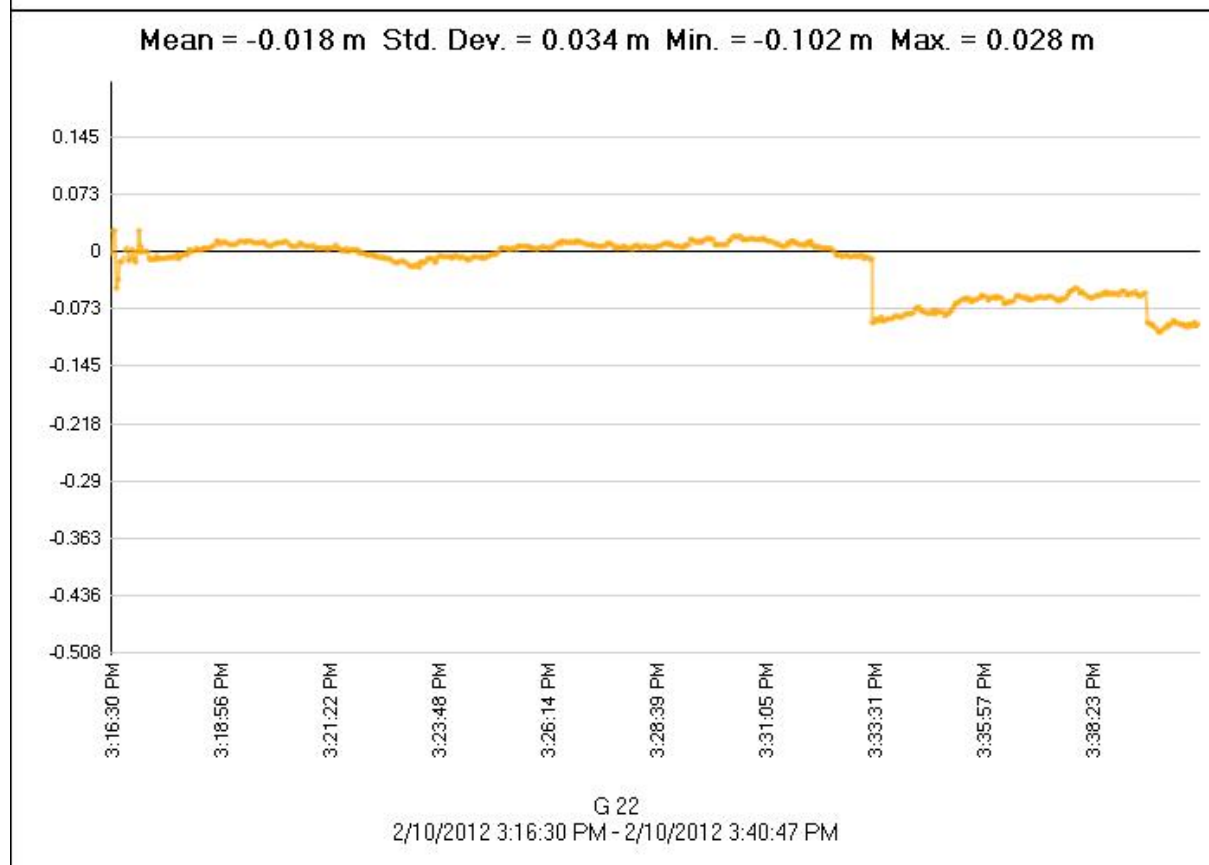
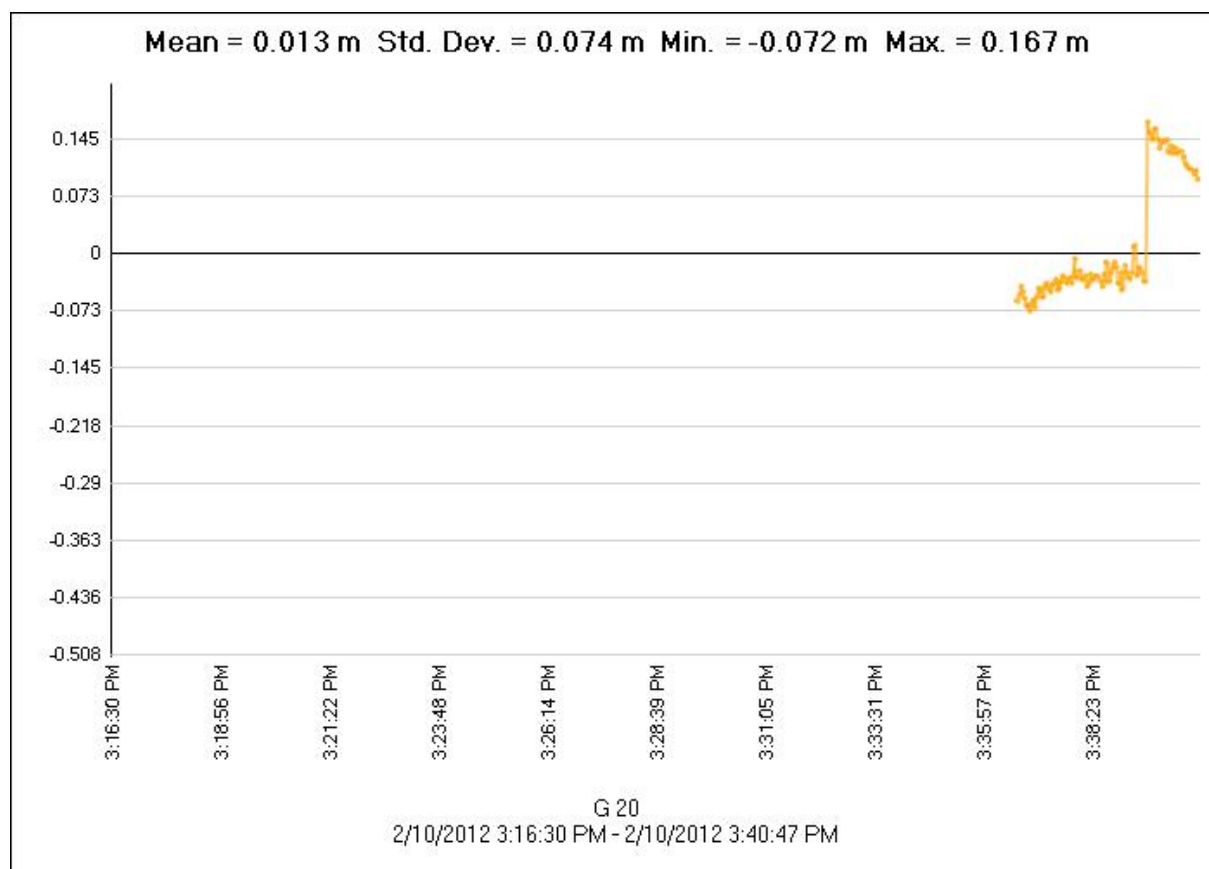
Tracking Summary

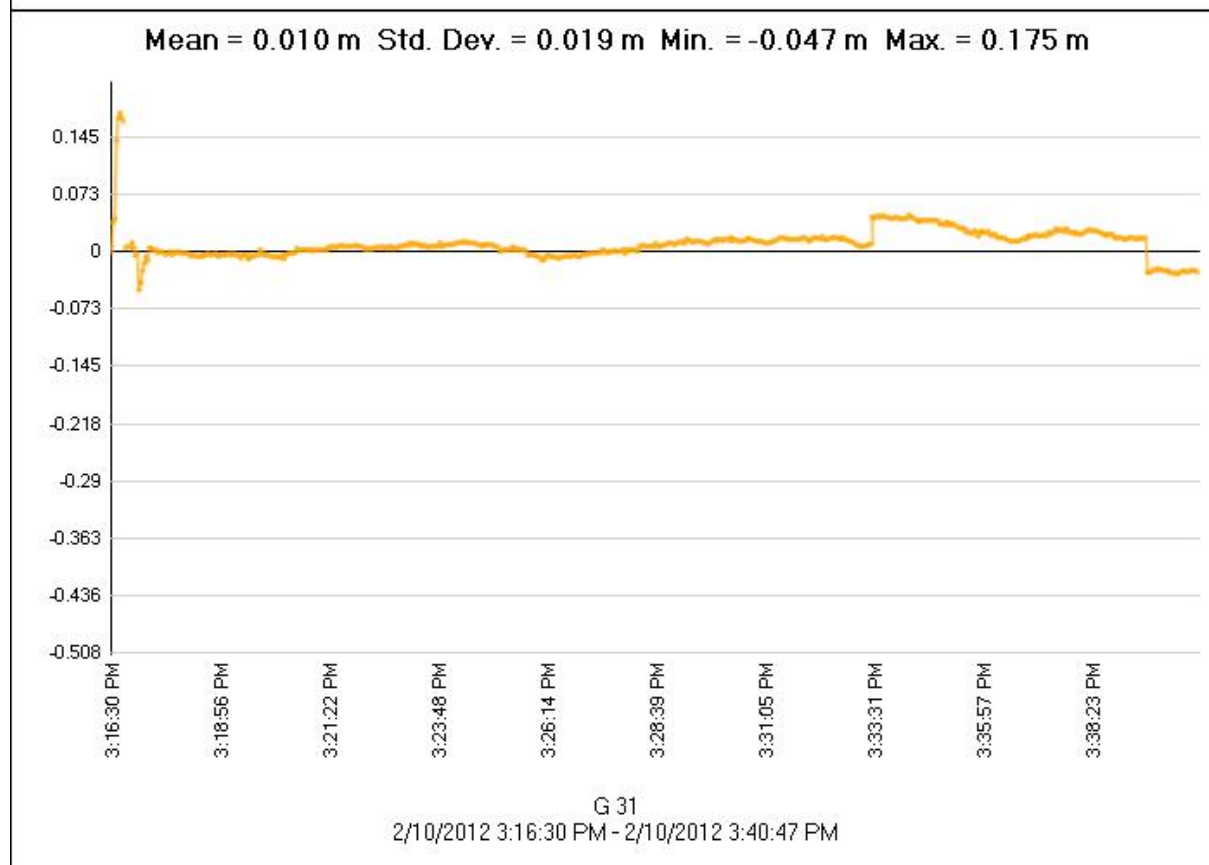
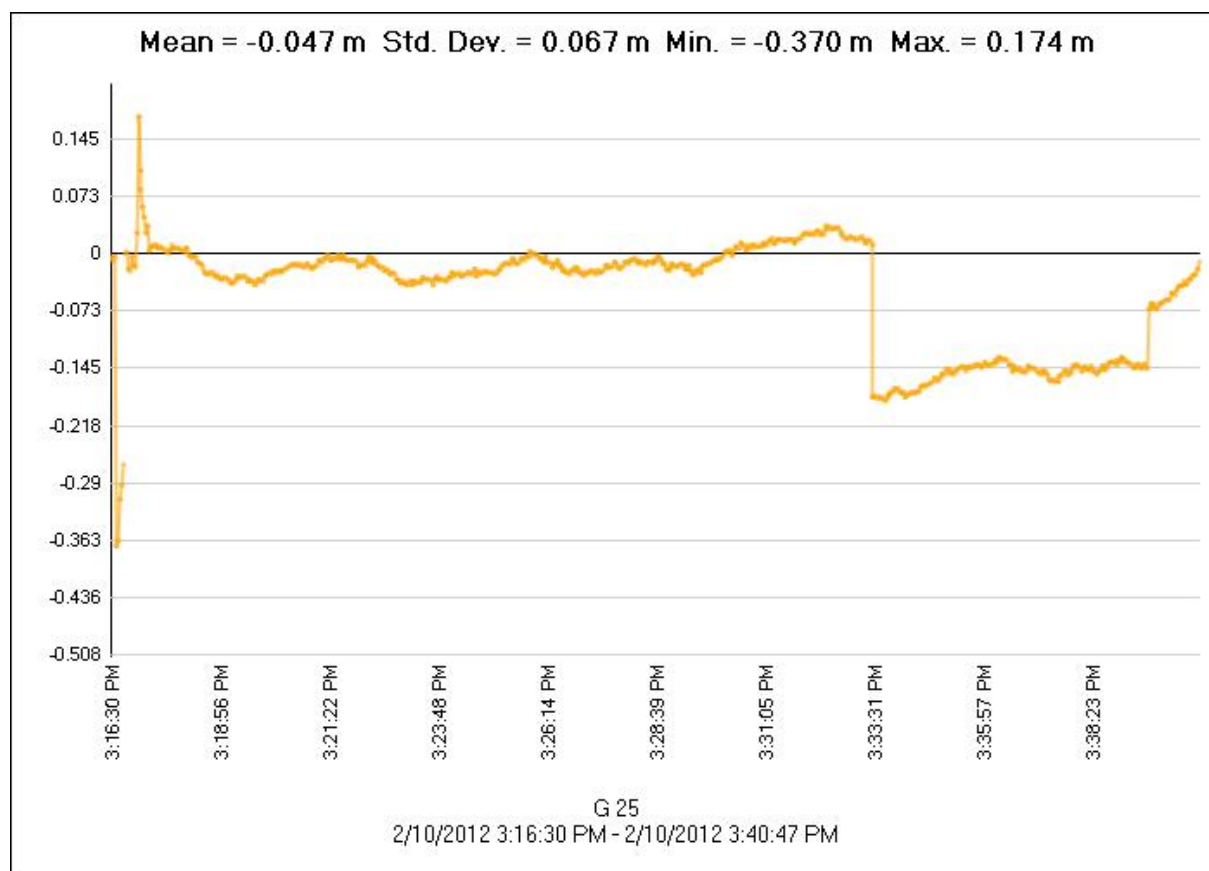
SV	2/10/2012 3:16:27 PM	Duration: 00:24:18.5000000	Major interval: 00:01:00	2/10/2012 3:40:46 PM
G 1	L1 L2			
G 11	L1 L2			
G 12	L1 L2			
G 14	L1 L2			
G 18	L1 L2			
G 19	L1			
G 20	L1 L2			
G 22	L1 L2			
G 25	L1 L2			
G 30	L1 L2			
G 31	L1 L2			
G 32	L1 L2			

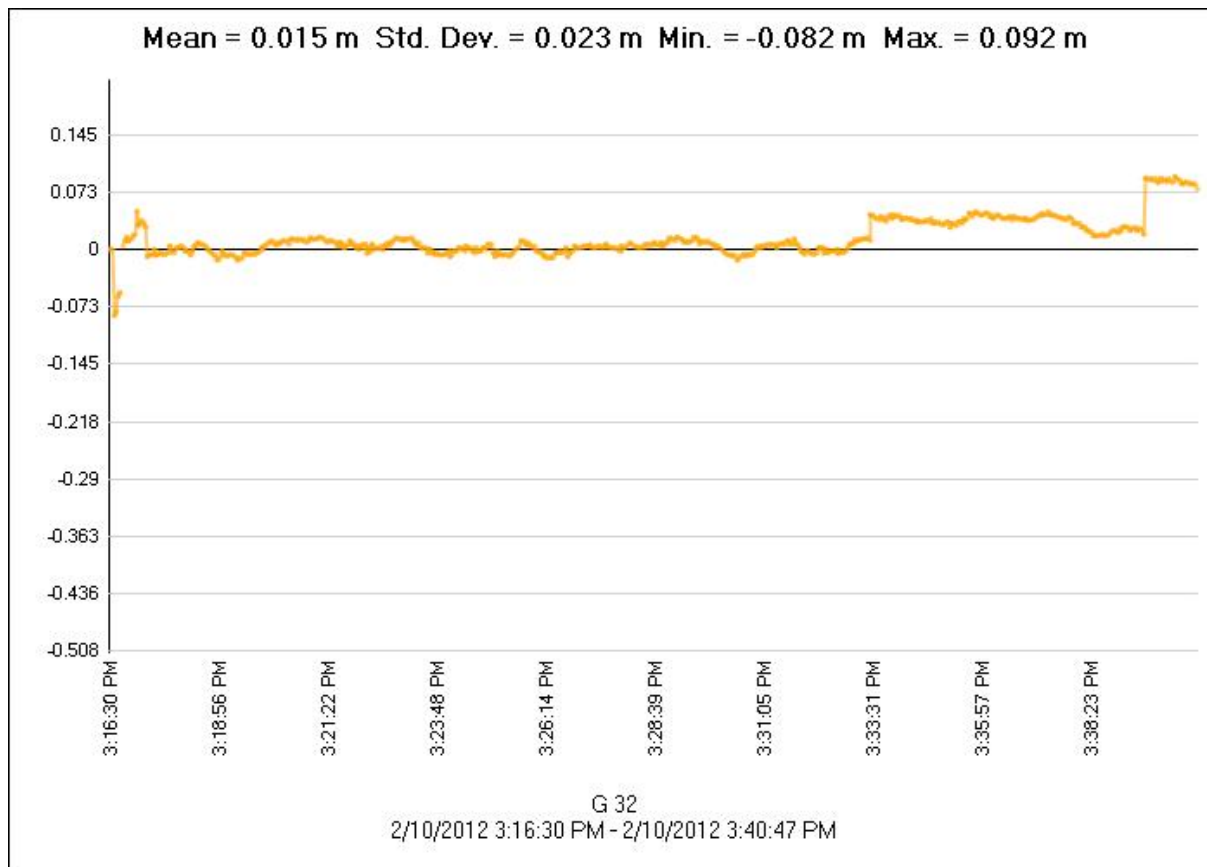
Residuals











Processing style

Elevation mask:	10.0 deg
Auto start processing:	Yes
Start automatic ID numbering:	AUTO0001
Continuous vectors:	No
Generate residuals:	Yes
Antenna model:	Automatic
Ephemeris type:	Automatic
Frequency:	Dual Frequency (L1, L2)
Processing Interval:	Use all data
Force float:	No

Acceptance Criteria

Vector Component	Flag 	Fail 
Horizontal Precision >	0.050 m + 1.000 ppm	0.100 m + 1.000 ppm
Vertical Precision >	0.100 m + 1.000 ppm	0.200 m + 1.000 ppm

HH0162 - FVA11-B2 (8:41:16 AM-9:01:30 AM) (S113)

Baseline observation: HH0162 --- FVA11-B2 (B113)

Processed: 3/21/2012 1:39:53 PM

Solution type: Fixed

Frequency used: Dual Frequency (L1, L2)

Horizontal precision: 0.016 m

Vertical precision: 0.027 m

RMS: 0.005 m

Maximum PDOP: 2.820

Ephemeris used: Broadcast

Antenna model: US National Geodetic Survey Calibration

Processing start time: 2/12/2012 8:41:16 AM (Local: UTC-7hr)

Processing stop time: 2/12/2012 9:01:30 AM (Local: UTC-7hr)

Processing duration: 00:20:14

Processing interval: .5 second

Vector Components (Mark to Mark)

From:	HH0162				
Grid		Local		Global	
Easting	334882.633 m	Latitude	N37°57'51.89798"	Latitude	N37°57'51.89797"
Northing	4203533.433 m	Longitude	W100°52'46.82753"	Longitude	W100°52'46.82753"
Elevation	873.613 m	Height	848.119 m	Height	848.119 m

To:	FVA11-B2				
Grid		Local		Global	
Easting	342903.372 m	Latitude	N38°07'53.00888"	Latitude	N38°07'53.00888"
Northing	4221910.912 m	Longitude	W100°47'32.79352"	Longitude	W100°47'32.79352"
Elevation	903.425 m	Height	878.151 m	Height	878.151 m

Vector					
9Ughb[	8020.740 m	NS Fwd Azimuth	22°25'12"	L	9664.584 m
Bcfh\jb[	18377.480 m	Ellipsoid Dist.	20053.144 m	M	9757.708 m
9`Yj Uhc b	29.812 m	<Y][\h	30.032 m	N	14615.786 m

Standard Errors

Vector errors:					
Point ID	0.006 m	Point ID	0°00'00"	Point ID	0.006 m
Point ID	0.007 m	Point ID	0.006 m	Point ID	0.012 m
Point ID	0.014 m	Point ID	0.014 m	Point ID	0.009 m

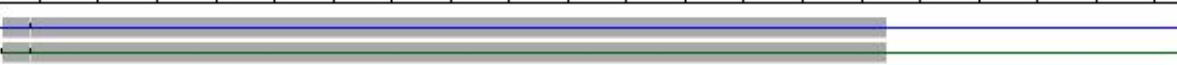






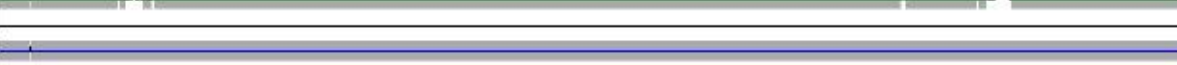


Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0000314887		
Y	0.0000140967	0.0001530678	
Z	-0.0000114099	-0.0000635405	0.0000760177

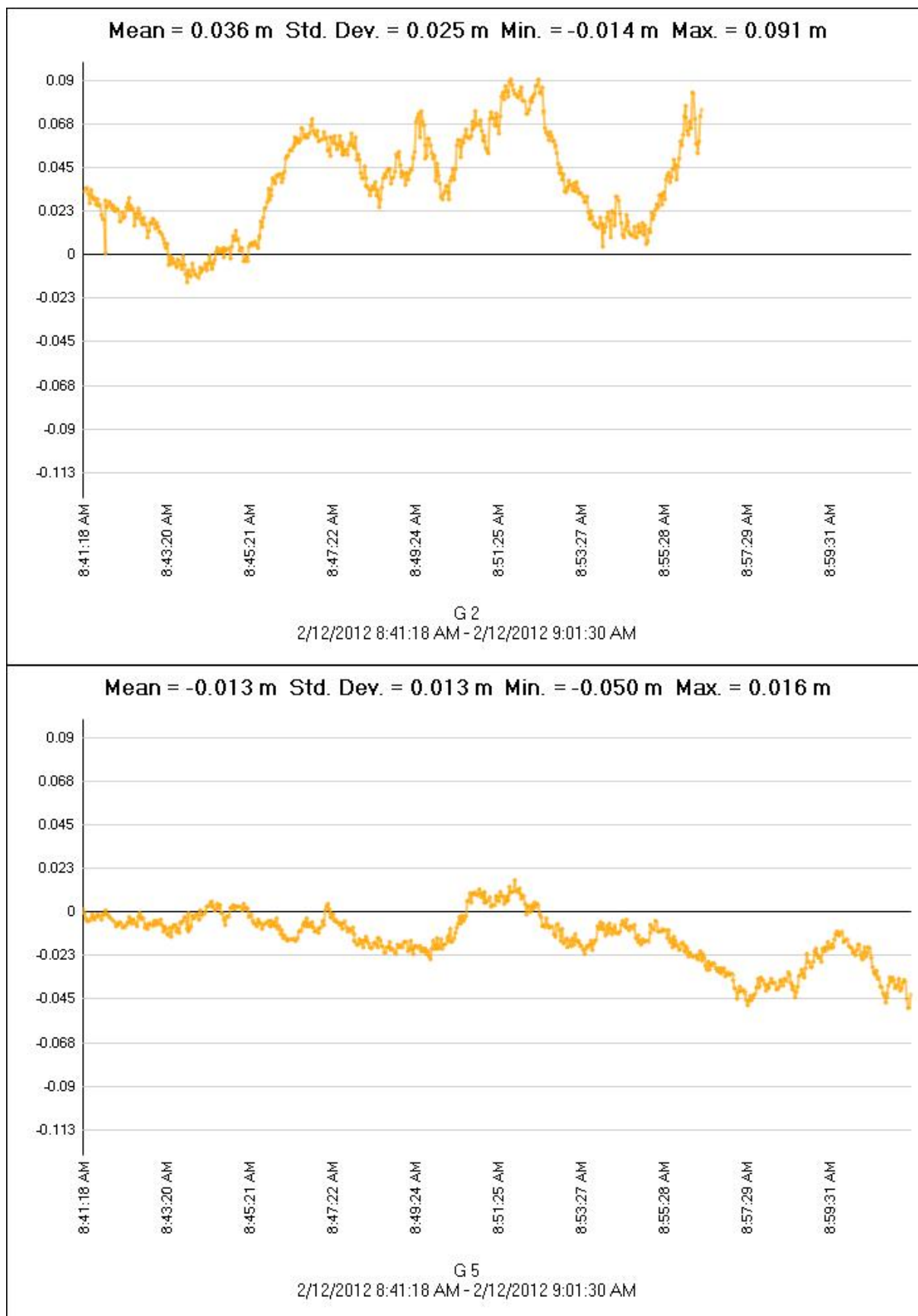
Occupations

	From	To
Point ID:	HH0162	FVA11-B2
Data file:	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00040430.12o	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00080430.12o
Receiver type:	Unknown	Unknown
Receiver serial number:		
Antenna type:	Unknown External	Unknown External
Antenna serial number:	-----	-----
Antenna height (measured):	1.565 m	2.065 m
Antenna method:	Antenna Phase Center	Antenna Phase Center

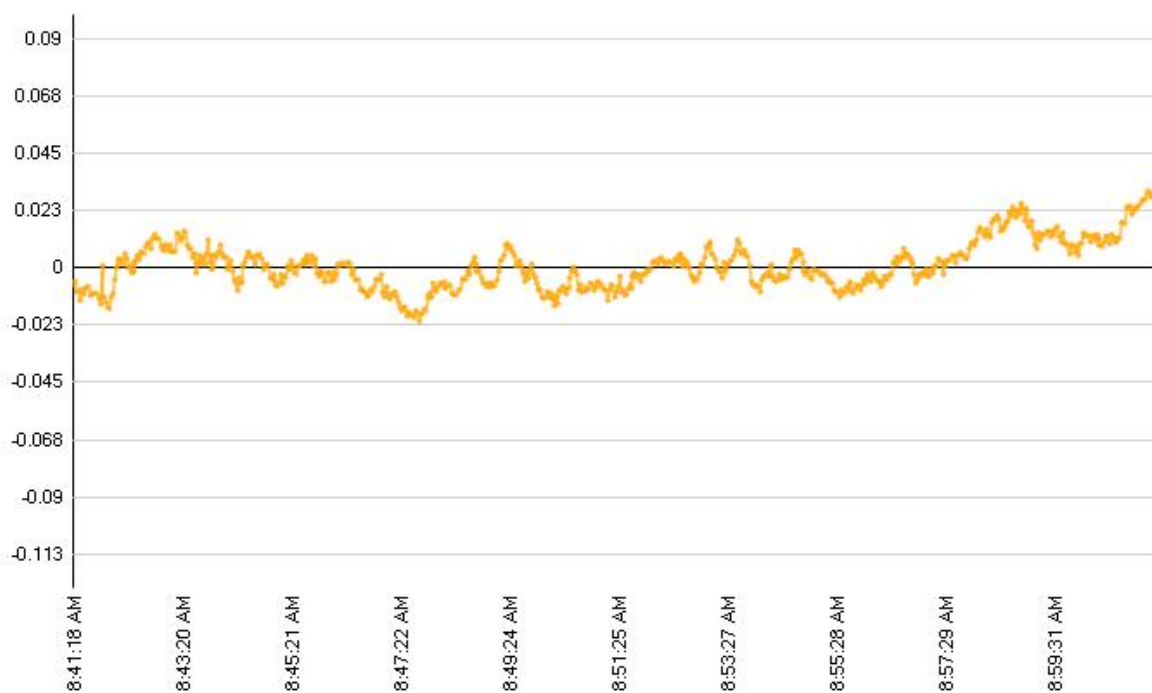
Tracking Summary

SV	2/12/2012 8:41:16 AM	Duration: 00:20:14	Major interval: 00:01:00	2/12/2012 9:01:30 AM
G 2	L1 L2			
G 5	L1 L2			
G 12	L1 L2			
G 15	L1 L2			
G 16	L1 L2			
G 18	L1 L2			
G 21	L1 L2			
G 25	L1 L2			
G 29	L1 L2			
G 30	L1 L2			

Residuals

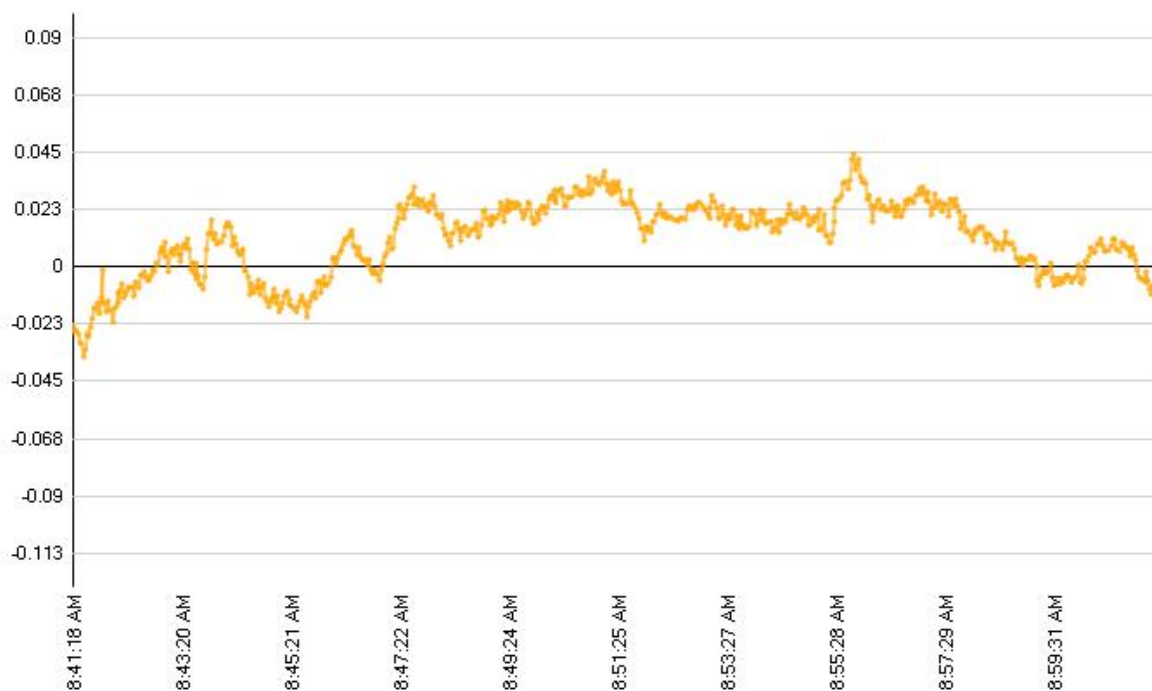


Mean = 0.001 m Std. Dev. = 0.009 m Min. = -0.021 m Max. = 0.031 m

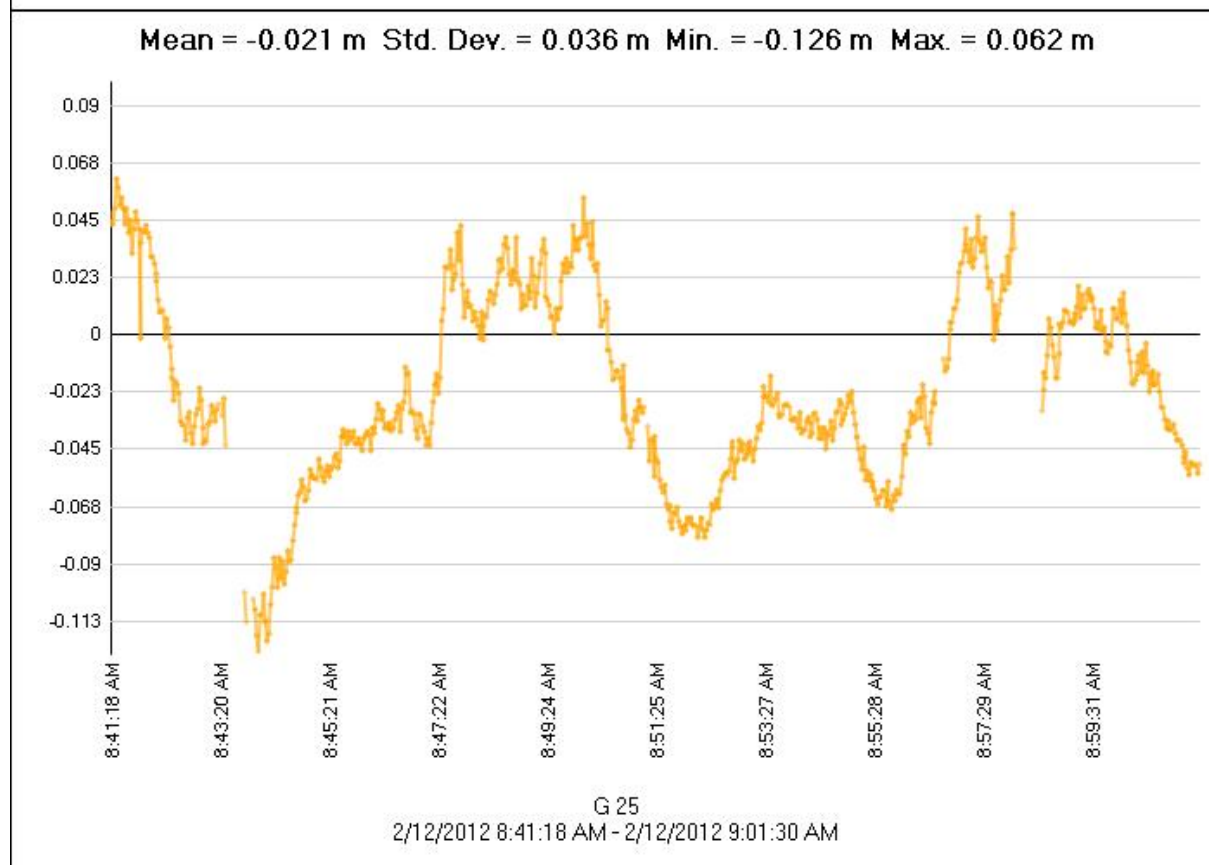
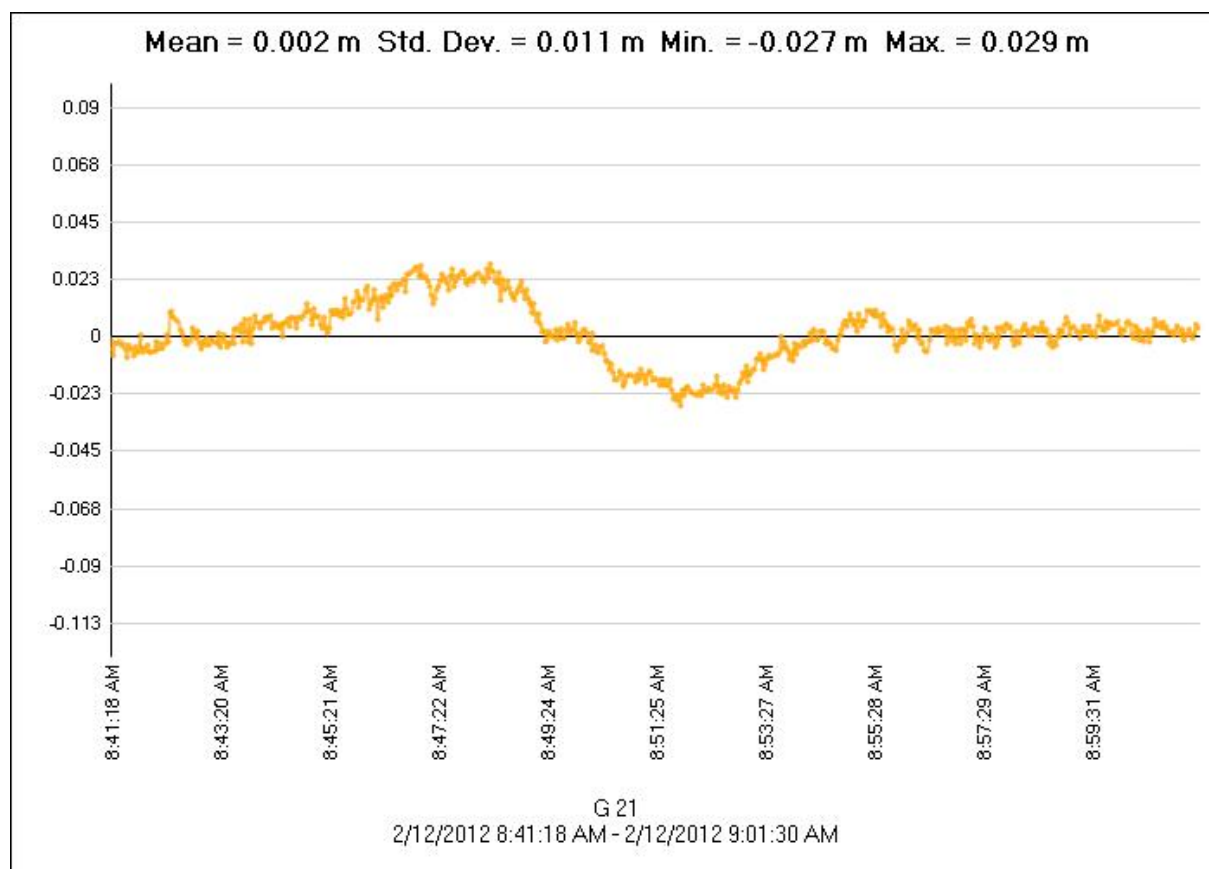


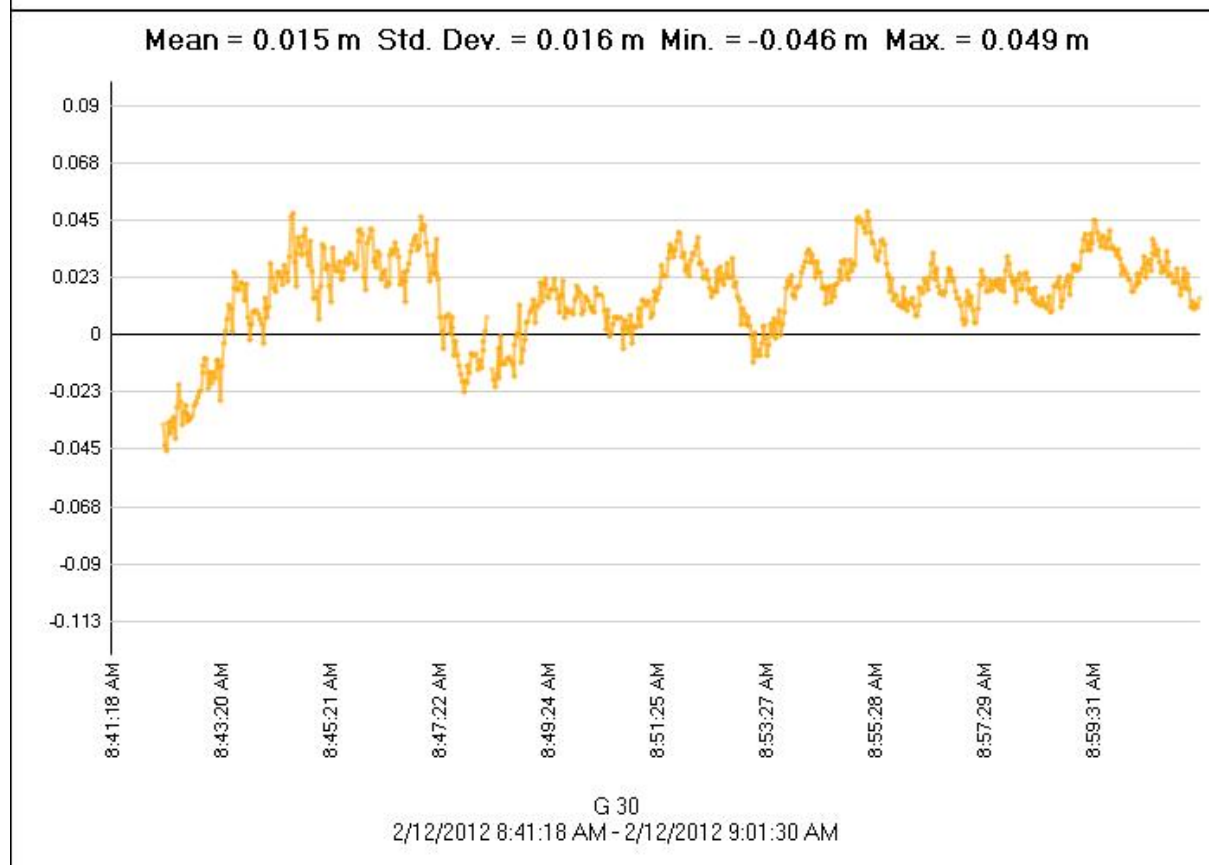
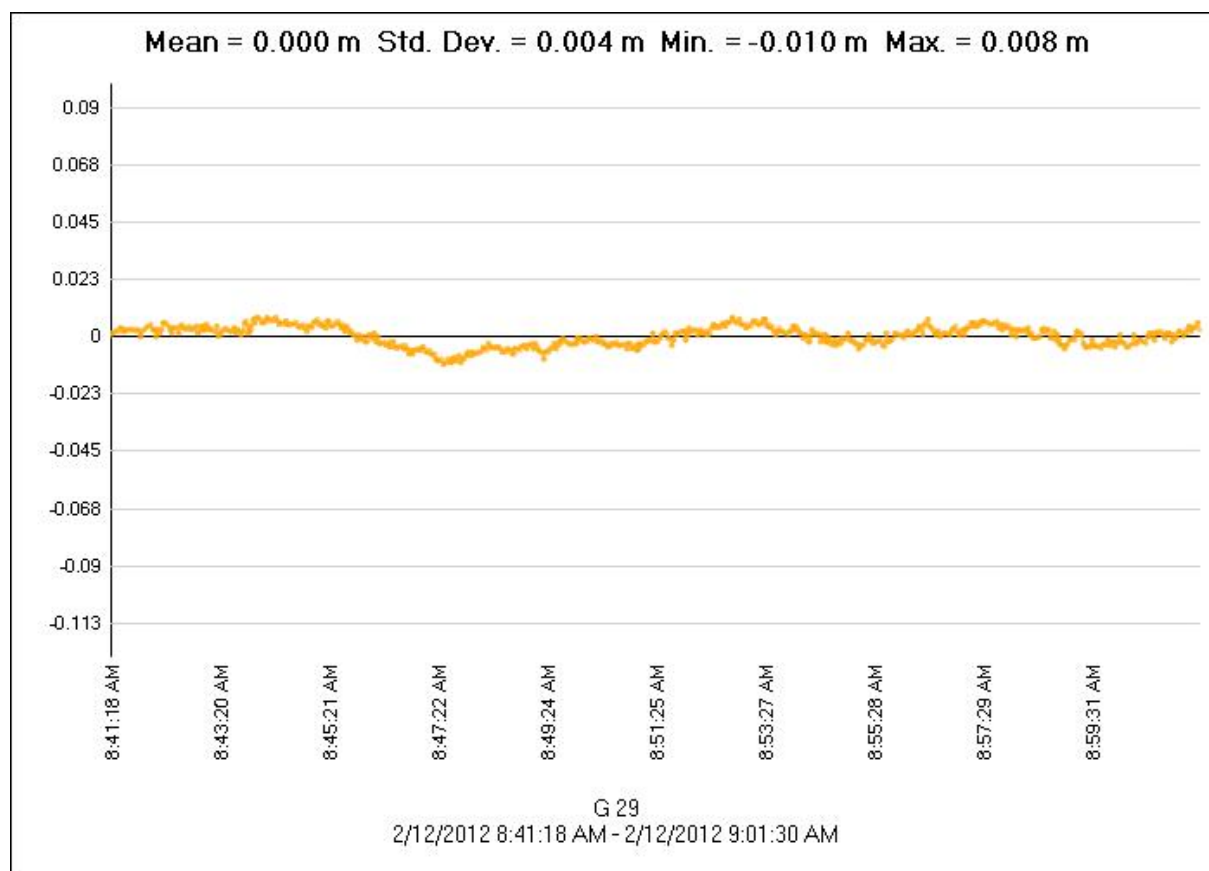
G 15
2/12/2012 8:41:18 AM - 2/12/2012 9:01:30 AM

Mean = 0.011 m Std. Dev. = 0.014 m Min. = -0.035 m Max. = 0.045 m



G 18
2/12/2012 8:41:18 AM - 2/12/2012 9:01:30 AM







Processing style

Elevation mask:	10.0 deg
Auto start processing:	Yes
Start automatic ID numbering:	AUTO0001
Continuous vectors:	No
Generate residuals:	Yes
Antenna model:	Automatic
Ephemeris type:	Automatic
Frequency:	Dual Frequency (L1, L2)
Processing Interval:	Use all data
Force float:	No

Acceptance Criteria

Vector Component	Flag 	Fail 
Horizontal Precision >	0.050 m + 1.000 ppm	0.100 m + 1.000 ppm
Vertical Precision >	0.100 m + 1.000 ppm	0.200 m + 1.000 ppm

HH0162 - FVA45-B2 (9:44:26 AM-10:02:36 AM) (S114)

Baseline observation: HH0162 --- FVA45-B2 (B114)

Processed: 4/3/2012 3:34:11 PM

Solution type: Fixed

Frequency used: Dual Frequency (L1, L2)

Horizontal precision: 0.021 m

Vertical precision: 0.121 m

RMS: 0.007 m

Maximum PDOP: 3.372

Ephemeris used: Broadcast

Antenna model: US National Geodetic Survey Calibration

Processing start time: 2/12/2012 9:44:26 AM (Local: UTC-7hr)

Processing stop time: 2/12/2012 10:02:36 AM (Local: UTC-7hr)

Processing duration: 00:18:10

Processing interval: .5 second

Vector Components (Mark to Mark)

From:	HH0162				
Grid		Local		Global	
Easting	334883.935 m	Latitude	N37°57'51.86317"	Latitude	N37°57'51.86317"
Northing	4203532.333 m	Longitude	W100°52'46.77326"	Longitude	W100°52'46.77326"
Elevation	865.832 m	Height	840.338 m	Height	840.338 m

To:	FVA45-B2				
Grid		Local		Global	
Easting	376433.718 m	Latitude	N38°04'18.71511"	Latitude	N38°04'18.71511"
Northing	4214725.518 m	Longitude	W100°24'31.48279"	Longitude	W100°24'31.48279"
Elevation	834.949 m	Height	809.340 m	Height	809.340 m

Vector					
9Ughb[	41549.783 m	NS Fwd Azimuth	73°45'54"	L	42006.553 m
BcfA\jb[	11193.185 m	Ellipsoid Dist.	43037.152 m	M	-394.151 m
9Yj Uhcb	-30.883 m	<Y][\h	-30.998 m	N	9378.872 m

Standard Errors

Vector errors:					
Point ID	0.007 m	Point Description	0°00'00"	Point Type	0.016 m
Point ID	0.006 m	Point Description	0.008 m	Point Type	0.049 m
Point ID	0.062 m	Point Description	0.062 m	Point Type	0.036 m

Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0002433465		
Y	0.0007239945	0.0023698357	
Z	-0.0005111785	-0.0017009610	0.0012608132

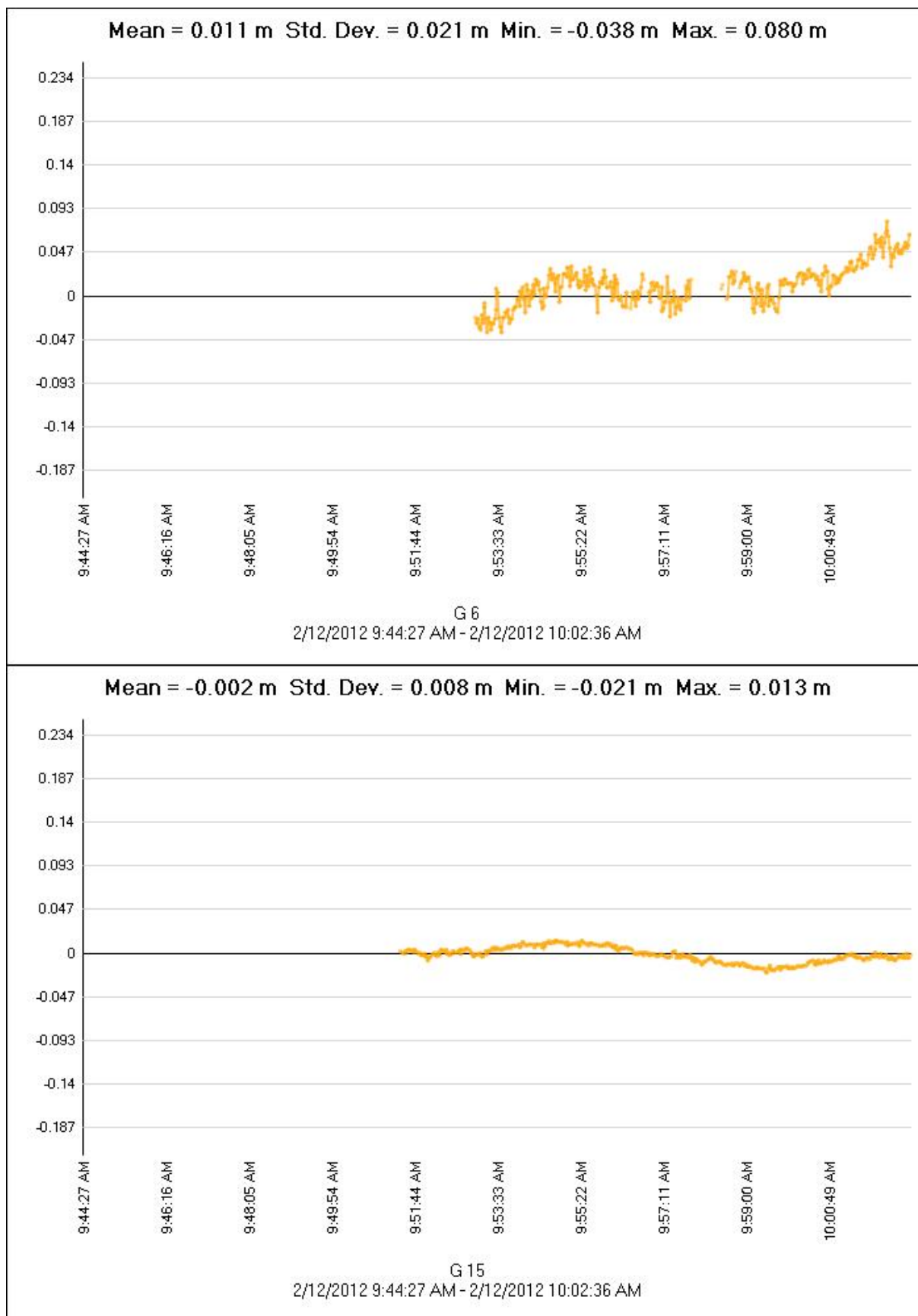
Occupations

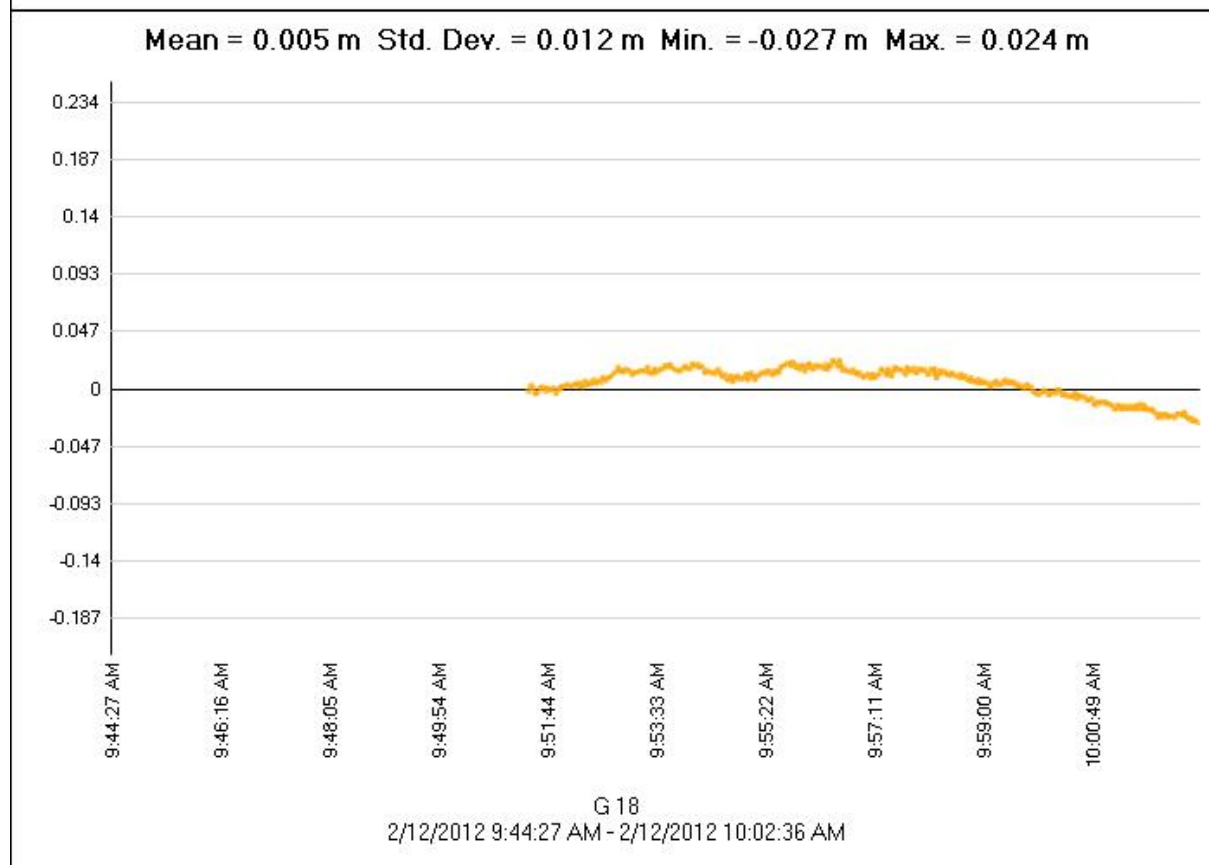
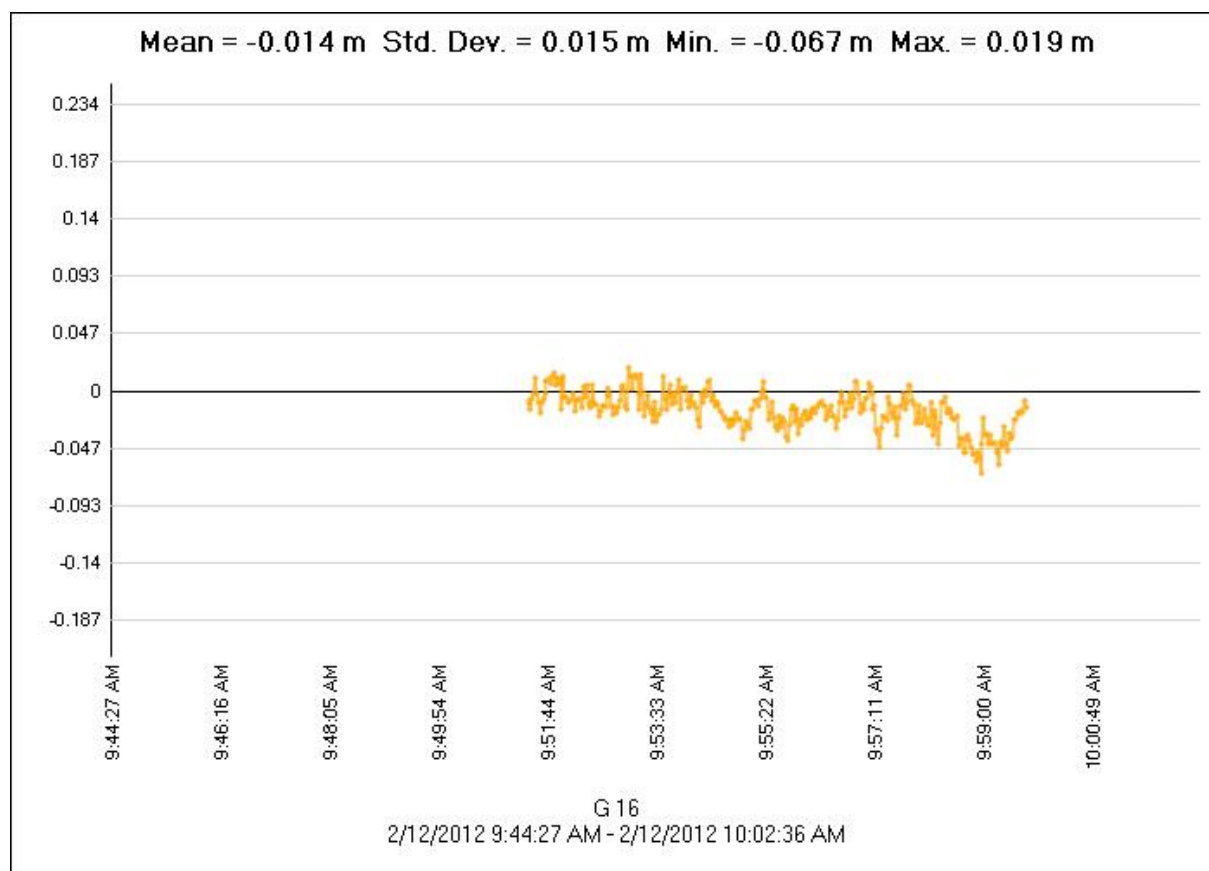
	From	To
Point ID:	HH0162	FVA45-B2
Data file:	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00040430.12o	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00080431.12o
Receiver type:	Unknown	Unknown
Receiver serial number:		
Antenna type:	Unknown External	Unknown External
Antenna serial number:	-----	-----
Antenna height (measured):	1.565 m	2.065 m
Antenna method:	Antenna Phase Center	Antenna Phase Center

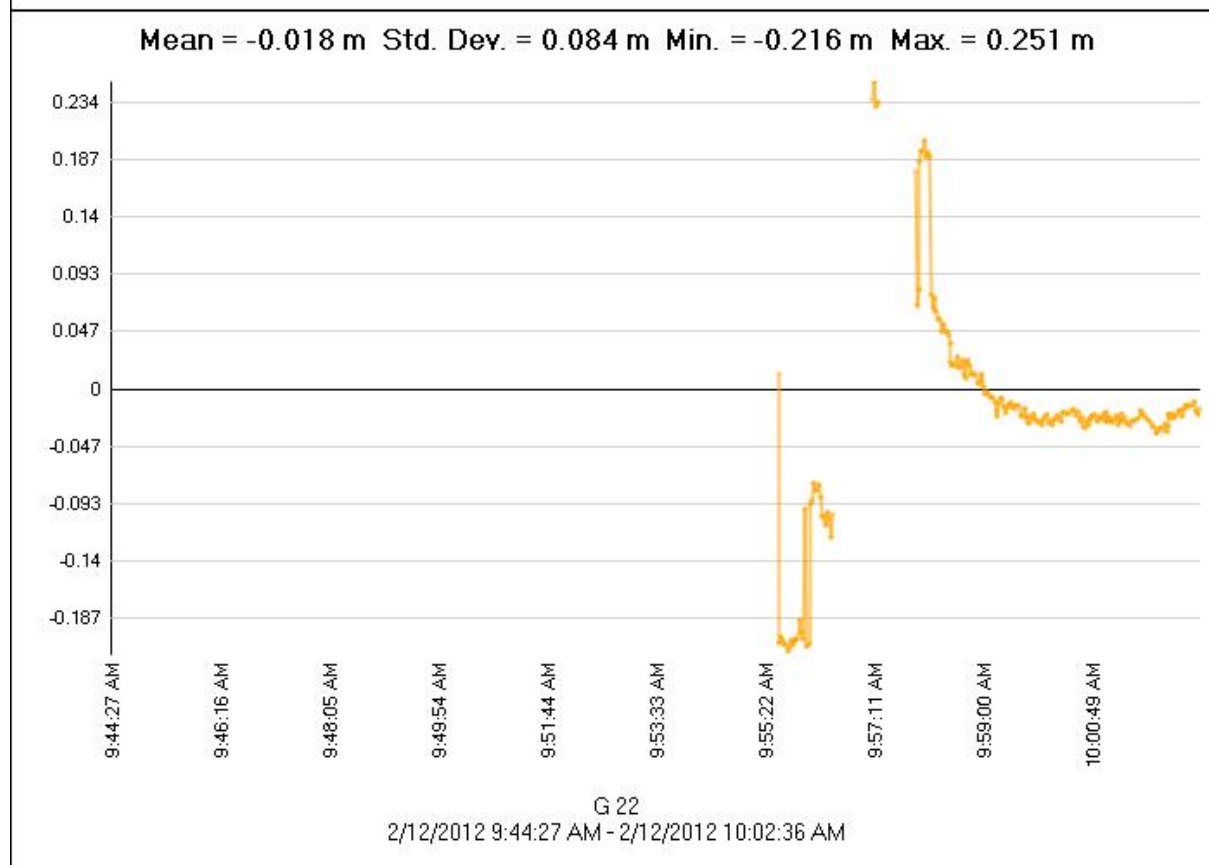
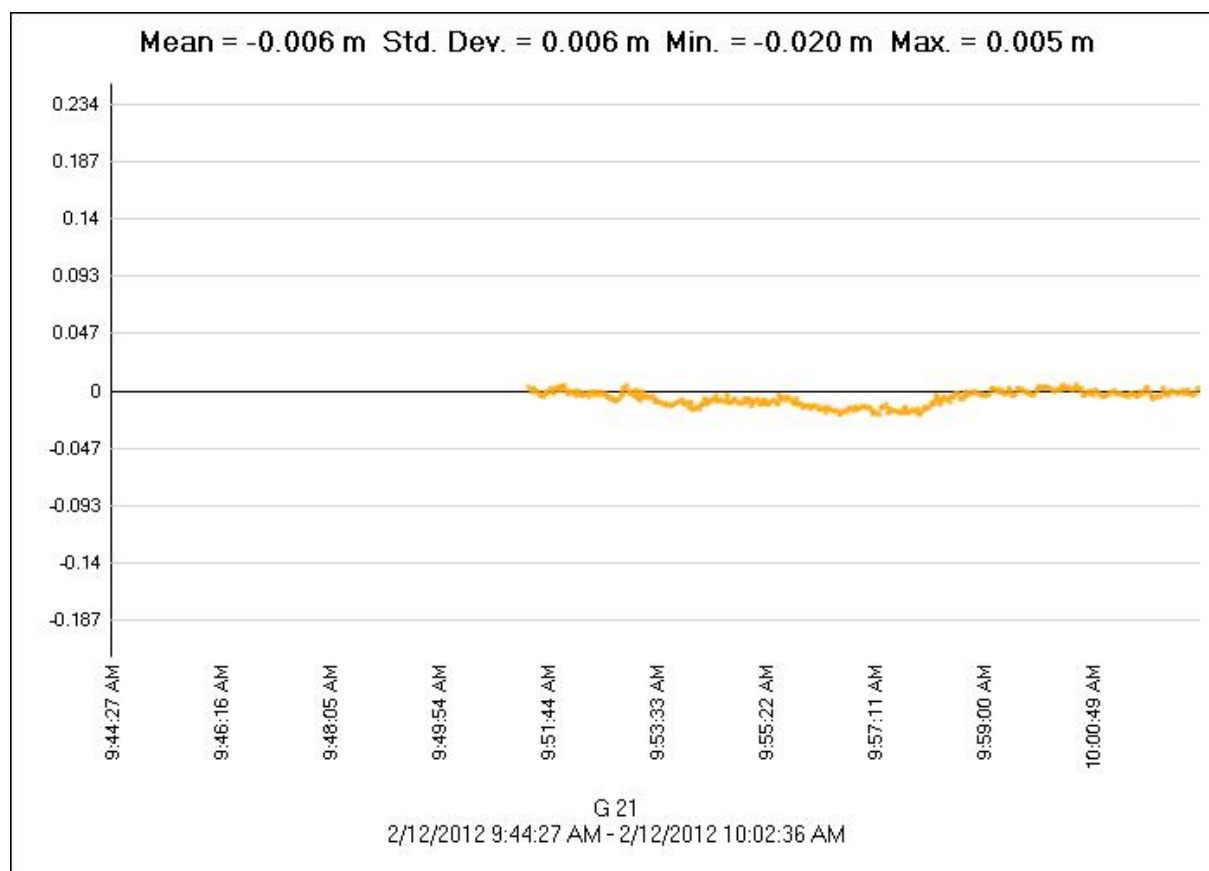
Tracking Summary

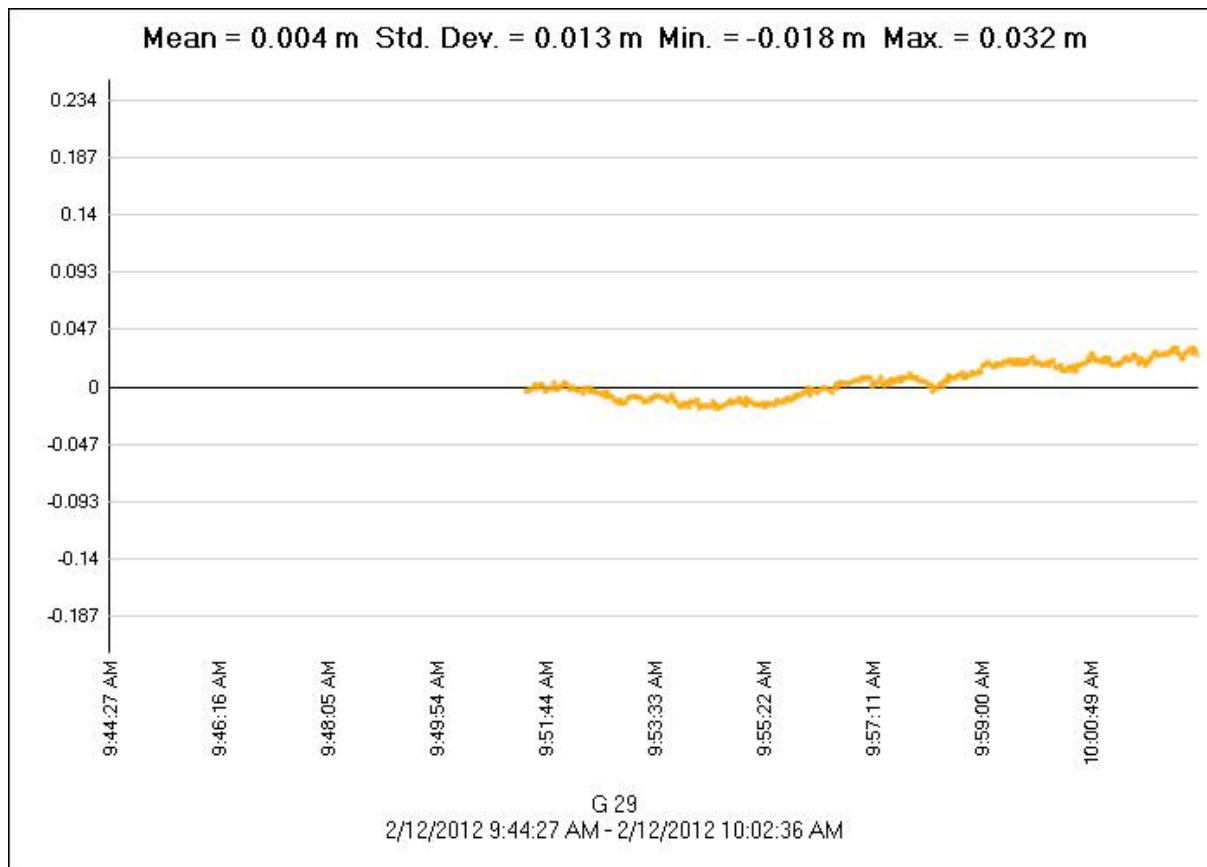
SV	2/12/2012 9:44:26 AM	Duration: 00:18:10	Major interval: 00:01:00	2/12/2012 10:02:36 AM
G 3	L1 L2			
G 5	L1 L2			
G 6	L1 L2			
G 9	L1 L2			
G 15	L1 L2			
G 16	L1 L2			
G 18	L1 L2			
G 21	L1 L2			
G 22	L1 L2			
G 27	L1 L2			
G 29	L1 L2			
G 30	L1 L2			

Residuals









Processing style

Elevation mask:	10.0 deg
Auto start processing:	Yes
Start automatic ID numbering:	AUTO0001
Continuous vectors:	No
Generate residuals:	Yes
Antenna model:	Automatic
Ephemeris type:	Automatic
Frequency:	Dual Frequency (L1, L2)
Processing Interval:	Use all data
Force float:	No

Acceptance Criteria

Vector Component	Flag 	Fail 
Horizontal Precision >	0.050 m + 1.000 ppm	0.100 m + 1.000 ppm
Vertical Precision >	0.100 m + 1.000 ppm	0.200 m + 1.000 ppm

HH0162 - FVA37-B2 (10:35:46 AM-10:57:43 AM) (S115)

Baseline observation: HH0162 --- FVA37-B2 (B115)

Processed: 3/21/2012 1:40:06 PM

Solution type: Fixed

Frequency used: Dual Frequency (L1, L2)

Horizontal precision: 0.011 m

Vertical precision: 0.012 m

RMS: 0.003 m

Maximum PDOP: 1.956

Ephemeris used: Broadcast

Antenna model: US National Geodetic Survey Calibration

Processing start time: 2/12/2012 10:35:46 AM (Local: UTC-7hr)

Processing stop time: 2/12/2012 10:57:43 AM (Local: UTC-7hr)

Processing duration: 00:21:57

Processing interval: .5 second

Vector Components (Mark to Mark)

From:	HH0162				
Grid		Local		Global	
Easting	334882.633 m	Latitude	N37°57'51.89798"	Latitude	N37°57'51.89797"
Northing	4203533.433 m	Longitude	W100°52'46.82753"	Longitude	W100°52'46.82753"
Elevation	873.613 m	Height	848.119 m	Height	848.119 m

To:	FVA37-B2				
Grid		Local		Global	
Easting	363293.541 m	Latitude	N37°54'01.09442"	Latitude	N37°54'01.09442"
Northing	4195893.302 m	Longitude	W100°33'17.70668"	Longitude	W100°33'17.70668"
Elevation	870.113 m	Height	844.430 m	Height	844.429 m

Vector					
9Ughb[	28410.908 m	NS Fwd Azimuth	103°53'45"	L	27242.883 m
Bcfh\jb[	-7640.131 m	Ellipsoid Dist.	29423.745 m	M	-9605.895 m
9`Yj Uhcb	-3.500 m	<Y][\h	-3.690 m	N	-5615.774 m

Standard Errors

Vector errors:					
Point ID	0.003 m	Point ID	0°00'00"	Point ID	0.003 m
Point ID	0.004 m	Point ID	0.003 m	Point ID	0.006 m
Point ID	0.006 m	Point ID	0.006 m	Point ID	0.004 m

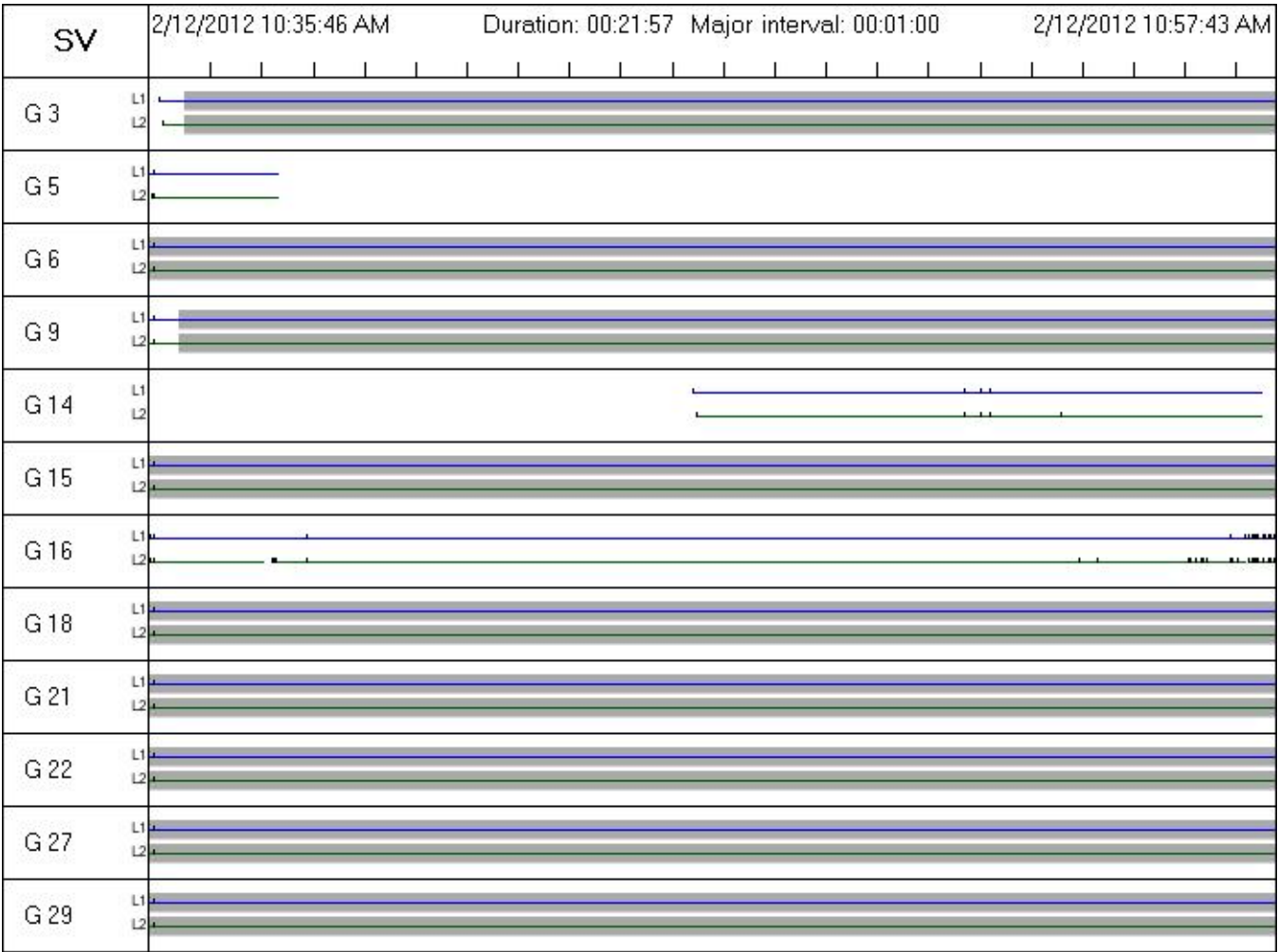
Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0000110398		
Y	0.0000107966	0.0000406437	
Z	-0.0000007468	-0.0000071002	0.0000155286

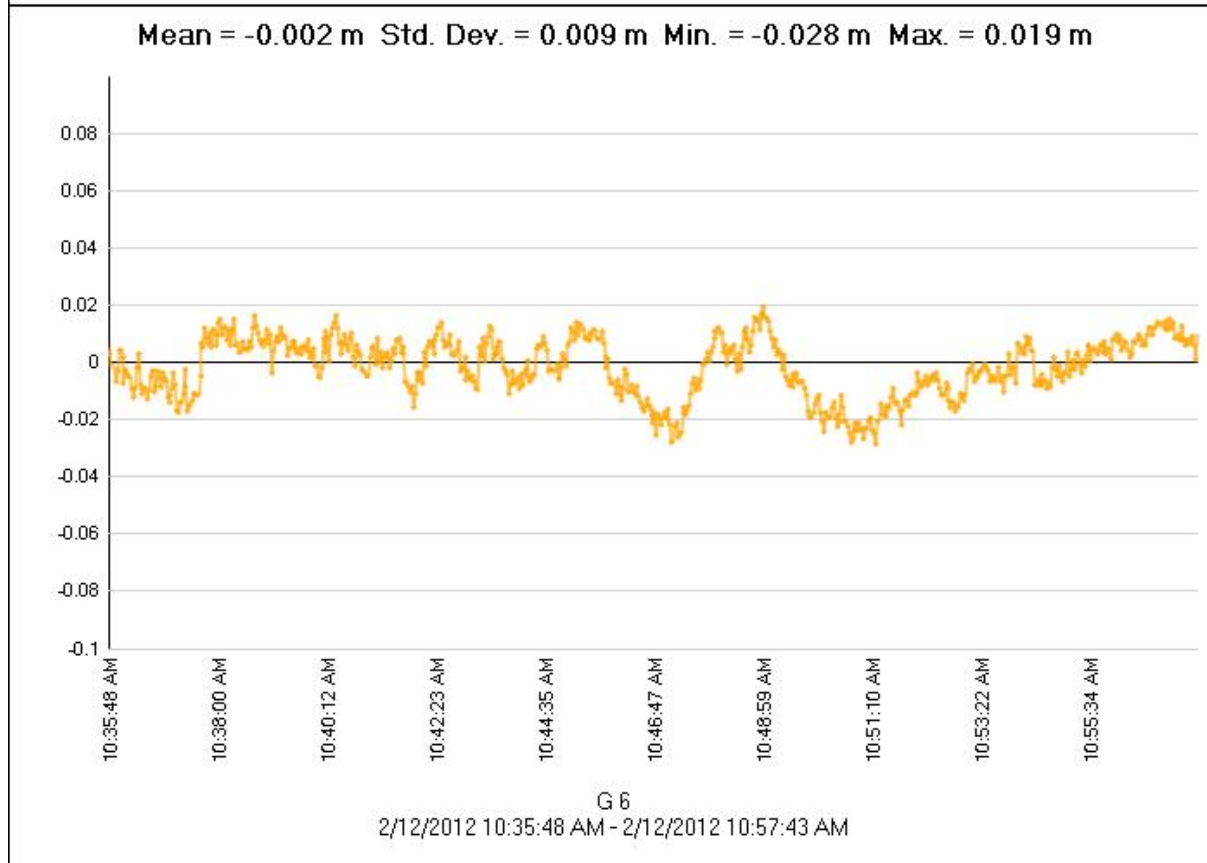
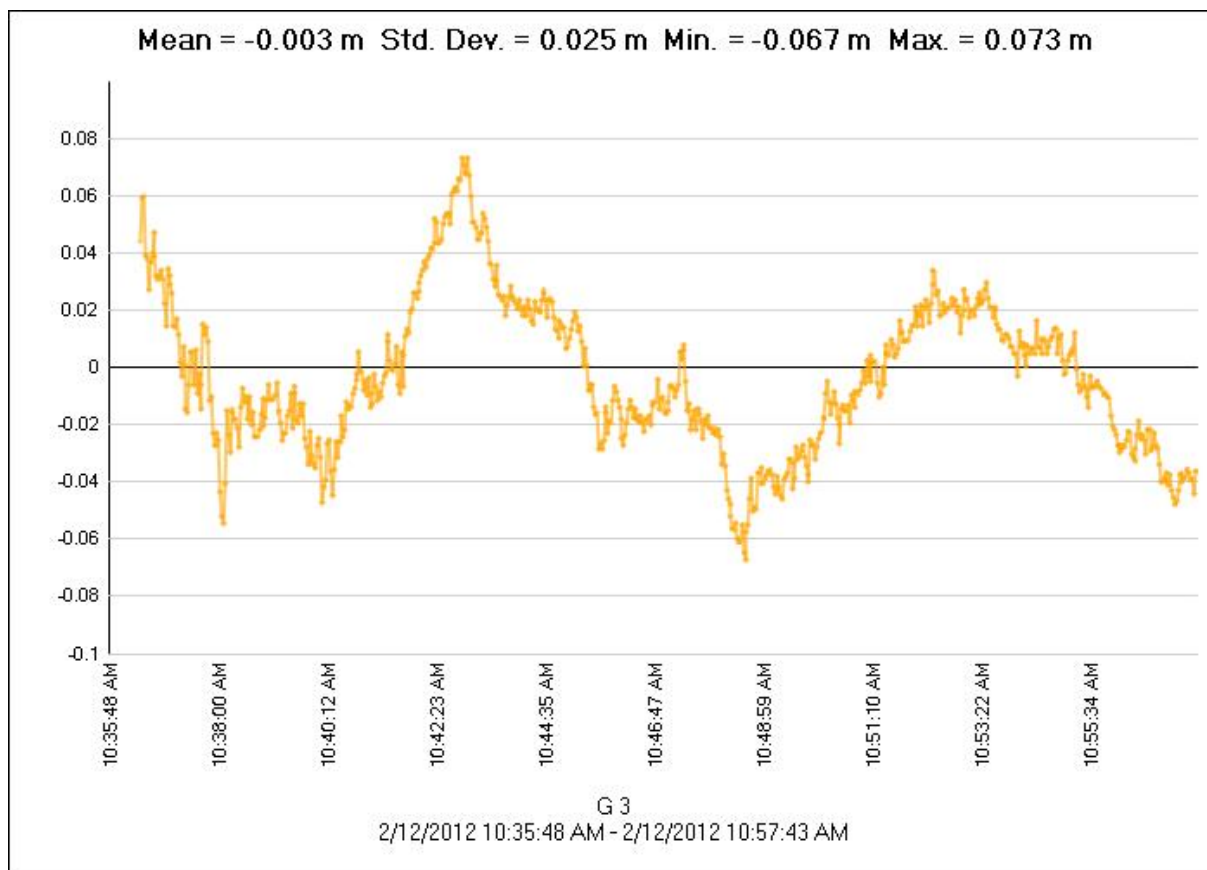
Occupations

	From	To
Point ID:	HH0162	FVA37-B2
Data file:	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00040430.12o	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00080432.12o
Receiver type:	Unknown	Unknown
Receiver serial number:		
Antenna type:	Unknown External	Unknown External
Antenna serial number:	-----	-----
Antenna height (measured):	1.565 m	2.065 m
Antenna method:	Antenna Phase Center	Antenna Phase Center

Tracking Summary



Residuals



Mean = 0.000 m Std. Dev. = 0.036 m Min. = -0.094 m Max. = 0.079 m



G 9

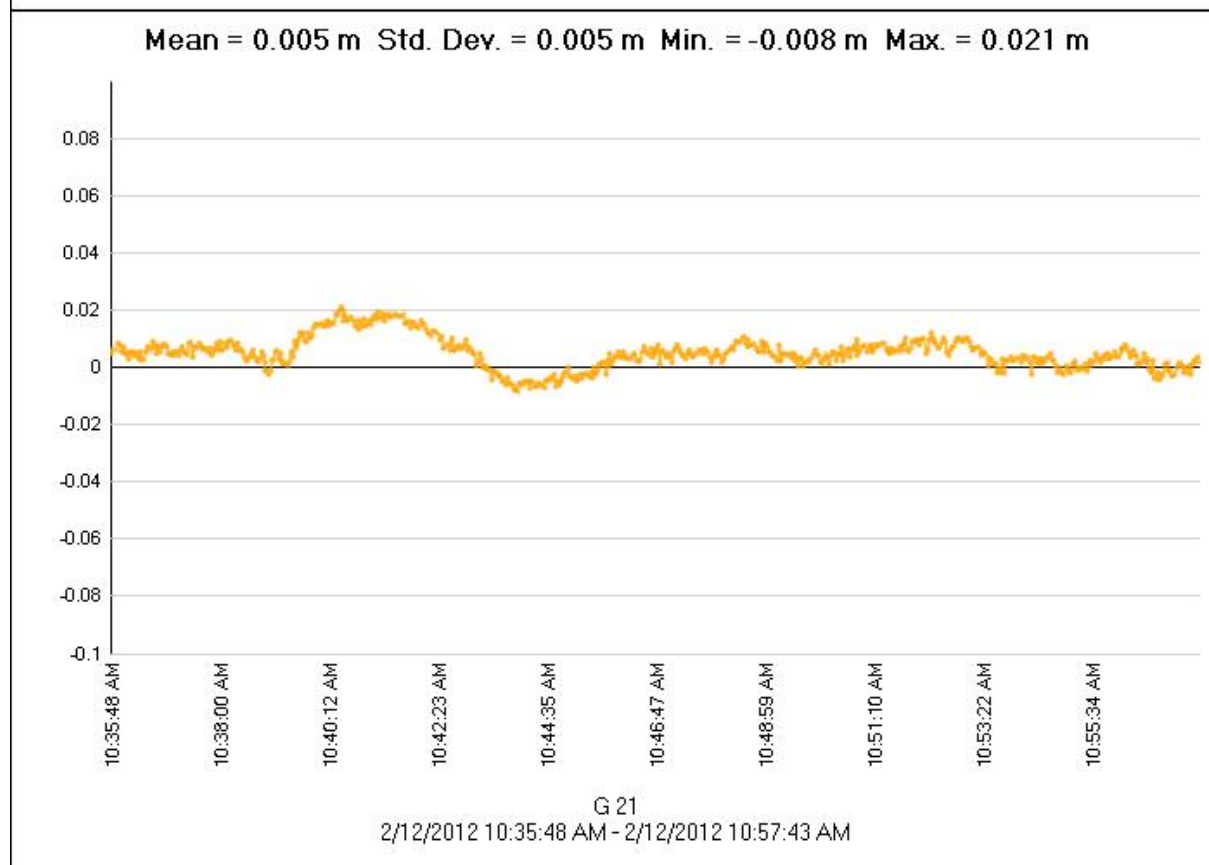
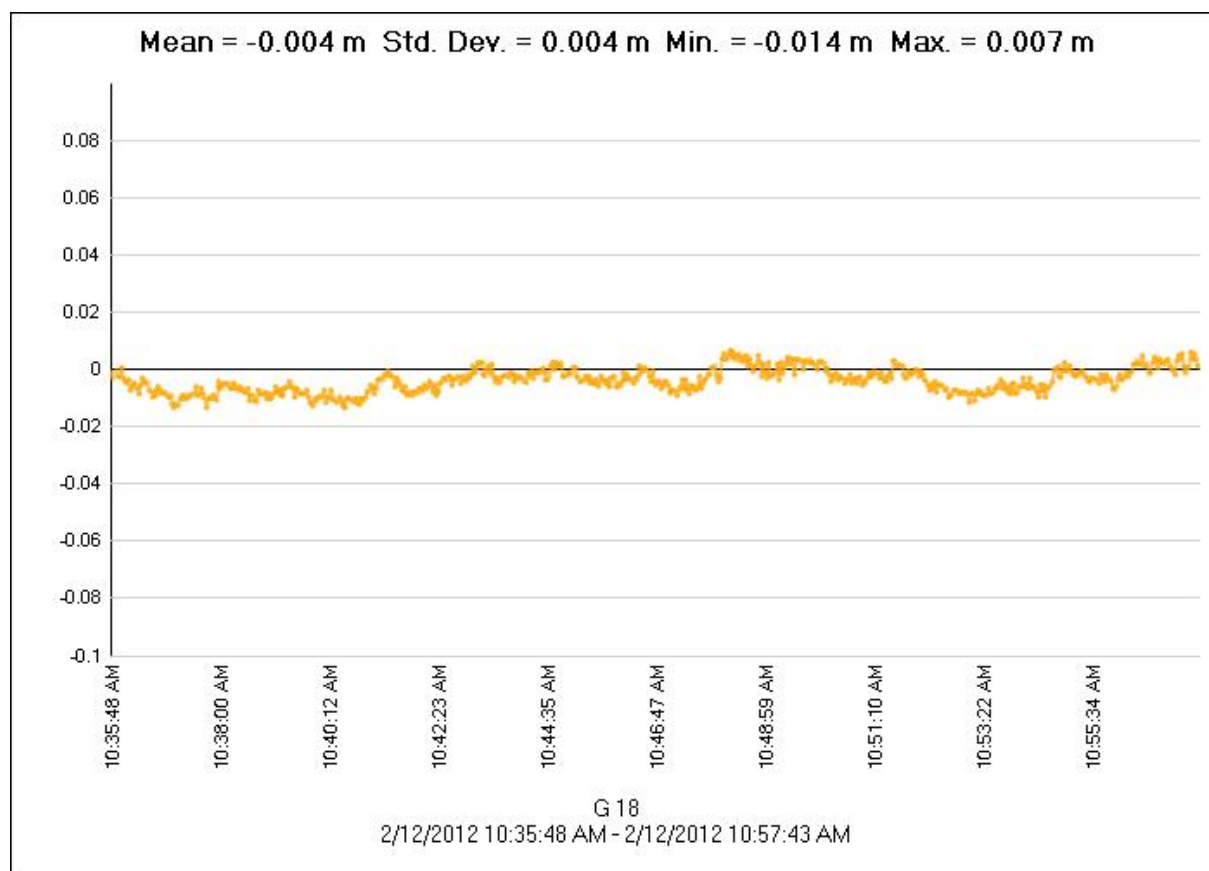
2/12/2012 10:35:48 AM - 2/12/2012 10:57:43 AM

Mean = -0.005 m Std. Dev. = 0.007 m Min. = -0.024 m Max. = 0.011 m



G 15

2/12/2012 10:35:48 AM - 2/12/2012 10:57:43 AM



Mean = 0.006 m Std. Dev. = 0.016 m Min. = -0.035 m Max. = 0.047 m



G 22

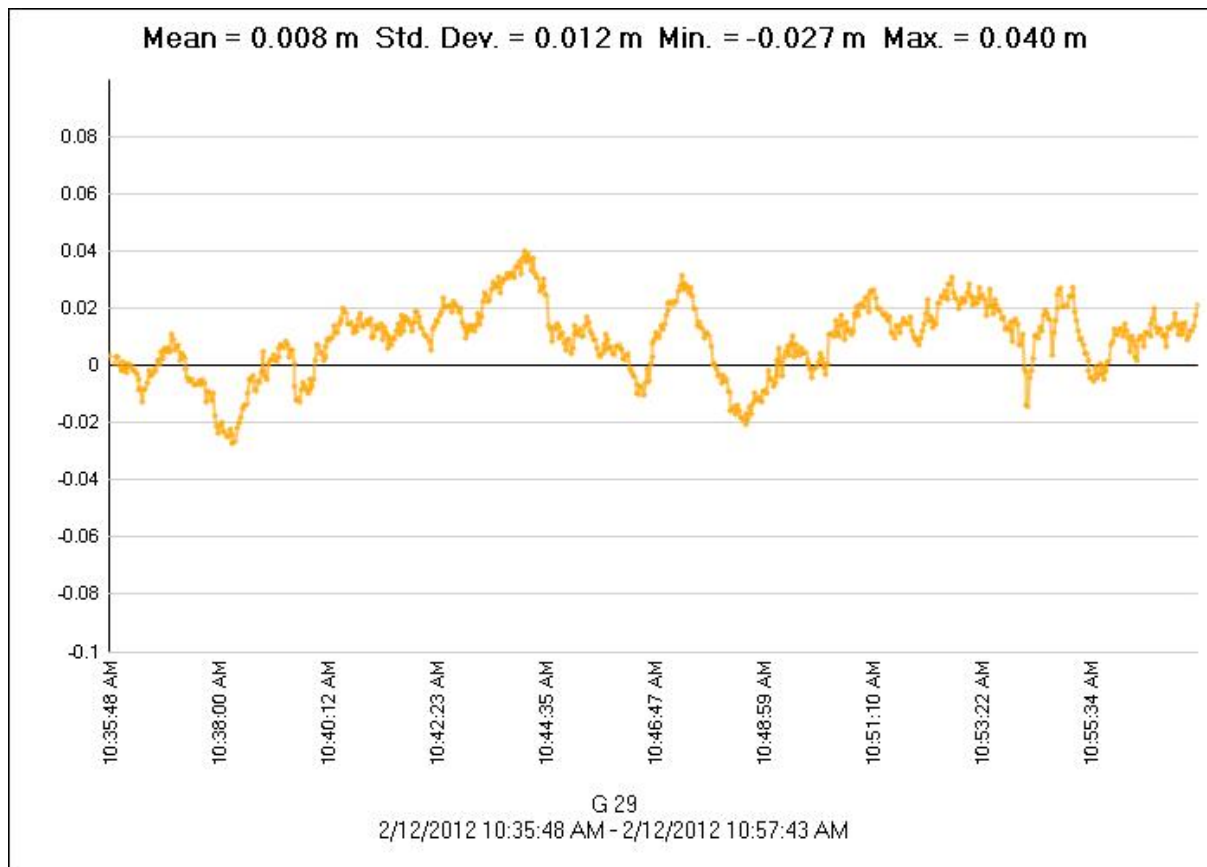
2/12/2012 10:35:48 AM - 2/12/2012 10:57:43 AM

Mean = -0.002 m Std. Dev. = 0.020 m Min. = -0.061 m Max. = 0.042 m



G 27



2/12/2012 10:35:48 AM - 2/12/2012 10:57:43 AM



Processing style

Elevation mask: 10.0 deg
 Auto start processing: Yes
 Start automatic ID numbering: AUTO0001
 Continuous vectors: No
 Generate residuals: Yes
 Antenna model: Automatic
 Ephemeris type: Automatic
 Frequency: Dual Frequency (L1, L2)
 Processing Interval: Use all data
 Force float: No

Acceptance Criteria

Vector Component	Flag 	Fail 
Horizontal Precision >	0.050 m + 1.000 ppm	0.100 m + 1.000 ppm
Vertical Precision >	0.100 m + 1.000 ppm	0.200 m + 1.000 ppm

4/26/2012 4:46:11 AM	F:\Projects\Kansas\Adjustments\TGO\2331 Kansas CheckPointsAdj.vce	Trimble Business Center
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