

Project information		Coordinate System	
Name:		Name:	UTM
Size:		Datum:	WGS 1984
Modified:		Zone:	33 X (15E)
Time zone:		Geoid:	
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 YHfL
LYRS --- T8 (B4)	LYRS	T8	Fixed	0,009	0,025	81°38'45"	16675,991	154,718
LYRS --- T6 (B2)	LYRS	T6	Fixed	0,010	0,028	81°20'50"	17425,369	67,529
LYRS --- T2 (B7)	LYRS	T2	Fixed	0,008	0,018	80°14'23"	19211,100	-99,507
LYRS --- T5 (B1)	LYRS	T5	Fixed	0,012	0,029	80°44'07"	17904,659	40,104
LYRS --- T4 (B3)	LYRS	T4	Fixed	0,009	0,026	80°20'44"	18364,400	-7,698
LYRS --- T3 (B9)	LYRS	T3	Fixed	0,010	0,029	80°11'43"	18855,137	-72,062
LYRS --- T3 (B8)	LYRS	T3	Fixed	0,010	0,022	80°11'43"	18855,138	-72,059
LYRS --- T1 (B5)	LYRS	T1	Fixed	0,010	0,030	81°05'14"	19606,010	-153,668
LYRS --- T1 (B6)	LYRS	T1	Fixed	0,009	0,020	81°05'14"	19606,028	-153,630

### Acceptance Summary

Processed	Passed	Flag 	Fail 
9	9	0	0

LYRS - T8 (15:21:57-15:37:33) (S4)

Baseline observation:	LYRS --- T8 (B4)
Processed:	23.03.2018 14:28:13
Solution type:	Fixed
Frequency used:	Dual Frequency (L1, L2)
Horizontal precision:	0,009 m
Vertical precision:	0,025 m
RMS:	0,004 m
Maximum PDOP:	1,687
Ephemeris used:	Broadcast
Antenna model:	Trimble Calibration
Processing start time:	11.03.2018 15:21:57 (Local: UTC+1hr)
Processing stop time:	11.03.2018 15:37:33 (Local: UTC+1hr)
Processing duration:	12:15:36 AM
Processing interval:	1 second

Vector Components (Mark to Mark)

From:	LYRS				
	Grid	Local		Global	
Easting	509048,138 m	Latitude	N78°13'43,77230"	Latitude	N78°13'43,77230"
Northing	8683937,568 m	Longitude	E15°23'50,31623"	Longitude	E15°23'50,31623"
Elevation	495,682 m	Height	495,682 m	Height	495,682 m

To:	T8				
	Grid	Local		Global	
Easting	525523,827 m	Latitude	N78°14'58,59816"	Latitude	N78°14'58,59816"
Northing	8686471,362 m	Longitude	E16°07'22,01060"	Longitude	E16°07'22,01060"
Elevation	650,400 m	Height	650,400 m	Height	650,400 m

Vector					
9Ughjb[	16475,689 m	NS Fwd Azimuth	81°38'45"	L	-6641,948 m
Bcfh]b[	2533,793 m	Ellipsoid Dist.	16675,991 m	M	15285,836 m
9`Yj Uhcb	154,718 m	<Y]\`h	154,718 m	N	624,507 m

## Standard Errors

Vector errors:

9Ughb[	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	0,003 m	M	0,003 m
9`Yj Uhcb	0,013 m	<Y][\h	0,013 m	N	0,013 m

## Aposteriori Covariance Matrix (Meter<sup>2</sup>)

	X	Y	Z
X	0,0000109864		
Y	-0,0000001659	0,0000076338	
Z	0,0000113447	0,0000032349	0,0001678354

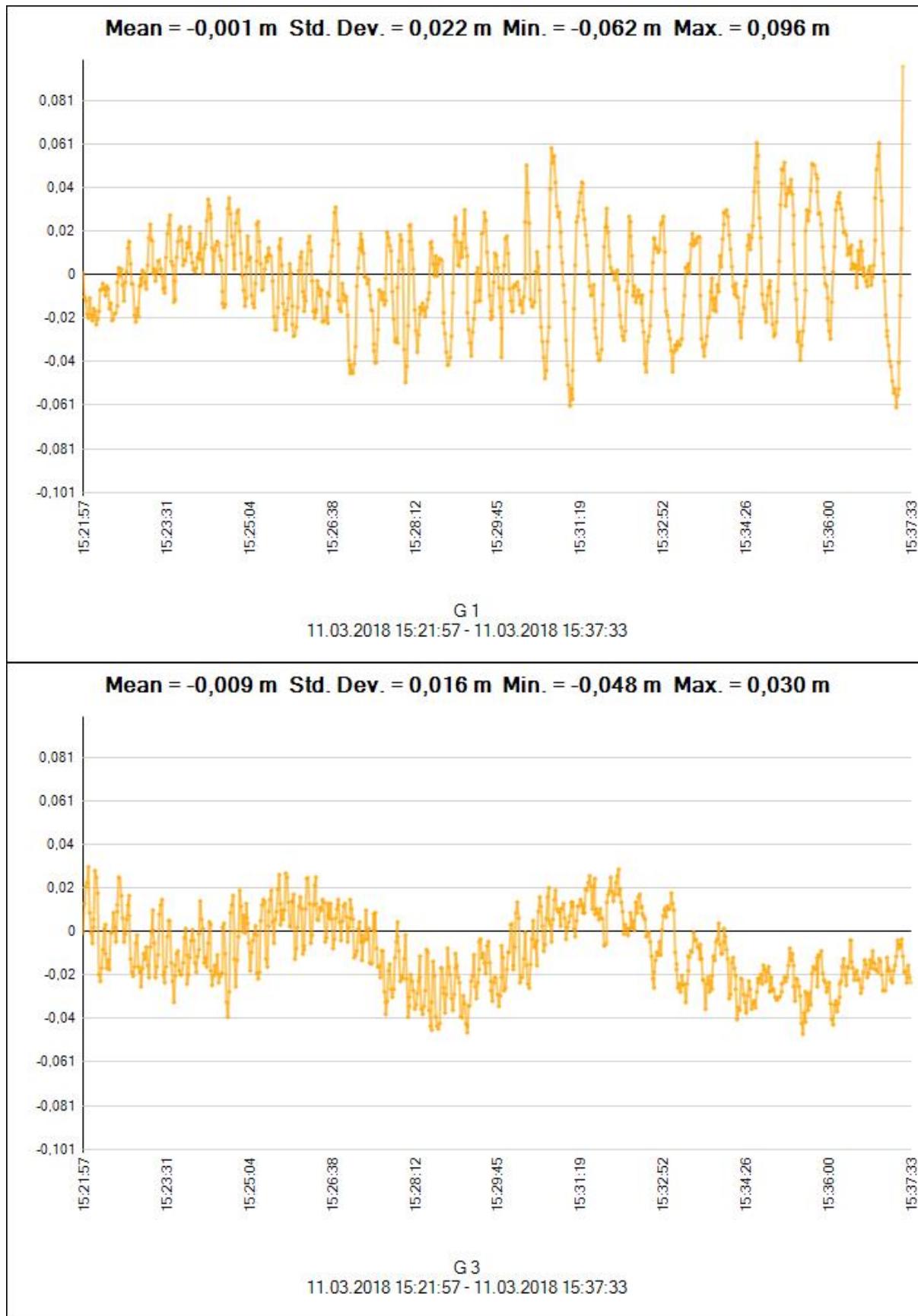
## Occupations

	From	To
Point ID:	LYRS	T8
Data file:	C:\Users\lth842\Documents\Trimble Business Center\Unnamed(1)\lyrs0700.18o	C:\Users\lth842\Documents\Trimble Business Center\Unnamed(1)\4625070A.t02
Receiver type:	NetR9	R4
Receiver serial number:	5504R50012	5127468778
Antenna type:	Zephyr Geodetic	R4 Internal
Antenna serial number:	60111442	47477114
Antenna height (measured):	0,000 m	2,090 m
Antenna method:	Bottom of antenna mount	Bottom of antenna mount

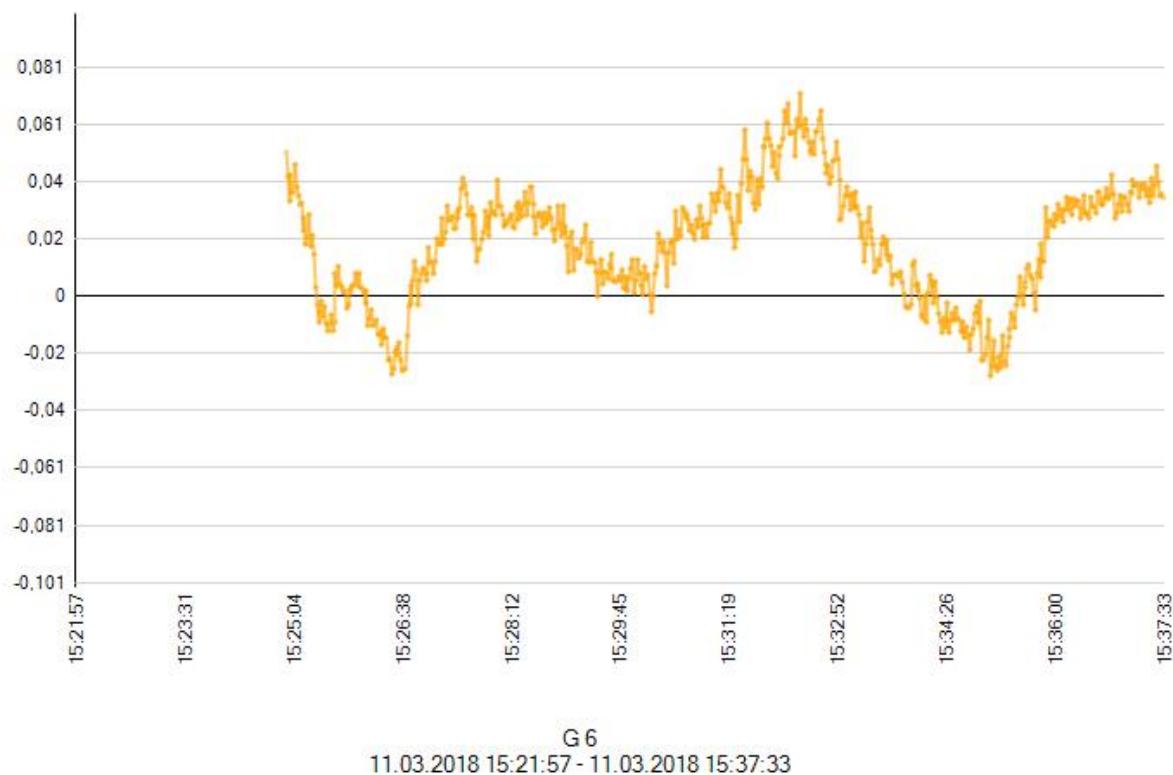
## Tracking Summary

SV	11.03.2018 15:21:57	Duration: 00:15:36 Major interval: 00:01:00	11.03.2018 15:37:33
G 1	L1 L2		
G 3	L1 L2		
G 6	L1 L2		
G 12	L1 L2		
G 14	L1 L2		
G 17	L1 L2		
G 19	L1 L2		
G 22	L1 L2		
G 24	L1 L2		
G 25	L1 L2		
G 32	L1 L2		
R 5	L1 L2		
R 6	L1 L2		
R 7	L1 L2		
R 14	L1 L2		
R 15	L1 L2		
R 16	L1 L2		
R 22	L1 L2		
R 23	L1 L2		
R 24	L1 L2		

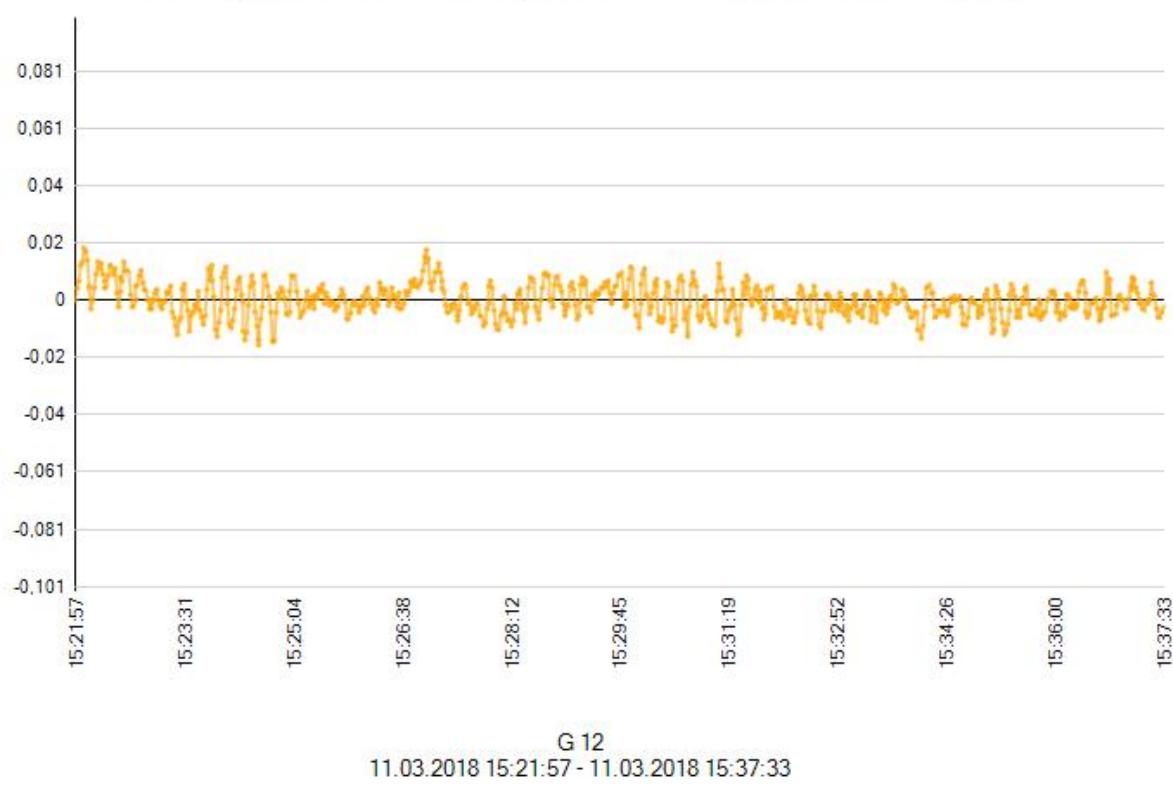
## Residuals



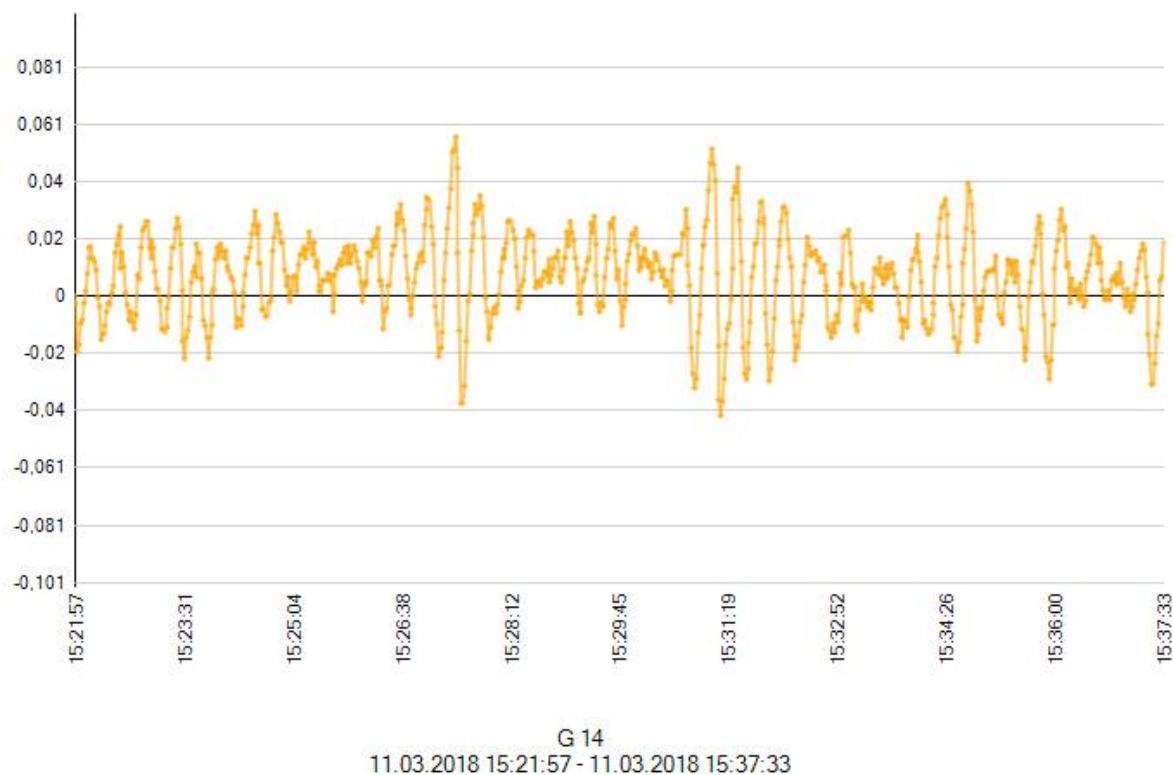
**Mean = 0,018 m Std. Dev. = 0,020 m Min. = -0,028 m Max. = 0,072 m**



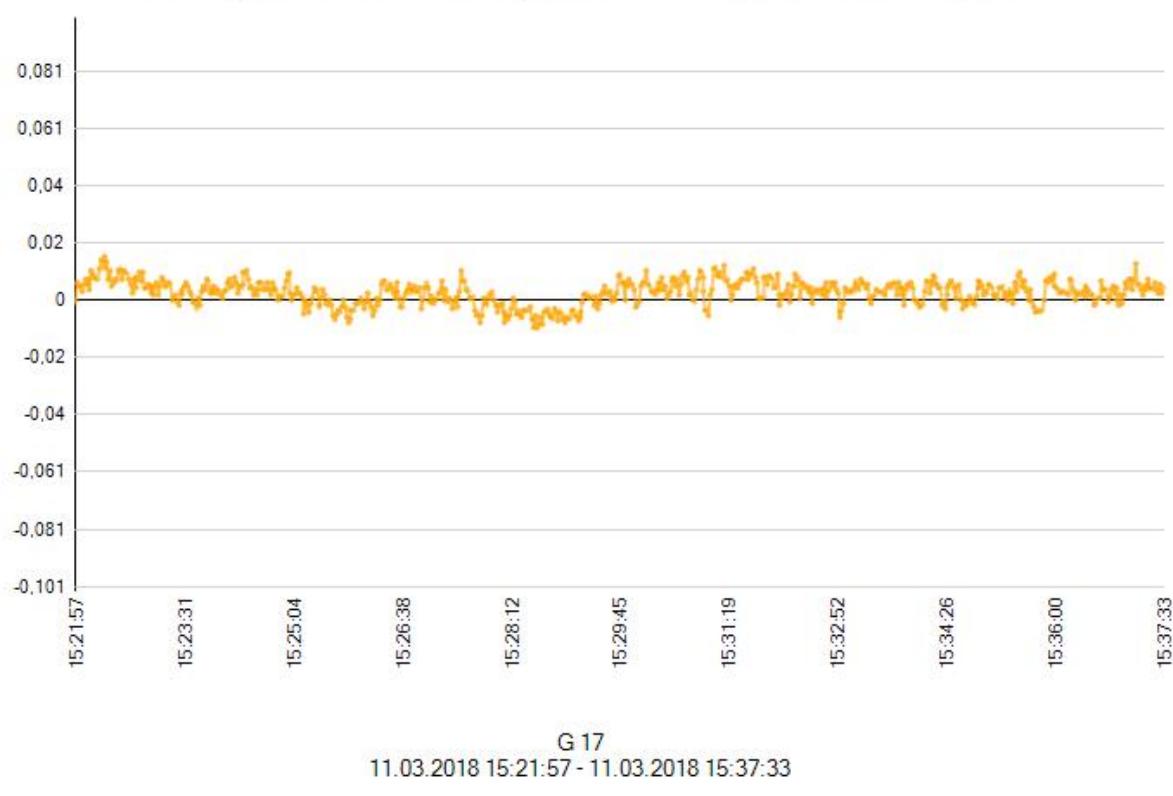
**Mean = 0,000 m Std. Dev. = 0,005 m Min. = -0,016 m Max. = 0,019 m**



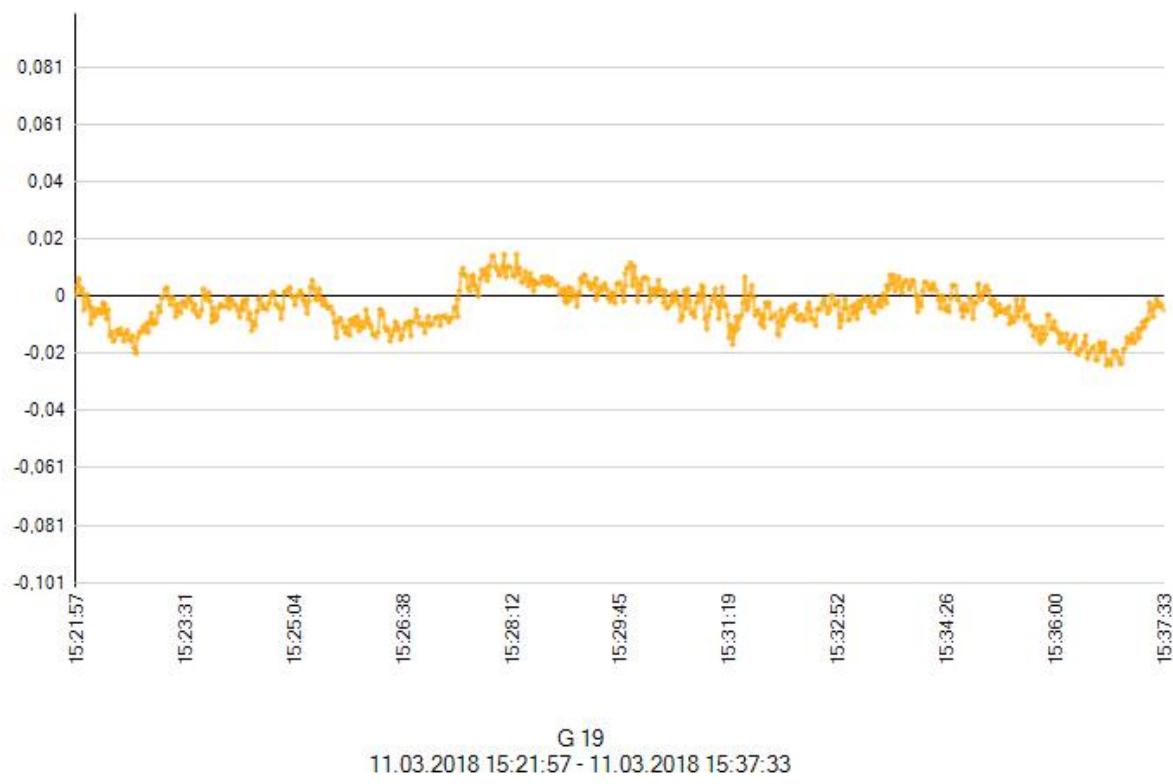
**Mean = 0,007 m Std. Dev. = 0,015 m Min. = -0,042 m Max. = 0,056 m**



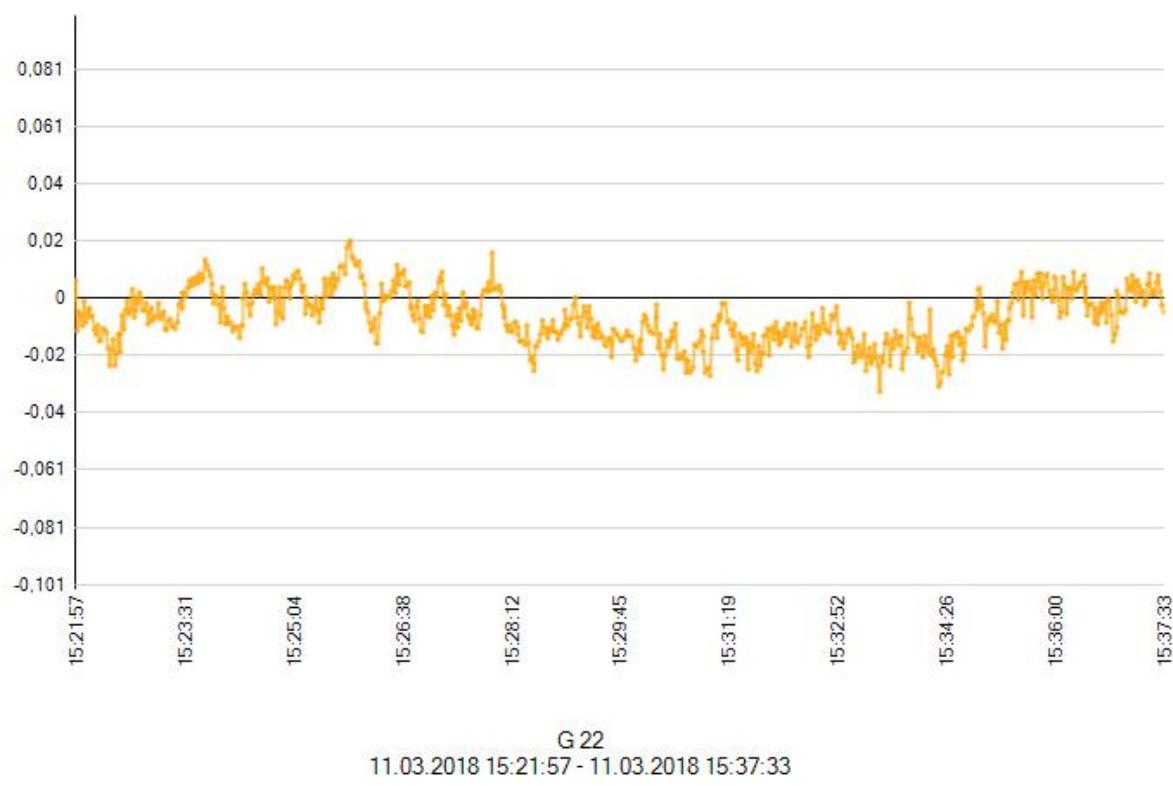
**Mean = 0,003 m Std. Dev. = 0,004 m Min. = -0,010 m Max. = 0,015 m**



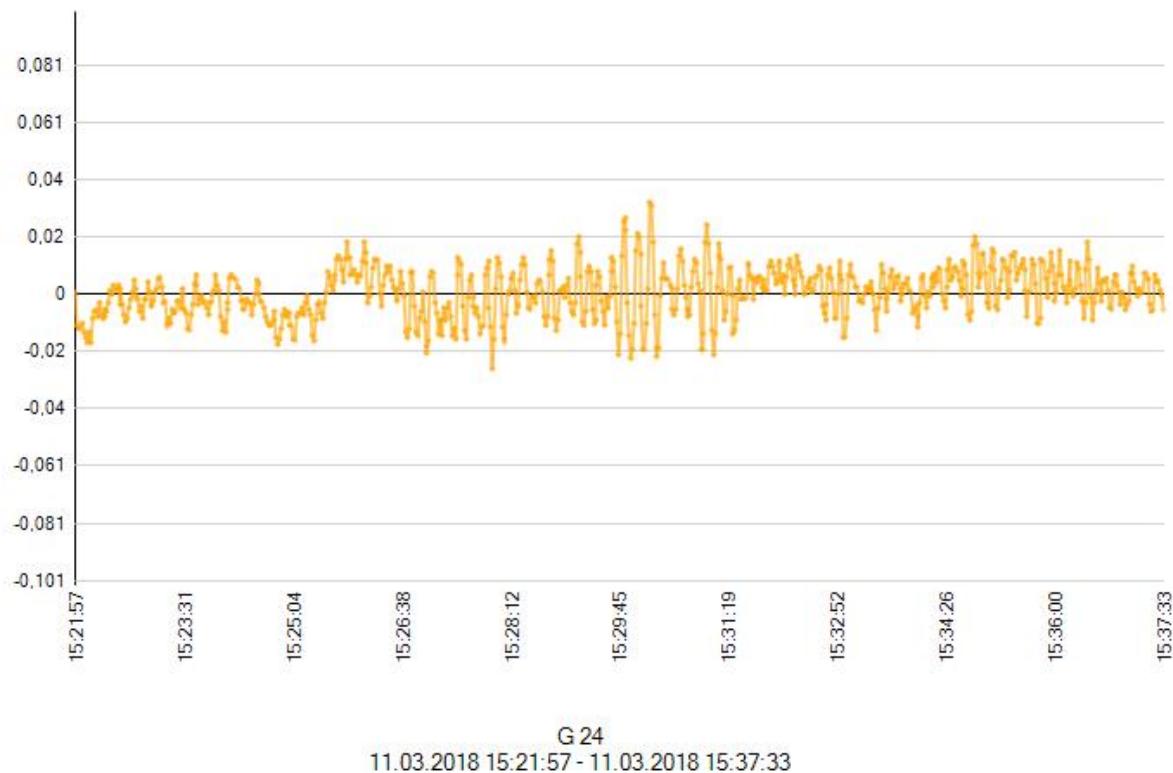
**Mean = -0,004 m Std. Dev. = 0,007 m Min. = -0,024 m Max. = 0,015 m**



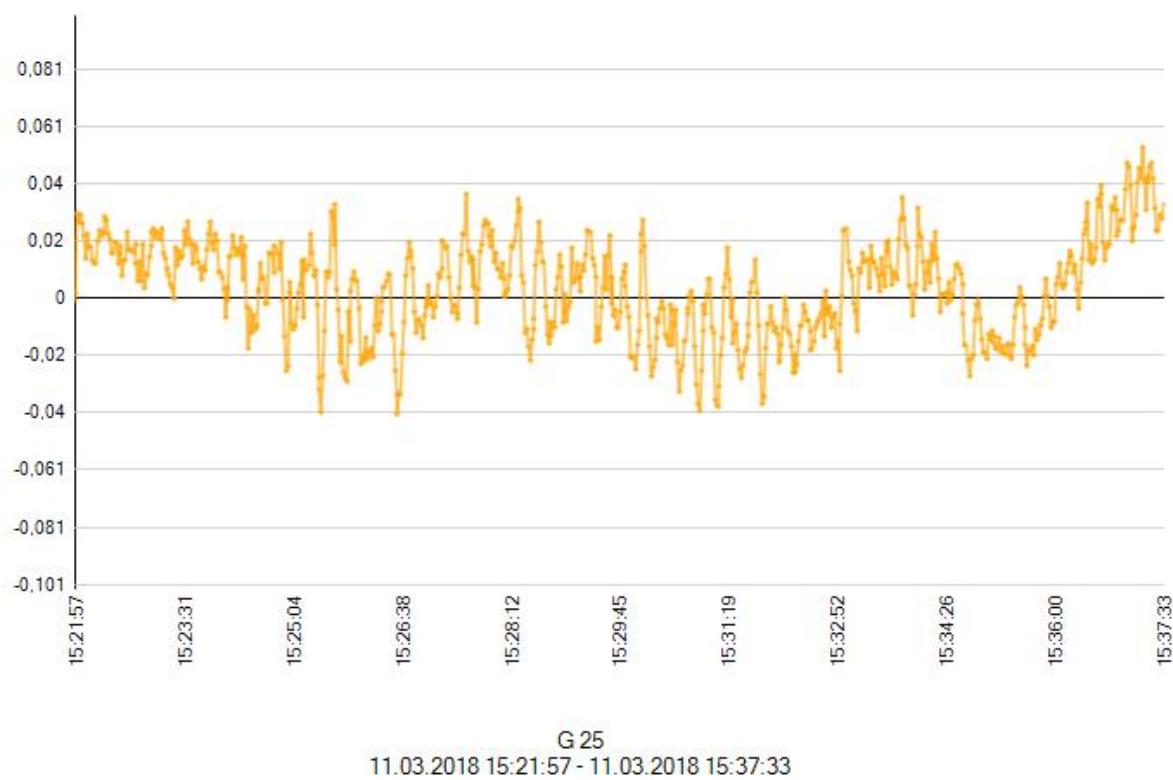
**Mean = -0,007 m Std. Dev. = 0,009 m Min. = -0,033 m Max. = 0,020 m**



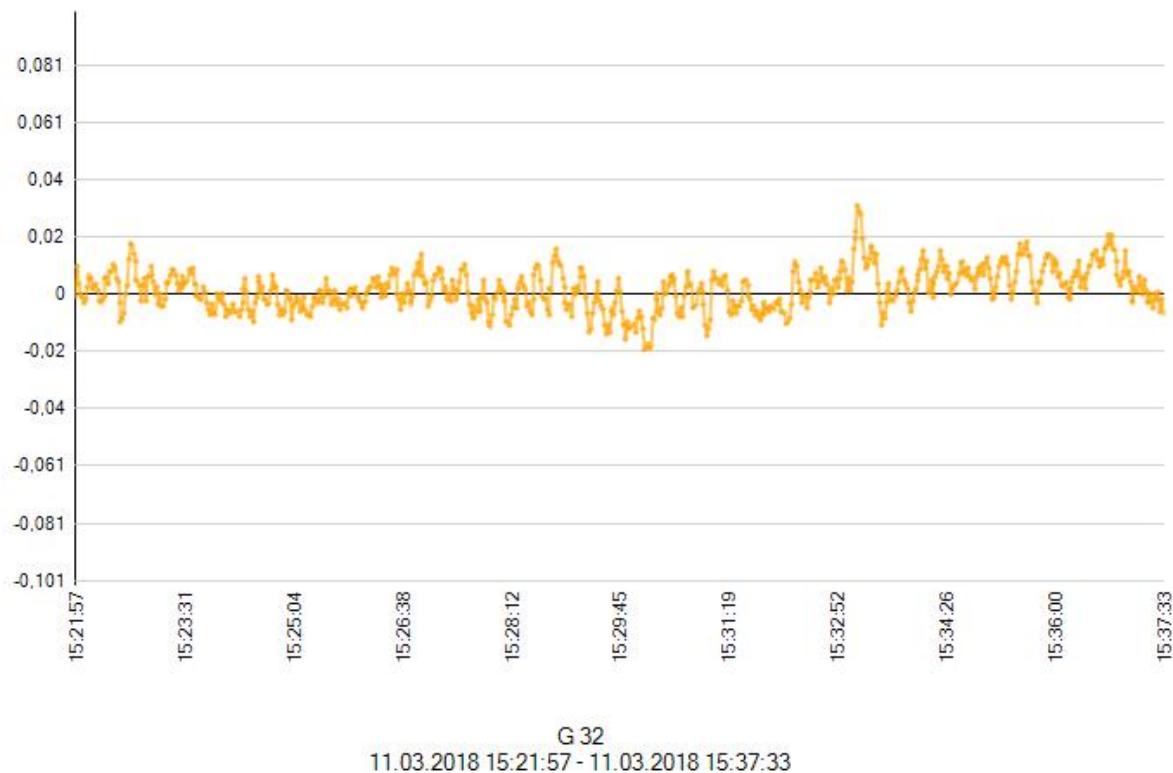
**Mean = 0,000 m Std. Dev. = 0,008 m Min. = -0,026 m Max. = 0,033 m**



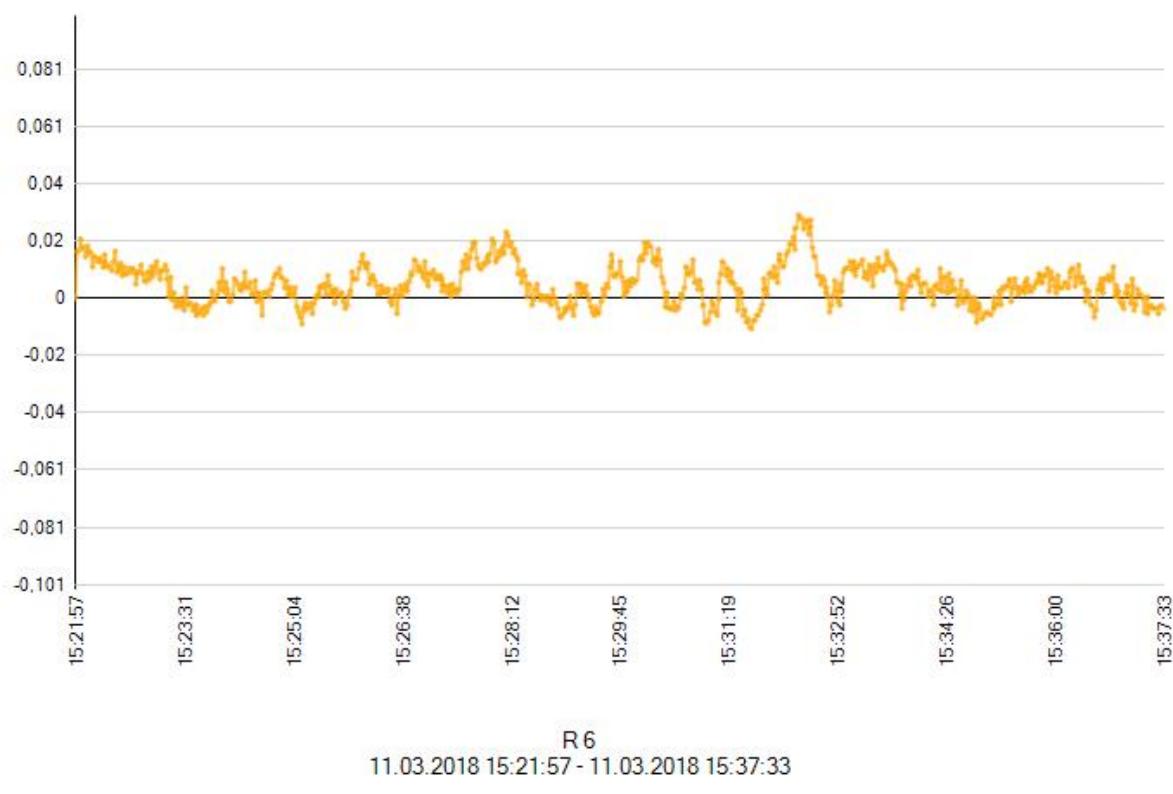
**Mean = 0,003 m Std. Dev. = 0,016 m Min. = -0,041 m Max. = 0,054 m**



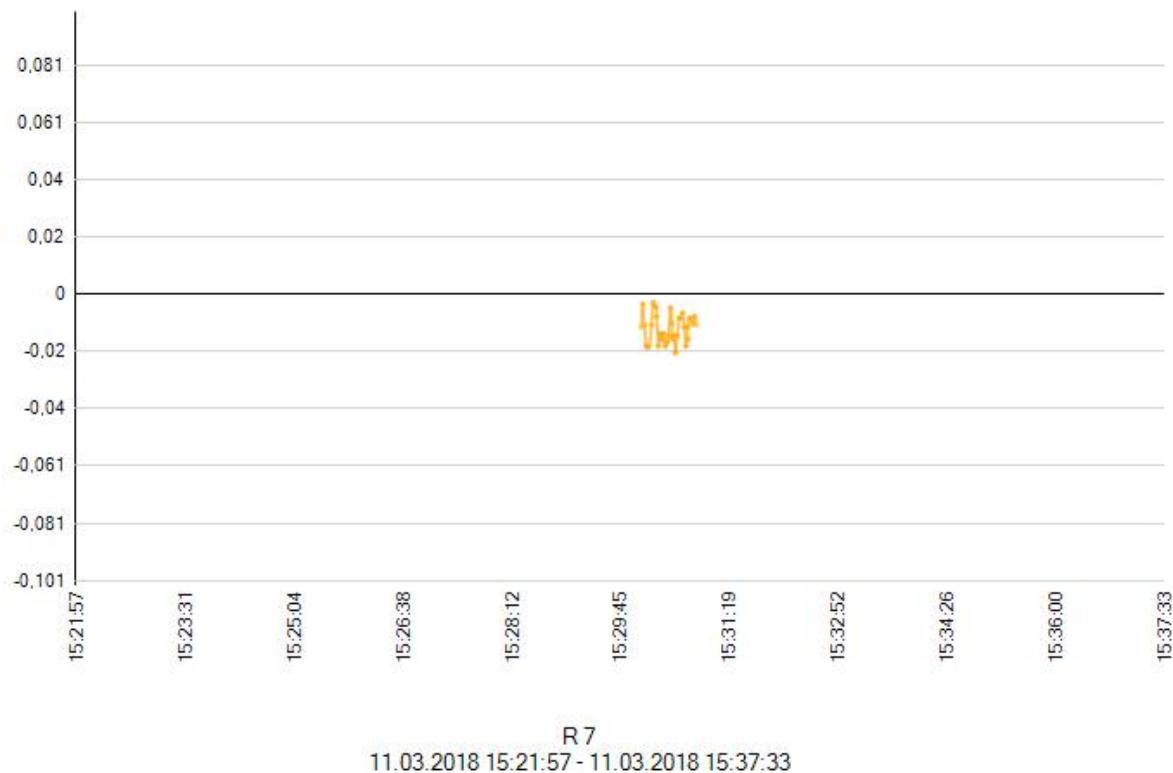
**Mean = 0,002 m Std. Dev. = 0,007 m Min. = -0,019 m Max. = 0,031 m**



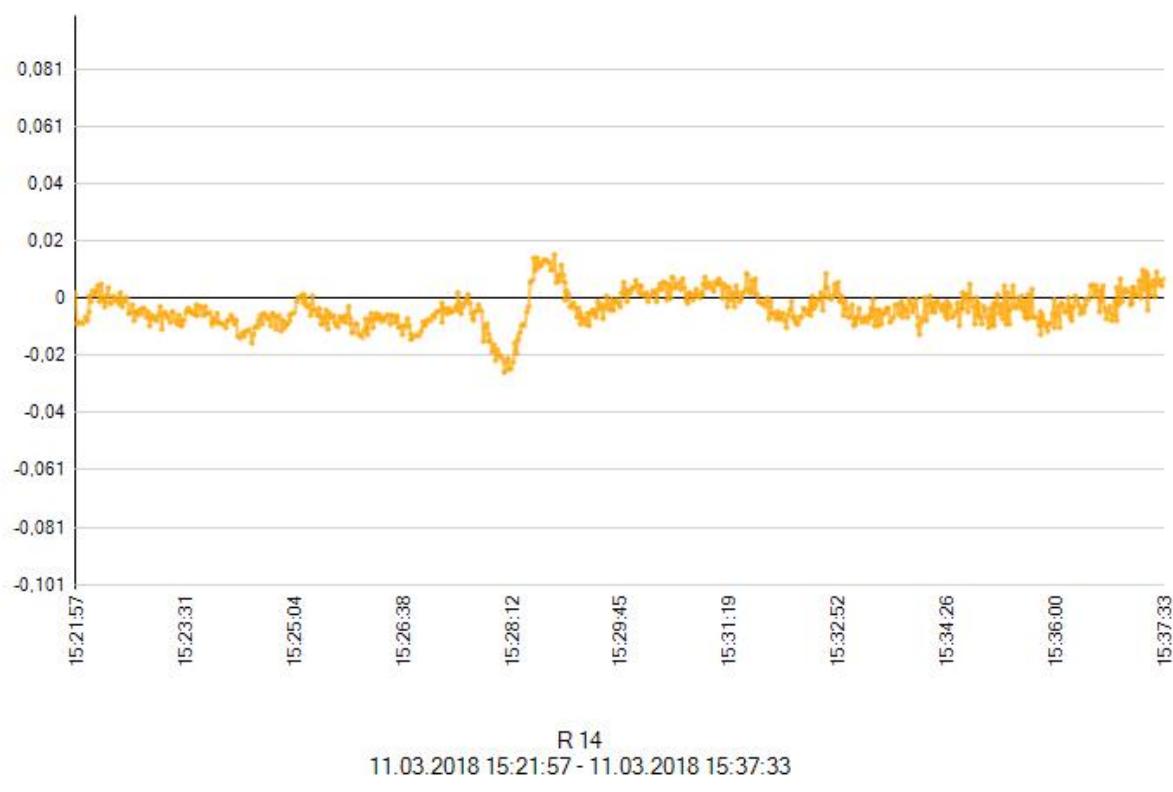
**Mean = 0,005 m Std. Dev. = 0,007 m Min. = -0,011 m Max. = 0,030 m**



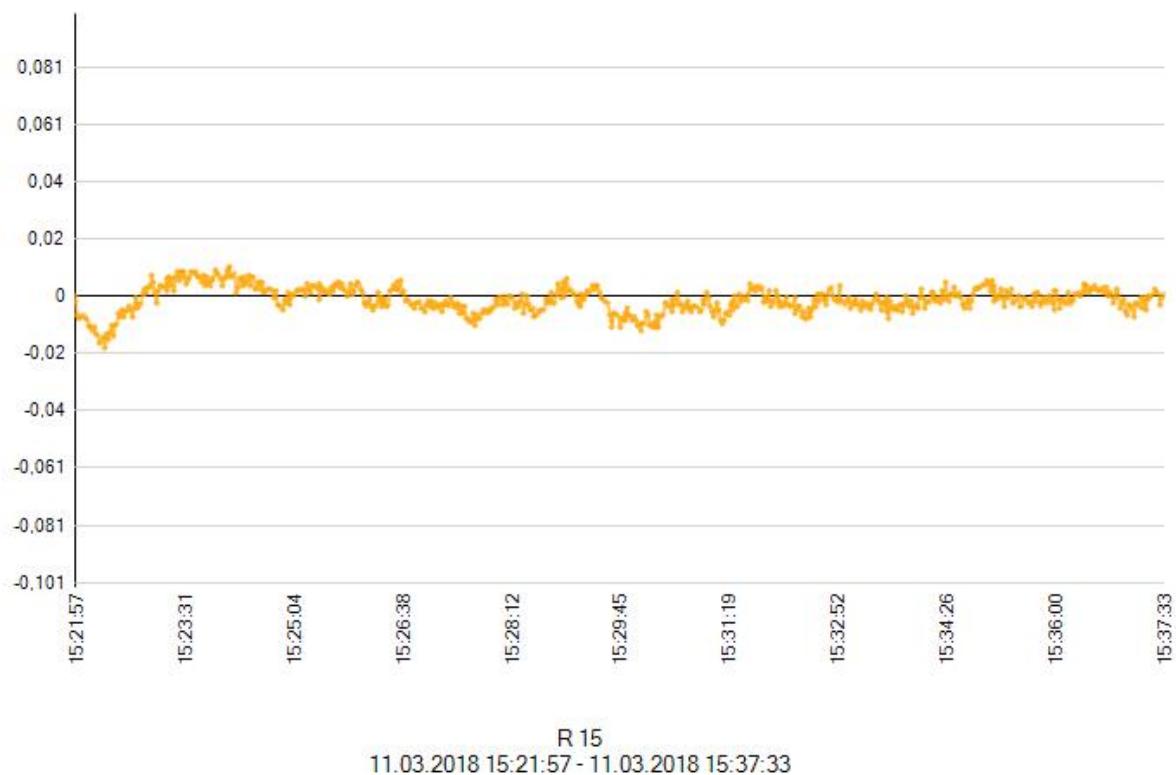
**Mean = -0,012 m Std. Dev. = 0,005 m Min. = -0,021 m Max. = -0,002 m**



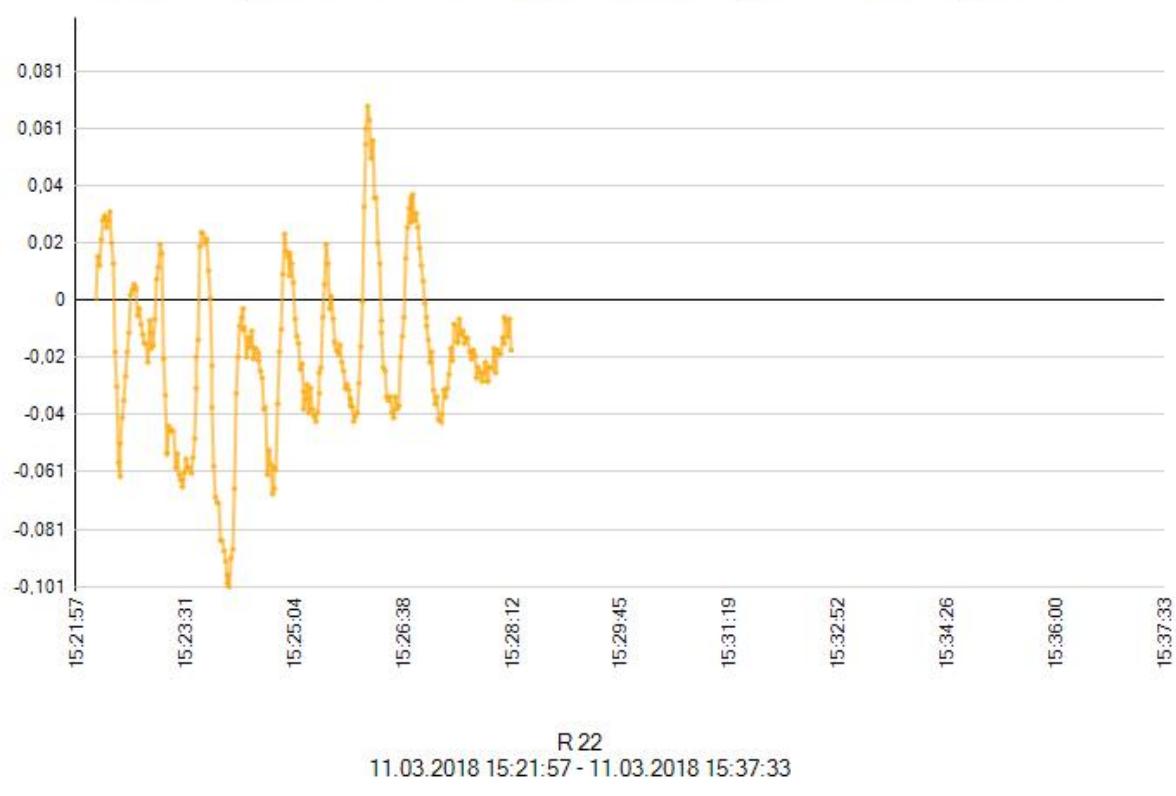
**Mean = -0,003 m Std. Dev. = 0,006 m Min. = -0,027 m Max. = 0,015 m**

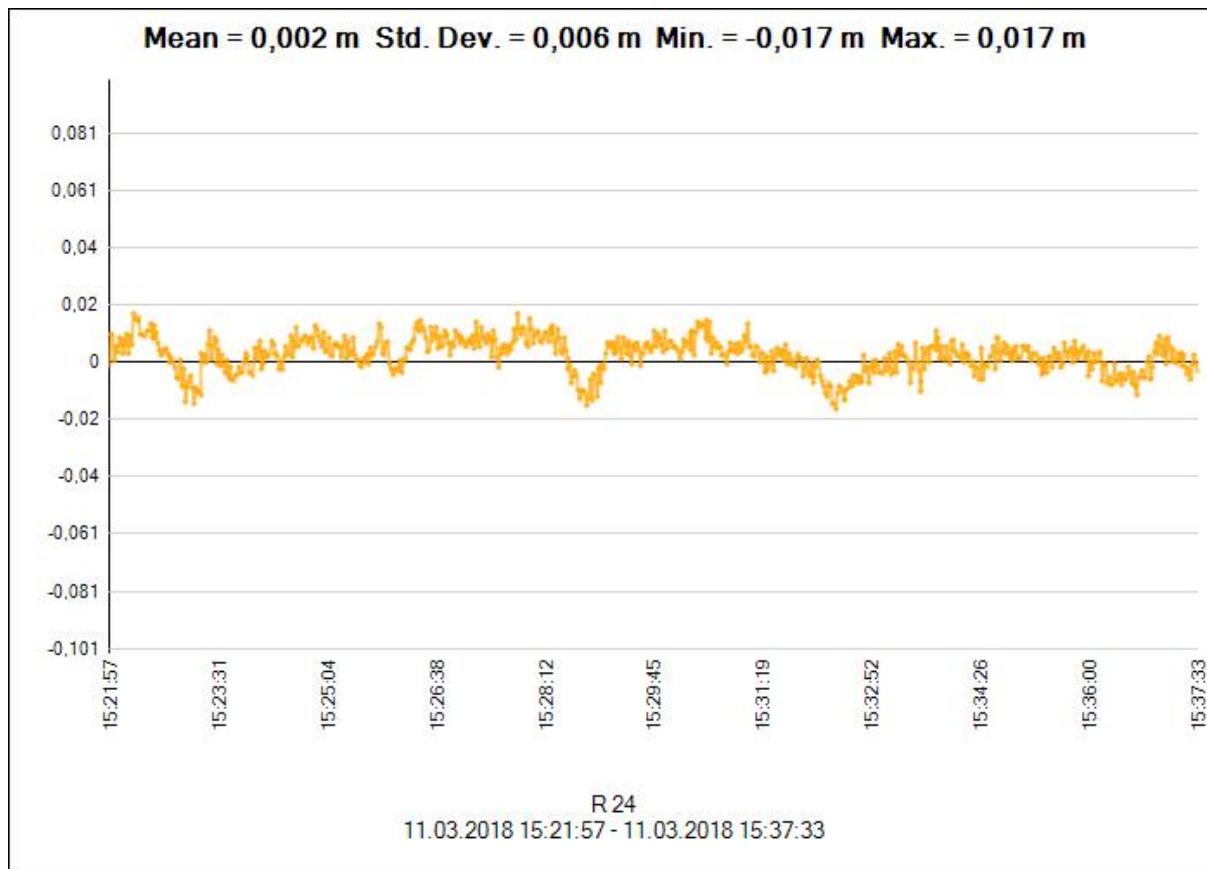


**Mean = -0,001 m Std. Dev. = 0,004 m Min. = -0,018 m Max. = 0,010 m**



**Mean = -0,018 m Std. Dev. = 0,030 m Min. = -0,102 m Max. = 0,068 m**





## 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: Multiple Frequencies  
 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

LYRS - T6 (14:42:58-14:58:26) (S2)

Baseline observation: LYRS --- T6 (B2)  
 Processed: 23.03.2018 14:28:23  
 Solution type: Fixed  
 Frequency used: Dual Frequency (L1, L2)  
 Horizontal precision: 0,010 m  
 Vertical precision: 0,028 m  
 RMS: 0,002 m  
 Maximum PDOP: 1,680  
 Ephemeris used: Broadcast  
 Antenna model: Trimble Calibration  
 Processing start time: 11.03.2018 14:42:58 (Local: UTC+1hr)  
 Processing stop time: 11.03.2018 14:58:26 (Local: UTC+1hr)  
 Processing duration: 12:15:28 AM  
 Processing interval: 1 second

Vector Components (Mark to Mark)

From:	LYRS				
Grid		Local		Global	
Easting	509048,138 m	Latitude	N78°13'43,77230"	Latitude	N78°13'43,77230"
Northing	8683937,568 m	Longitude	E15°23'50,31623"	Longitude	E15°23'50,31623"
Elevation	495,682 m	Height	495,682 m	Height	495,682 m

To:	T6				
Grid		Local		Global	
Easting	526250,174 m	Latitude	N78°15'04,70714"	Latitude	N78°15'04,70714"
Northing	8686674,918 m	Longitude	E16°09'17,64245"	Longitude	E16°09'17,64245"
Elevation	563,210 m	Height	563,210 m	Height	563,210 m

Vector					
9Ughb[	17202,035 m	NS Fwd Azimuth	81°20'50"	L	-7040,260 m
Bcfh]b[	2737,350 m	Ellipsoid Dist.	17425,369 m	M	15931,073 m
9YjUhcb	67,529 m	<Y]\h	67,529 m	N	577,728 m

## Standard Errors

Vector errors:

9Ughb[	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	0,003 m	M	0,003 m
9`Yj Uhcb	0,014 m	<Y][\h	0,014 m	N	0,015 m

## Aposteriori Covariance Matrix (Meter<sup>2</sup>)

	X	Y	Z
X	0,0000087039		
Y	-0,0000012761	0,0000106968	
Z	0,0000023545	-0,0000069187	0,0002145598

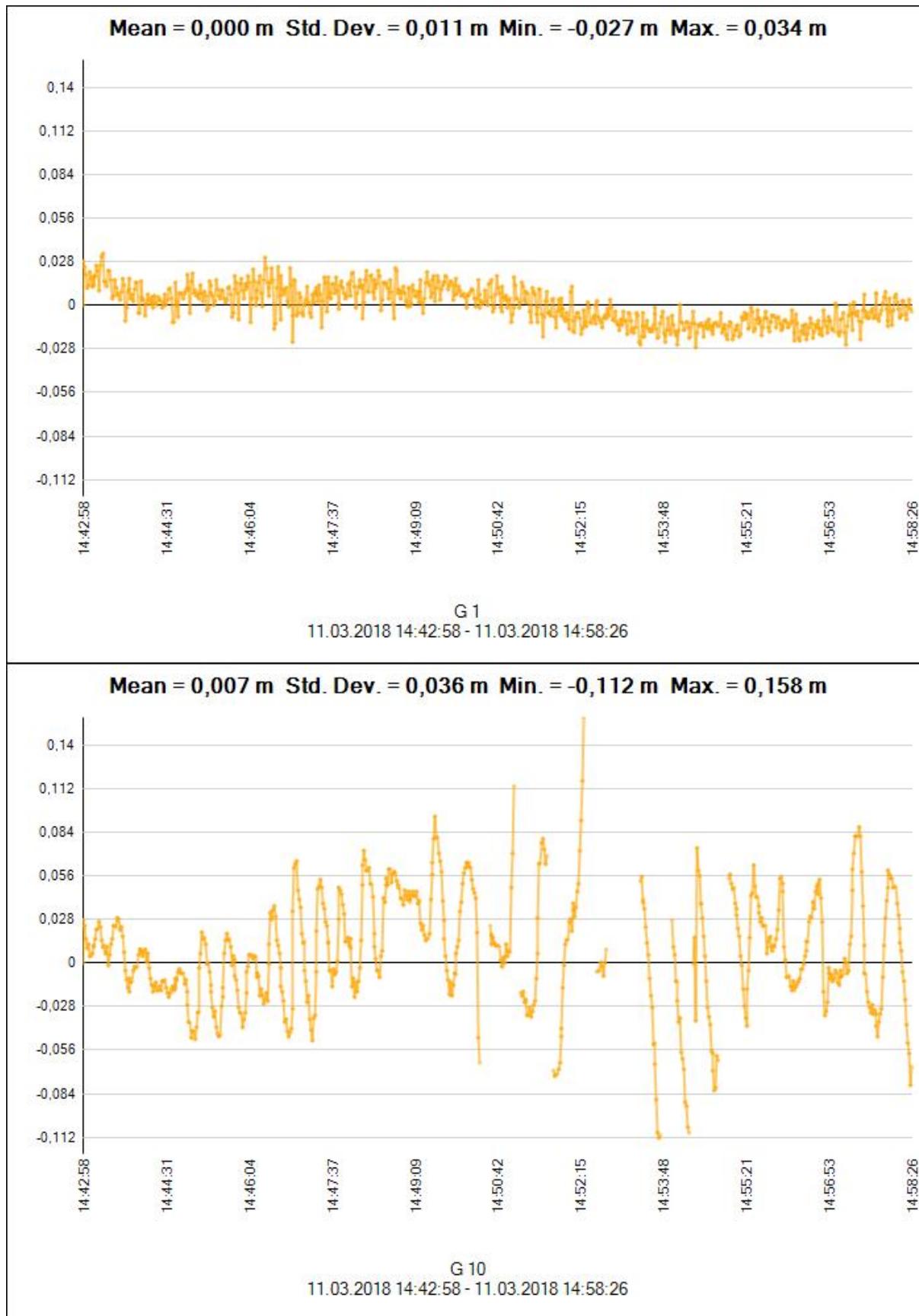
## Occupations

	From	To
Point ID:	LYRS	T6
Data file:	C:\Users\lth842\Documents\Trimble Business Center\Unnamed(1)\lyrs0700.18o	C:\Users\lth842\Documents\Trimble Business Center\Unnamed(1)\46250709.t02
Receiver type:	NetR9	R4
Receiver serial number:	5504R50012	5127468778
Antenna type:	Zephyr Geodetic	R4 Internal
Antenna serial number:	60111442	47477114
Antenna height (measured):	0,000 m	2,300 m
Antenna method:	Bottom of antenna mount	Bottom of antenna mount

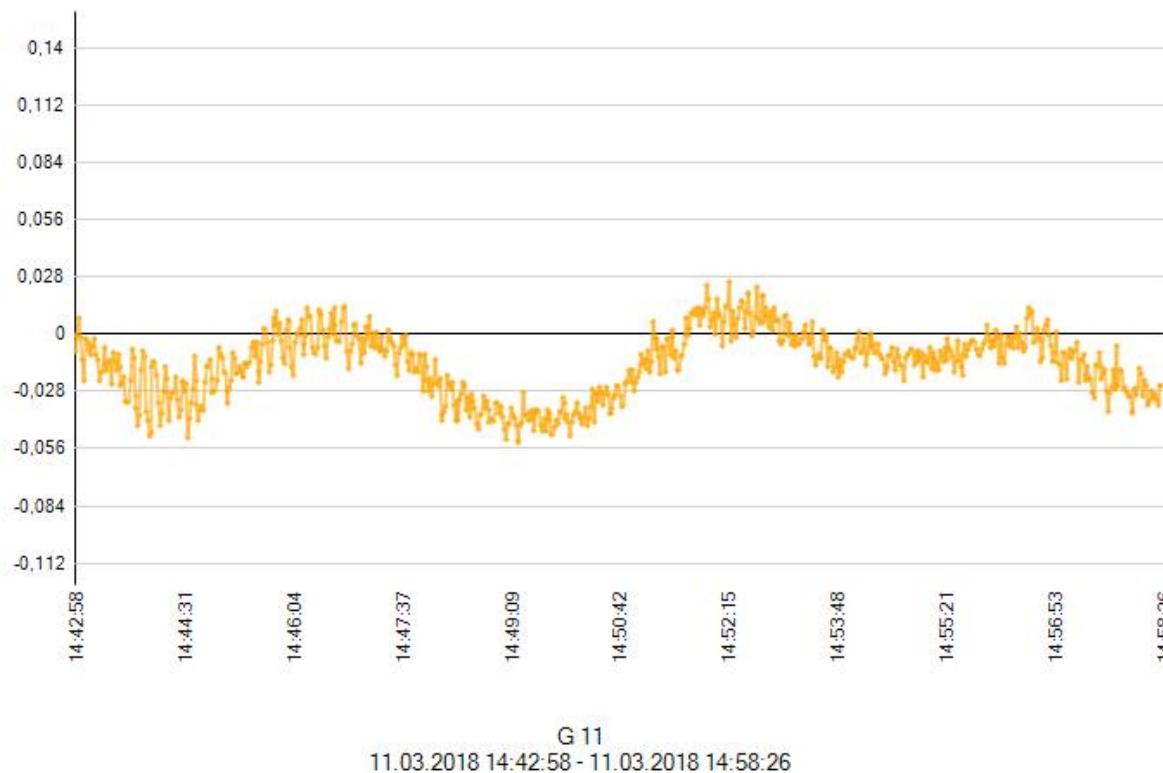
## Tracking Summary

SV	11.03.2018 14:42:58	Duration: 00:15:28 Major interval: 00:01:00	11.03.2018 14:58:26
G 1	L1 L2		
G 10	L1 L2		
G 11	L1 L2		
G 12	L1 L2		
G 14	L1 L2		
G 17	L1 L2		
G 19	L1 L2		
G 22	L1 L2		
G 24	L1 L2		
G 28	L1 L2		
G 32	L1 L2		
R 5	L1 L2		
R 6	L1 L2		
R 7	L1 L2		
R 13	L1 L2		
R 14	L1 L2		
R 15	L1 L2		
R 22	L1 L2		
R 23	L1 L2		
R 24	L1 L2		

## Residuals



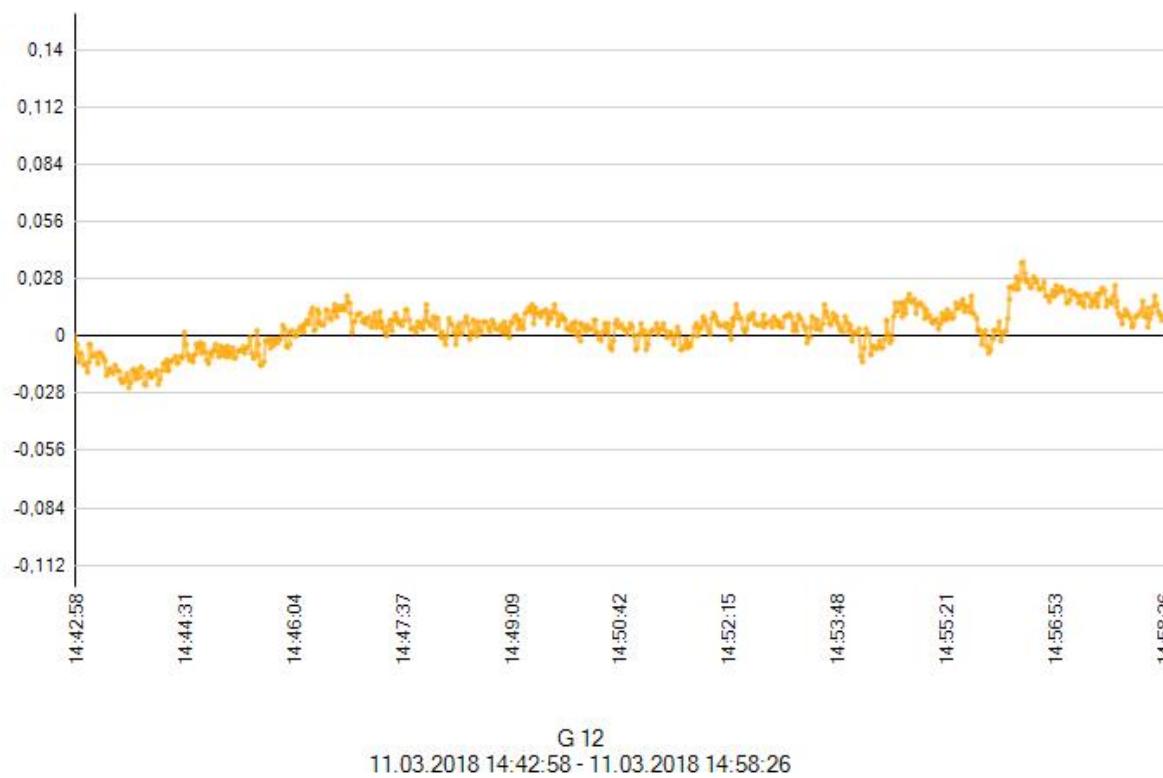
**Mean = -0,014 m Std. Dev. = 0,016 m Min. = -0,053 m Max. = 0,026 m**



G 11

11.03.2018 14:42:58 - 11.03.2018 14:58:26

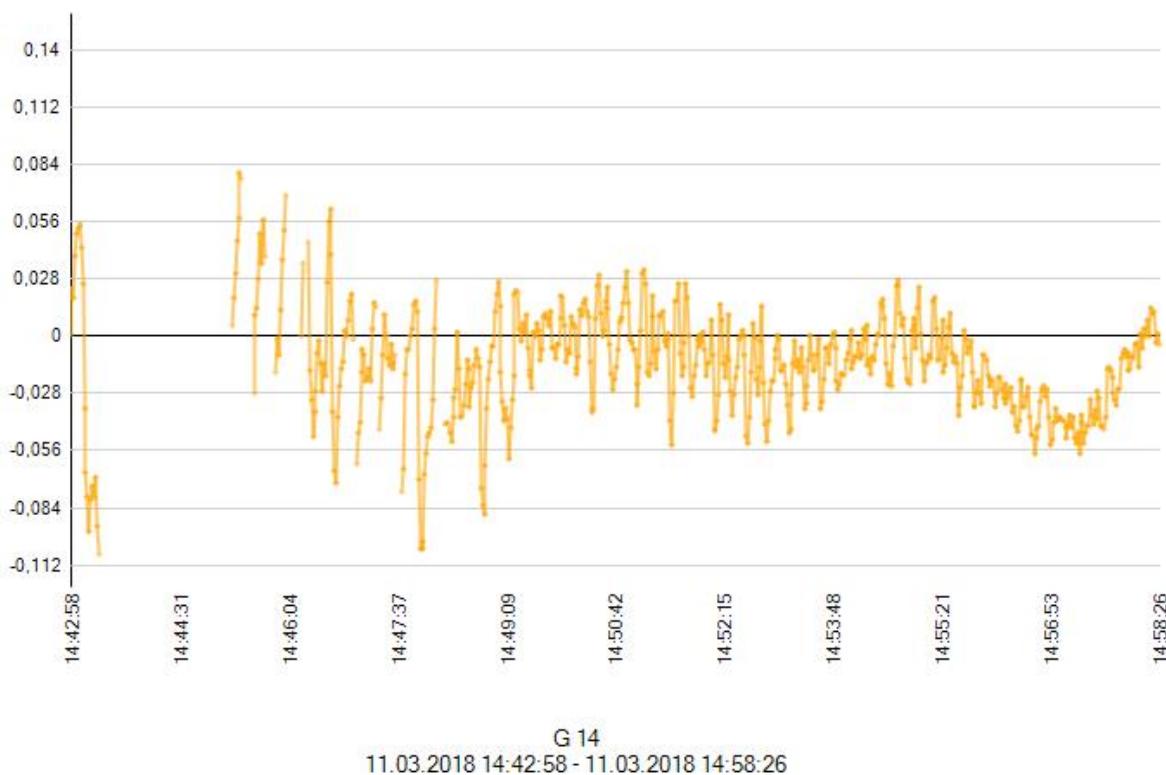
**Mean = 0,004 m Std. Dev. = 0,010 m Min. = -0,026 m Max. = 0,037 m**



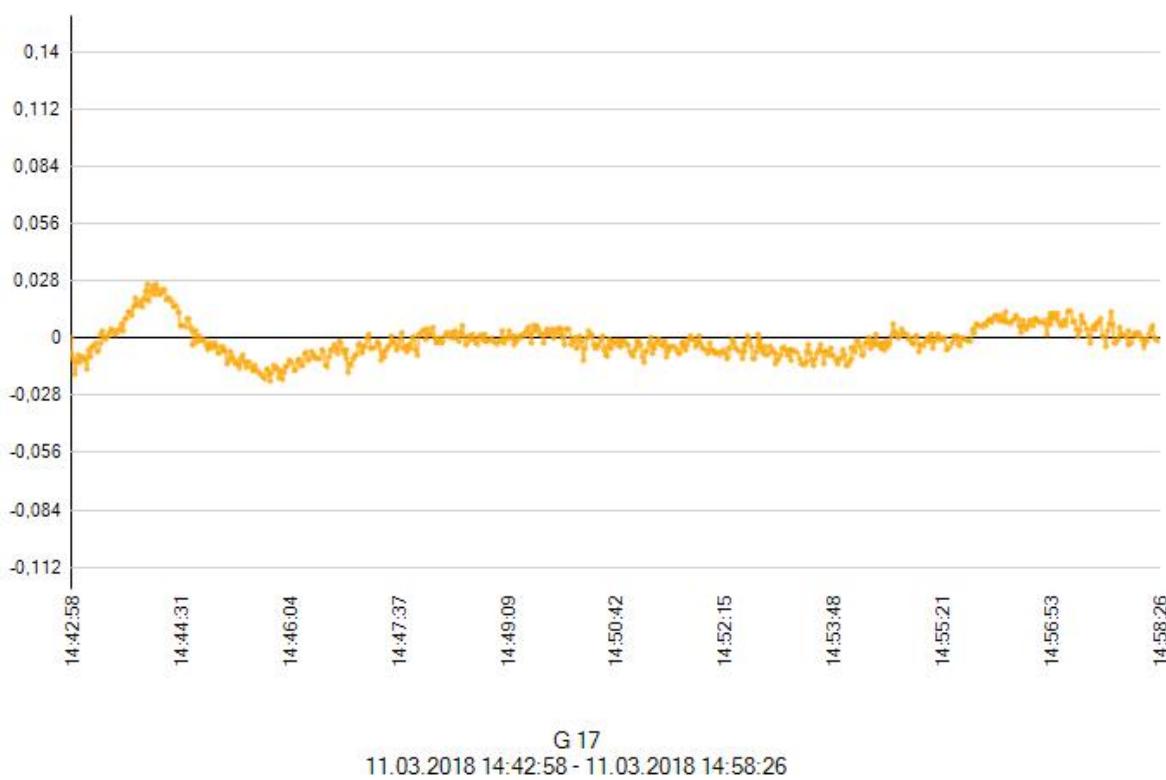
G 12

11.03.2018 14:42:58 - 11.03.2018 14:58:26

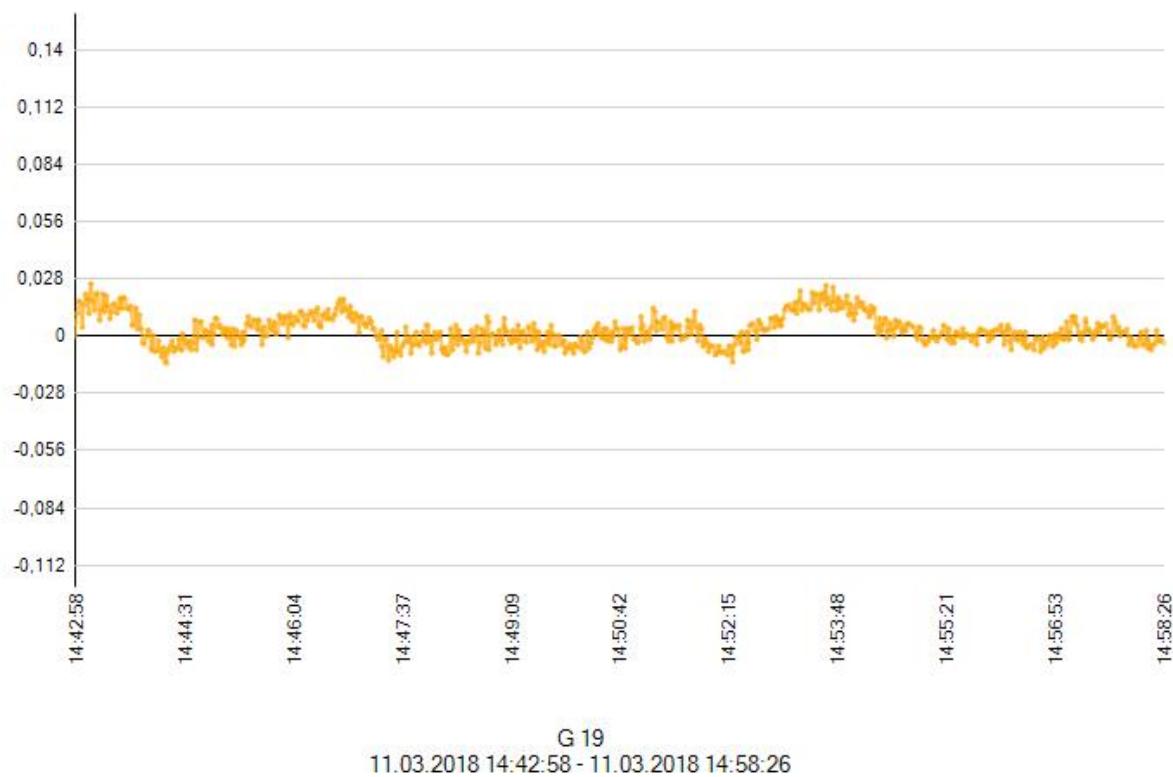
**Mean = -0,013 m Std. Dev. = 0,026 m Min. = -0,107 m Max. = 0,080 m**



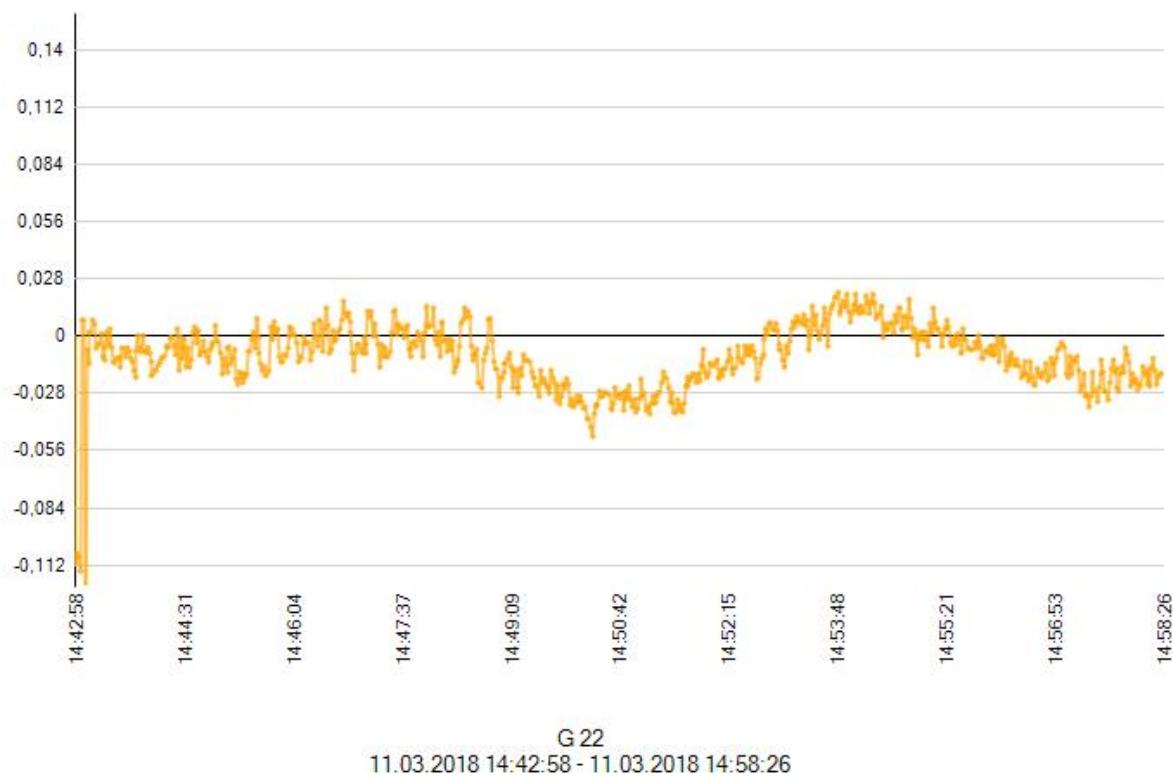
**Mean = -0,001 m Std. Dev. = 0,008 m Min. = -0,021 m Max. = 0,027 m**



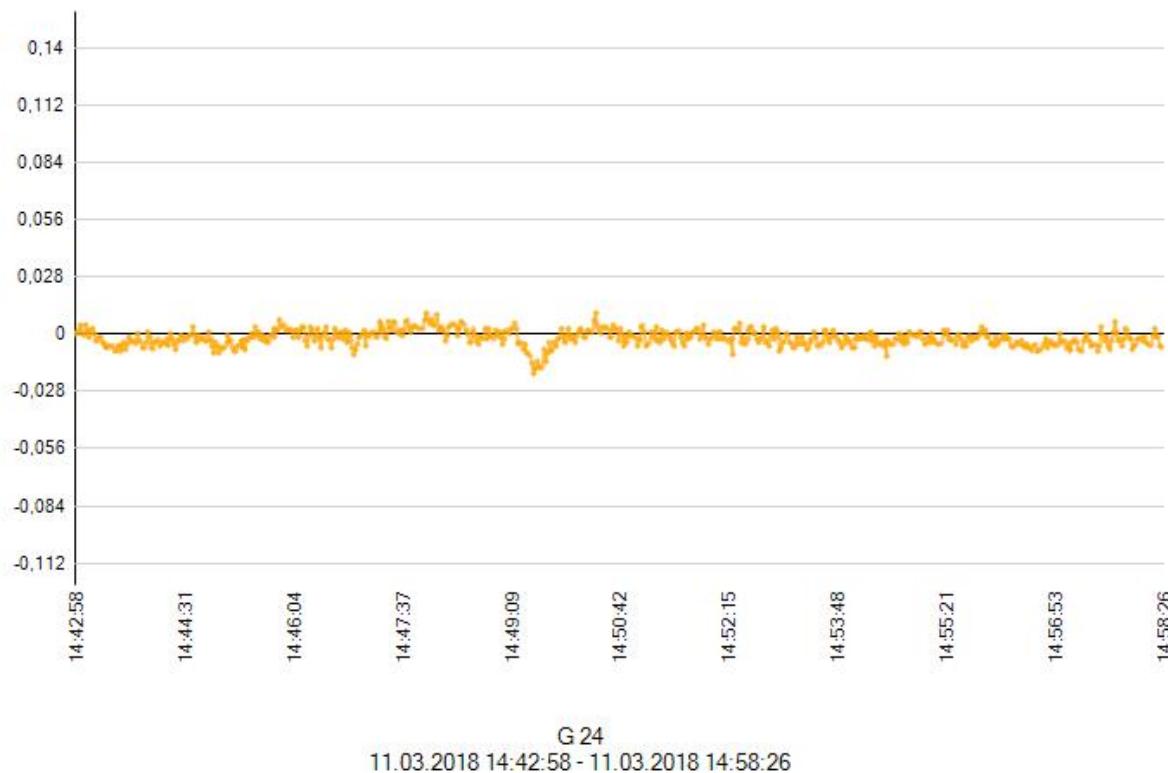
**Mean = 0,003 m Std. Dev. = 0,007 m Min. = -0,013 m Max. = 0,025 m**



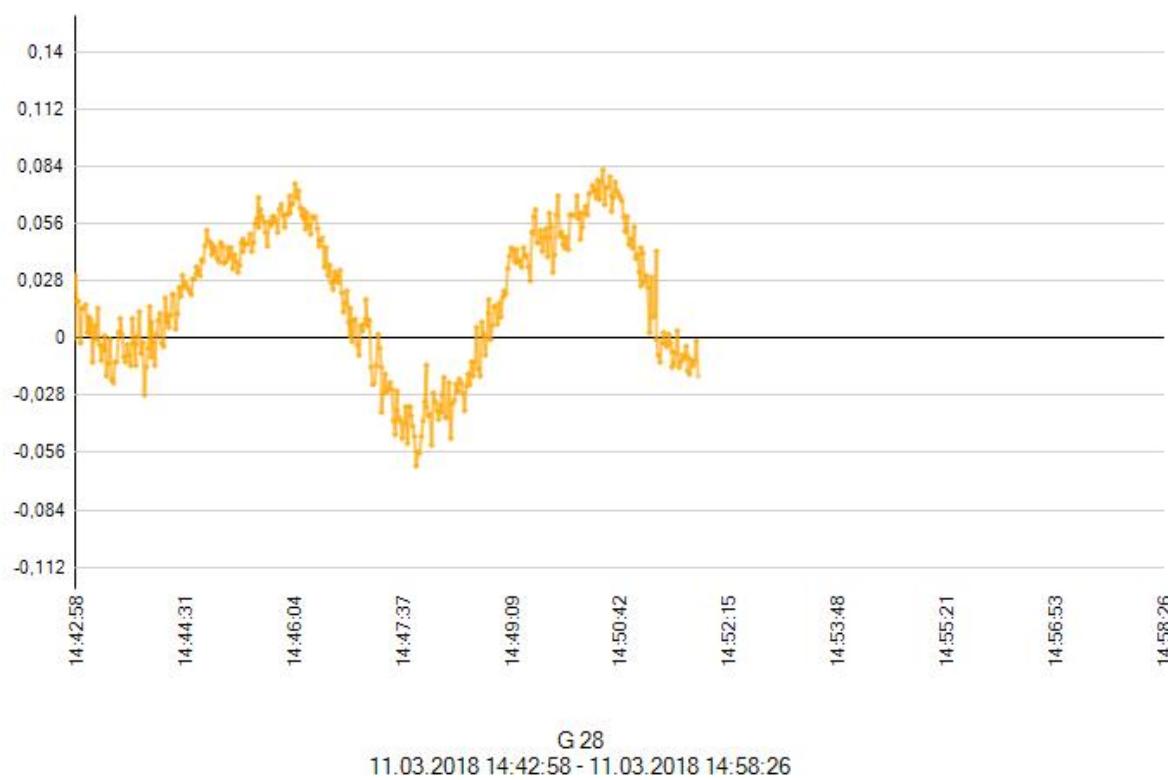
**Mean = -0,009 m Std. Dev. = 0,015 m Min. = -0,122 m Max. = 0,021 m**



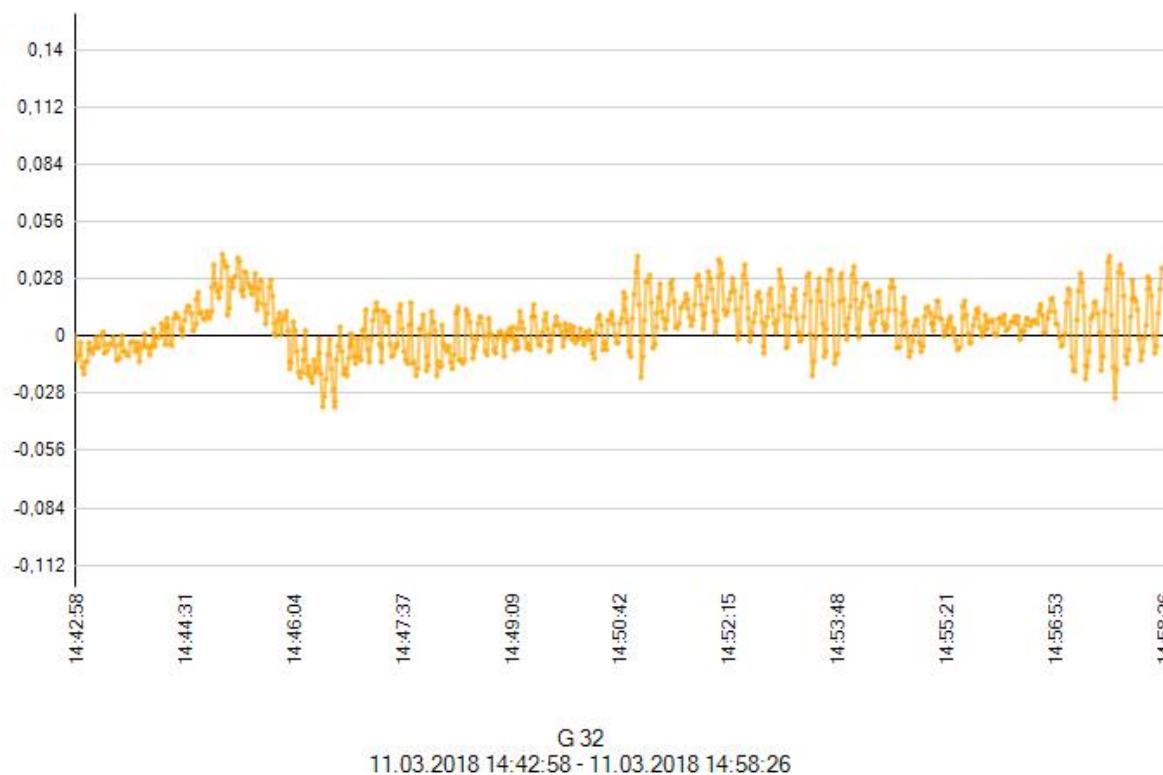
**Mean = -0,002 m Std. Dev. = 0,004 m Min. = -0,019 m Max. = 0,011 m**



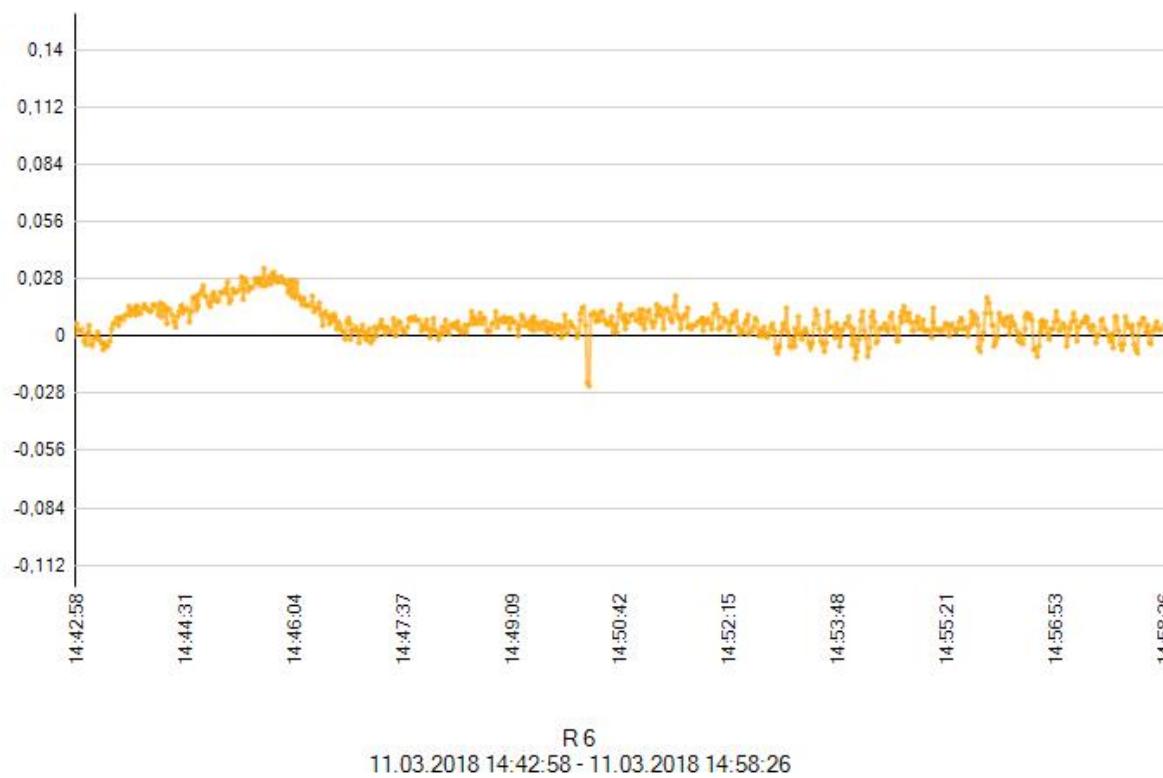
**Mean = 0,019 m Std. Dev. = 0,033 m Min. = -0,062 m Max. = 0,082 m**



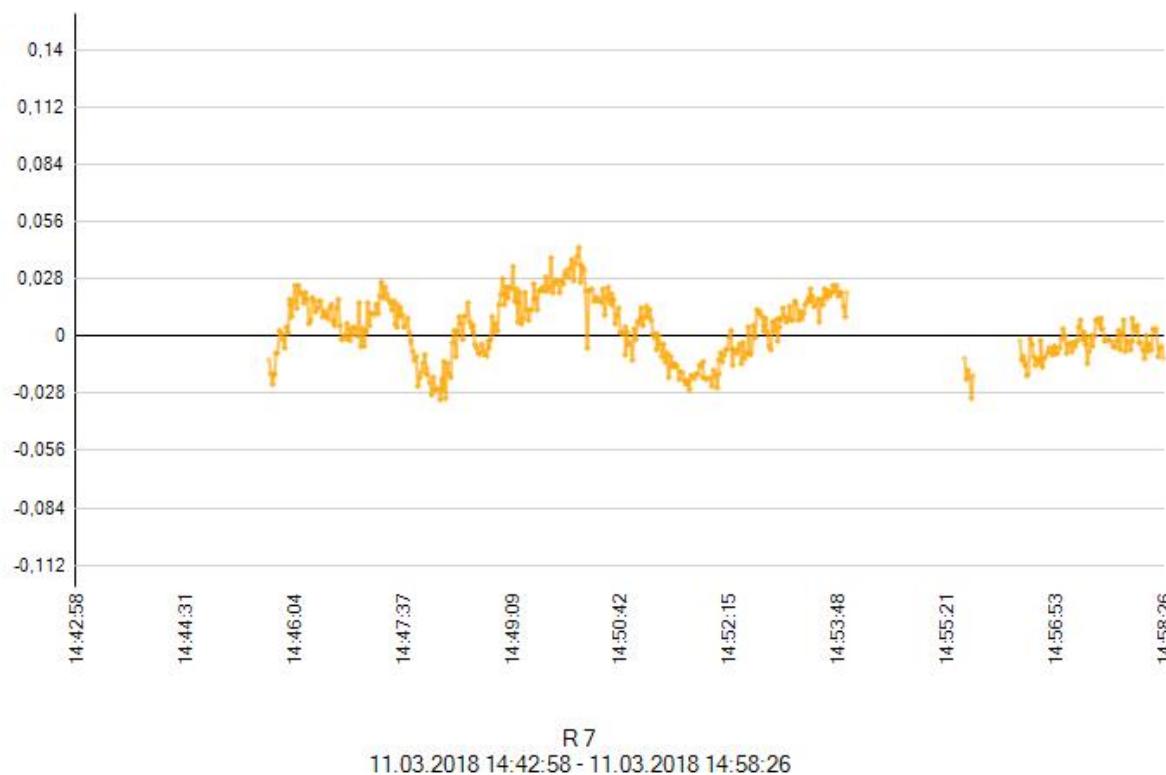
**Mean = 0,005 m Std. Dev. = 0,013 m Min. = -0,035 m Max. = 0,040 m**



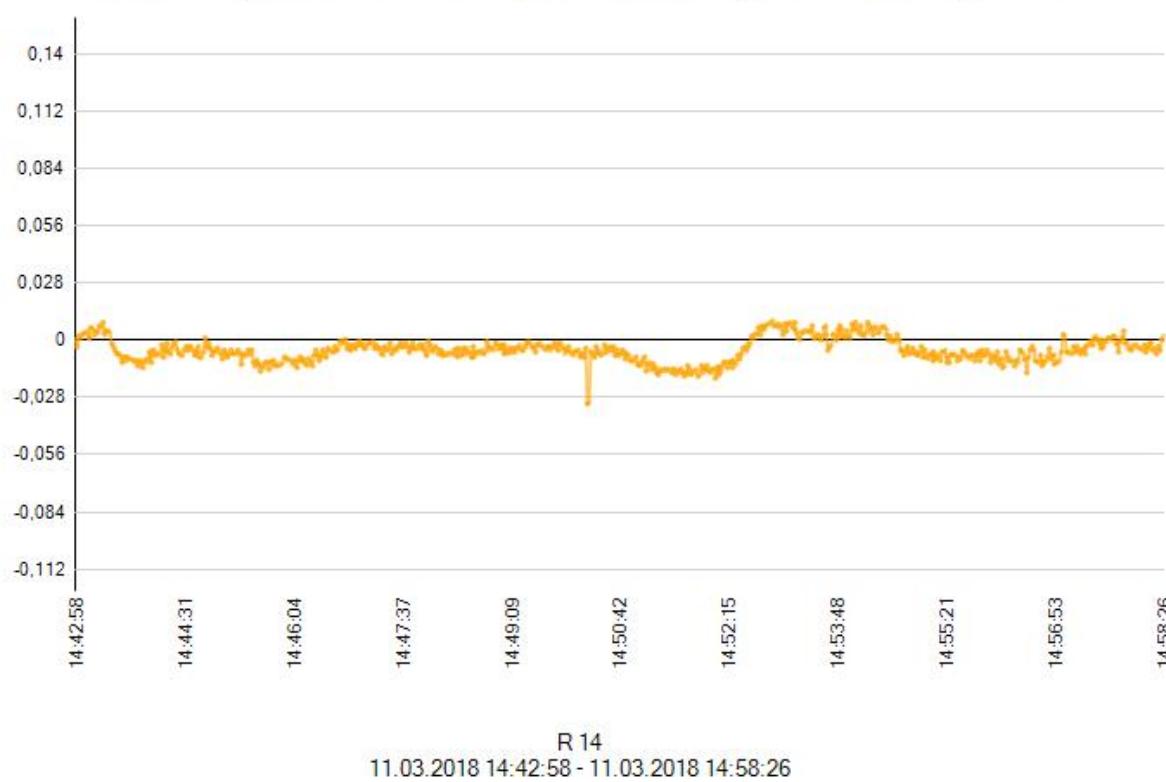
**Mean = 0,007 m Std. Dev. = 0,007 m Min. = -0,024 m Max. = 0,033 m**



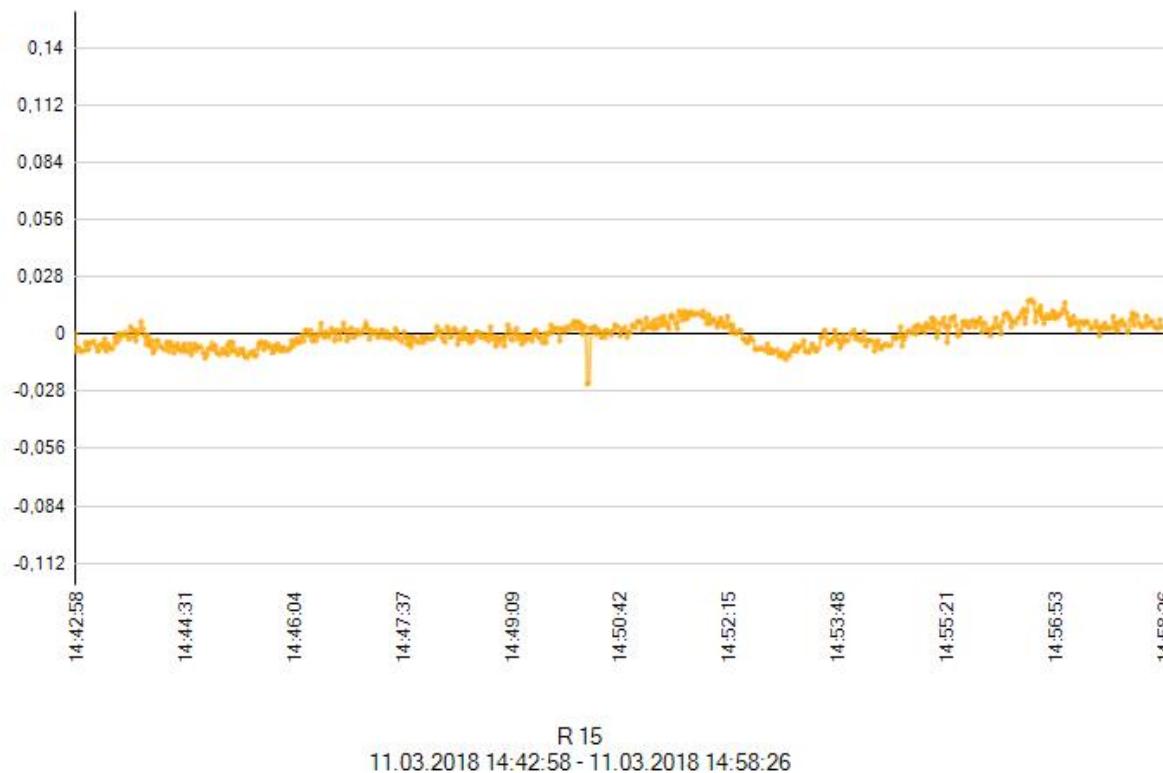
**Mean = 0,003 m Std. Dev. = 0,014 m Min. = -0,031 m Max. = 0,043 m**



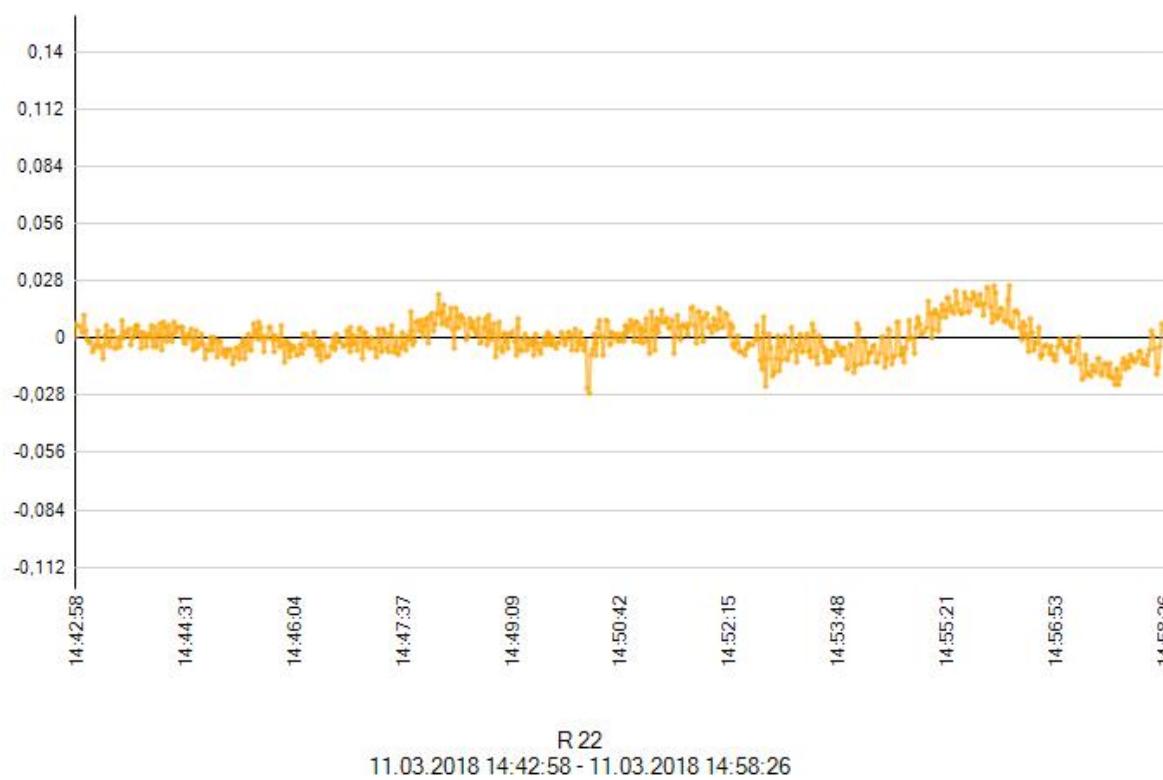
**Mean = -0,005 m Std. Dev. = 0,006 m Min. = -0,032 m Max. = 0,010 m**



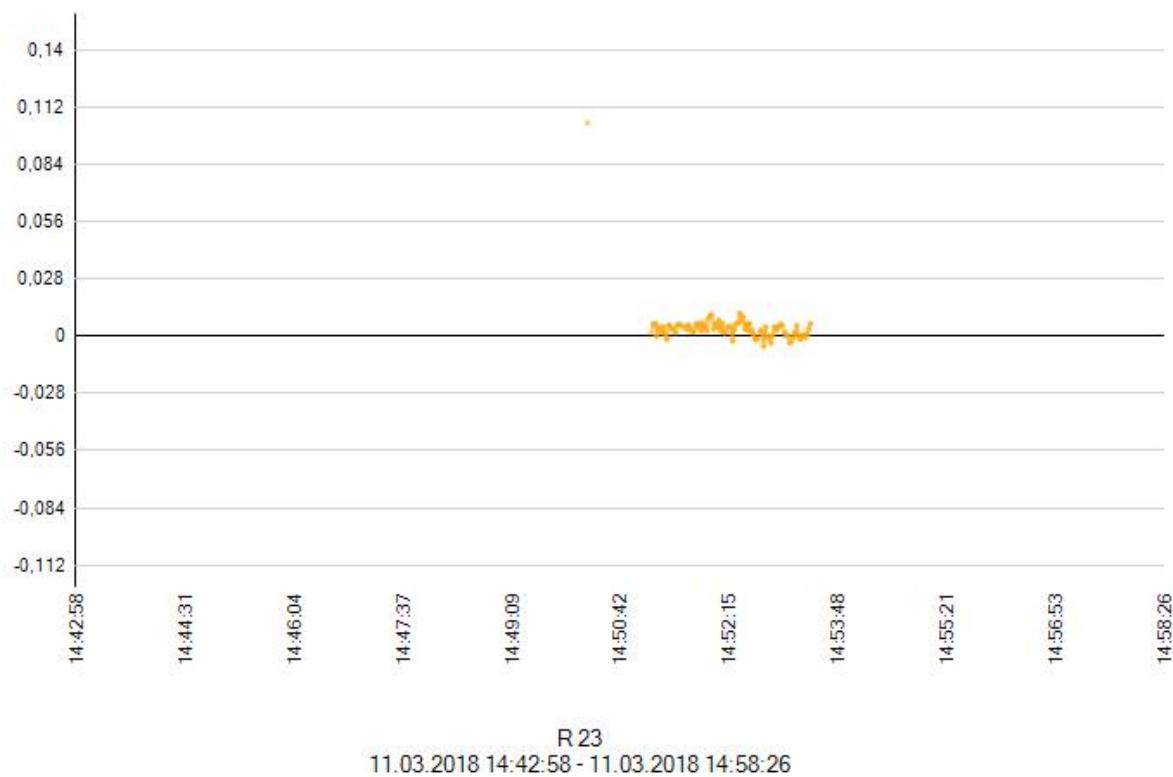
**Mean = 0,000 m Std. Dev. = 0,005 m Min. = -0,025 m Max. = 0,017 m**



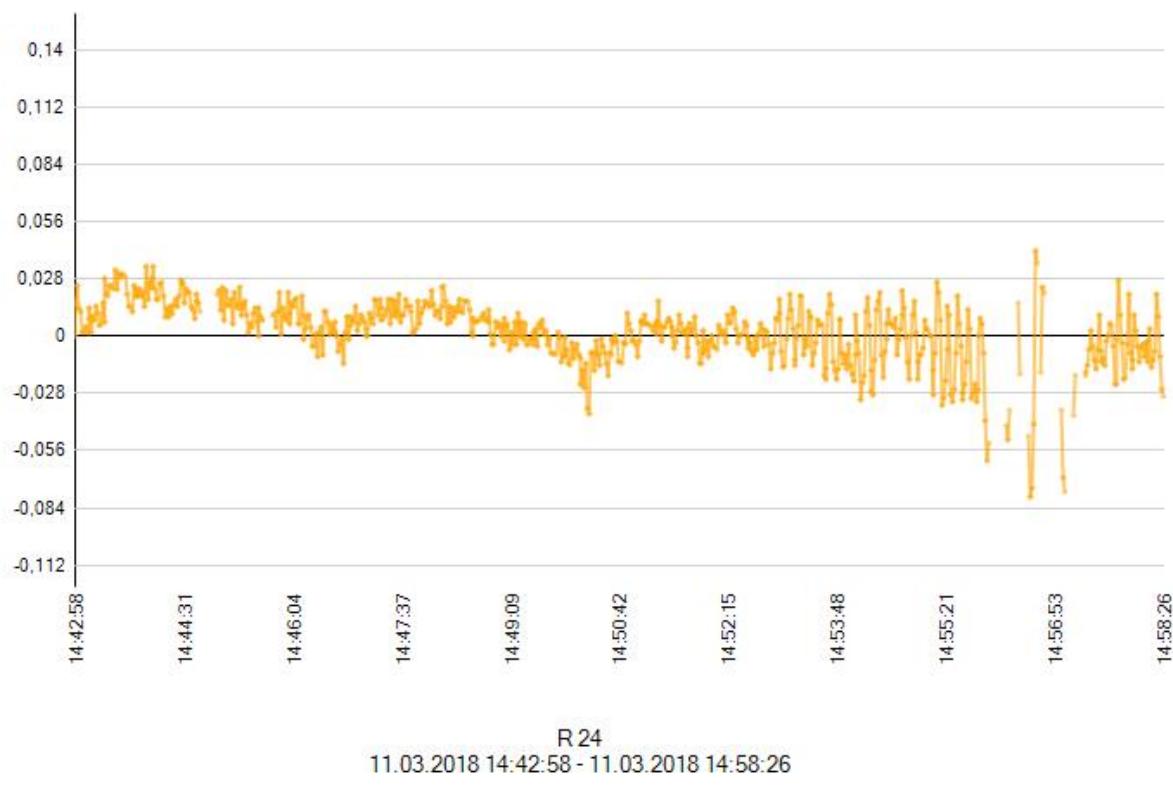
**Mean = 0,000 m Std. Dev. = 0,008 m Min. = -0,027 m Max. = 0,026 m**



**Mean = 0,005 m Std. Dev. = 0,012 m Min. = -0,005 m Max. = 0,105 m**



**Mean = 0,002 m Std. Dev. = 0,014 m Min. = -0,079 m Max. = 0,041 m**



## 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: Multiple Frequencies  
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

LYRS - T2 (12:28:46-12:52:21) (S7)

Baseline observation: LYRS --- T2 (B7)  
 Processed: 23.03.2018 14:28:33  
 Solution type: Fixed  
 Frequency used: Dual Frequency (L1, L2)  
 Horizontal precision: 0,008 m  
 Vertical precision: 0,018 m  
 RMS: 0,001 m  
 Maximum PDOP: 1,779  
 Ephemeris used: Broadcast  
 Antenna model: Trimble Calibration  
 Processing start time: 11.03.2018 12:28:46 (Local: UTC+1hr)  
 Processing stop time: 11.03.2018 12:52:21 (Local: UTC+1hr)  
 Processing duration: 12:23:35 AM  
 Processing interval: 1 second

Vector Components (Mark to Mark)

From:	LYRS				
Grid		Local		Global	
Easting	509048,138 m	Latitude	N78°13'43,77230"	Latitude	N78°13'43,77230"
Northing	8683937,568 m	Longitude	E15°23'50,31623"	Longitude	E15°23'50,31623"
Elevation	495,682 m	Height	495,682 m	Height	495,682 m

To:	T2				
Grid		Local		Global	
Easting	527951,148 m	Latitude	N78°15'24,44050"	Latitude	N78°15'24,44050"
Northing	8687321,468 m	Longitude	E16°13'49,12573"	Longitude	E16°13'49,12573"
Elevation	396,174 m	Height	396,174 m	Height	396,174 m

Vector					
9Ughb[	18903,009 m	NS Fwd Azimuth	80°14'23"	L	-8126,510 m
Bcfh]b[	3383,900 m	Ellipsoid Dist.	19211,100 m	M	17401,063 m
9Yj Uhcb	-99,507 m	<Y]\h	-99,507 m	N	538,785 m

## Standard Errors

Vector errors:

9Ughb[	0,003 m	'BG 'ZK X'5n]a i h	0°00'00"	L	0,003 m
Bcfh]b[	0,003 m	'9``]dgc]X 8]gh	0,003 m	M	0,003 m
9`Yj Uhcb	0,009 m	<Y][\h	0,009 m	N	0,009 m

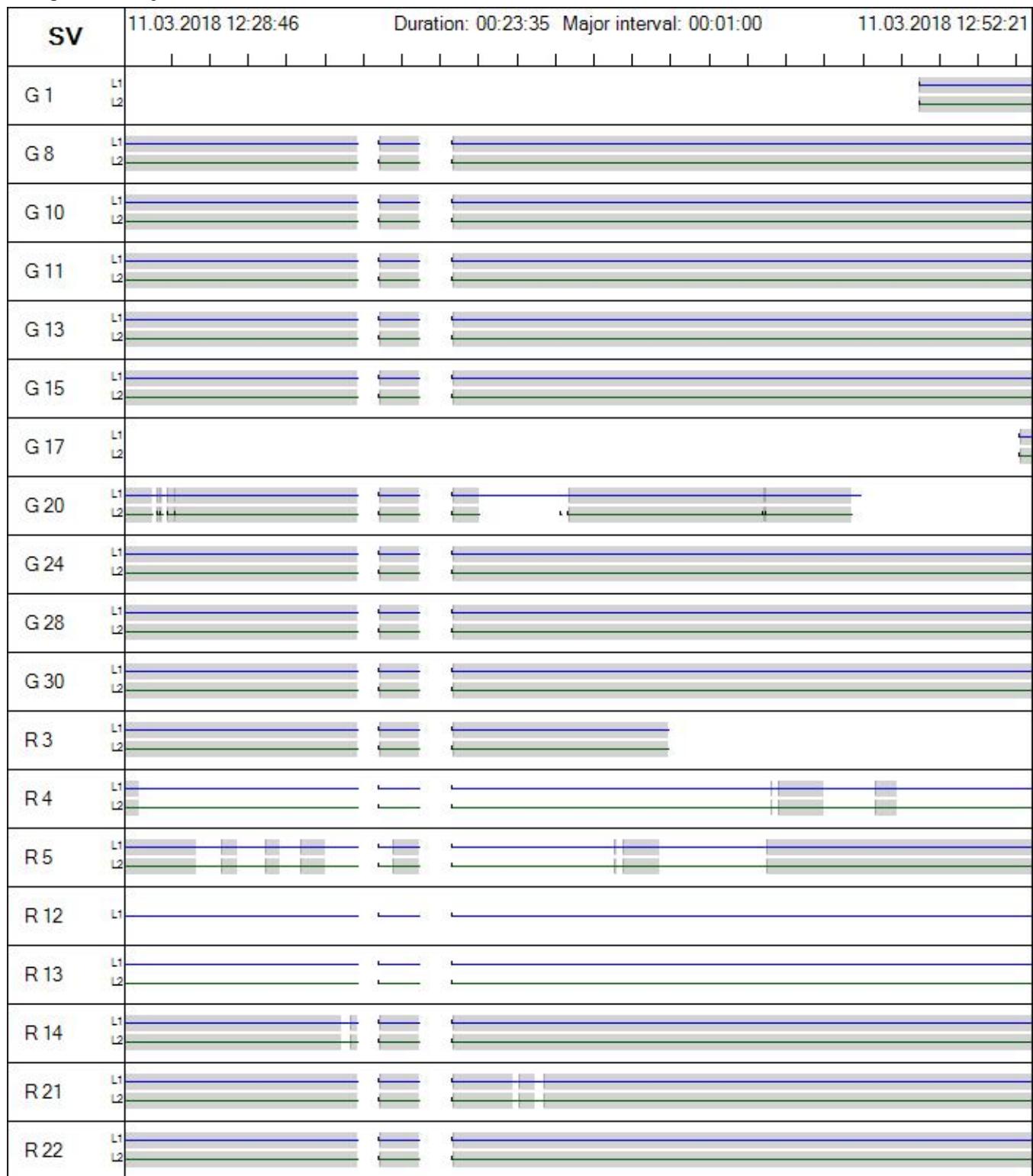
## Aposteriori Covariance Matrix (Meter<sup>2</sup>)

	X	Y	Z
X	0,0000068656		
Y	0,0000010068	0,0000076524	
Z	0,0000065939	-0,0000022649	0,0000852459

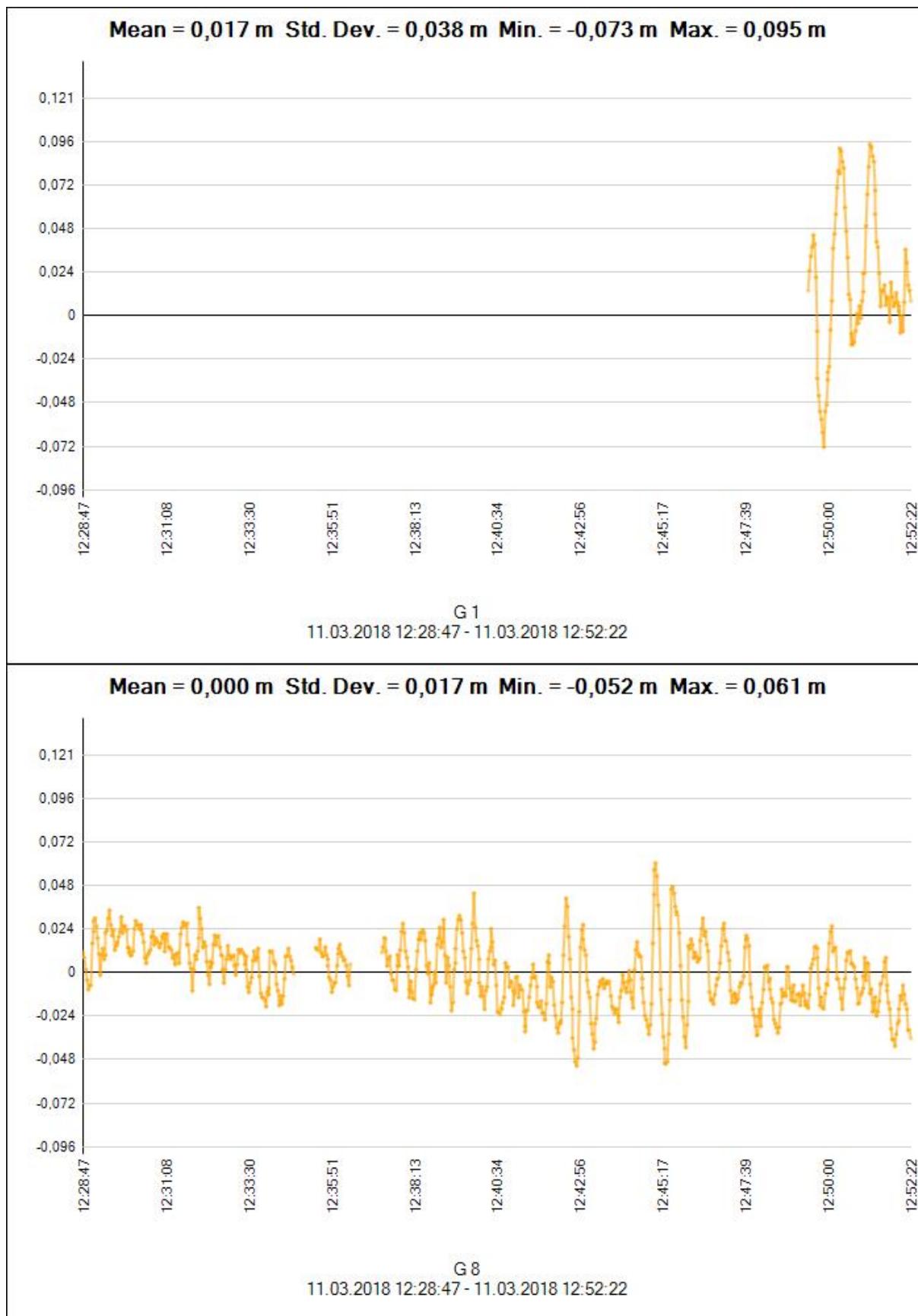
## Occupations

	From	To
Point ID:	LYRS	T2
Data file:	C:\Users\lth842\Documents\Trimble Business Center\Unnamed(1)\lyrs0700.18o	C:\Users\lth842\Documents\Trimble Business Center\Unnamed(1)\46250703.t02
Receiver type:	NetR9	R4
Receiver serial number:	5504R50012	5127468778
Antenna type:	Zephyr Geodetic	R4 Internal
Antenna serial number:	60111442	47477114
Antenna height (measured):	0,000 m	2,230 m
Antenna method:	Bottom of antenna mount	Bottom of antenna mount

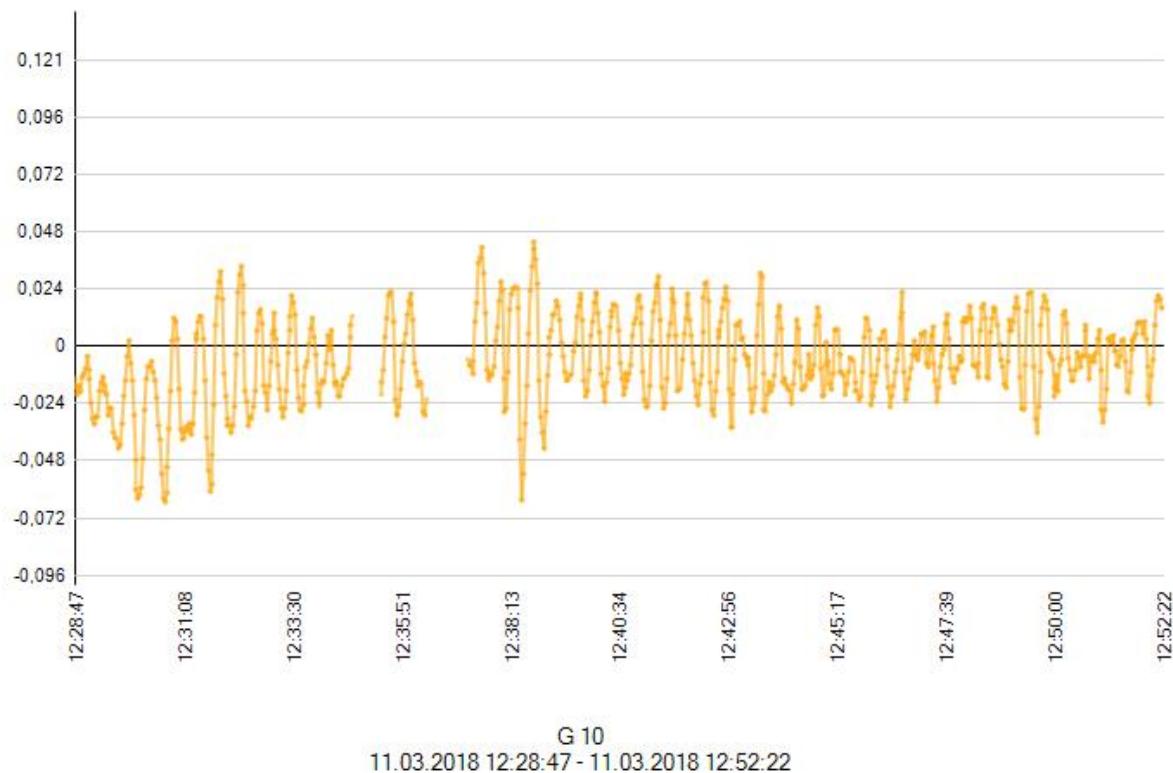
## Tracking Summary



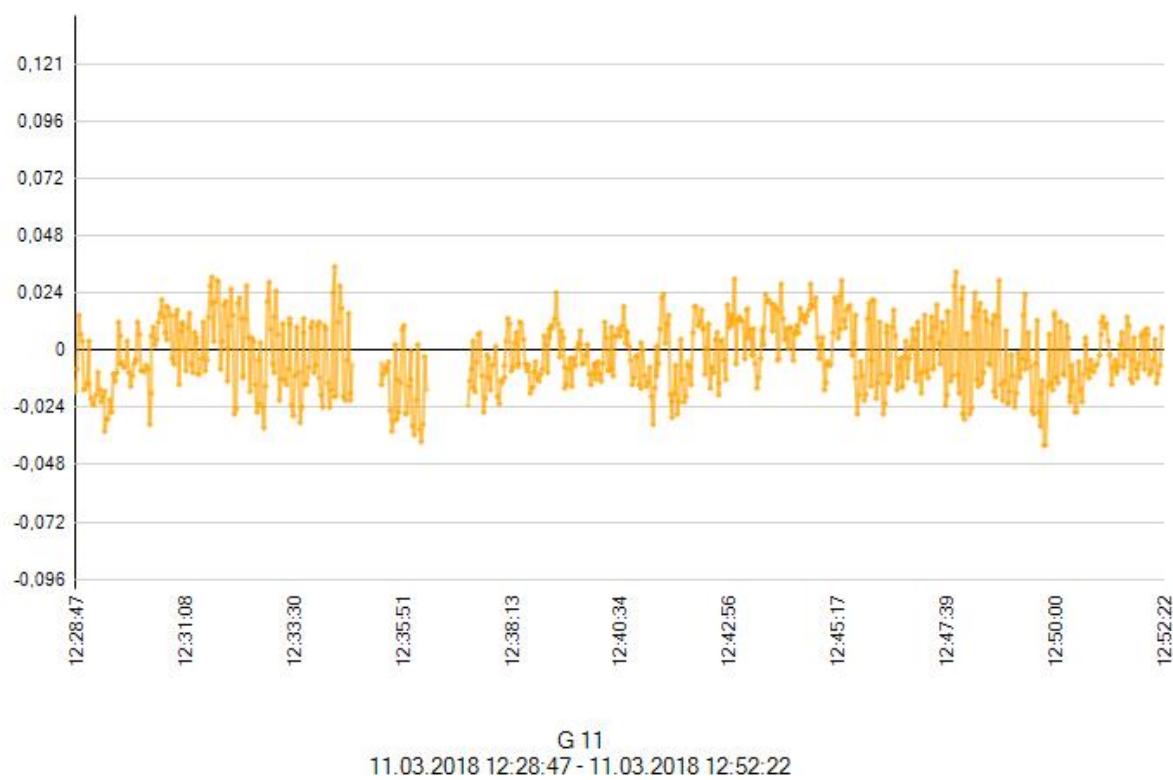
## Residuals



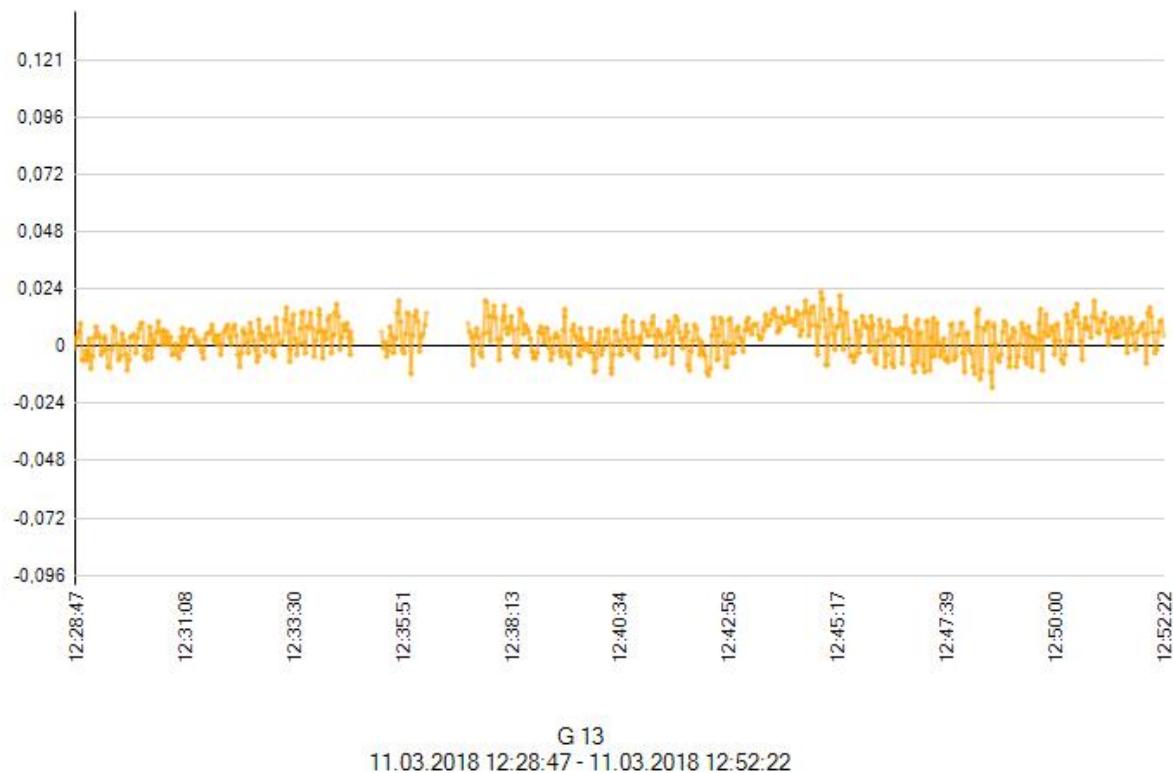
**Mean = -0,005 m Std. Dev. = 0,017 m Min. = -0,065 m Max. = 0,044 m**



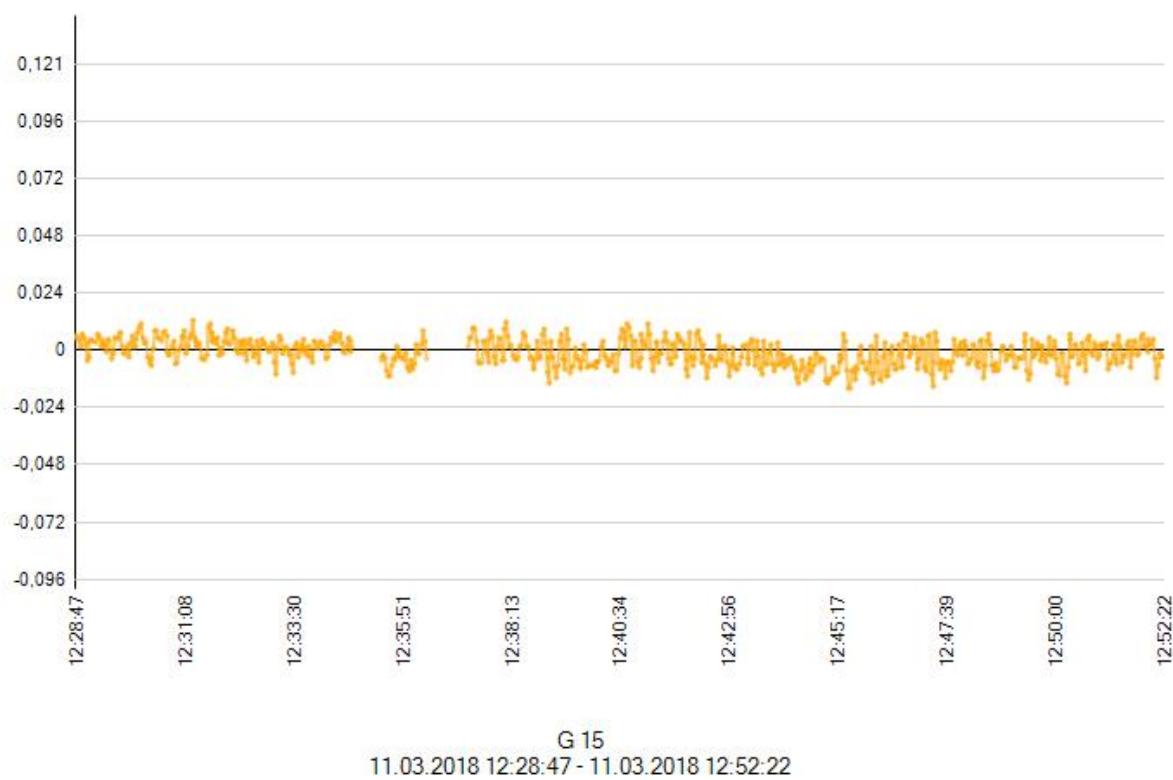
**Mean = -0,002 m Std. Dev. = 0,012 m Min. = -0,040 m Max. = 0,035 m**



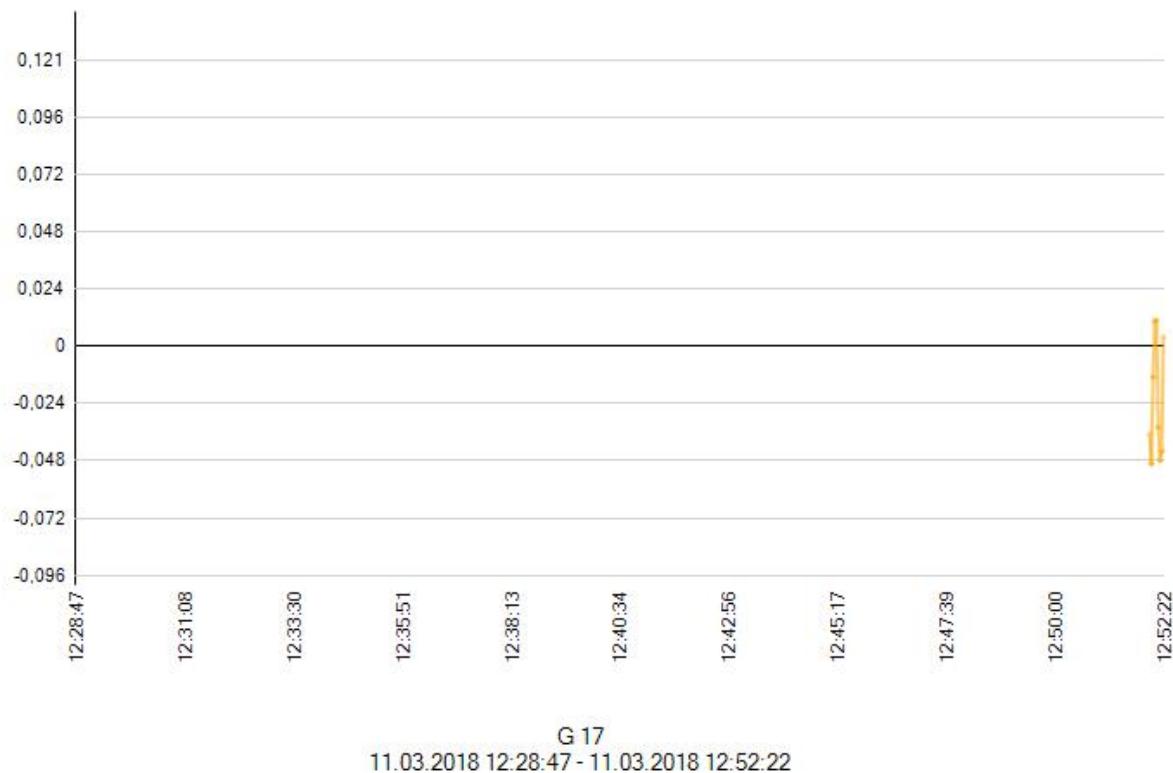
**Mean = 0,003 m Std. Dev. = 0,006 m Min. = -0,017 m Max. = 0,023 m**



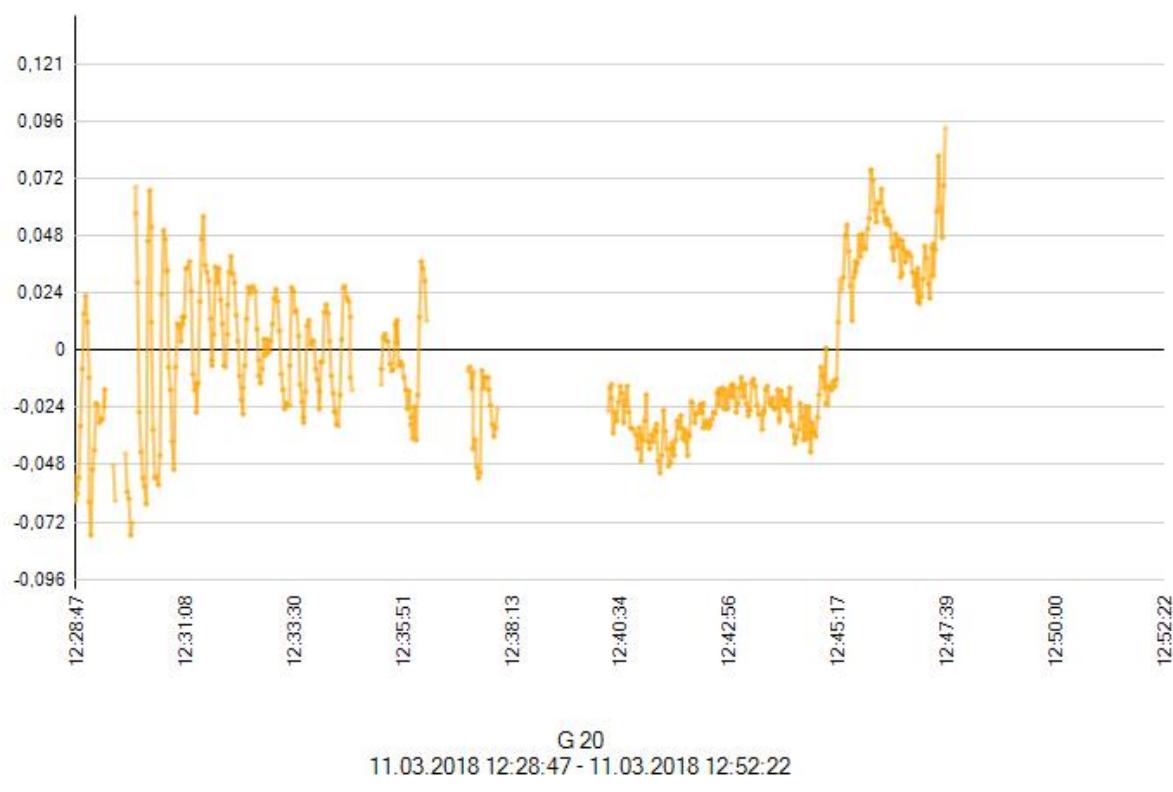
**Mean = -0,001 m Std. Dev. = 0,005 m Min. = -0,016 m Max. = 0,013 m**



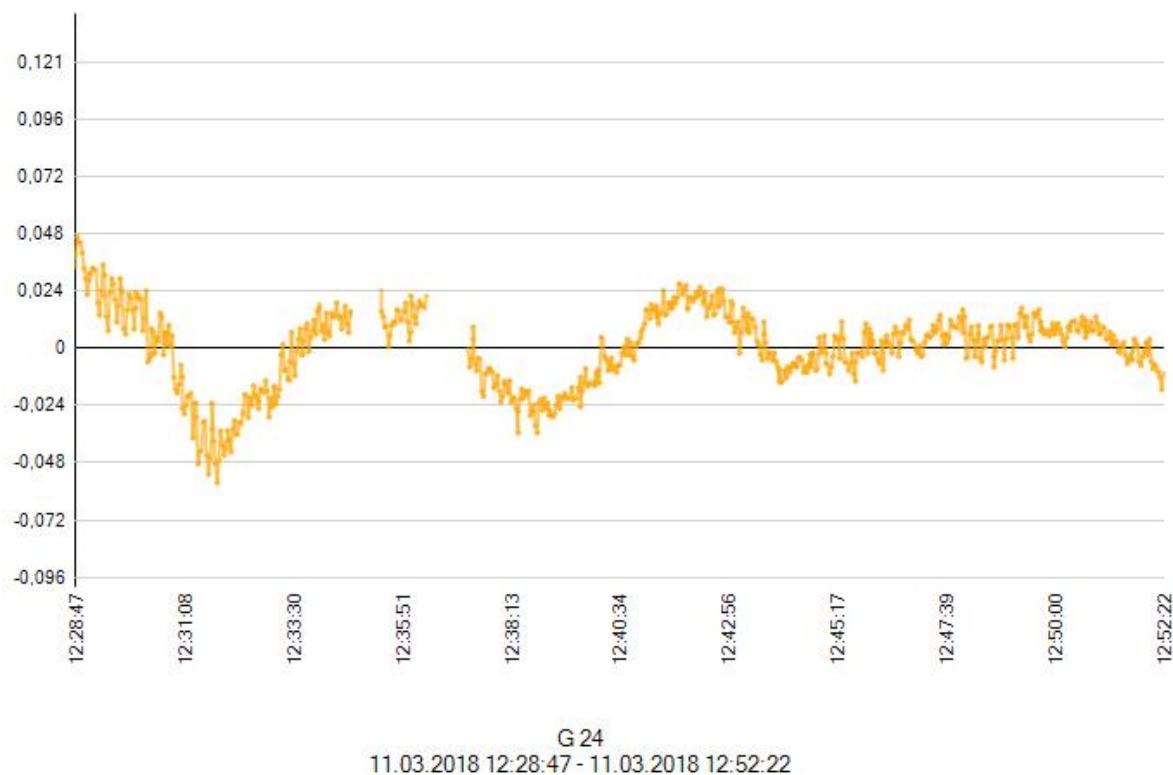
**Mean = -0,020 m Std. Dev. = 0,021 m Min. = -0,049 m Max. = 0,011 m**



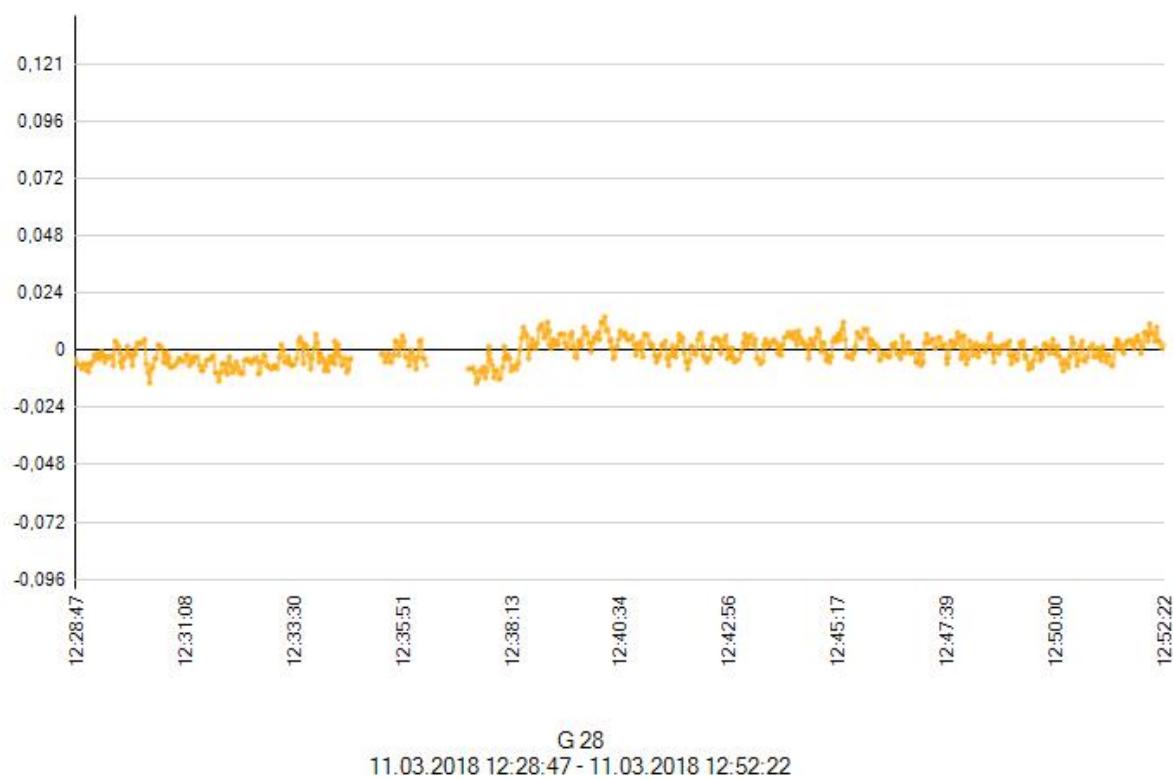
**Mean = -0,004 m Std. Dev. = 0,030 m Min. = -0,078 m Max. = 0,094 m**



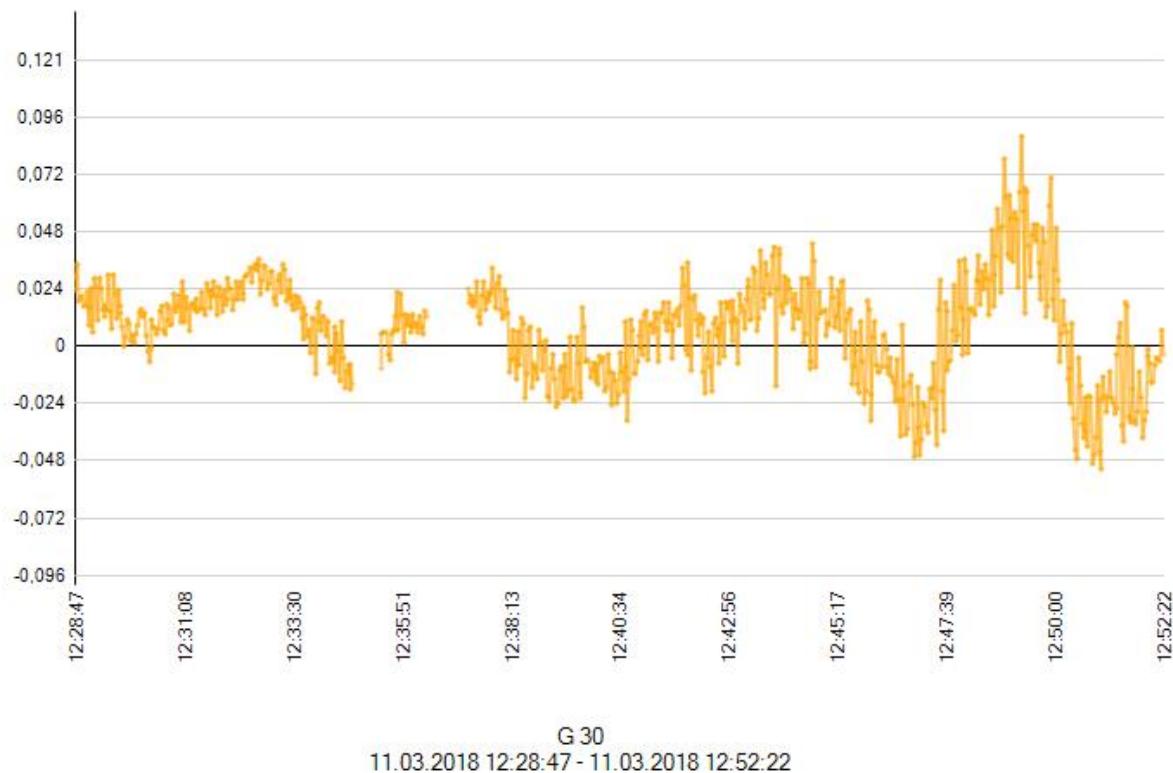
**Mean = 0,000 m Std. Dev. = 0,015 m Min. = -0,056 m Max. = 0,047 m**



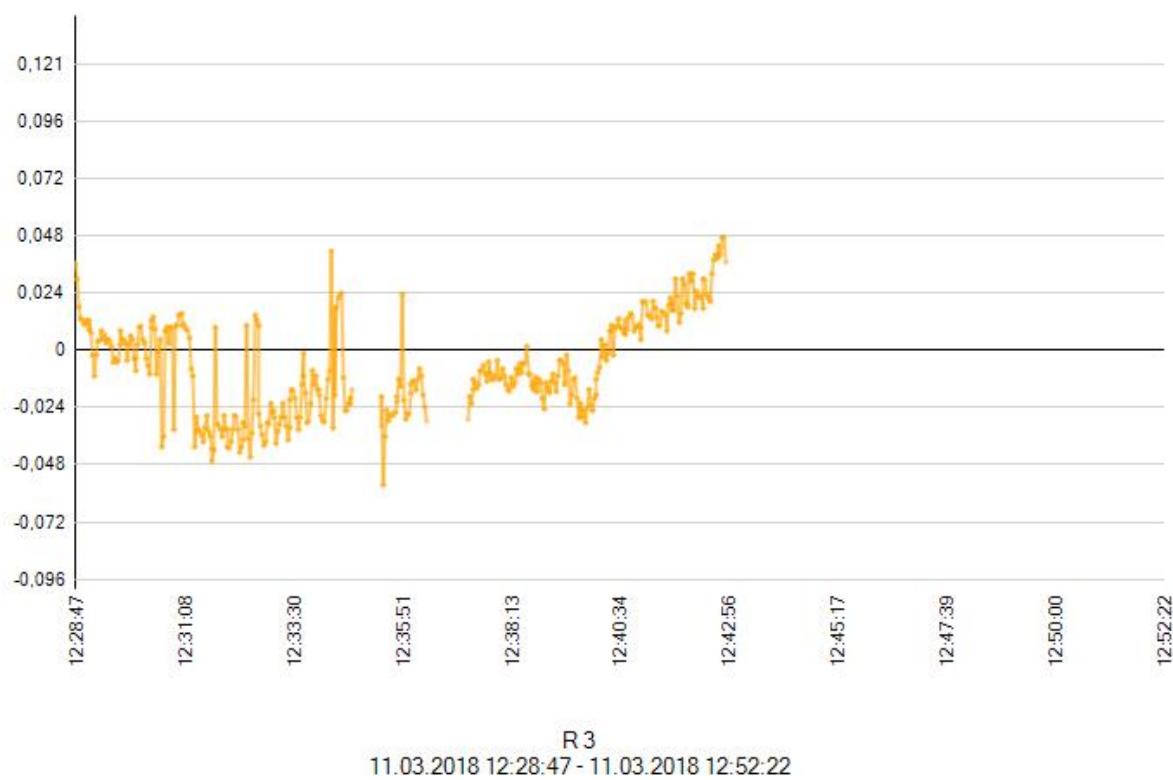
**Mean = 0,000 m Std. Dev. = 0,004 m Min. = -0,014 m Max. = 0,014 m**



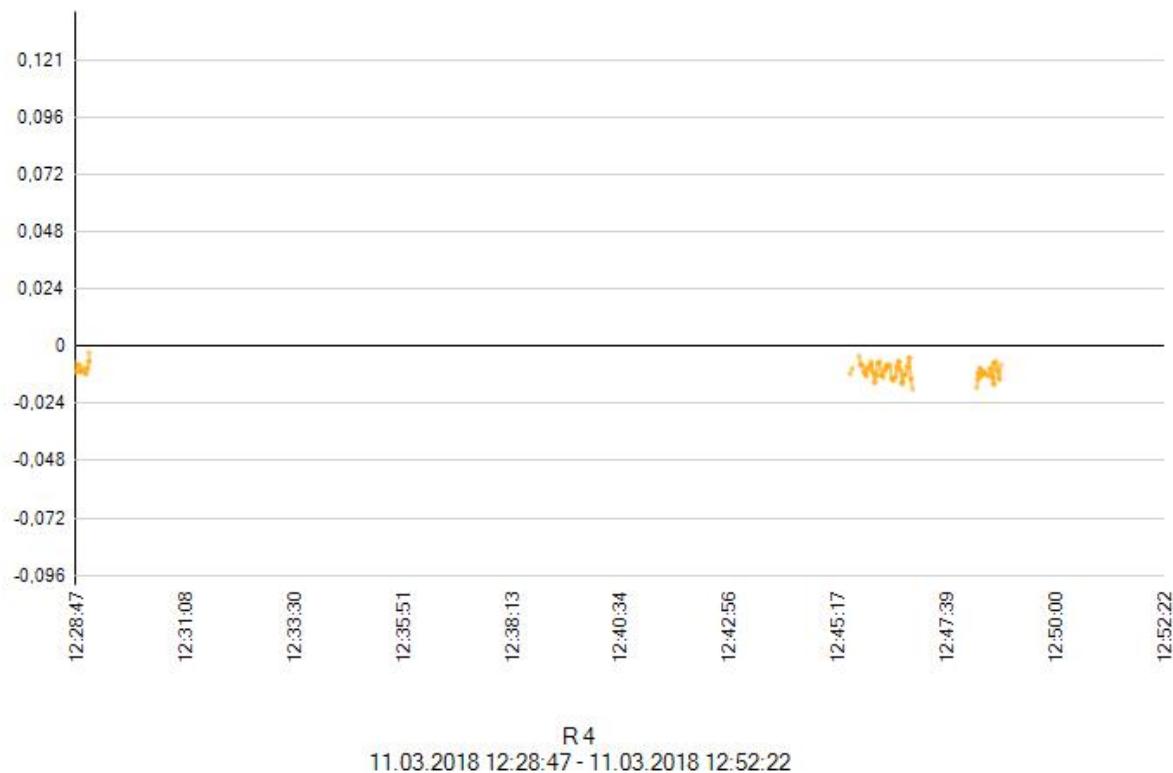
**Mean = 0,006 m Std. Dev. = 0,019 m Min. = -0,051 m Max. = 0,089 m**



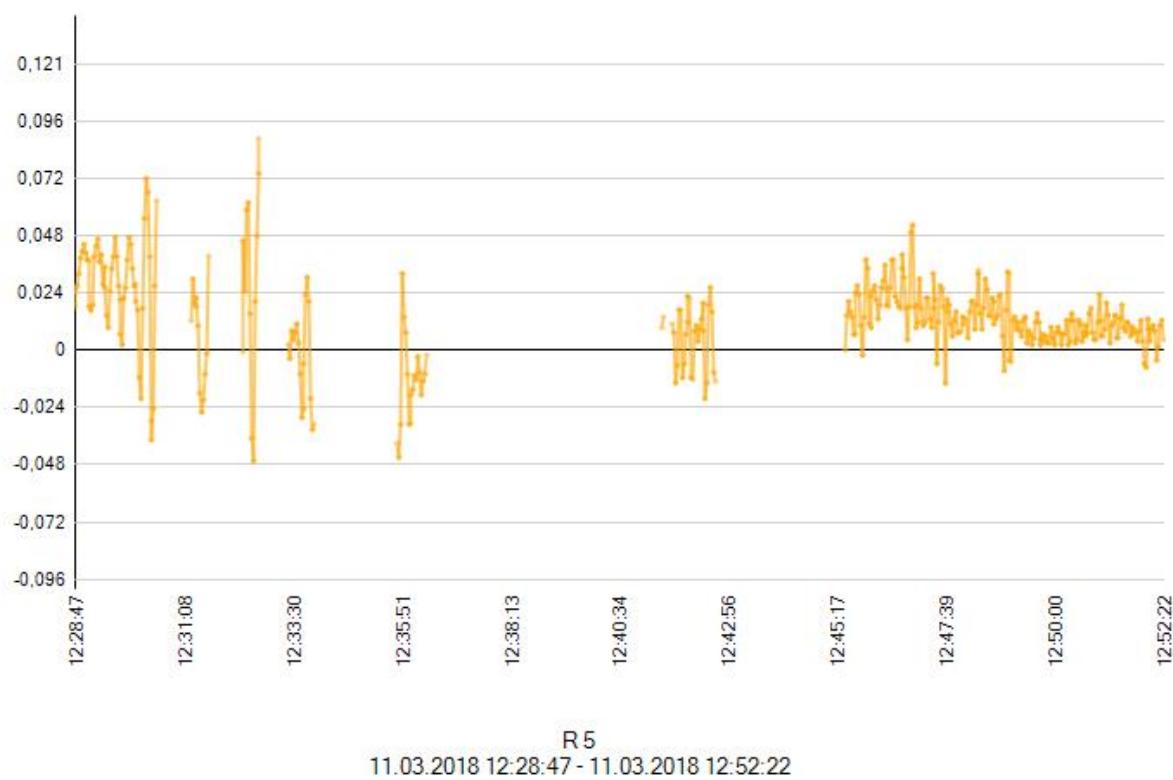
**Mean = -0,006 m Std. Dev. = 0,019 m Min. = -0,056 m Max. = 0,048 m**



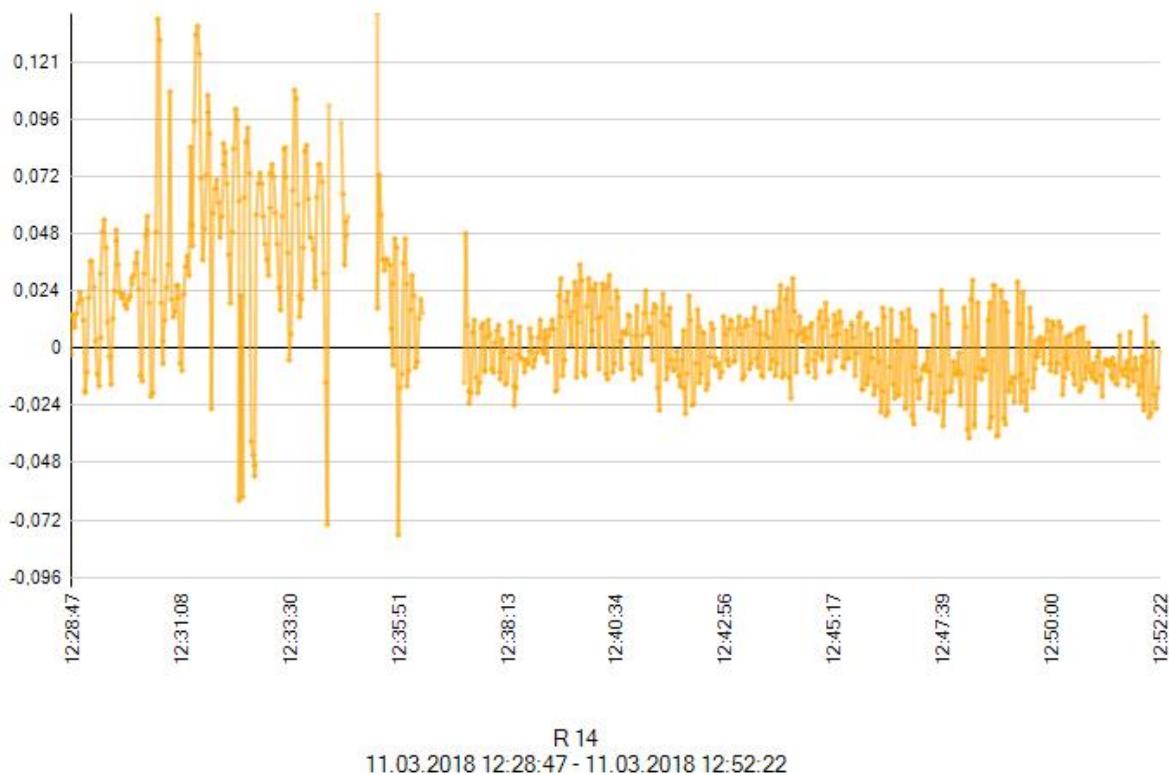
**Mean = -0,009 m Std. Dev. = 0,003 m Min. = -0,018 m Max. = 0,000 m**



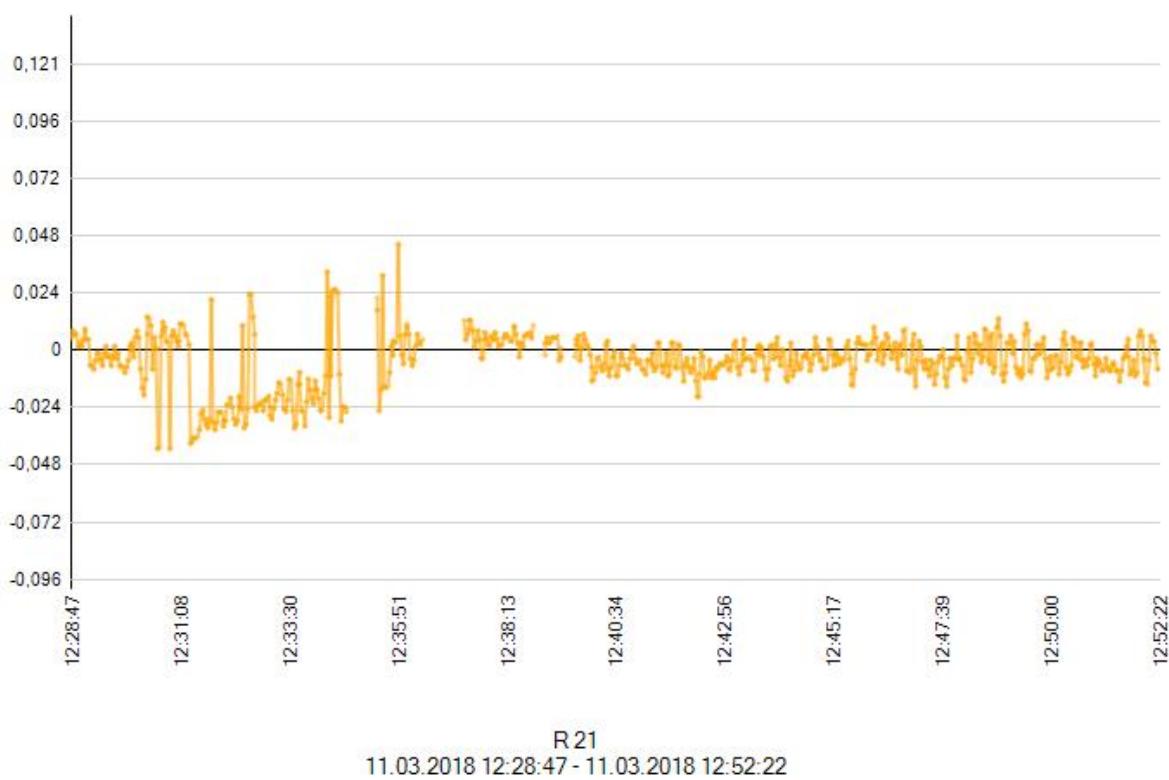
**Mean = 0,011 m Std. Dev. = 0,017 m Min. = -0,046 m Max. = 0,089 m**

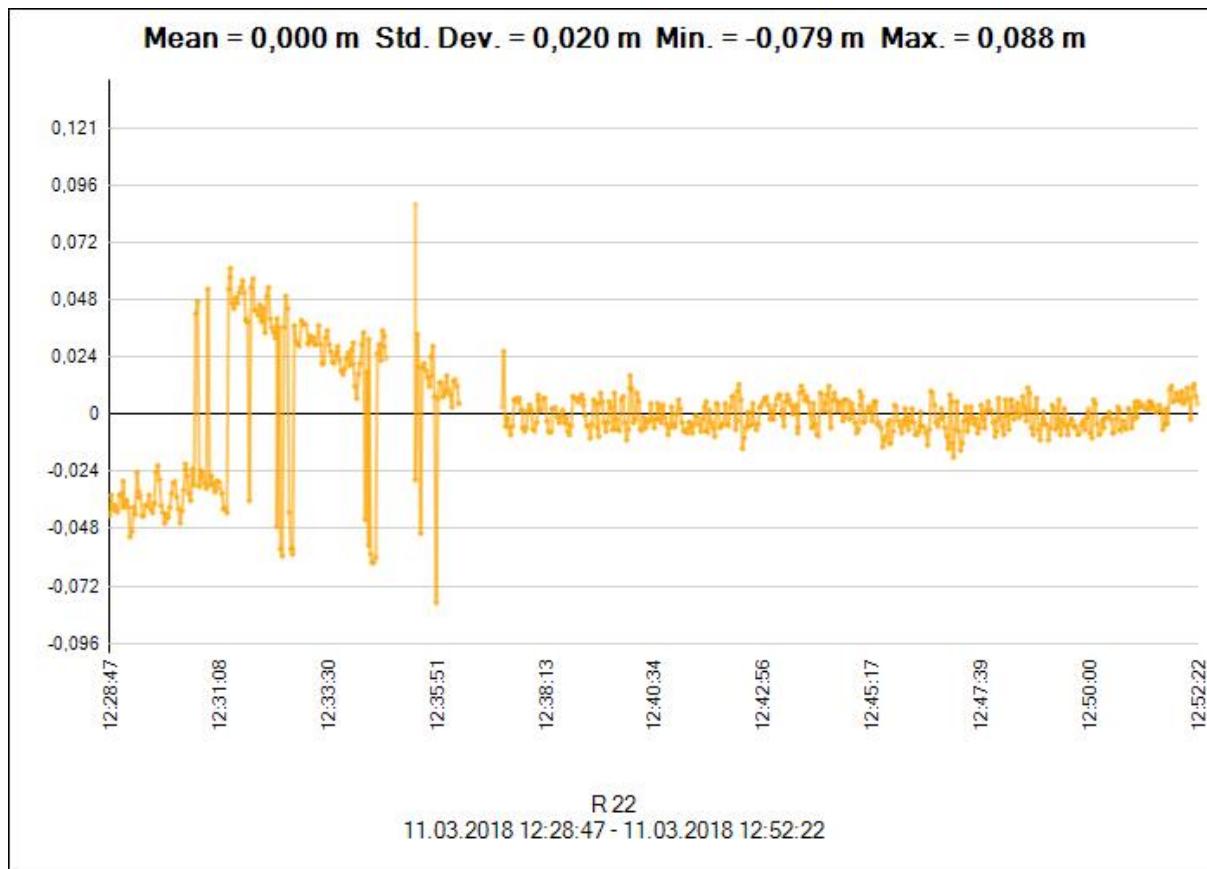


**Mean = 0,009 m Std. Dev. = 0,028 m Min. = -0,078 m Max. = 0,141 m**



**Mean = -0,004 m Std. Dev. = 0,010 m Min. = -0,042 m Max. = 0,045 m**





### 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: Multiple Frequencies  
 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

LYRS - T5 (14:16:05-14:31:07) (S1)

Baseline observation: LYRS --- T5 (B1)  
 Processed: 23.03.2018 14:28:43  
 Solution type: Fixed  
 Frequency used: Dual Frequency (L1, L2)  
 Horizontal precision: 0,012 m  
 Vertical precision: 0,029 m  
 RMS: 0,001 m  
 Maximum PDOP: 1,730  
 Ephemeris used: Broadcast  
 Antenna model: Trimble Calibration  
 Processing start time: 11.03.2018 14:16:05 (Local: UTC+1hr)  
 Processing stop time: 11.03.2018 14:31:07 (Local: UTC+1hr)  
 Processing duration: 12:15:02 AM  
 Processing interval: 1 second

Vector Components (Mark to Mark)

From:	LYRS				
Grid		Local		Global	
Easting	509048,138 m	Latitude	N78°13'43,77230"	Latitude	N78°13'43,77230"
Northing	8683937,568 m	Longitude	E15°23'50,31623"	Longitude	E15°23'50,31623"
Elevation	495,682 m	Height	495,682 m	Height	495,682 m

To:	T5				
Grid		Local		Global	
Easting	526692,264 m	Latitude	N78°15'12,93647"	Latitude	N78°15'12,93647"
Northing	8686938,886 m	Longitude	E16°10'28,48311"	Longitude	E16°10'28,48311"
Elevation	535,786 m	Height	535,786 m	Height	535,786 m

Vector					
9Ughjb[	17644,126 m	NS Fwd Azimuth	80°44'07"	L	-7410,212 m
Bcfh]b[	3001,318 m	Ellipsoid Dist.	17904,659 m	M	16289,727 m
9Yj Uhcb	40,104 m	<Y]\h	40,104 m	N	602,845 m

## Standard Errors

Vector errors:

9Ughb[	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	0,003 m
9`Yj Uhcb	0,015 m	<Y][\h	0,015 m	N	0,015 m

## Aposteriori Covariance Matrix (Meter<sup>2</sup>)

	X	Y	Z
X	0,0000098173		
Y	0,0000014109	0,0000110099	
Z	-0,0000037757	-0,0000095298	0,0002299698

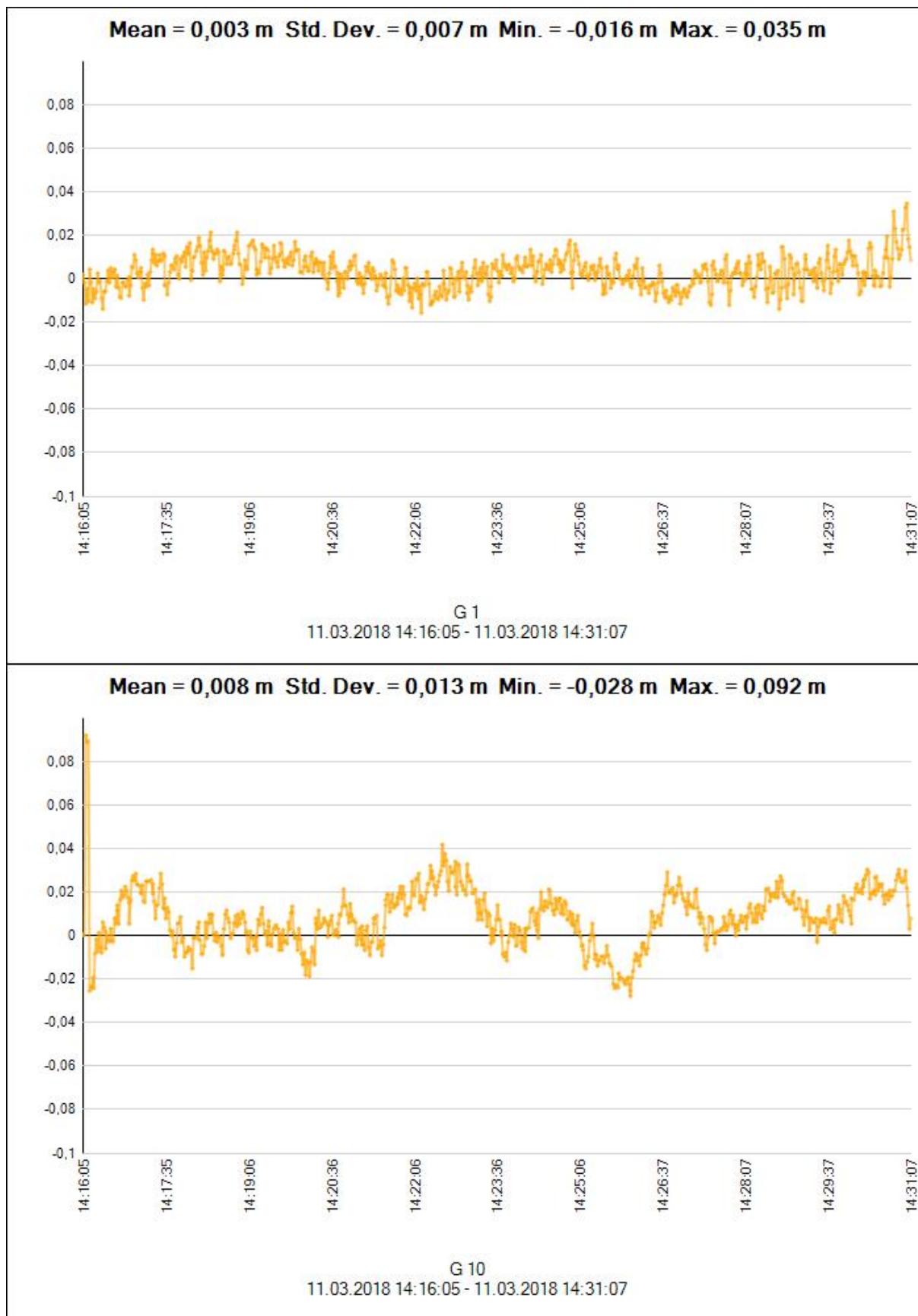
## Occupations

	From	To
Point ID:	LYRS	T5
Data file:	C:\Users\lth842\Documents\Trimble Business Center\Unnamed(1)\lyrs0700.18o	C:\Users\lth842\Documents\Trimble Business Center\Unnamed(1)\46250707.t02
Receiver type:	NetR9	R4
Receiver serial number:	5504R50012	5127468778
Antenna type:	Zephyr Geodetic	R4 Internal
Antenna serial number:	60111442	47477114
Antenna height (measured):	0,000 m	2,440 m
Antenna method:	Bottom of antenna mount	Bottom of antenna mount

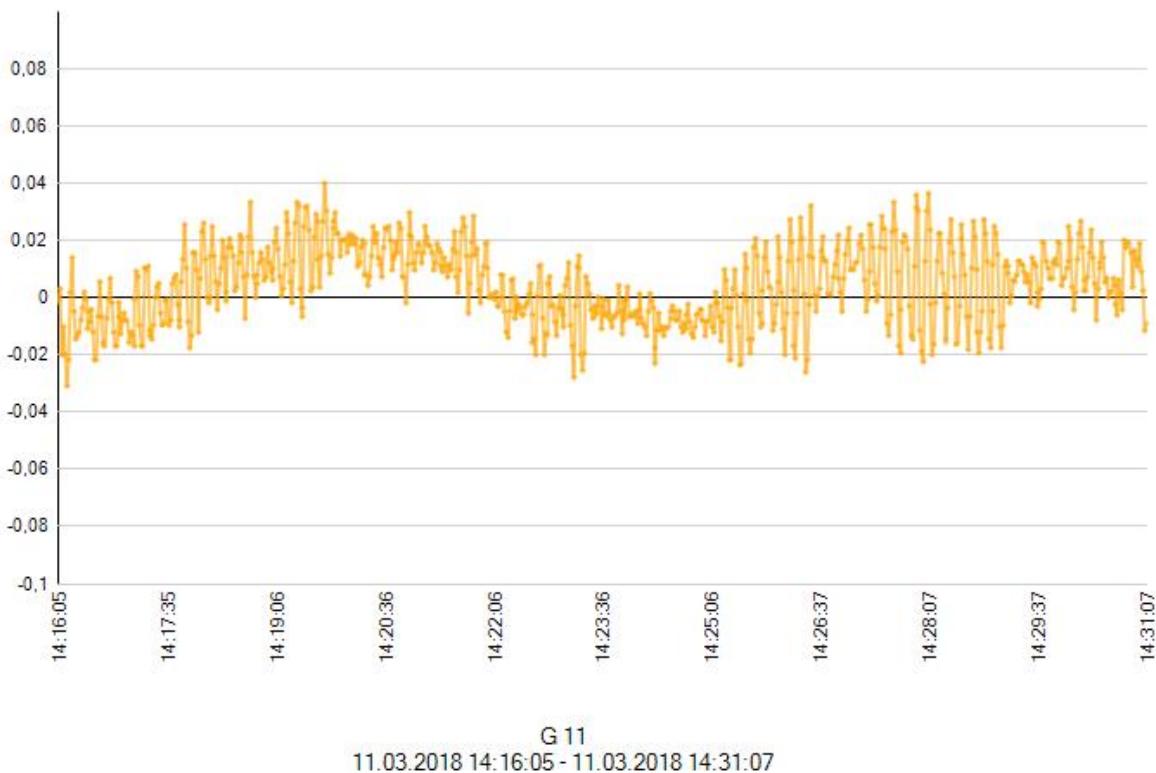
## Tracking Summary

SV	11.03.2018 14:16:05	Duration: 00:15:02	Major interval: 00:01:00	11.03.2018 14:31:07
G 1	L1 L2			
G 10	L1 L2			
G 11	L1 L2			
G 12	L1 L2			
G 15	L1 L2			
G 17	L1 L2			
G 19	L1 L2			
G 22	L1 L2			
G 24	L1 L2			
G 28	L1 L2			
G 32	L1 L2			
R 5	L1 L2			
R 6	L1 L2			
R 13	L1 L2			
R 14	L1 L2			
R 15	L1 L2			
R 22	L1 L2			
R 23	L1 L2			

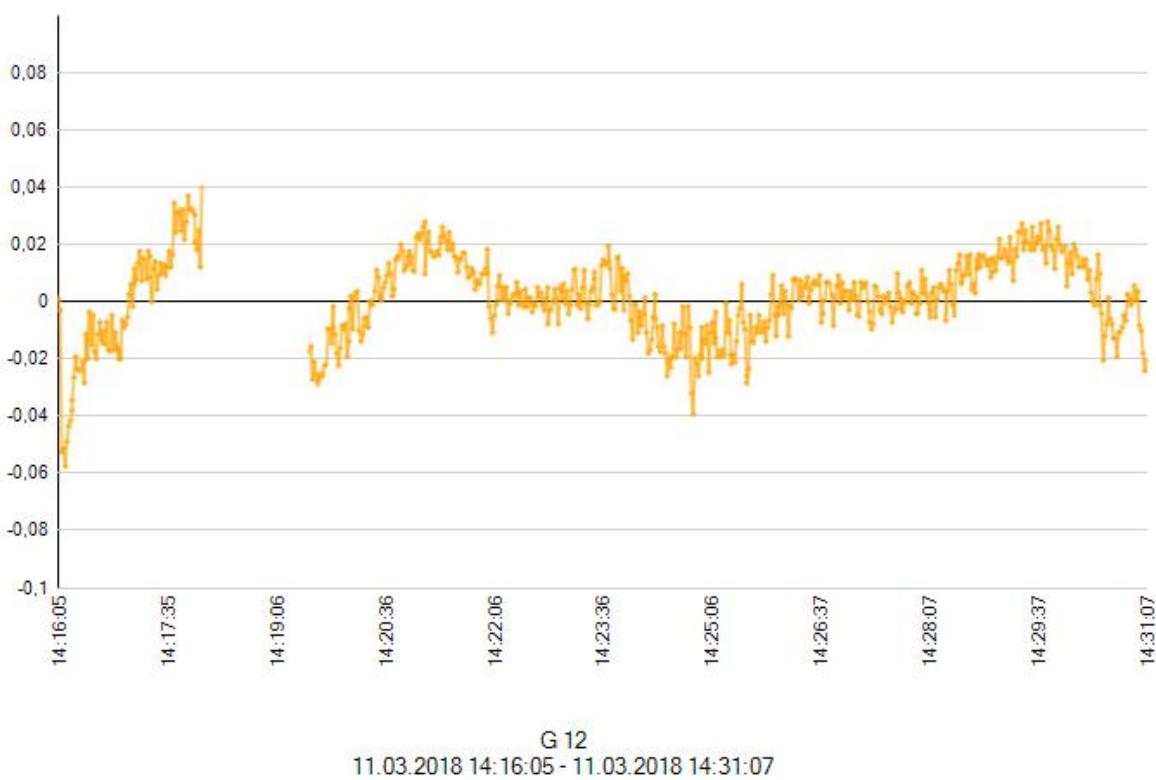
## Residuals



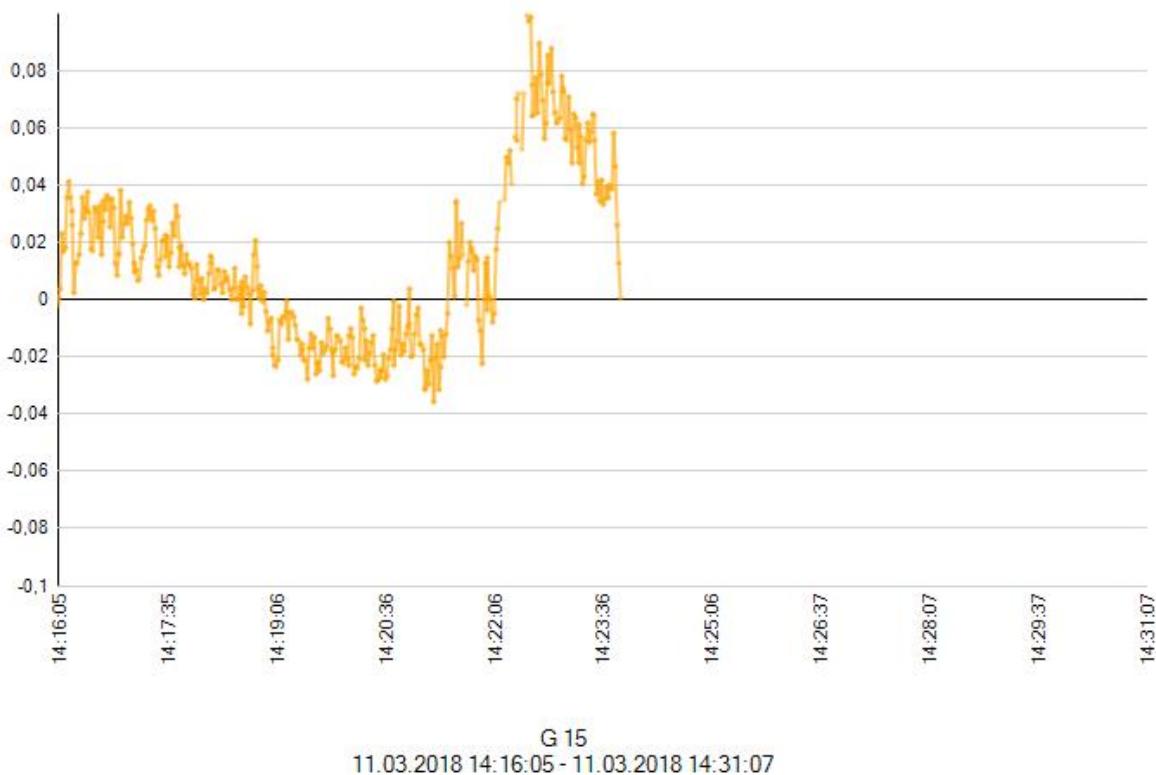
**Mean = 0,004 m Std. Dev. = 0,013 m Min. = -0,031 m Max. = 0,040 m**



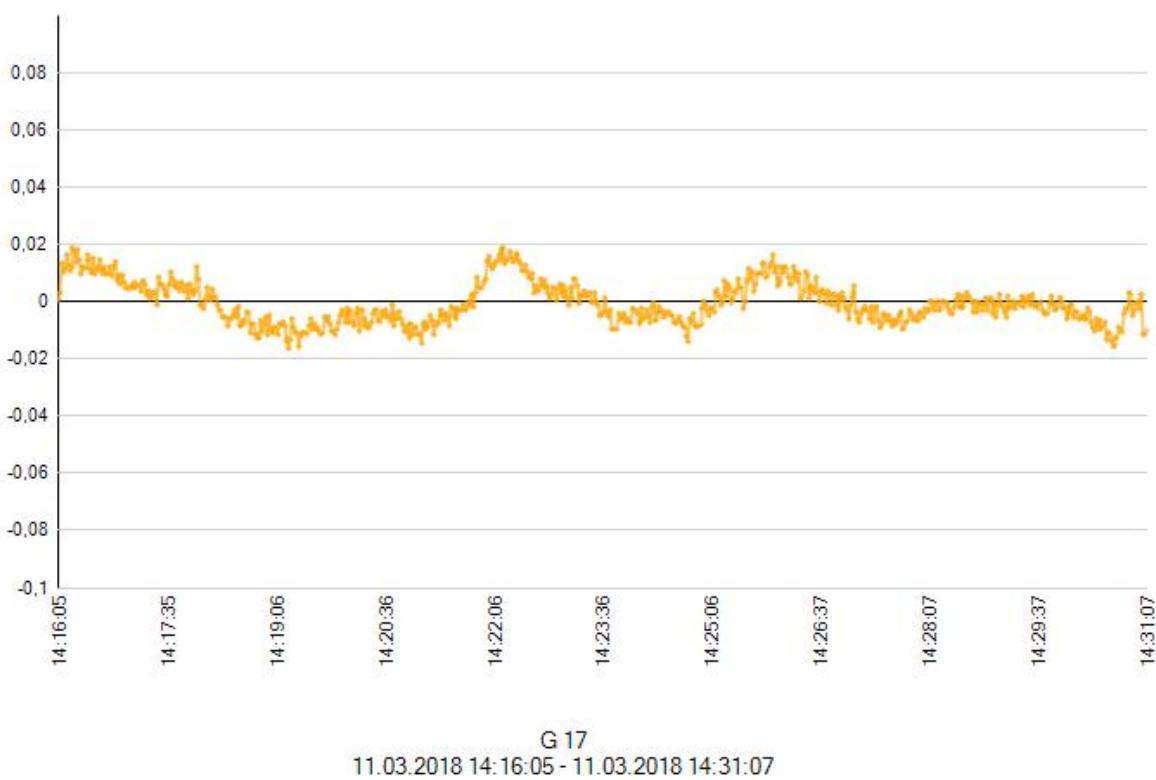
**Mean = 0,001 m Std. Dev. = 0,014 m Min. = -0,057 m Max. = 0,040 m**



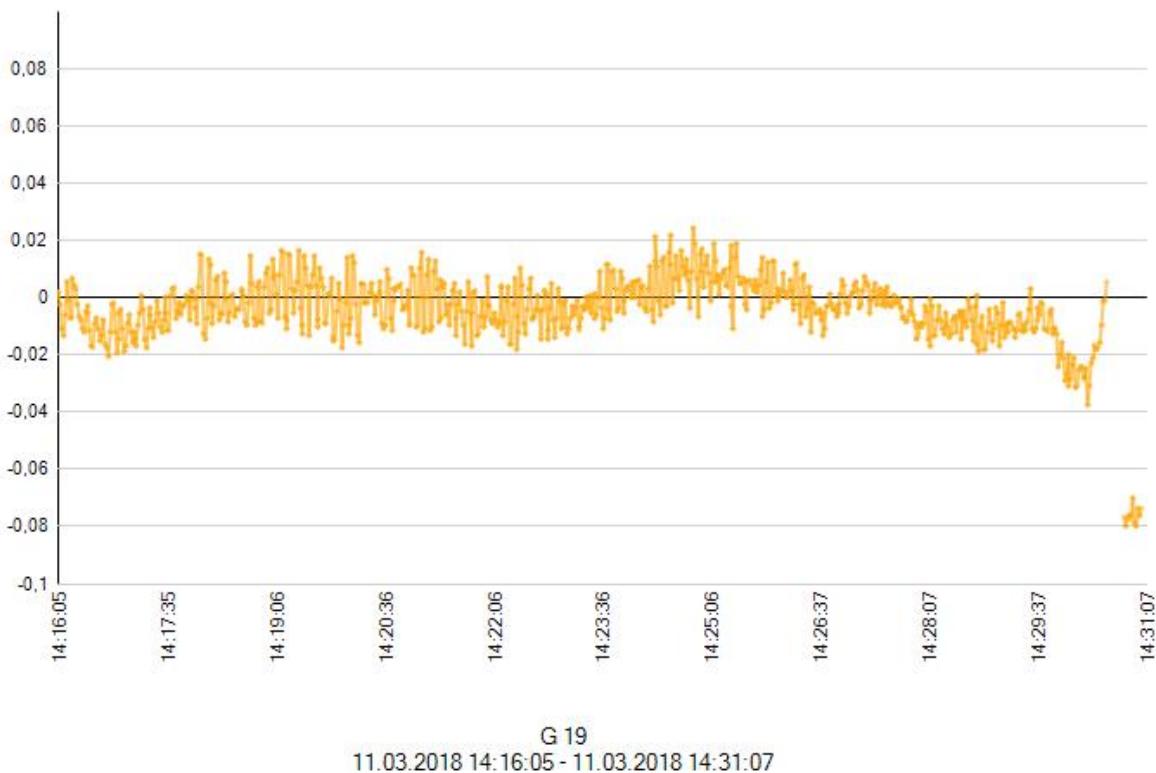
**Mean = 0,012 m Std. Dev. = 0,029 m Min. = -0,036 m Max. = 0,099 m**



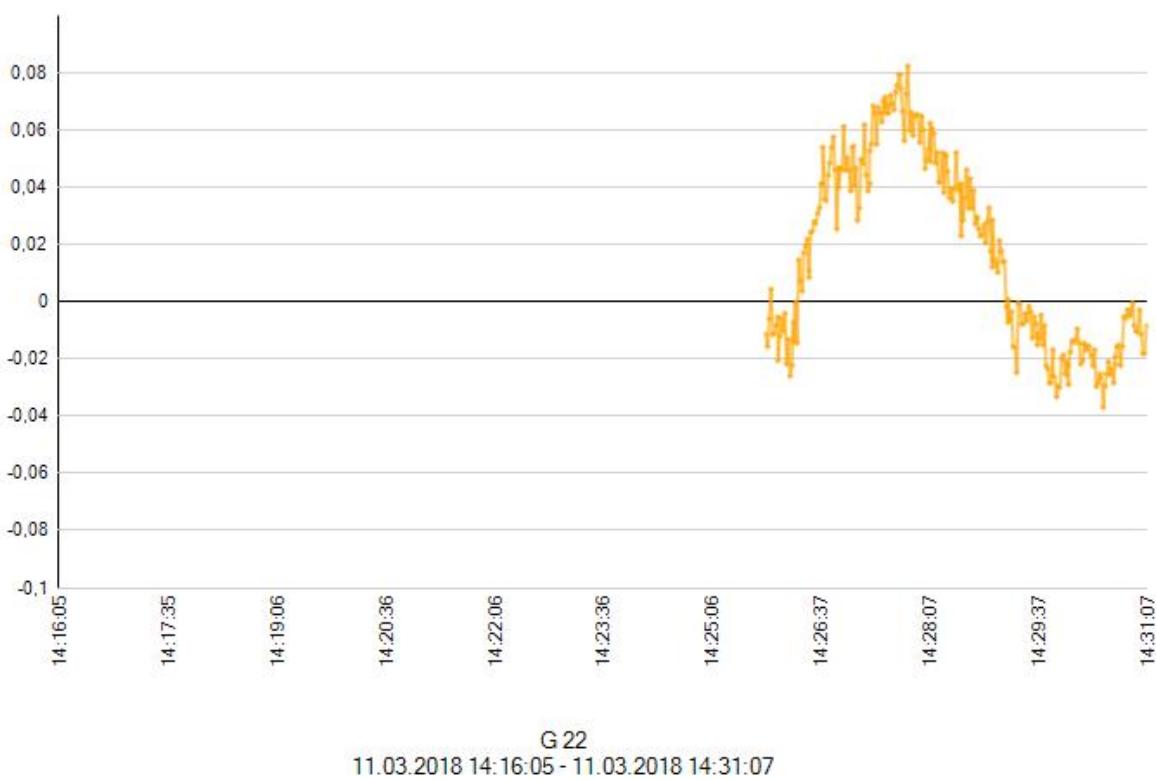
**Mean = -0,001 m Std. Dev. = 0,007 m Min. = -0,016 m Max. = 0,019 m**



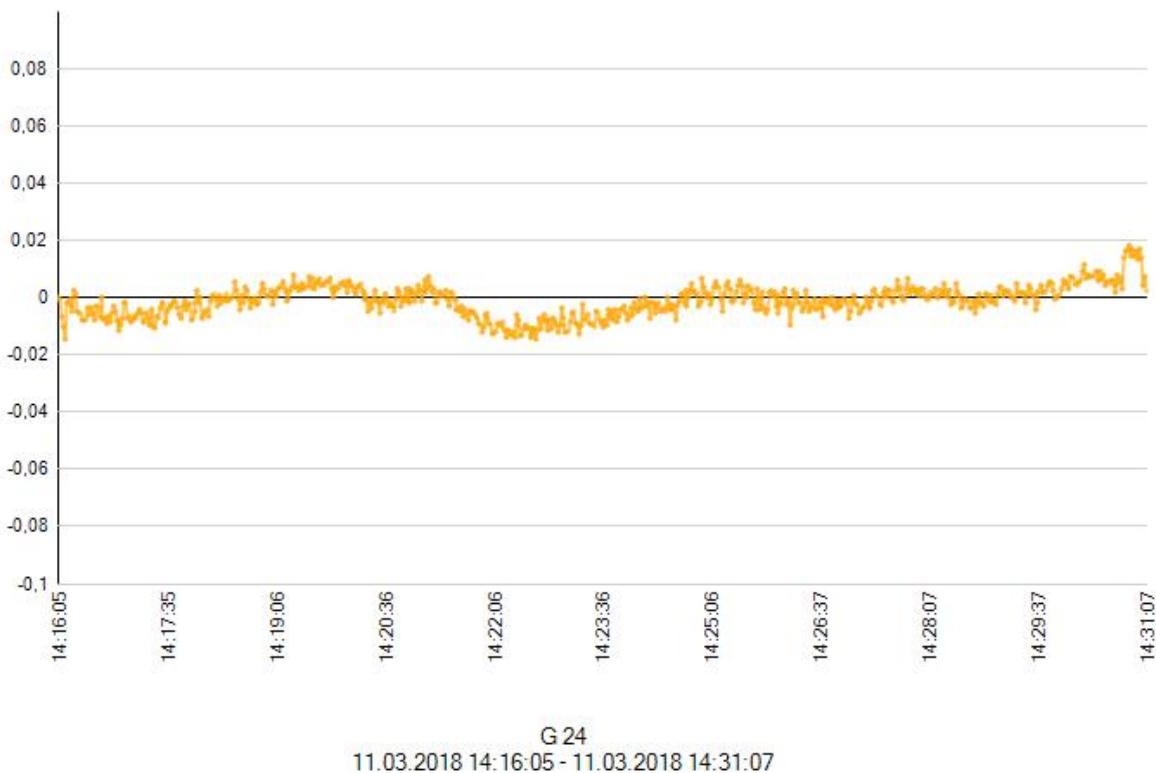
**Mean = -0,004 m Std. Dev. = 0,013 m Min. = -0,080 m Max. = 0,024 m**



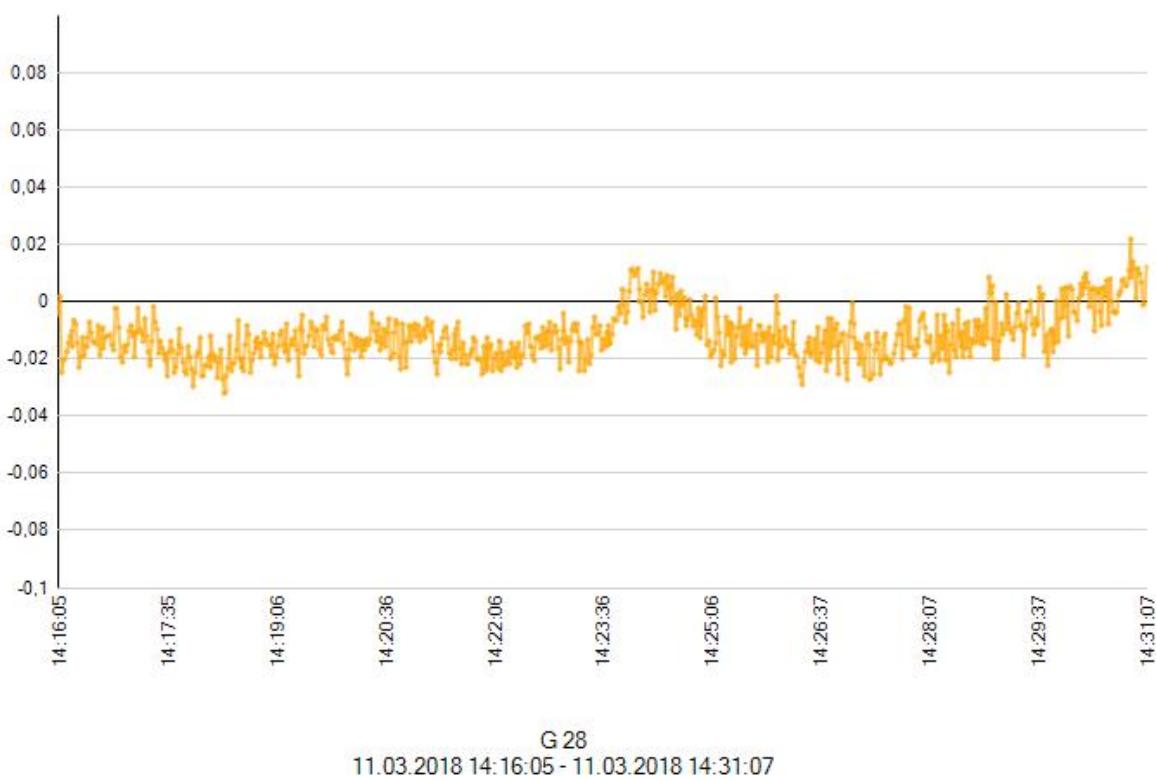
**Mean = 0,017 m Std. Dev. = 0,032 m Min. = -0,037 m Max. = 0,082 m**



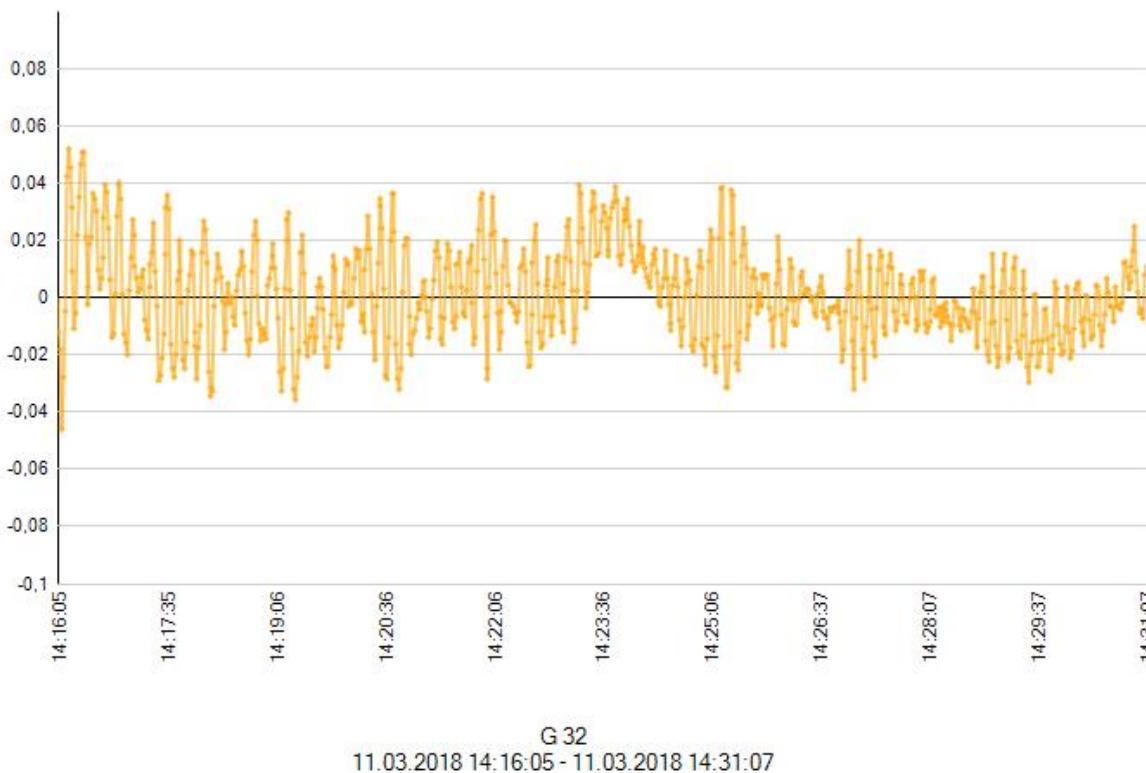
**Mean = -0,001 m Std. Dev. = 0,005 m Min. = -0,015 m Max. = 0,018 m**



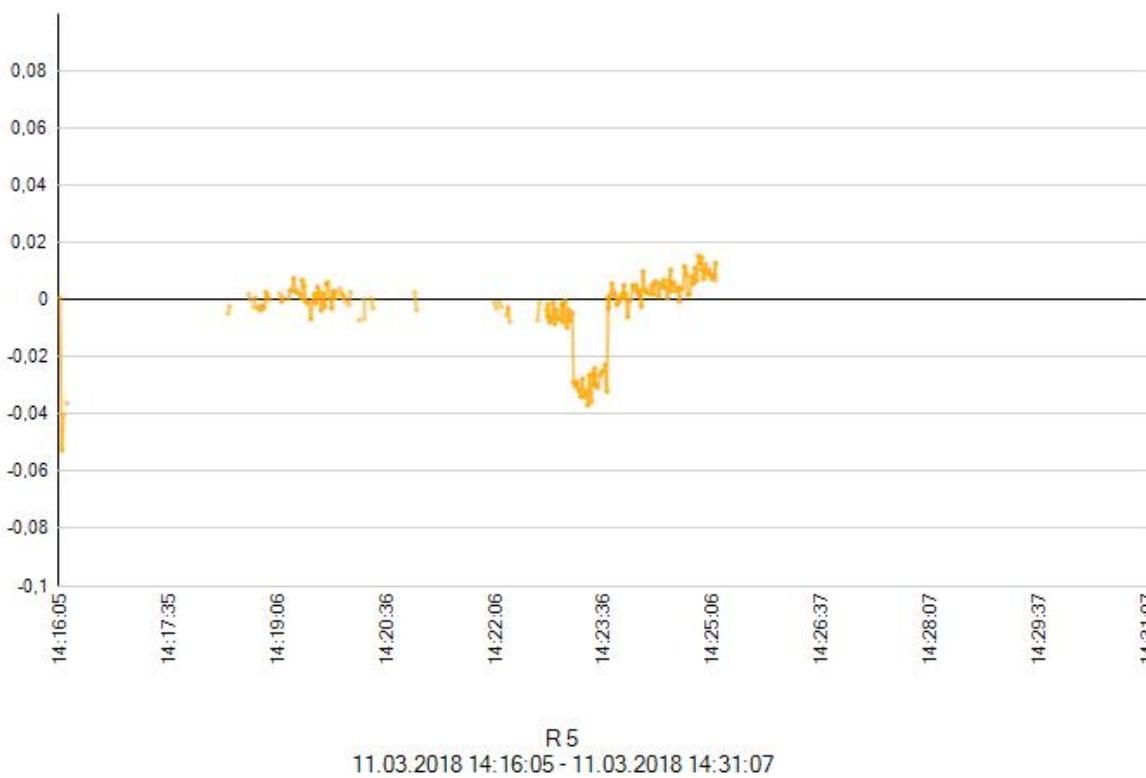
**Mean = -0,011 m Std. Dev. = 0,008 m Min. = -0,032 m Max. = 0,022 m**



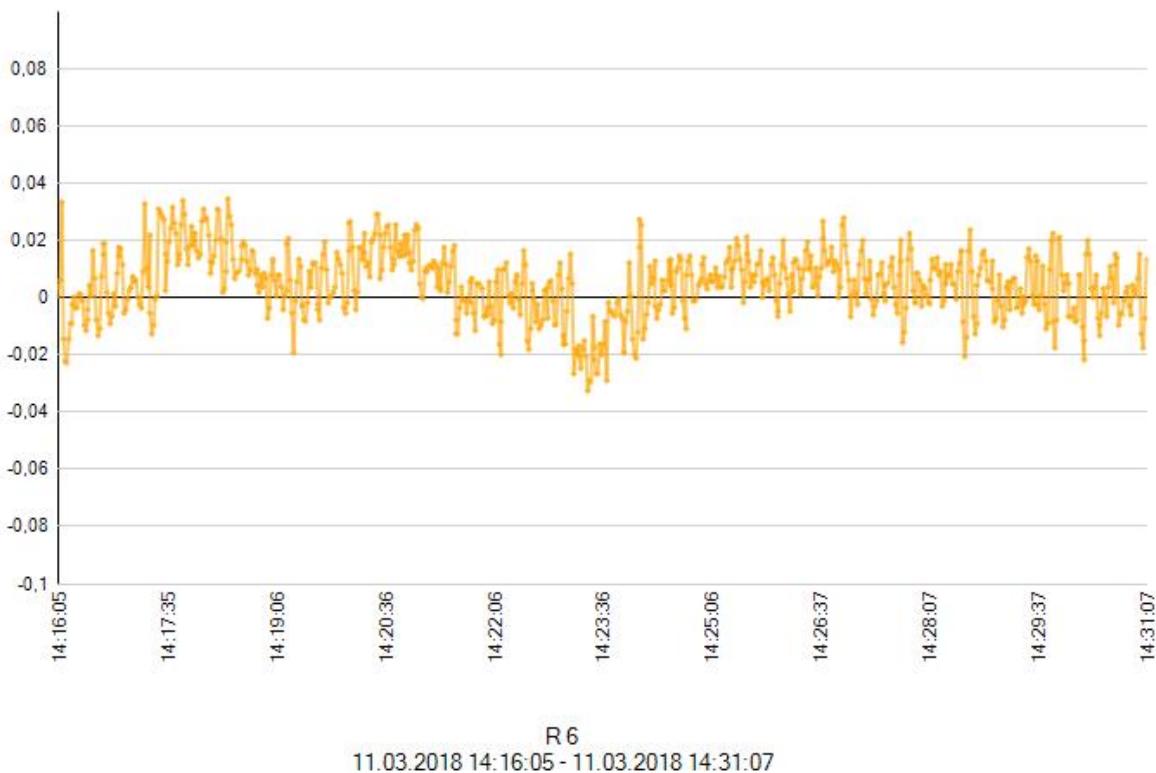
**Mean = 0,001 m Std. Dev. = 0,016 m Min. = -0,046 m Max. = 0,052 m**



**Mean = -0,003 m Std. Dev. = 0,012 m Min. = -0,053 m Max. = 0,015 m**



**Mean = 0,004 m Std. Dev. = 0,011 m Min. = -0,032 m Max. = 0,034 m**



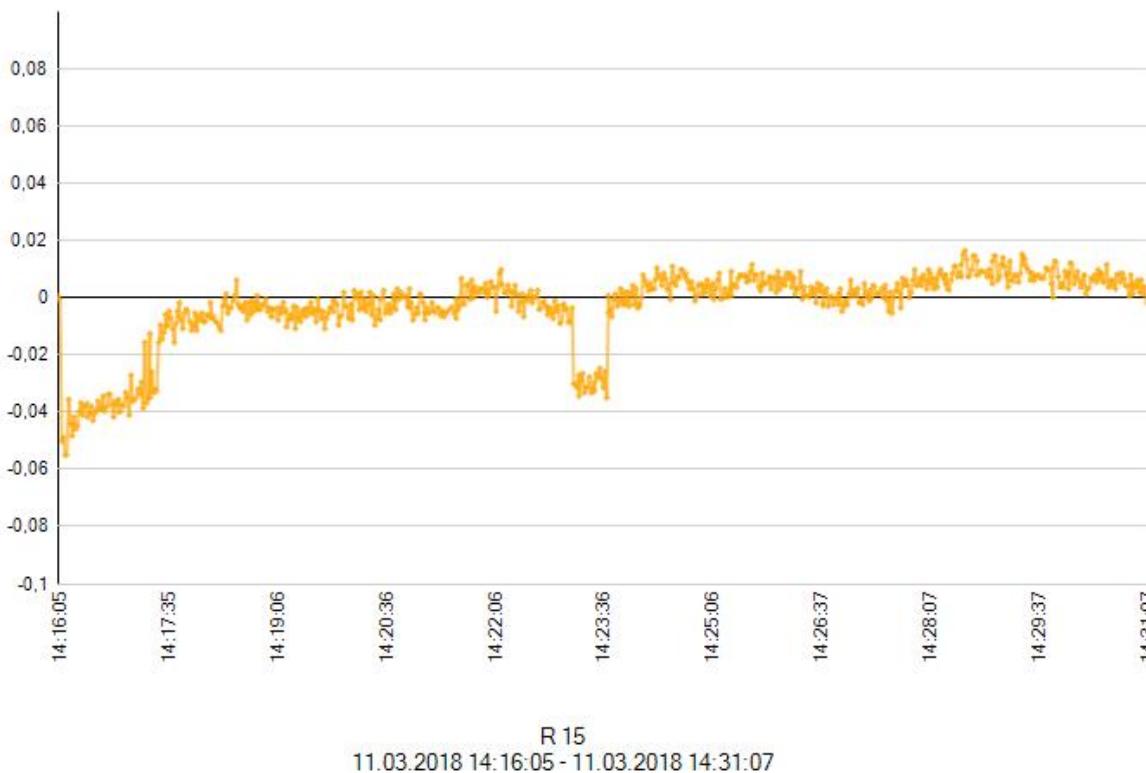
R6  
11.03.2018 14:16:05 - 11.03.2018 14:31:07

**Mean = 0,006 m Std. Dev. = 0,007 m Min. = -0,022 m Max. = 0,040 m**

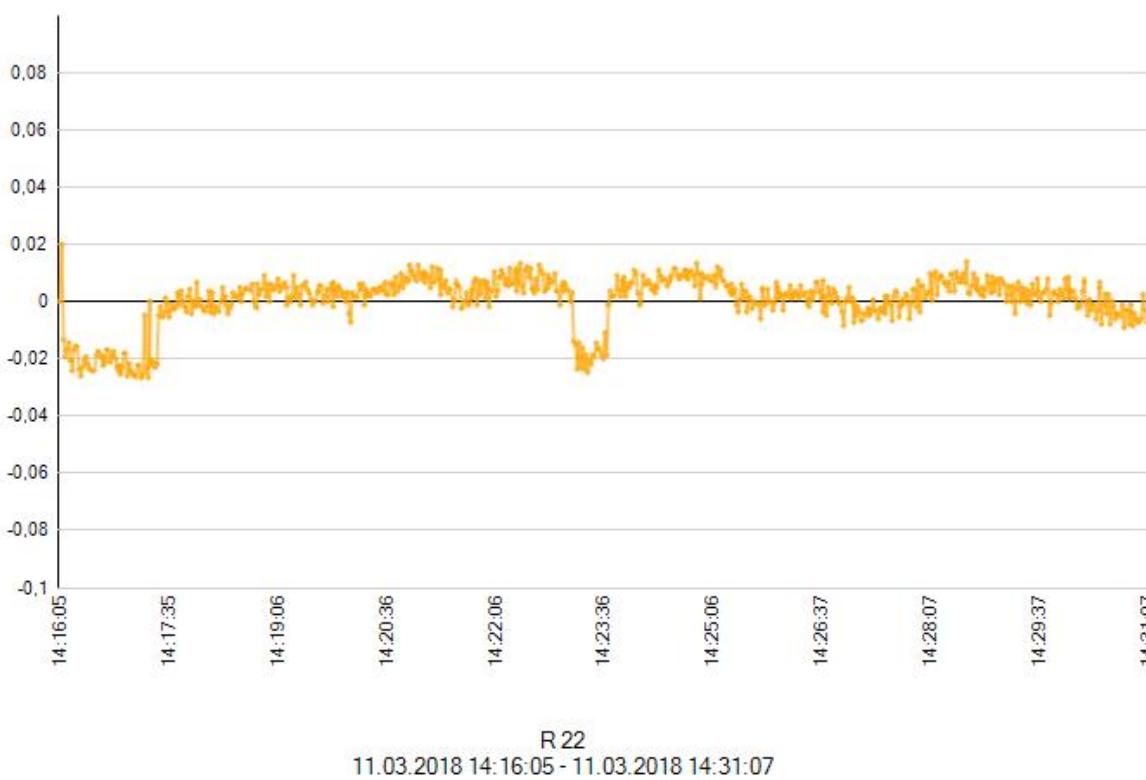


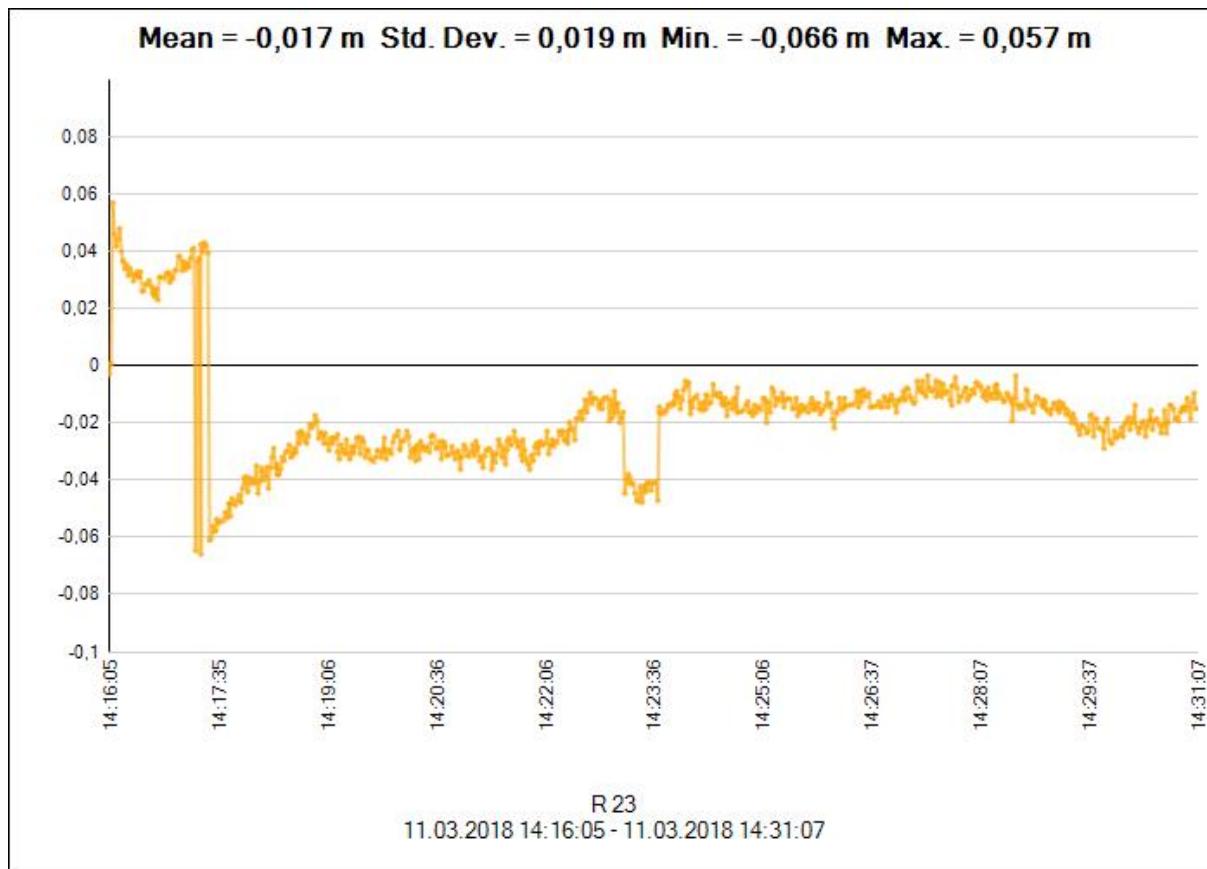
R14  
11.03.2018 14:16:05 - 11.03.2018 14:31:07

**Mean = -0,003 m Std. Dev. = 0,013 m Min. = -0,055 m Max. = 0,016 m**



**Mean = 0,000 m Std. Dev. = 0,009 m Min. = -0,027 m Max. = 0,020 m**





## 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: Multiple Frequencies  
 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

LYRS - T4 (13:51:59-14:07:00) (S3)

Baseline observation: LYRS --- T4 (B3)  
 Processed: 23.03.2018 14:28:53  
 Solution type: Fixed  
 Frequency used: Dual Frequency (L1, L2)  
 Horizontal precision: 0,009 m  
 Vertical precision: 0,026 m  
 RMS: 0,001 m  
 Maximum PDOP: 1,795  
 Ephemeris used: Broadcast  
 Antenna model: Trimble Calibration  
 Processing start time: 11.03.2018 13:51:59 (Local: UTC+1hr)  
 Processing stop time: 11.03.2018 14:07:00 (Local: UTC+1hr)  
 Processing duration: 12:15:01 AM  
 Processing interval: 1 second

Vector Components (Mark to Mark)

From:	LYRS				
Grid		Local		Global	
Easting	509048,138 m	Latitude	N78°13'43,77230"	Latitude	N78°13'43,77230"
Northing	8683937,568 m	Longitude	E15°23'50,31623"	Longitude	E15°23'50,31623"
Elevation	495,682 m	Height	495,682 m	Height	495,682 m

To:	T4				
Grid		Local		Global	
Easting	527123,961 m	Latitude	N78°15'19,10756"	Latitude	N78°15'19,10756"
Northing	8687138,972 m	Longitude	E16°11'37,49805"	Longitude	E16°11'37,49805"
Elevation	487,983 m	Height	487,983 m	Height	487,983 m

Vector					
9Ughjb[	18075,823 m	NS Fwd Azimuth	80°20'44"	L	-7721,009 m
Bcfh]b[	3201,403 m	Ellipsoid Dist.	18364,400 m	M	16653,373 m
9Yj Uhcb	-7,698 m	<Y][\h	-7,698 m	N	595,006 m

## Standard Errors

Vector errors:

9Ughb[	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	0,003 m	M	0,003 m
9`Yj Uhcb	0,013 m	<Y][\h	0,013 m	N	0,013 m

## Aposteriori Covariance Matrix (Meter<sup>2</sup>)

	X	Y	Z
X	0,0000115607		
Y	0,0000035177	0,0000112867	
Z	0,0000159355	0,0000140062	0,0001730836

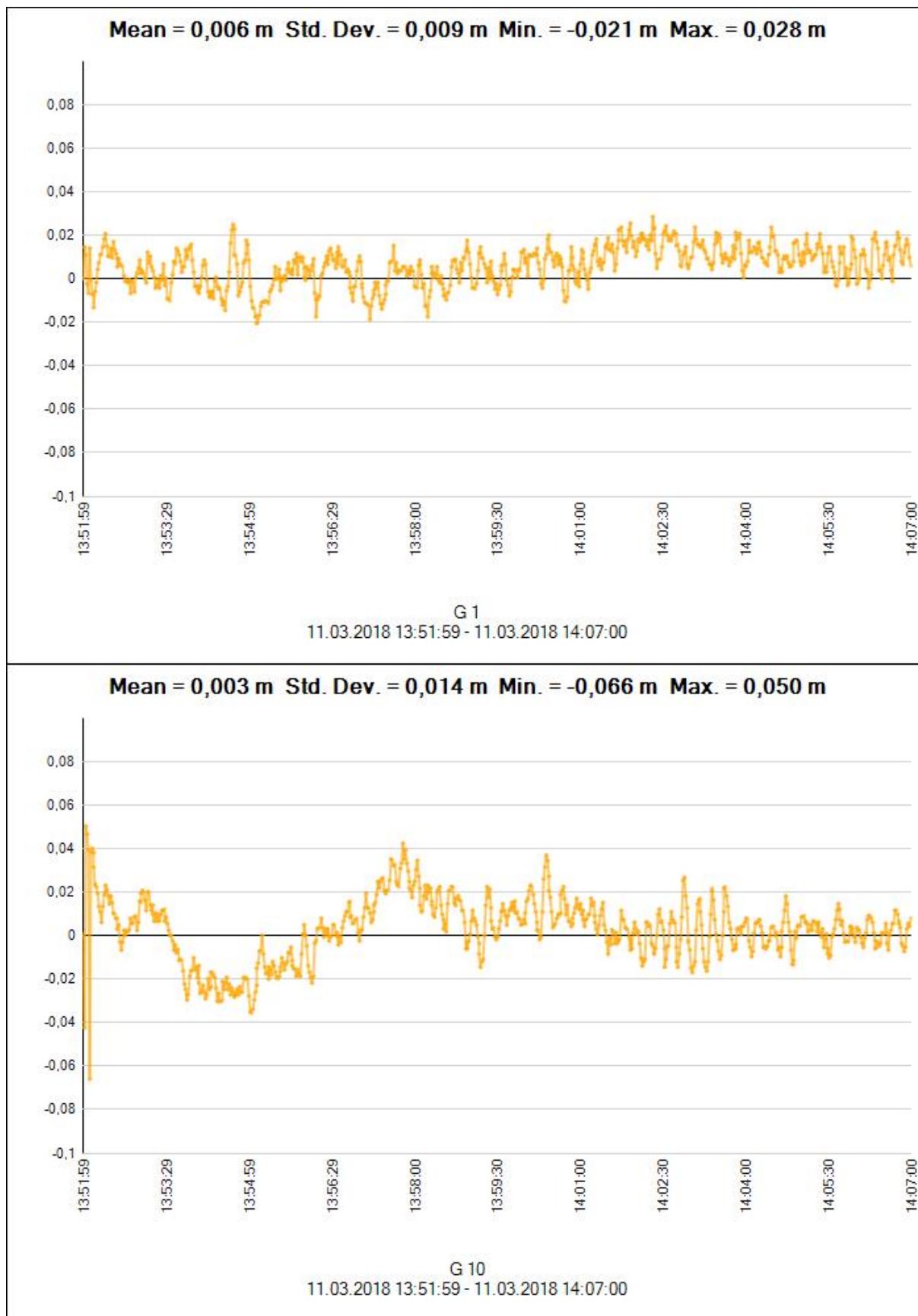
## Occupations

	From	To
Point ID:	LYRS	T4
Data file:	C:\Users\lth842\Documents\Trimble Business Center\Unnamed(1)\lyrs0700.18o	C:\Users\lth842\Documents\Trimble Business Center\Unnamed(1)\46250706.t02
Receiver type:	NetR9	R4
Receiver serial number:	5504R50012	5127468778
Antenna type:	Zephyr Geodetic	R4 Internal
Antenna serial number:	60111442	47477114
Antenna height (measured):	0,000 m	2,420 m
Antenna method:	Bottom of antenna mount	Bottom of antenna mount

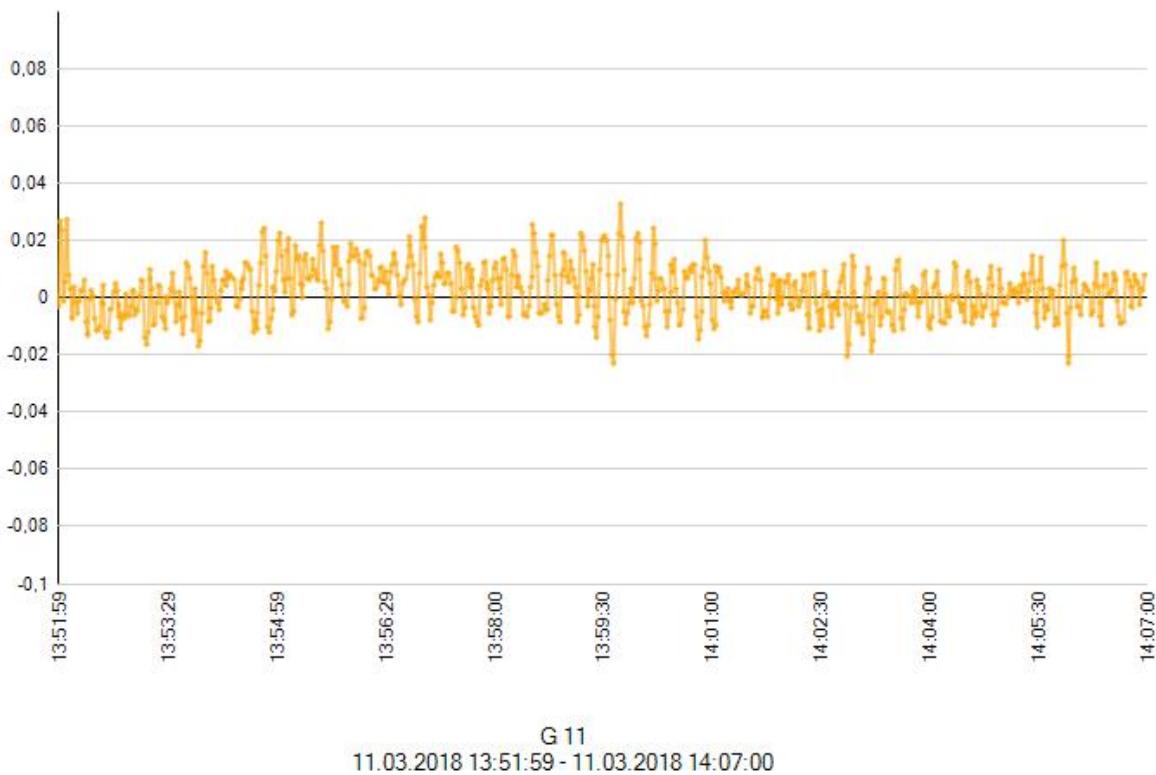
## Tracking Summary

SV	11.03.2018 13:51:59	Duration: 00:15:01	Major interval: 00:01:00	11.03.2018 14:07:00
G 1	L1 L2			
G 10	L1 L2			
G 11	L1 L2			
G 15	L1 L2			
G 17	L1 L2			
G 19	L1 L2			
G 24	L1 L2			
G 28	L1 L2			
G 32	L1 L2			
R 4	L1 L2			
R 5	L1 L2			
R 6	L1 L2			
R 13	L1 L2			
R 14	L1 L2			
R 15	L1 L2			
R 22	L1 L2			
R 23	L1 L2			

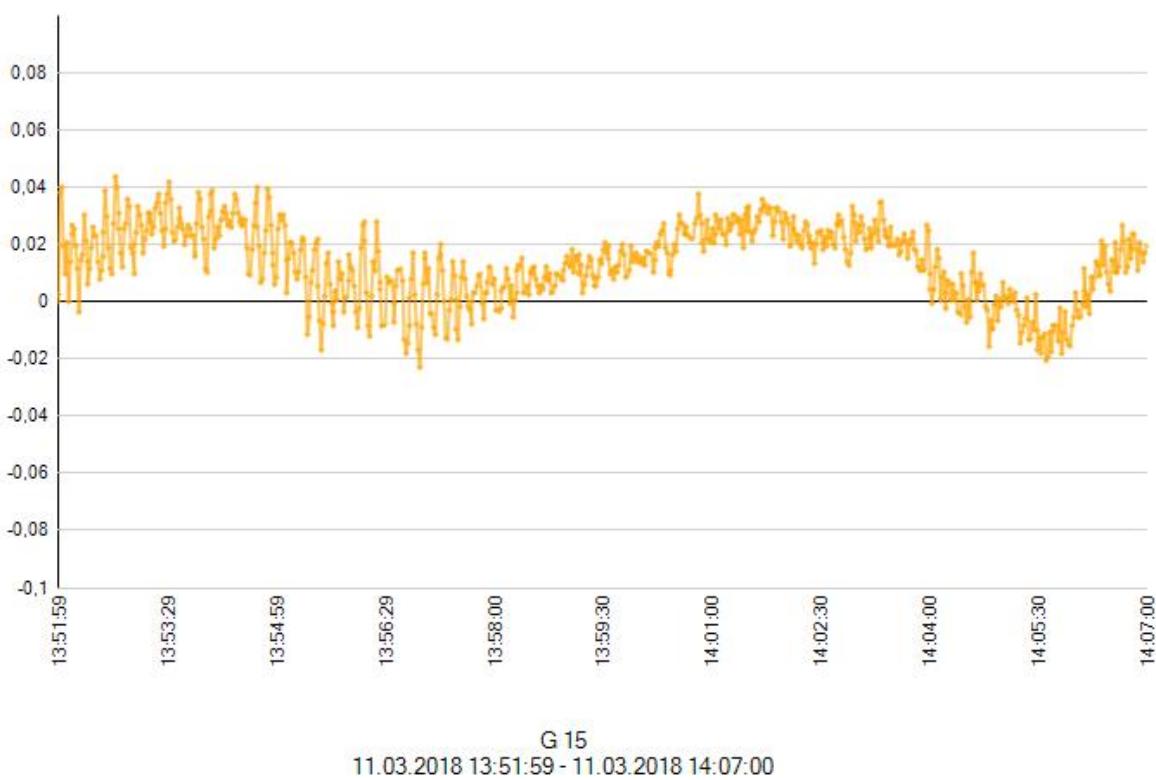
## Residuals



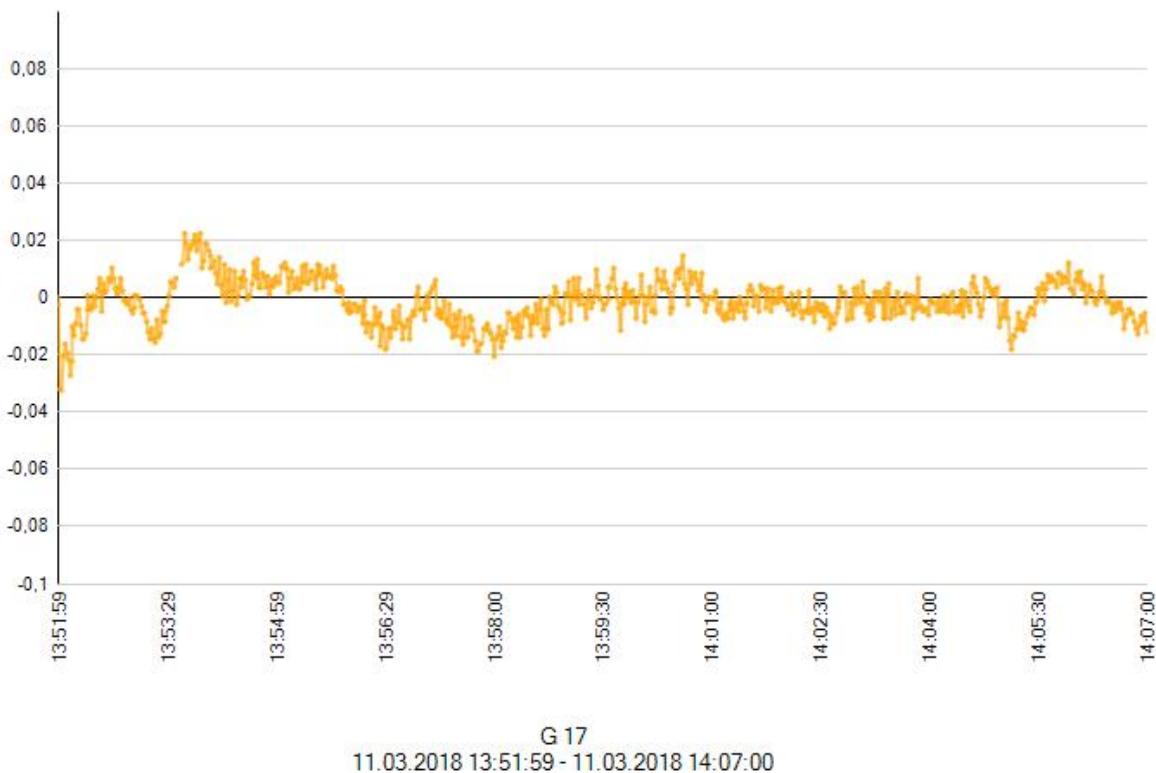
**Mean = 0,002 m Std. Dev. = 0,009 m Min. = -0,023 m Max. = 0,033 m**



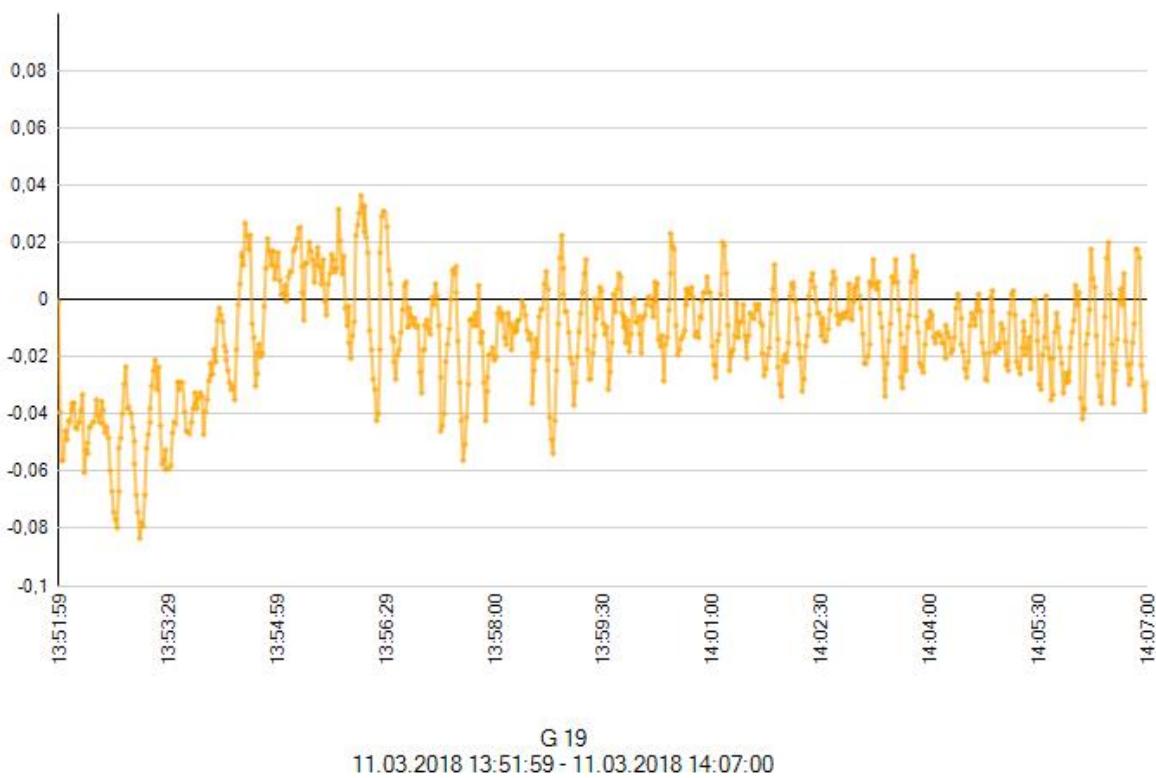
**Mean = 0,013 m Std. Dev. = 0,013 m Min. = -0,023 m Max. = 0,044 m**



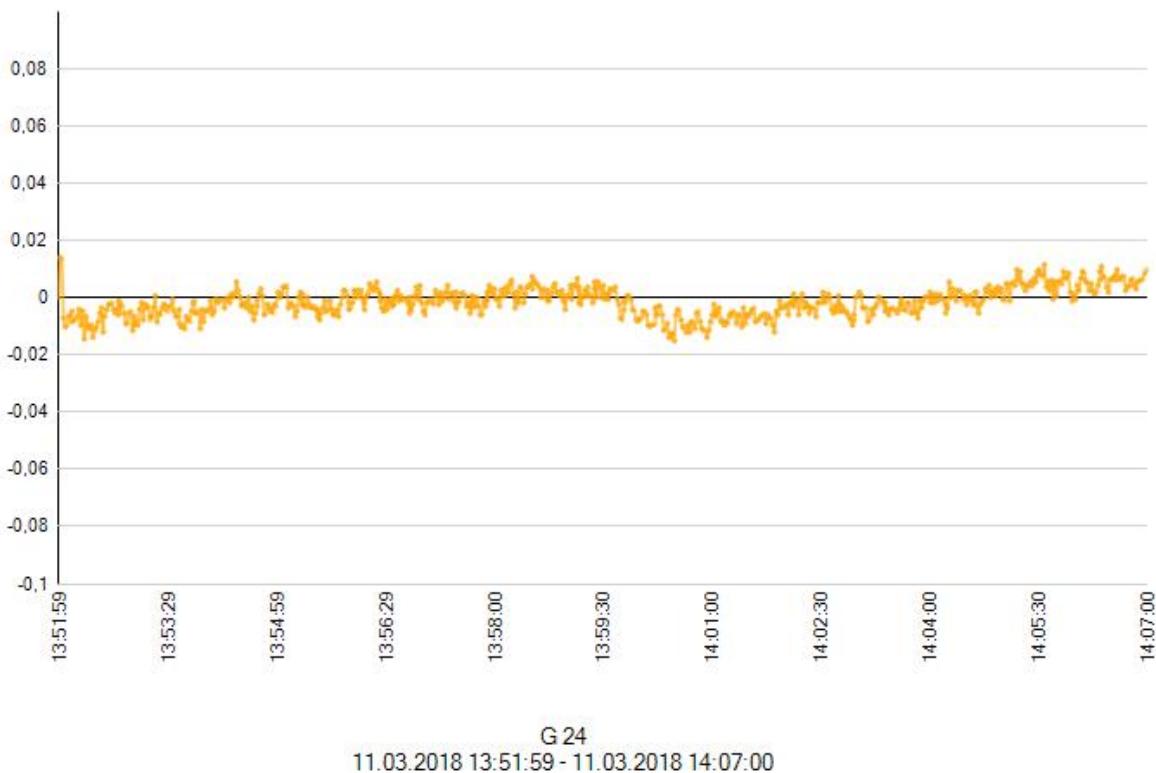
**Mean = -0,001 m Std. Dev. = 0,007 m Min. = -0,033 m Max. = 0,023 m**



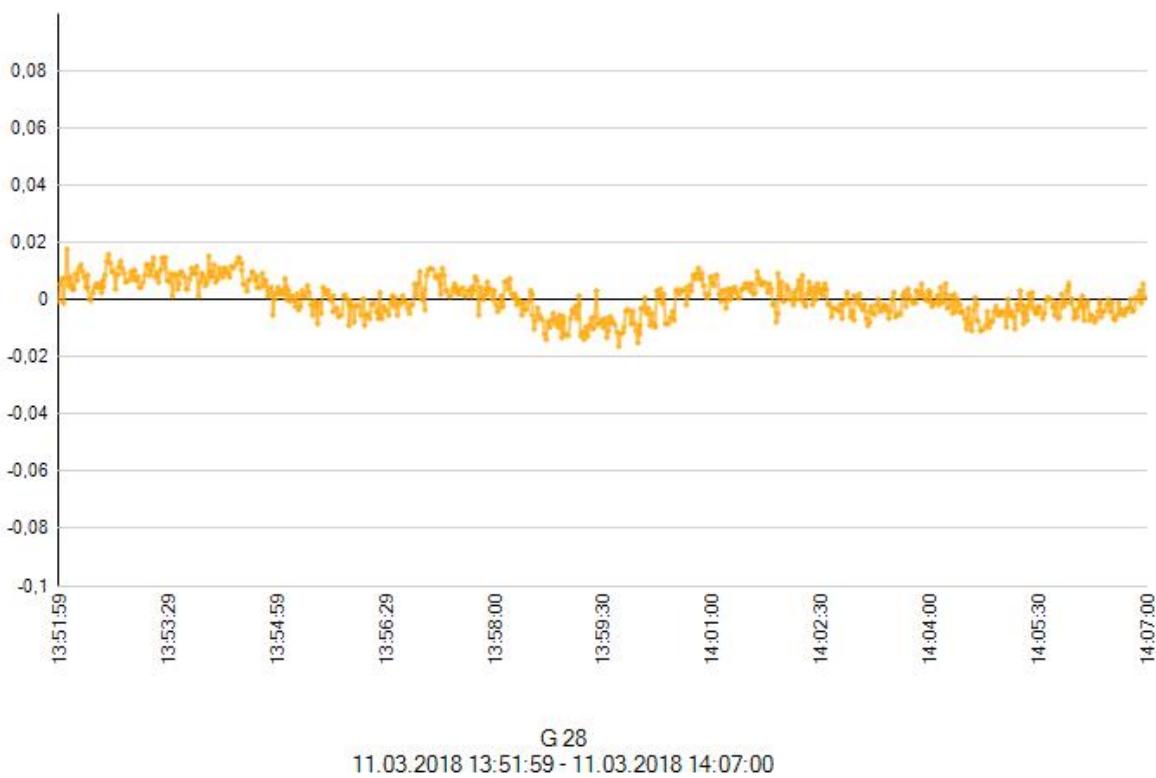
**Mean = -0,013 m Std. Dev. = 0,020 m Min. = -0,083 m Max. = 0,036 m**



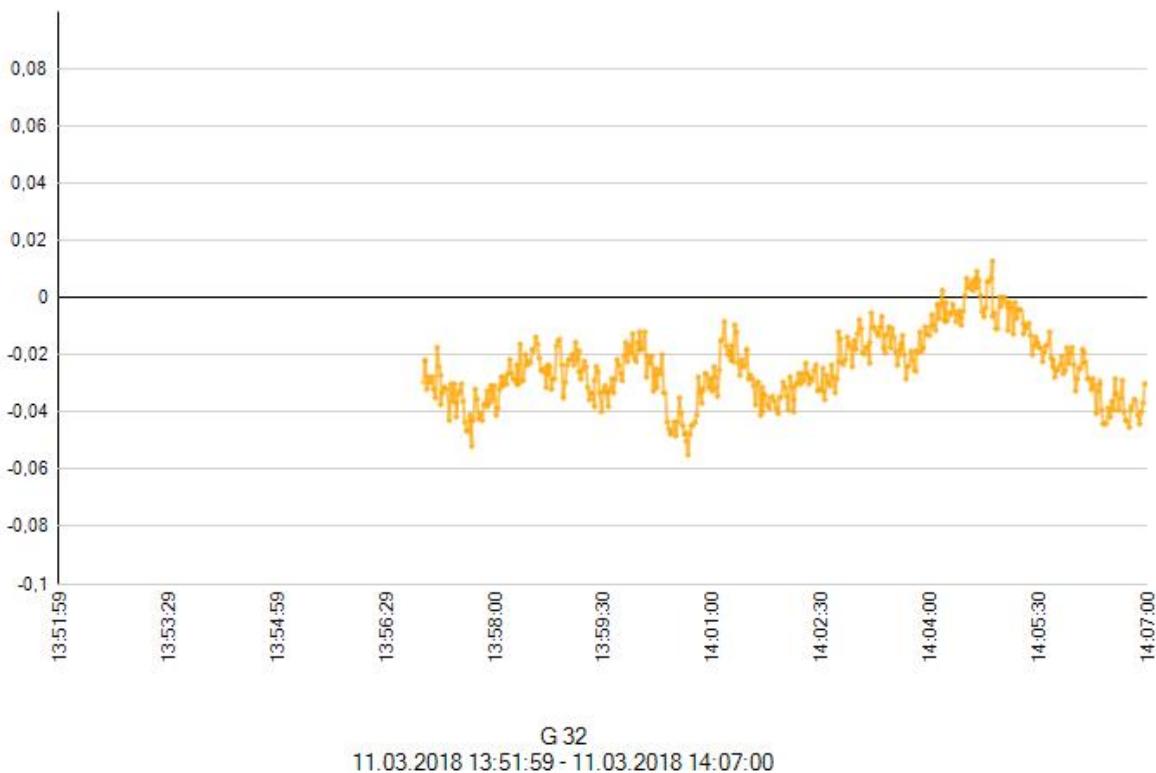
**Mean = -0,002 m Std. Dev. = 0,005 m Min. = -0,015 m Max. = 0,014 m**



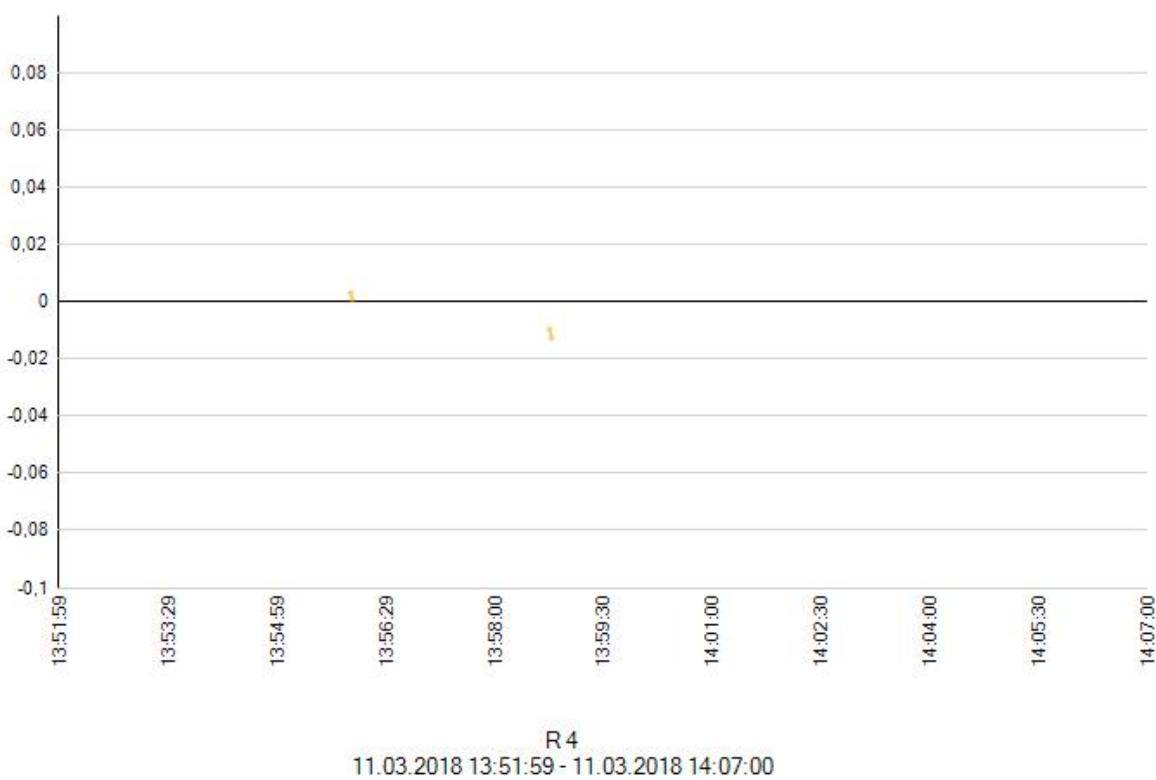
**Mean = 0,000 m Std. Dev. = 0,006 m Min. = -0,017 m Max. = 0,018 m**



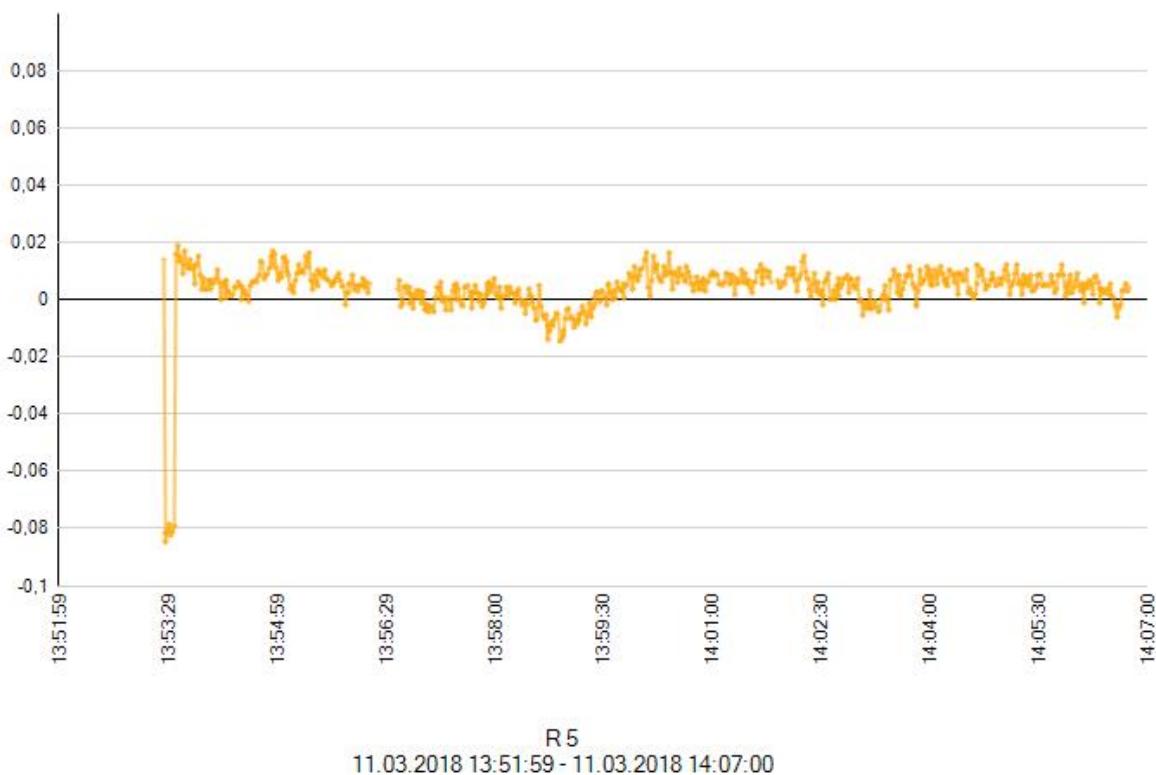
**Mean = -0,024 m Std. Dev. = 0,012 m Min. = -0,055 m Max. = 0,013 m**



**Mean = -0,004 m Std. Dev. = 0,006 m Min. = -0,013 m Max. = 0,003 m**

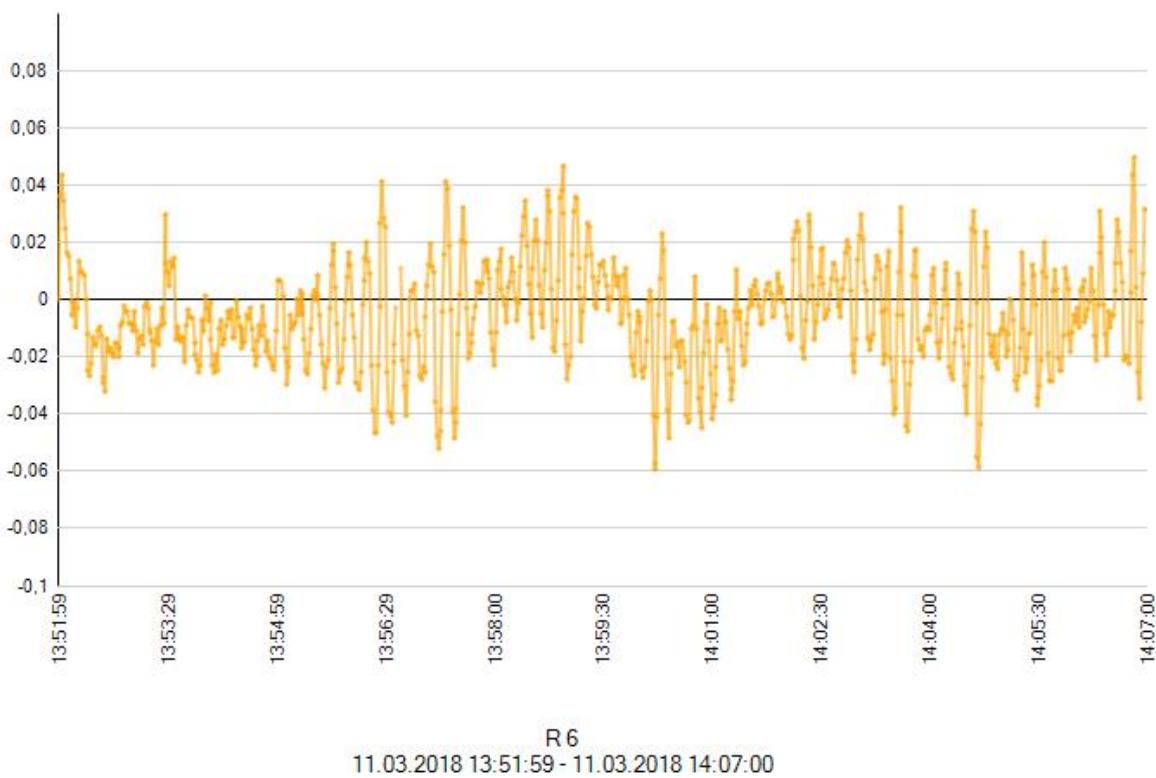


**Mean = 0,003 m Std. Dev. = 0,010 m Min. = -0,084 m Max. = 0,019 m**



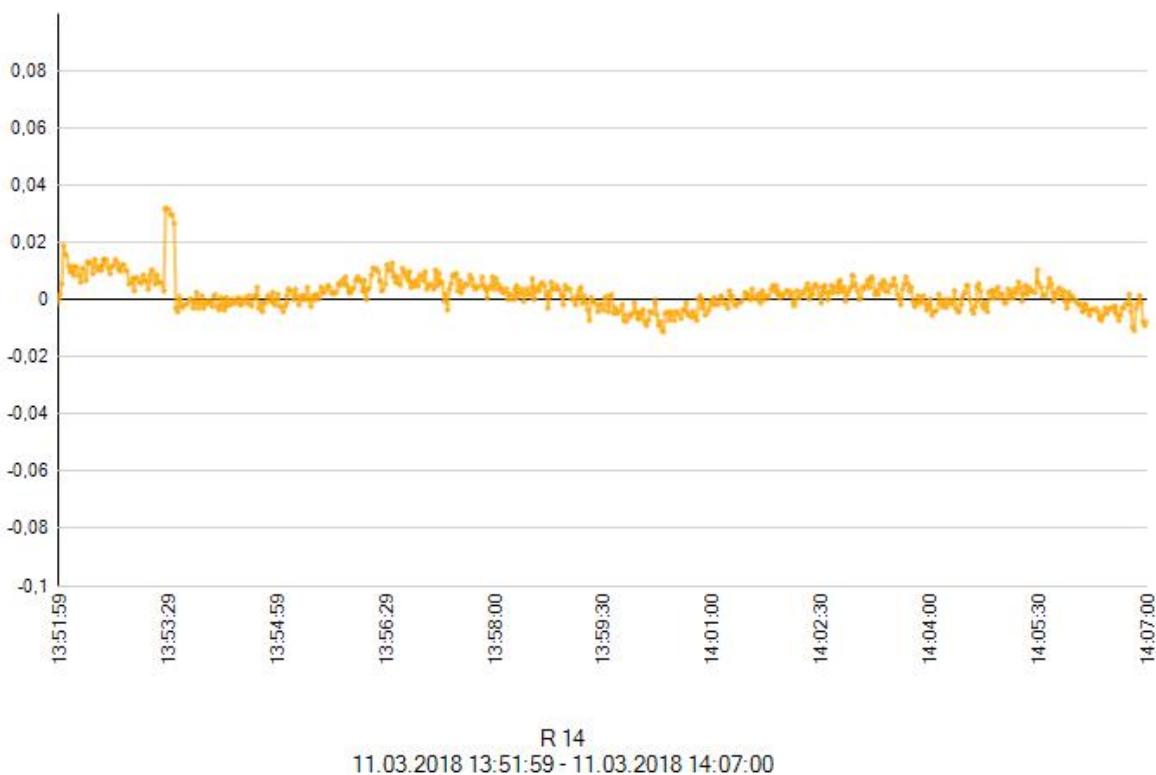
R5  
11.03.2018 13:51:59 - 11.03.2018 14:07:00

**Mean = -0,005 m Std. Dev. = 0,017 m Min. = -0,059 m Max. = 0,050 m**

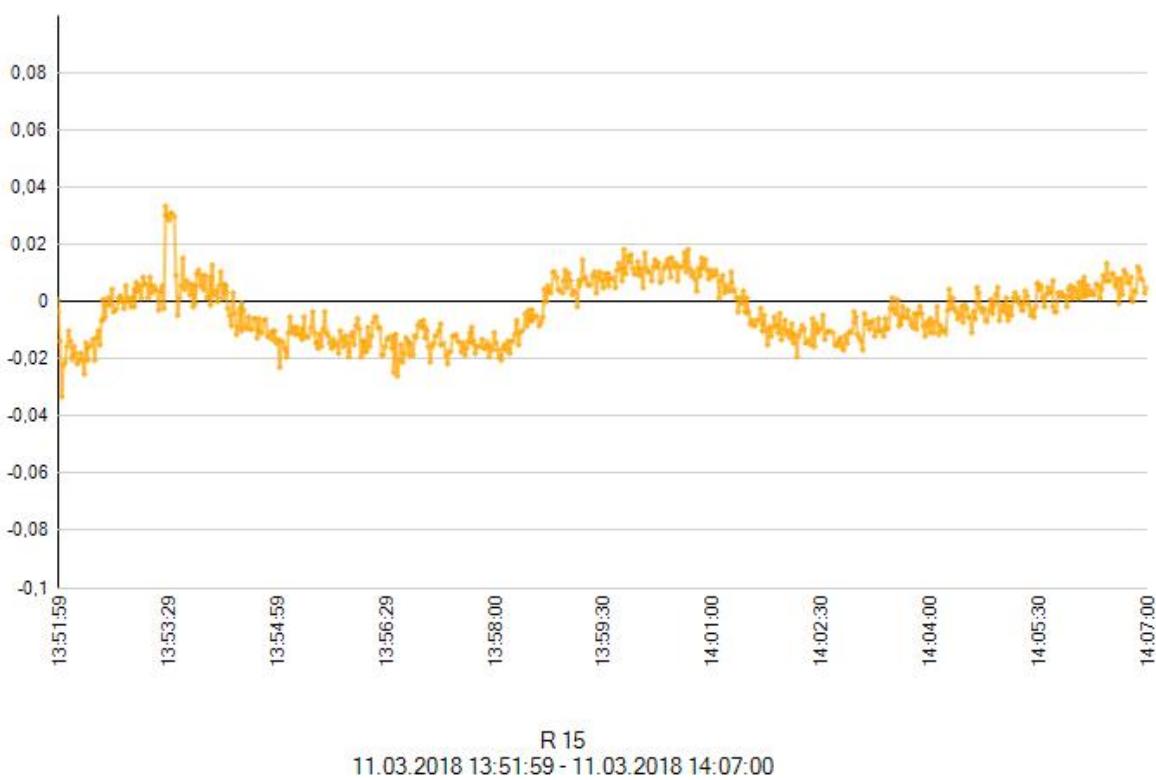


R6  
11.03.2018 13:51:59 - 11.03.2018 14:07:00

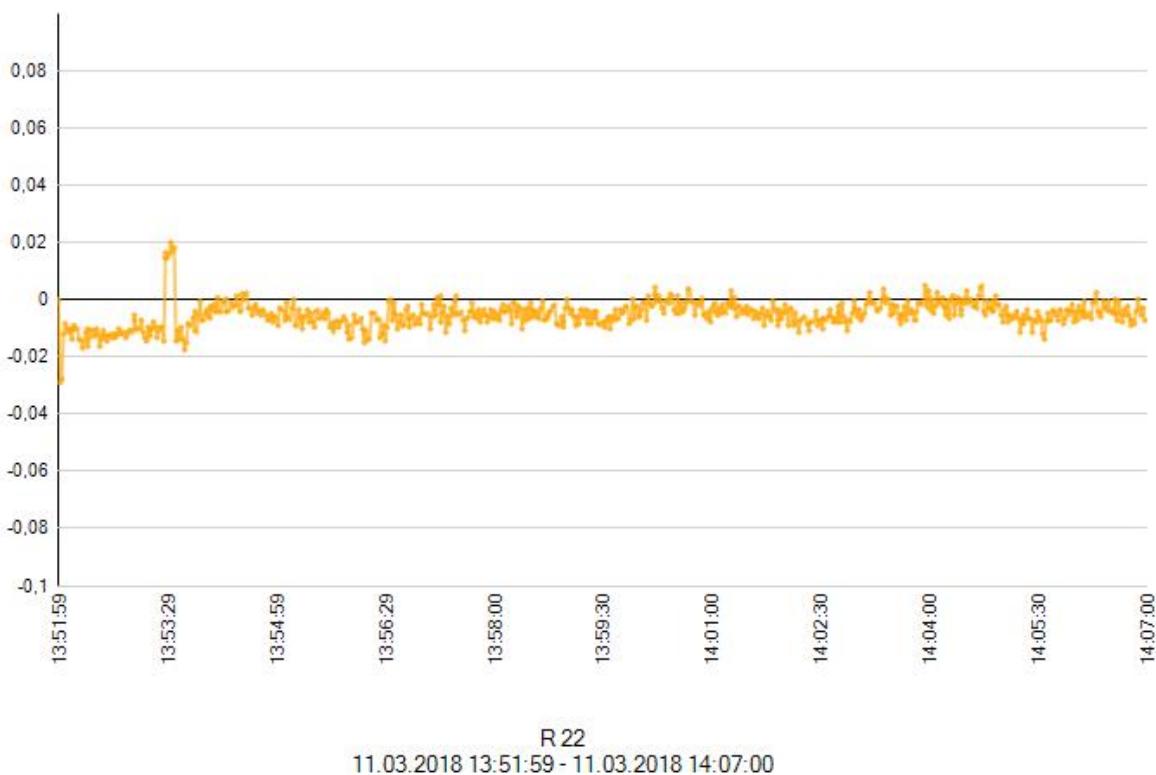
**Mean = 0,002 m Std. Dev. = 0,005 m Min. = -0,011 m Max. = 0,032 m**



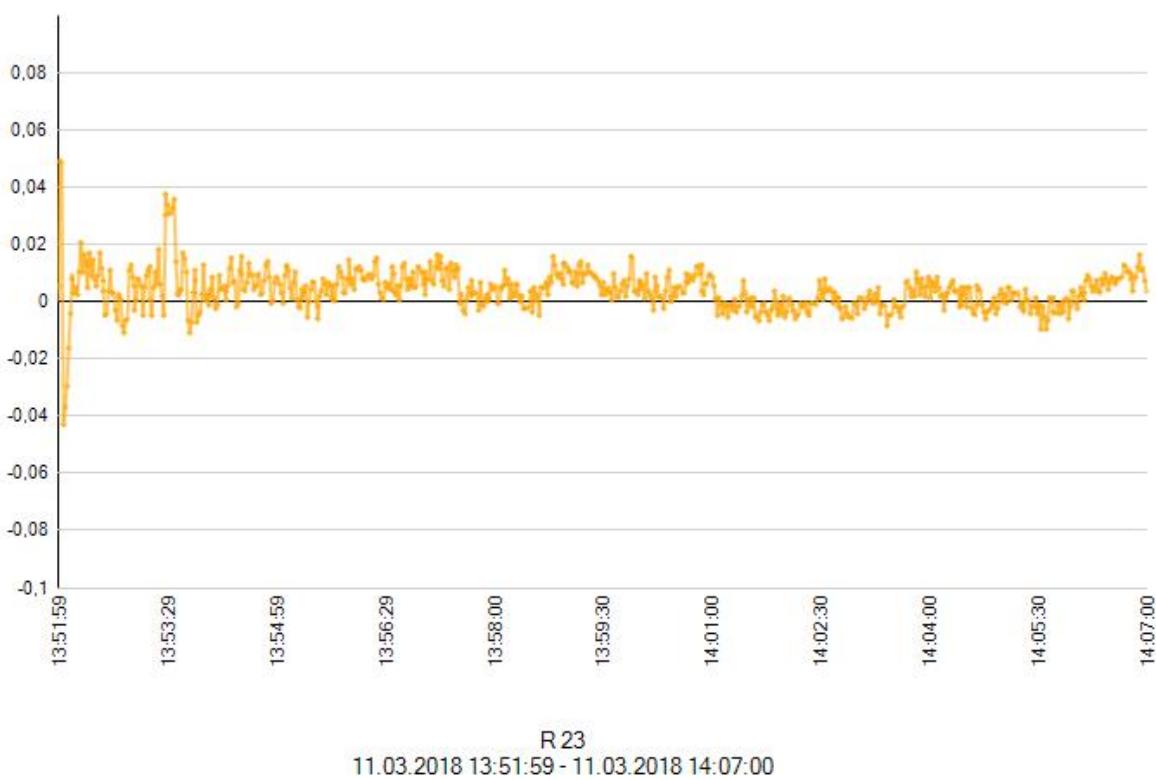
**Mean = -0,003 m Std. Dev. = 0,010 m Min. = -0,033 m Max. = 0,033 m**



**Mean = -0,005 m Std. Dev. = 0,005 m Min. = -0,029 m Max. = 0,020 m**



**Mean = 0,004 m Std. Dev. = 0,007 m Min. = -0,043 m Max. = 0,049 m**



## 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: Multiple Frequencies  
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

LYRS - T3 (13:06:49-13:22:21) (S9)

Baseline observation: LYRS --- T3 (B9)  
 Processed: 23.03.2018 14:29:01  
 Solution type: Fixed  
 Frequency used: Dual Frequency (L1, L2)  
 Horizontal precision: 0,010 m  
 Vertical precision: 0,029 m  
 RMS: 0,002 m  
 Maximum PDOP: 2,110  
 Ephemeris used: Broadcast  
 Antenna model: Trimble Calibration  
 Processing start time: 11.03.2018 13:06:49 (Local: UTC+1hr)  
 Processing stop time: 11.03.2018 13:22:21 (Local: UTC+1hr)  
 Processing duration: 12:15:32 AM  
 Processing interval: 1 second

Vector Components (Mark to Mark)

From:	LYRS				
Grid		Local		Global	
Easting	509048,138 m	Latitude	N78°13'43,77230"	Latitude	N78°13'43,77230"
Northing	8683937,568 m	Longitude	E15°23'50,31623"	Longitude	E15°23'50,31623"
Elevation	495,682 m	Height	495,682 m	Height	495,682 m

To:	T3				
Grid		Local		Global	
Easting	527598,301 m	Latitude	N78°15'23,12170"	Latitude	N78°15'23,12170"
Northing	8687273,203 m	Longitude	E16°12'53,07162"	Longitude	E16°12'53,07162"
Elevation	423,620 m	Height	423,620 m	Height	423,620 m

Vector					
9Ughjb[	18550,163 m	NS Fwd Azimuth	80°11'43"	L	-7983,815 m
Bcfh]b[	3335,634 m	Ellipsoid Dist.	18855,137 m	M	17073,965 m
9Yj Uhcb	-72,062 m	<Y]\h	-72,062 m	N	557,331 m

## Standard Errors

Vector errors:

9Ughb[	0,003 m	'BG 'ZK X'5n]a i h	0°00'00"	L	0,005 m
Bcfh]b[	0,004 m	'9``]dgc]X 8]gh	0,003 m	M	0,003 m
9`Yj Uhcb	0,015 m	<Y][\h	0,015 m	N	0,014 m

## Aposteriori Covariance Matrix (Meter<sup>2</sup>)

	X	Y	Z
X	0,0000203684		
Y	0,0000061654	0,0000119737	
Z	0,0000394868	0,0000138849	0,0002086946

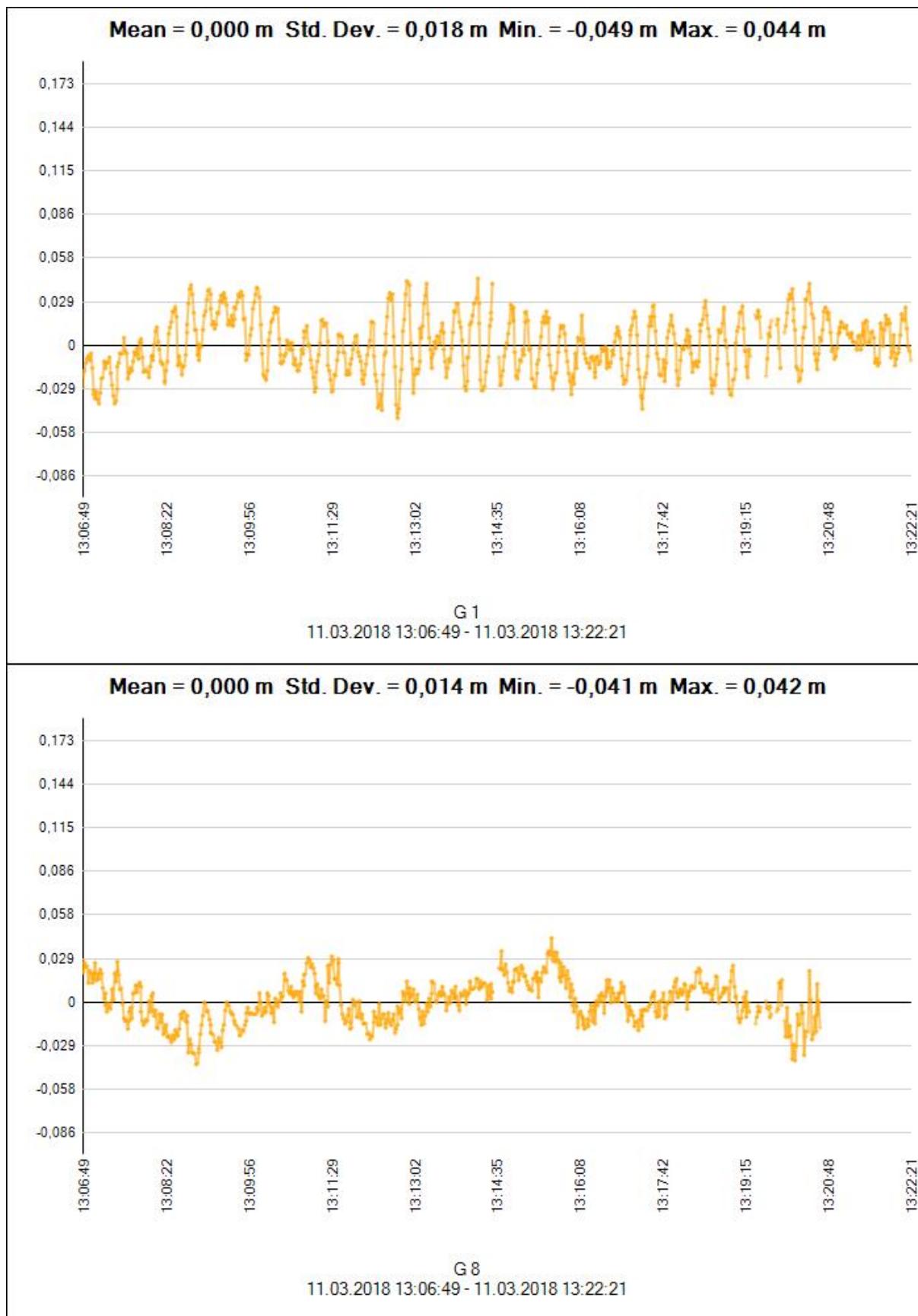
## Occupations

	From	To
Point ID:	LYRS	T3
Data file:	C:\Users\lth842\Documents\Trimble Business Center\Unnamed(1)\lyrs0700.18o	C:\Users\lth842\Documents\Trimble Business Center\Unnamed(1)\46250704.t02
Receiver type:	NetR9	R4
Receiver serial number:	5504R50012	5127468778
Antenna type:	Zephyr Geodetic	R4 Internal
Antenna serial number:	60111442	47477114
Antenna height (measured):	0,000 m	1,850 m
Antenna method:	Bottom of antenna mount	Bottom of antenna mount

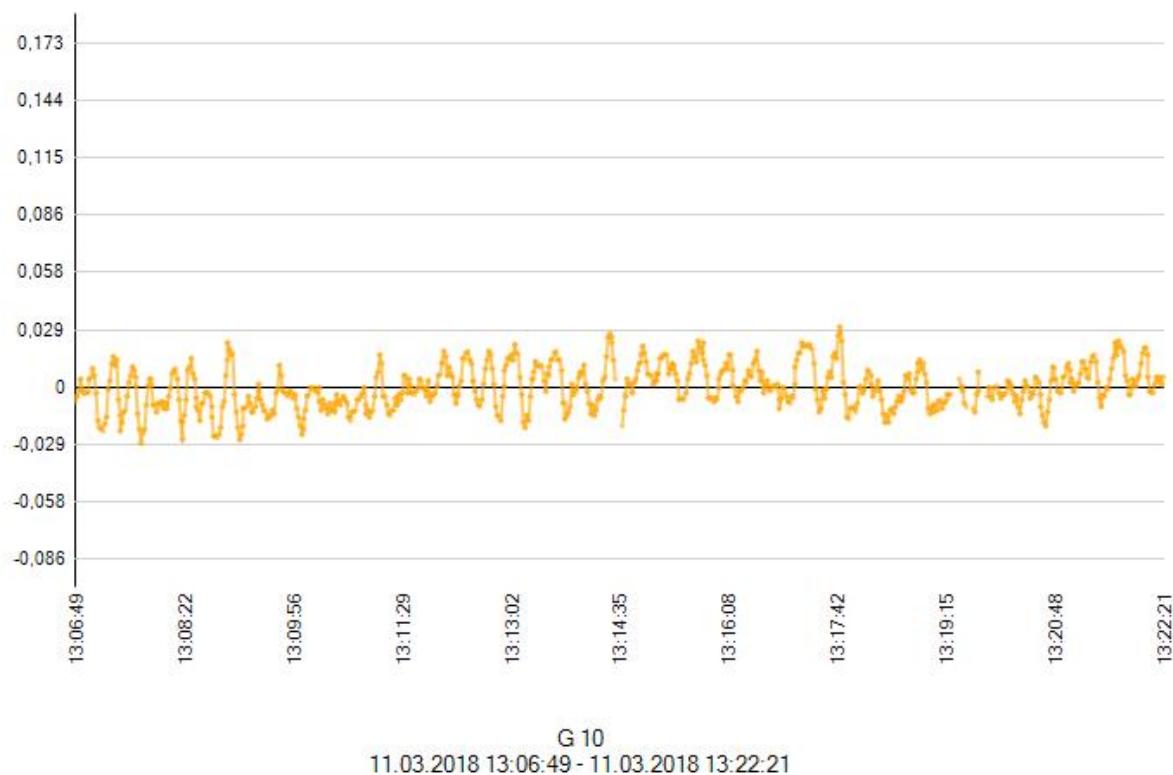
## Tracking Summary

SV	11.03.2018 13:06:49	Duration: 00:15:32	Major interval: 00:01:00	11.03.2018 13:22:21
G 1	L1 L2			
G 8	L1 L2			
G 10	L1 L2			
G 11	L1 L2			
G 13	L1 L2			
G 15	L1 L2			
G 17	L1 L2			
G 24	L1 L2			
G 28	L1 L2			
R 4	L1 L2			
R 5	L1 L2			
R 12	L1			
R 13	L1 L2			
R 14	L1 L2			
R 21	L1 L2			
R 22	L1 L2			
R 23	L1 L2			

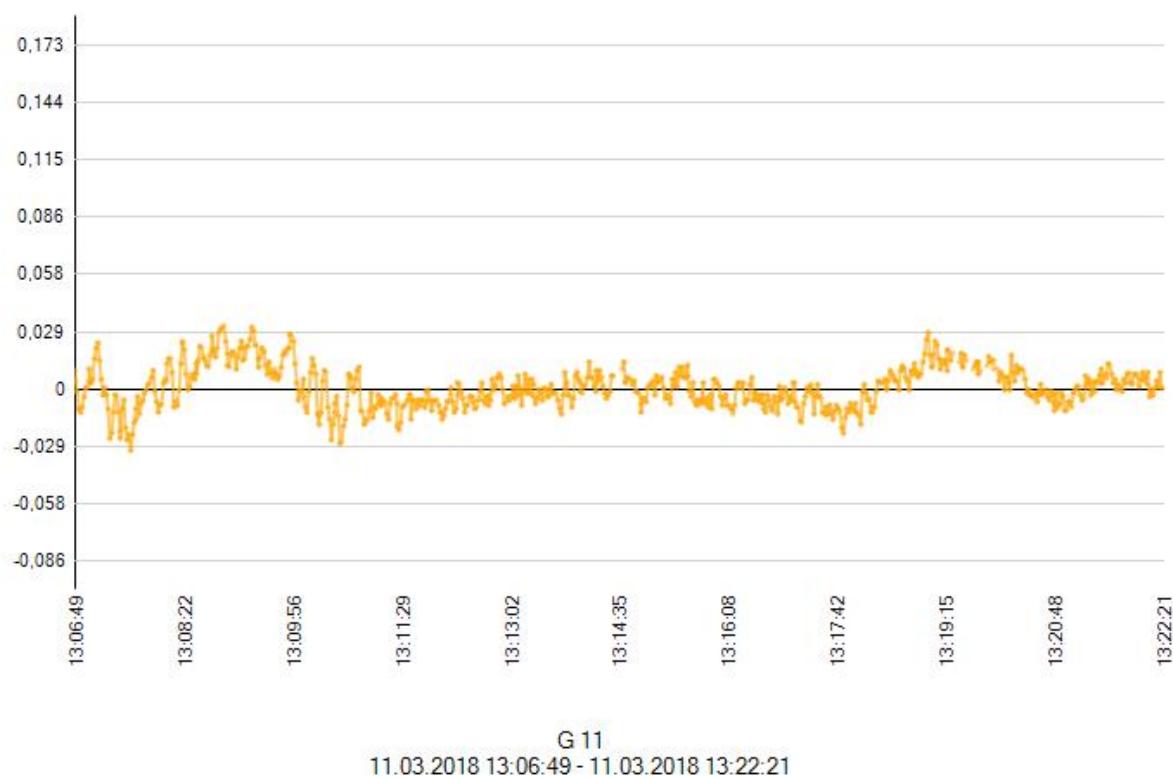
## Residuals



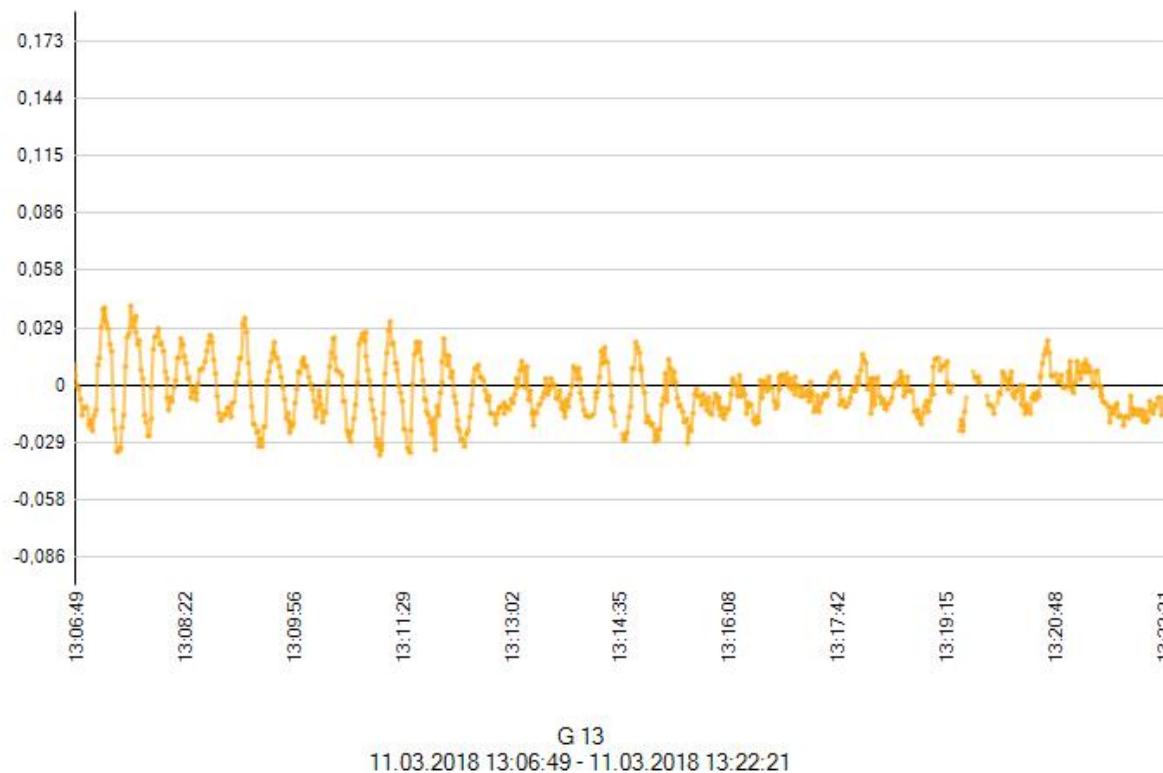
**Mean = 0,000 m Std. Dev. = 0,010 m Min. = -0,029 m Max. = 0,030 m**



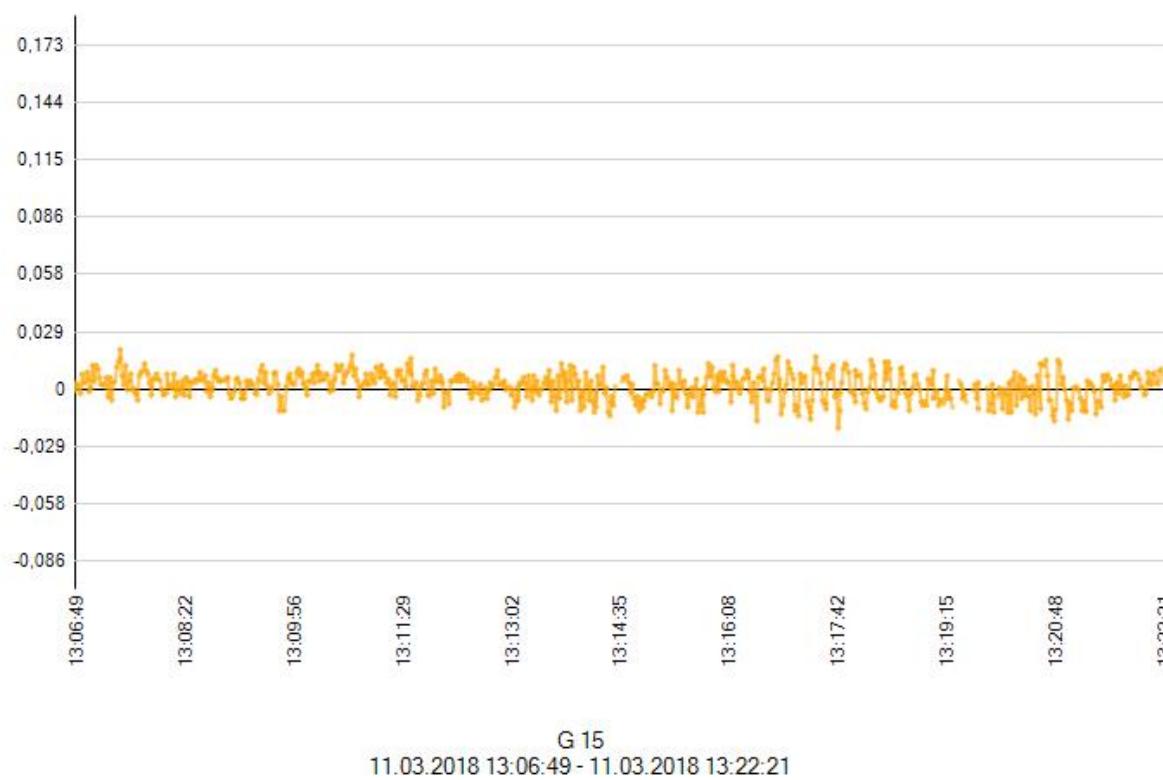
**Mean = 0,001 m Std. Dev. = 0,010 m Min. = -0,031 m Max. = 0,032 m**



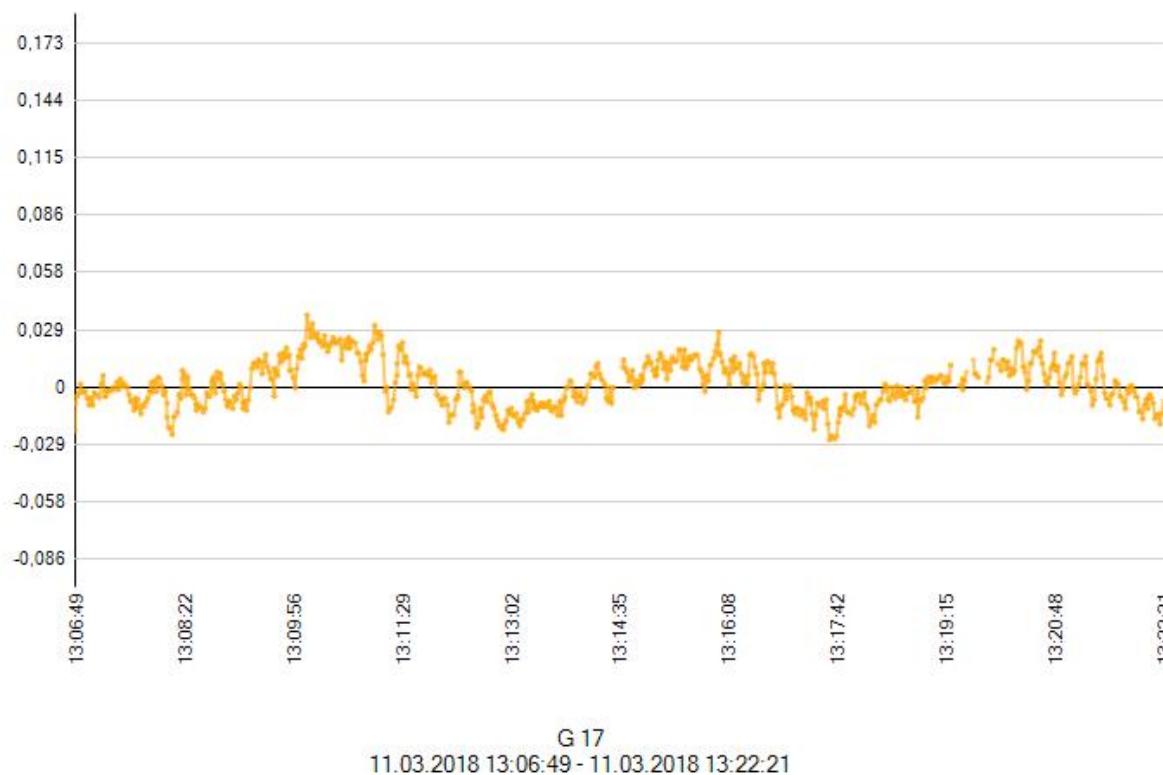
**Mean = -0,003 m Std. Dev. = 0,013 m Min. = -0,035 m Max. = 0,040 m**



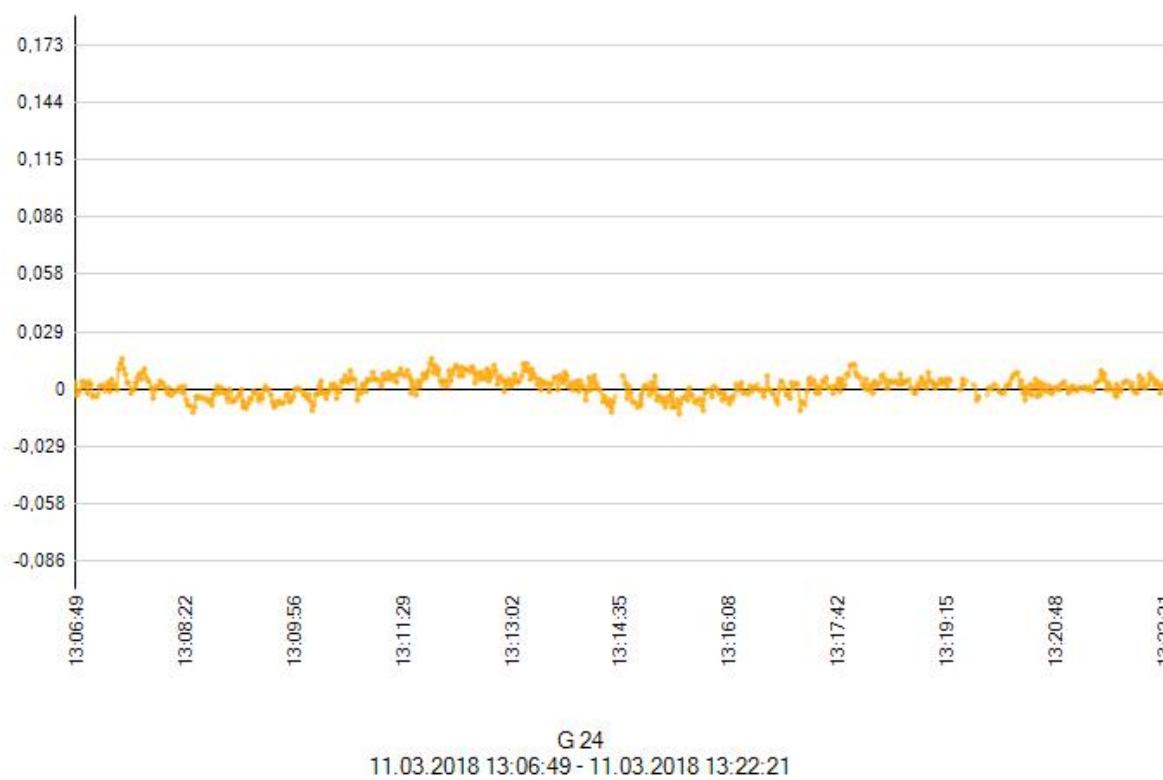
**Mean = 0,001 m Std. Dev. = 0,006 m Min. = -0,019 m Max. = 0,020 m**



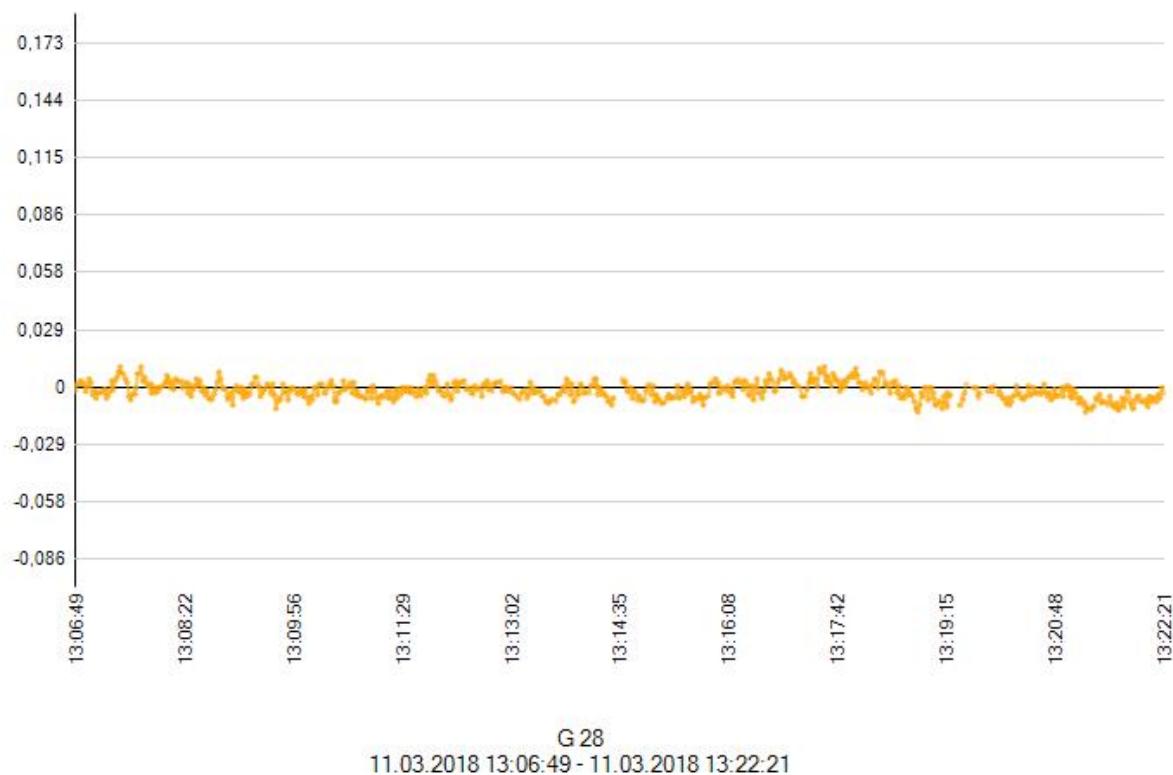
**Mean = 0,002 m Std. Dev. = 0,011 m Min. = -0,027 m Max. = 0,037 m**



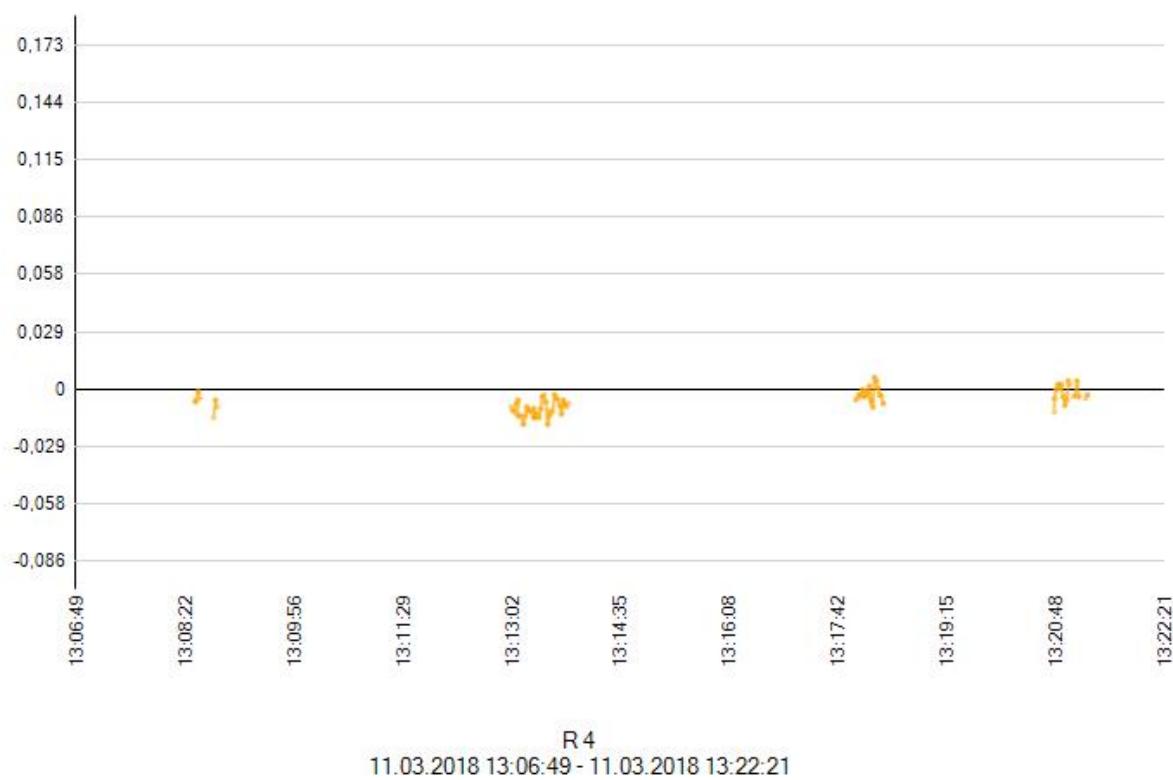
**Mean = 0,001 m Std. Dev. = 0,005 m Min. = -0,013 m Max. = 0,016 m**



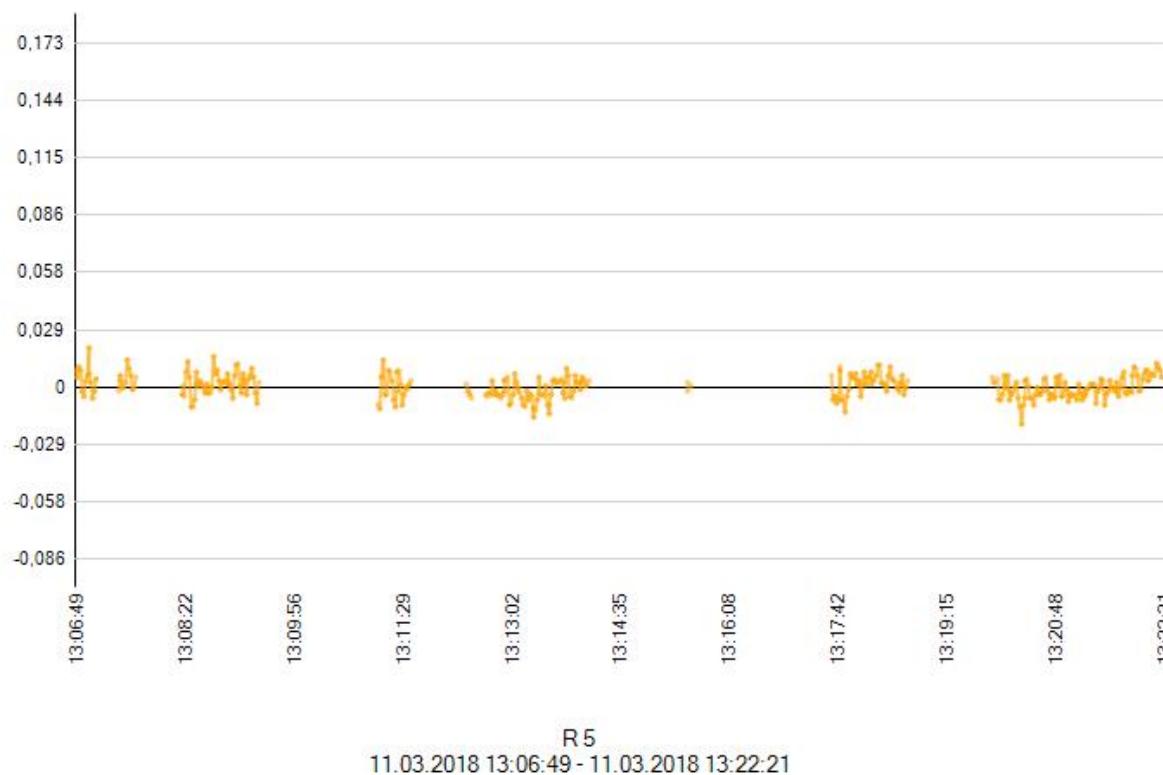
**Mean = -0,002 m Std. Dev. = 0,004 m Min. = -0,013 m Max. = 0,010 m**



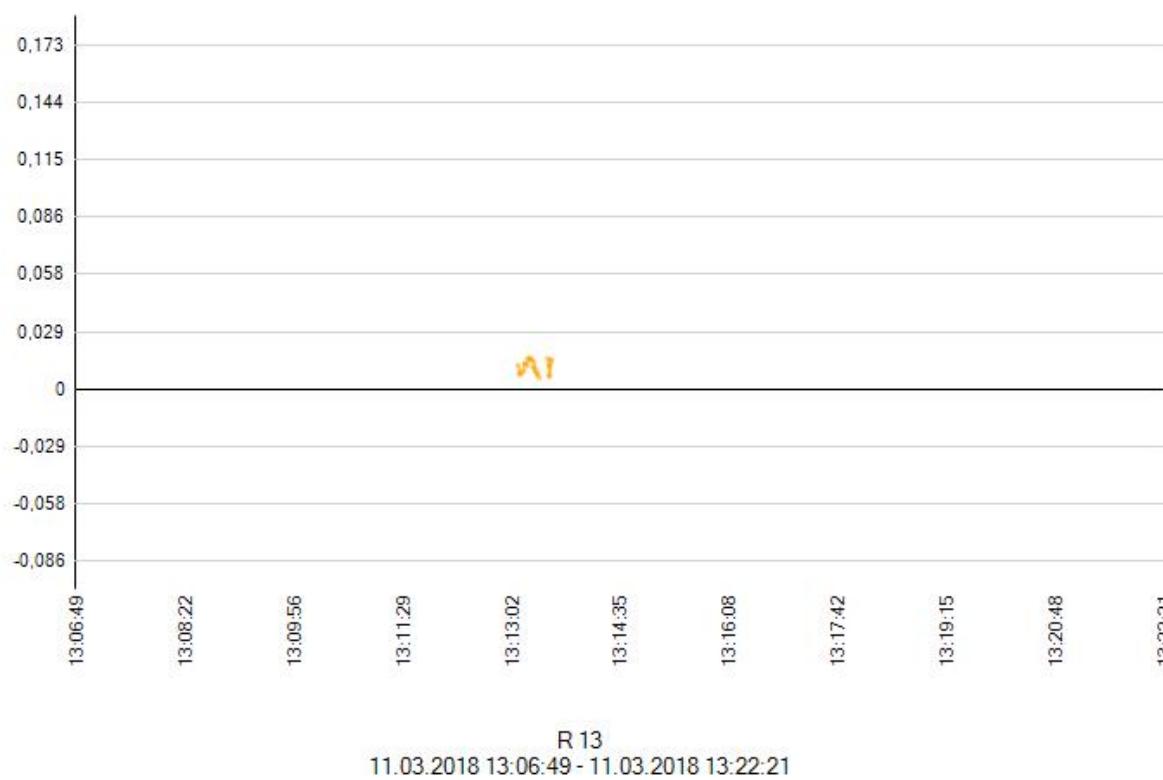
**Mean = -0,006 m Std. Dev. = 0,005 m Min. = -0,018 m Max. = 0,005 m**



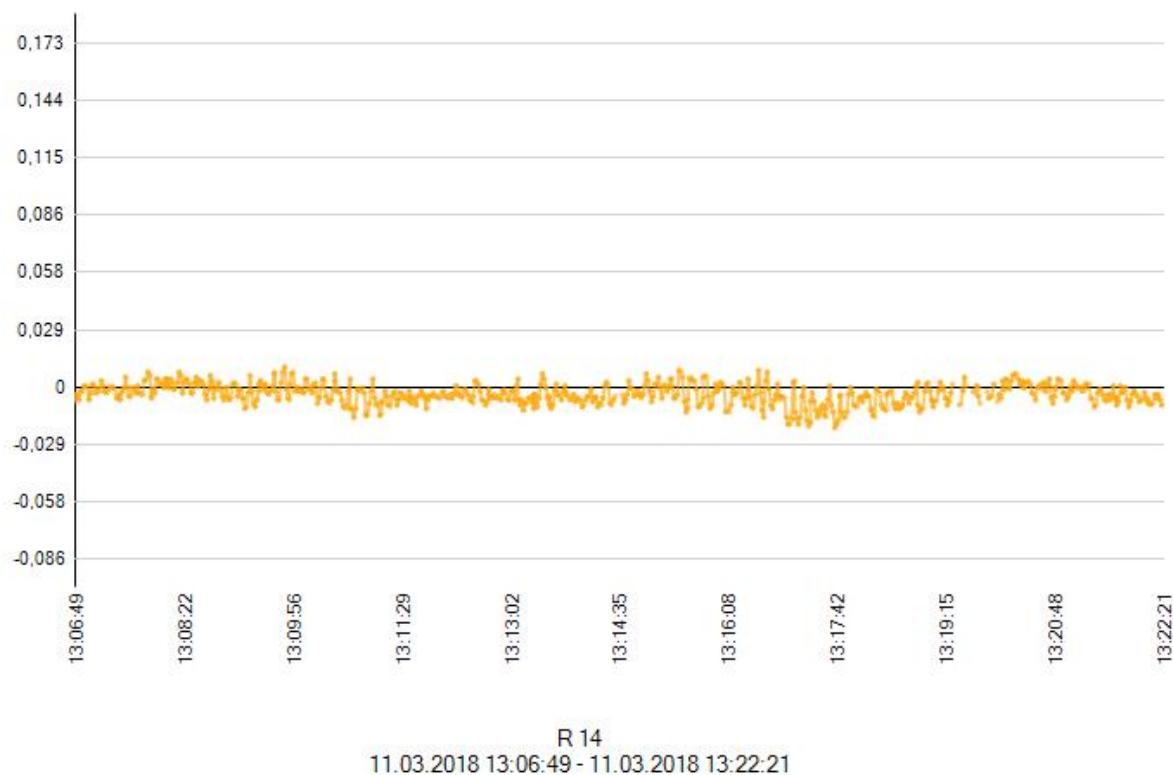
**Mean = 0,000 m Std. Dev. = 0,005 m Min. = -0,018 m Max. = 0,020 m**



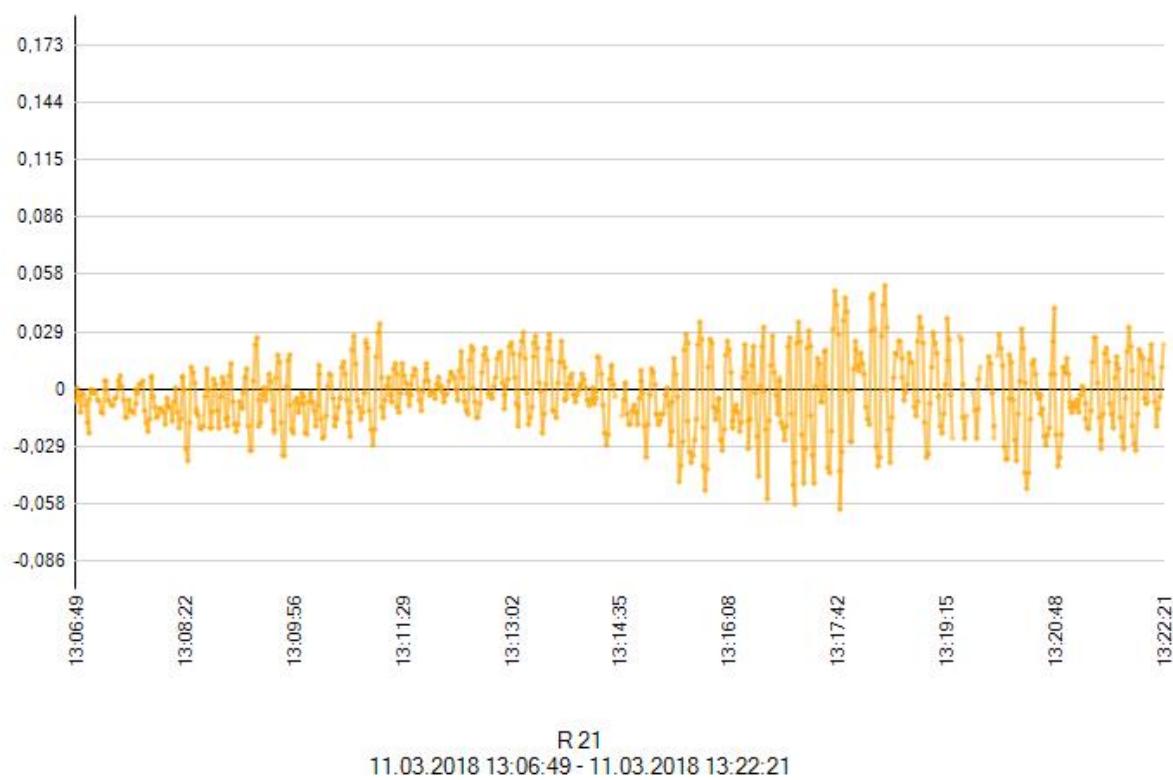
**Mean = 0,011 m Std. Dev. = 0,003 m Min. = 0,005 m Max. = 0,016 m**



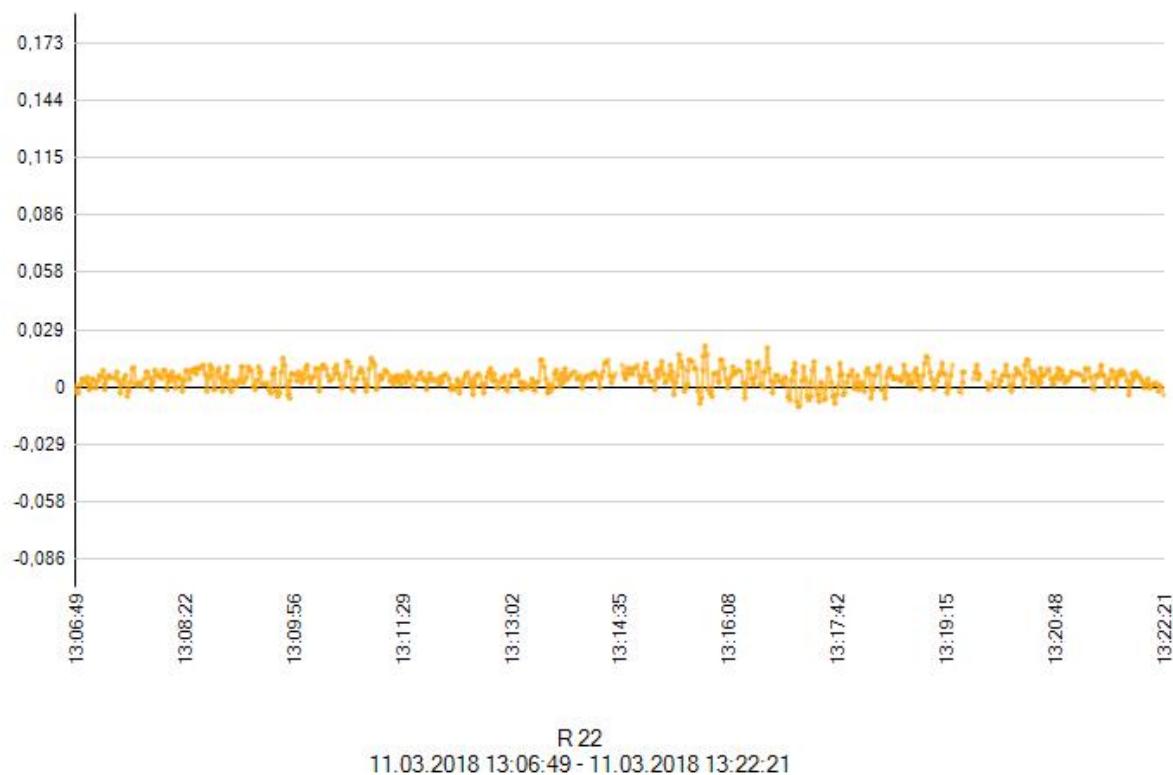
**Mean = -0,003 m Std. Dev. = 0,005 m Min. = -0,020 m Max. = 0,010 m**



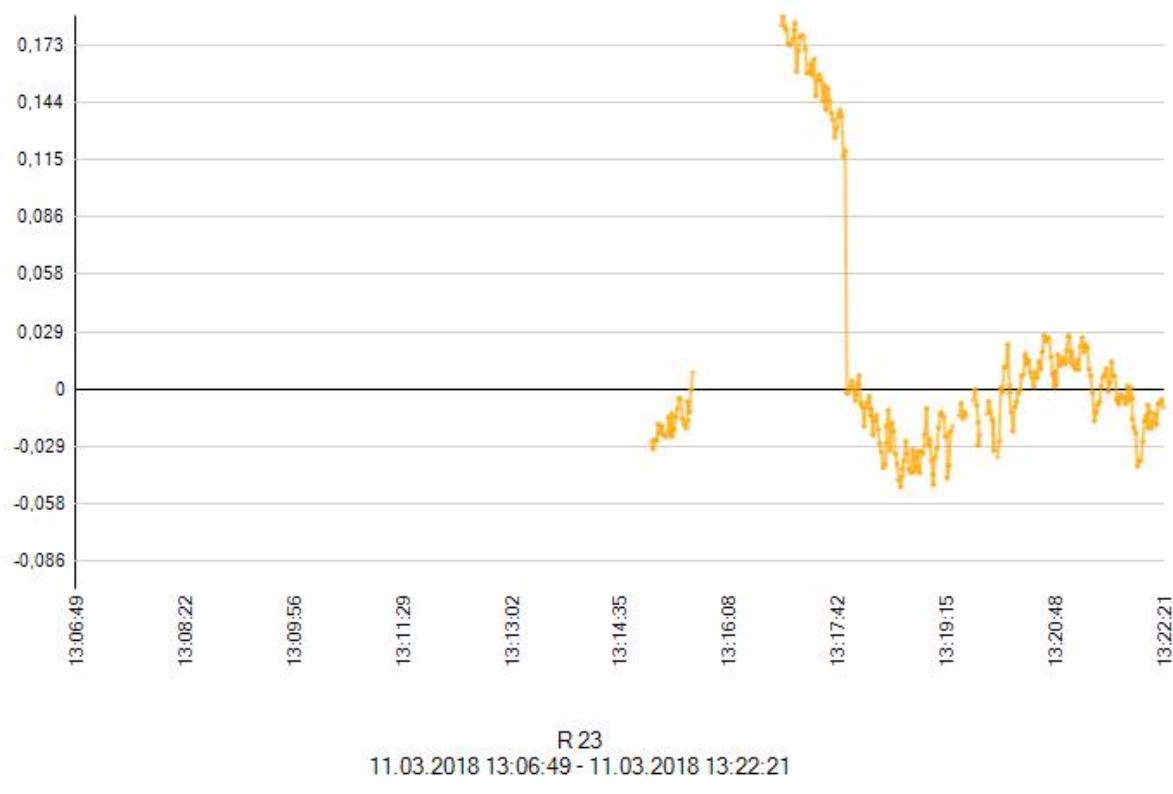
**Mean = -0,002 m Std. Dev. = 0,017 m Min. = -0,061 m Max. = 0,052 m**



**Mean = 0,004 m Std. Dev. = 0,004 m Min. = -0,010 m Max. = 0,020 m**



**Mean = 0,017 m Std. Dev. = 0,063 m Min. = -0,049 m Max. = 0,188 m**



## 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: Multiple Frequencies  
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

LYRS - T3 (13:24:54-13:40:01) (S8)

Baseline observation: LYRS --- T3 (B8)  
 Processed: 23.03.2018 14:29:10  
 Solution type: Fixed  
 Frequency used: Dual Frequency (L1, L2)  
 Horizontal precision: 0,010 m  
 Vertical precision: 0,022 m  
 RMS: 0,001 m  
 Maximum PDOP: 1,887  
 Ephemeris used: Broadcast  
 Antenna model: Trimble Calibration  
 Processing start time: 11.03.2018 13:24:54 (Local: UTC+1hr)  
 Processing stop time: 11.03.2018 13:40:01 (Local: UTC+1hr)  
 Processing duration: 12:15:07 AM  
 Processing interval: 1 second

Vector Components (Mark to Mark)

From:	LYRS				
Grid		Local		Global	
Easting	509048,138 m	Latitude	N78°13'43,77230"	Latitude	N78°13'43,77230"
Northing	8683937,568 m	Longitude	E15°23'50,31623"	Longitude	E15°23'50,31623"
Elevation	495,682 m	Height	495,682 m	Height	495,682 m

To:	T3				
Grid		Local		Global	
Easting	527598,303 m	Latitude	N78°15'23,12164"	Latitude	N78°15'23,12164"
Northing	8687273,201 m	Longitude	E16°12'53,07187"	Longitude	E16°12'53,07187"
Elevation	423,623 m	Height	423,623 m	Height	423,623 m

Vector					
9Ughjb[	18550,165 m	NS Fwd Azimuth	80°11'43"	L	-7983,813 m
Bcfh]b[	3335,633 m	Ellipsoid Dist.	18855,138 m	M	17073,967 m
9Yj Uhcb	-72,059 m	<Y][\h	-72,059 m	N	557,333 m

## Standard Errors

Vector errors:

9Ughb[	0,003 m	'BG 'ZK X'5n]a i h	0°00'00"	L	0,004 m
Bcfh]b[	0,004 m	'9``]dgc]X 8]gh	0,003 m	M	0,003 m
9`Yj Uhcb	0,011 m	<Y][\h	0,011 m	N	0,011 m

## Aposteriori Covariance Matrix (Meter<sup>2</sup>)

	X	Y	Z
X	0,0000180581		
Y	0,0000069002	0,0000118346	
Z	0,0000242191	0,0000154819	0,0001184496

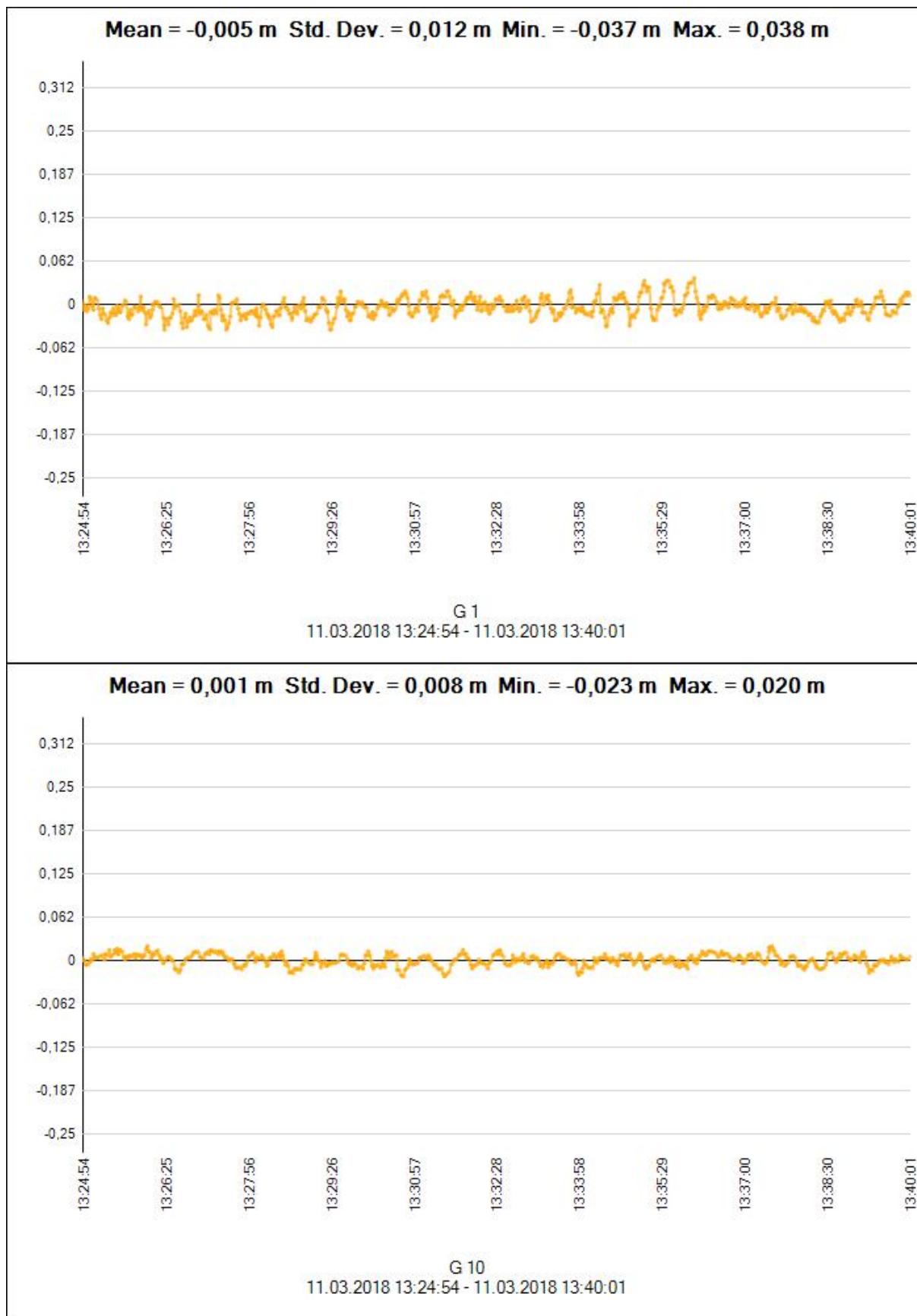
## Occupations

	From	To
Point ID:	LYRS	T3
Data file:	C:\Users\lth842\Documents\Trimble Business Center\Unnamed(1)\lyrs0700.18o	C:\Users\lth842\Documents\Trimble Business Center\Unnamed(1)\46250705.t02
Receiver type:	NetR9	R4
Receiver serial number:	5504R50012	5127468778
Antenna type:	Zephyr Geodetic	R4 Internal
Antenna serial number:	60111442	47477114
Antenna height (measured):	0,000 m	1,850 m
Antenna method:	Bottom of antenna mount	Bottom of antenna mount

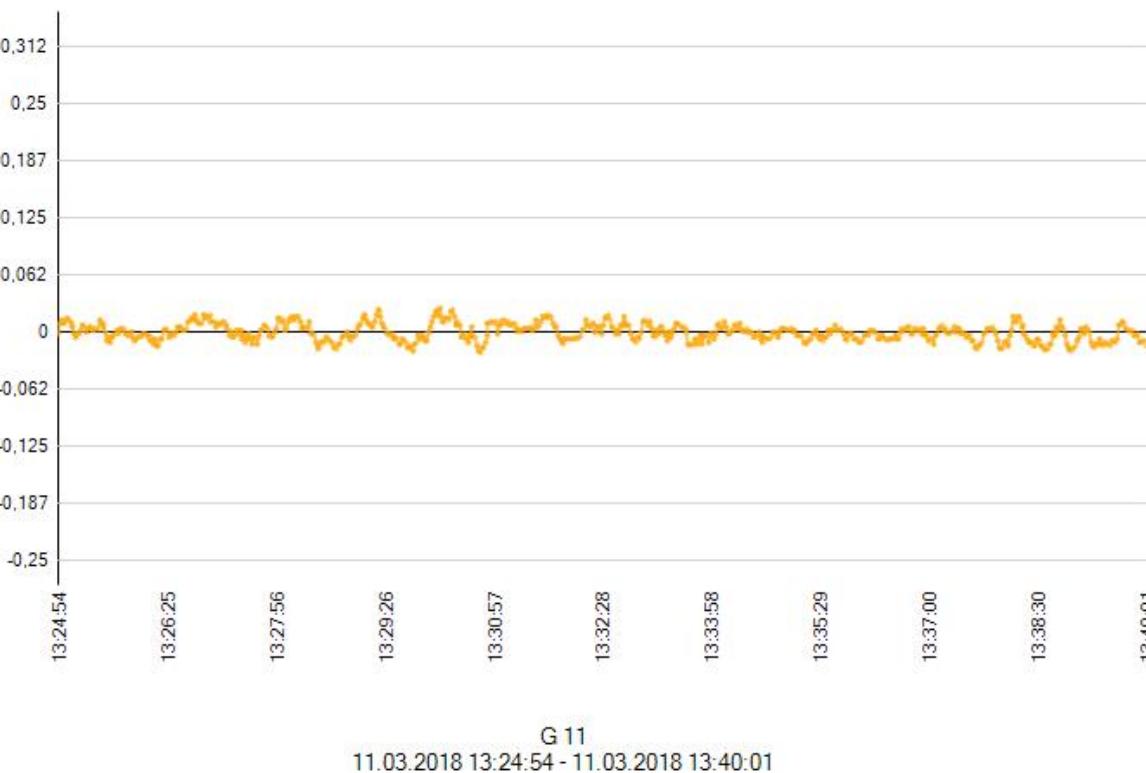
## Tracking Summary

SV	11.03.2018 13:24:54	Duration: 00:15:07	Major interval: 00:01:00	11.03.2018 13:40:01
G 1	L1 L2			
G 10	L1 L2			
G 11	L1 L2			
G 13	L1 L2			
G 15	L1 L2			
G 17	L1 L2			
G 19	L1 L2			
G 24	L1 L2			
G 28	L1 L2			
R 4	L1 L2			
R 5	L1 L2			
R 12	L1			
R 13	L1 L2			
R 14	L1 L2			
R 15	L1 L2			
R 21	L1 L2			
R 22	L1 L2			
R 23	L1 L2			

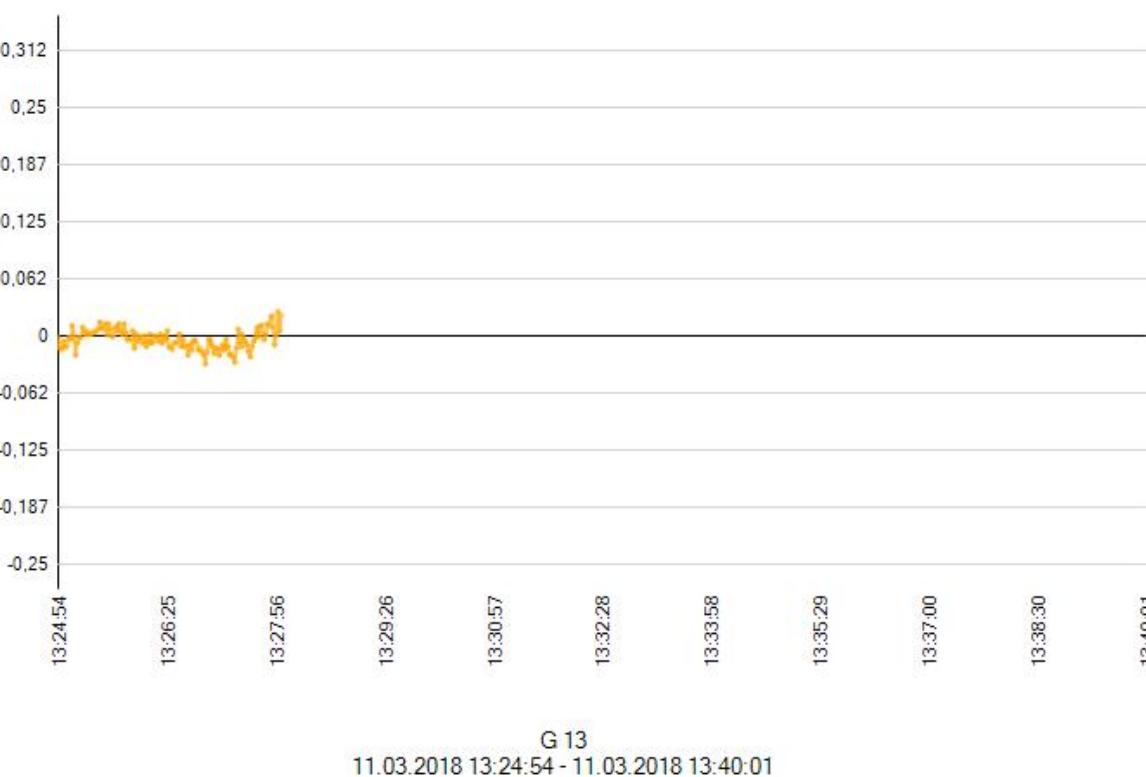
## Residuals



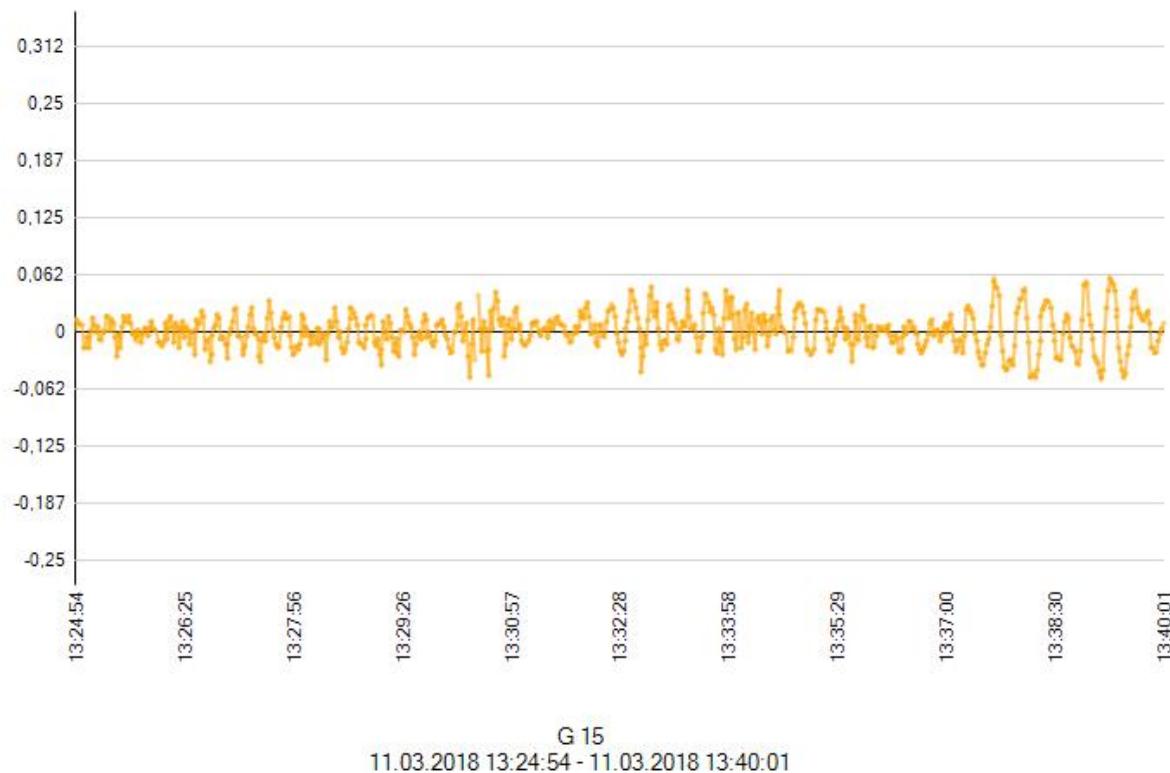
**Mean = 0,000 m Std. Dev. = 0,009 m Min. = -0,023 m Max. = 0,026 m**



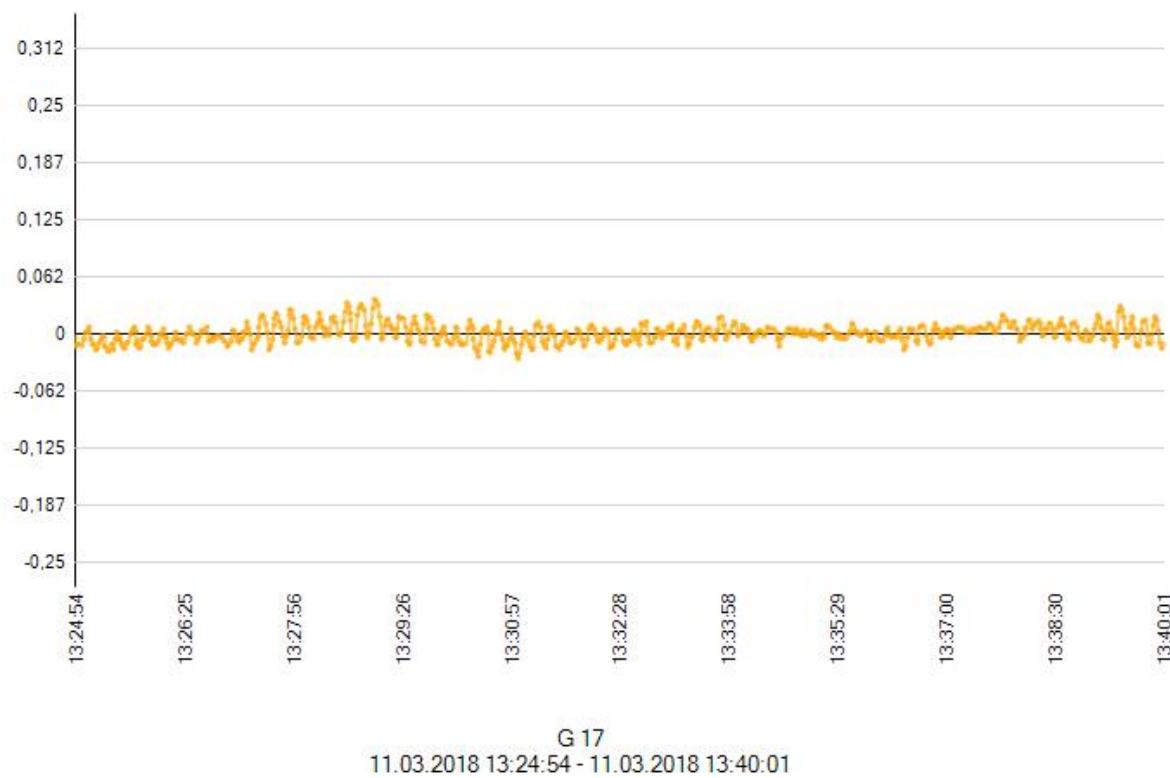
**Mean = -0,003 m Std. Dev. = 0,010 m Min. = -0,029 m Max. = 0,027 m**



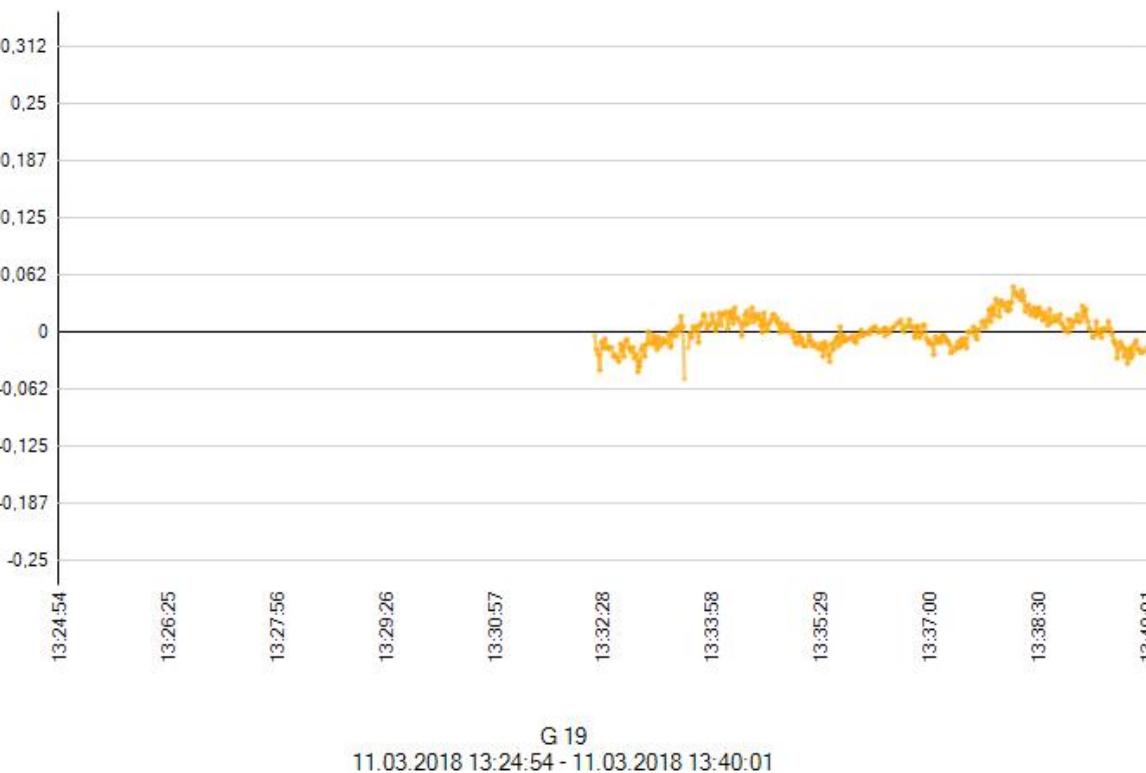
**Mean = 0,002 m Std. Dev. = 0,019 m Min. = -0,051 m Max. = 0,059 m**



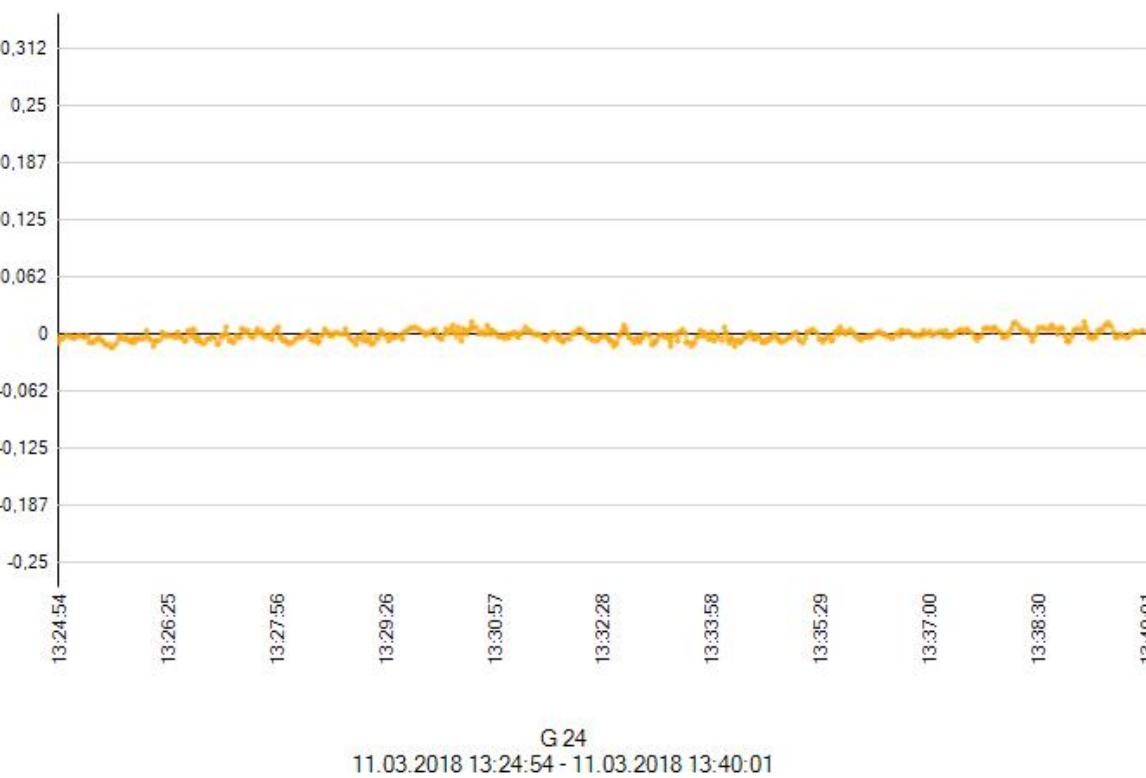
**Mean = 0,001 m Std. Dev. = 0,010 m Min. = -0,026 m Max. = 0,038 m**



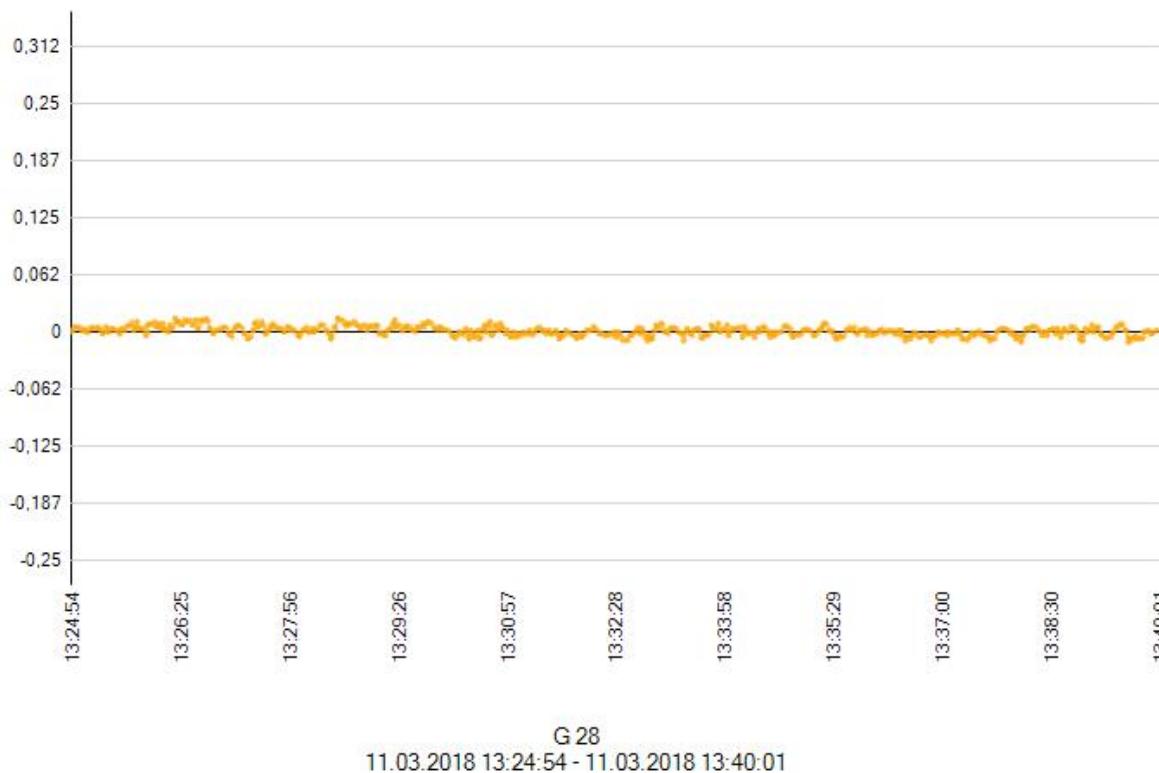
**Mean = 0,001 m Std. Dev. = 0,016 m Min. = -0,051 m Max. = 0,049 m**



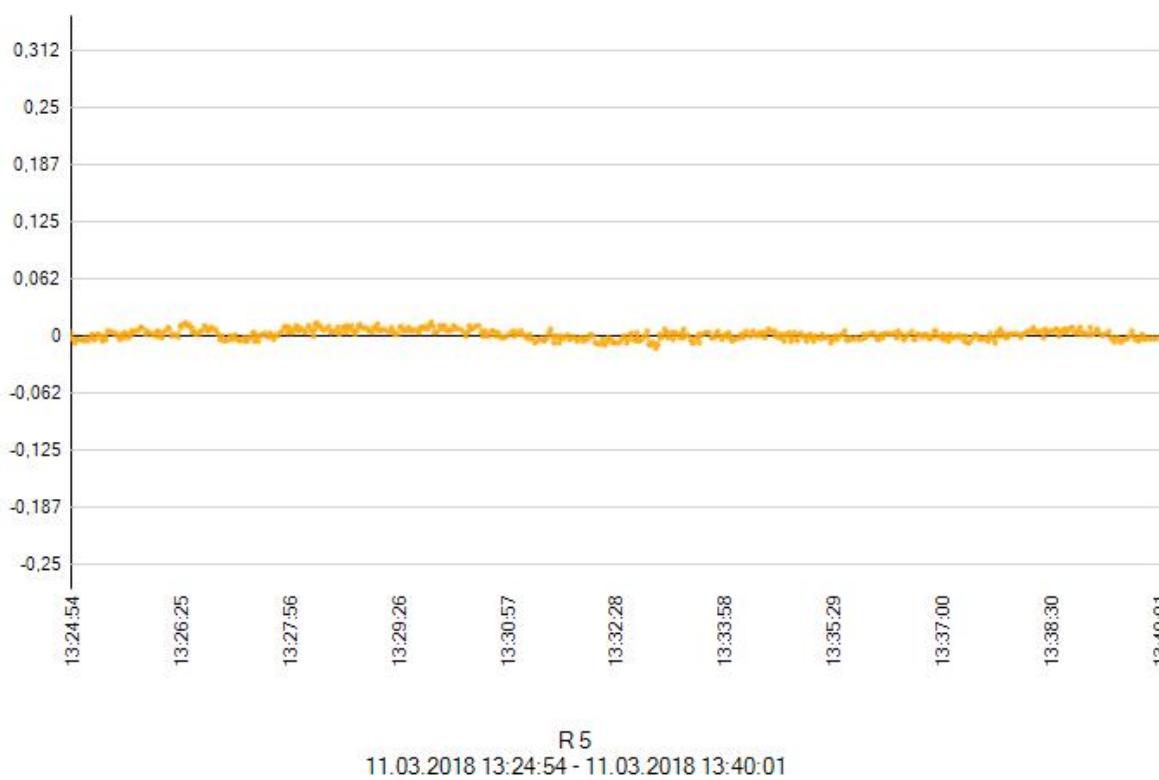
**Mean = -0,001 m Std. Dev. = 0,005 m Min. = -0,016 m Max. = 0,014 m**



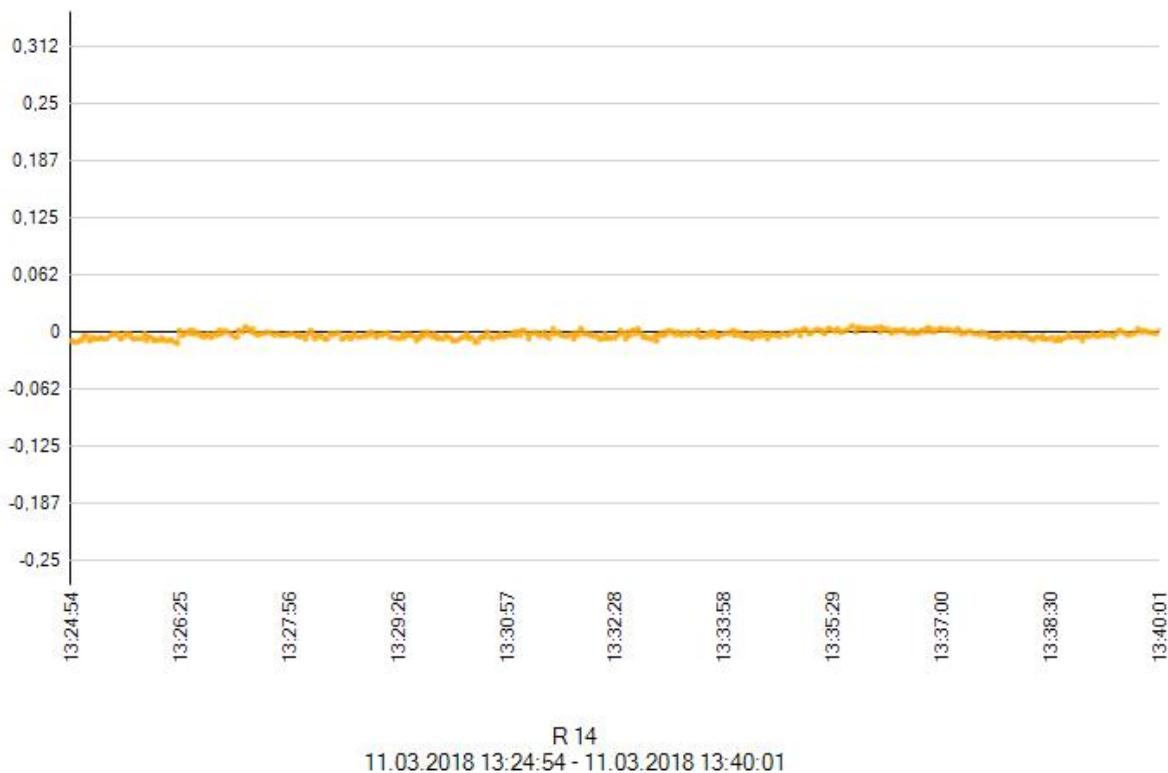
**Mean = 0,001 m Std. Dev. = 0,005 m Min. = -0,011 m Max. = 0,015 m**



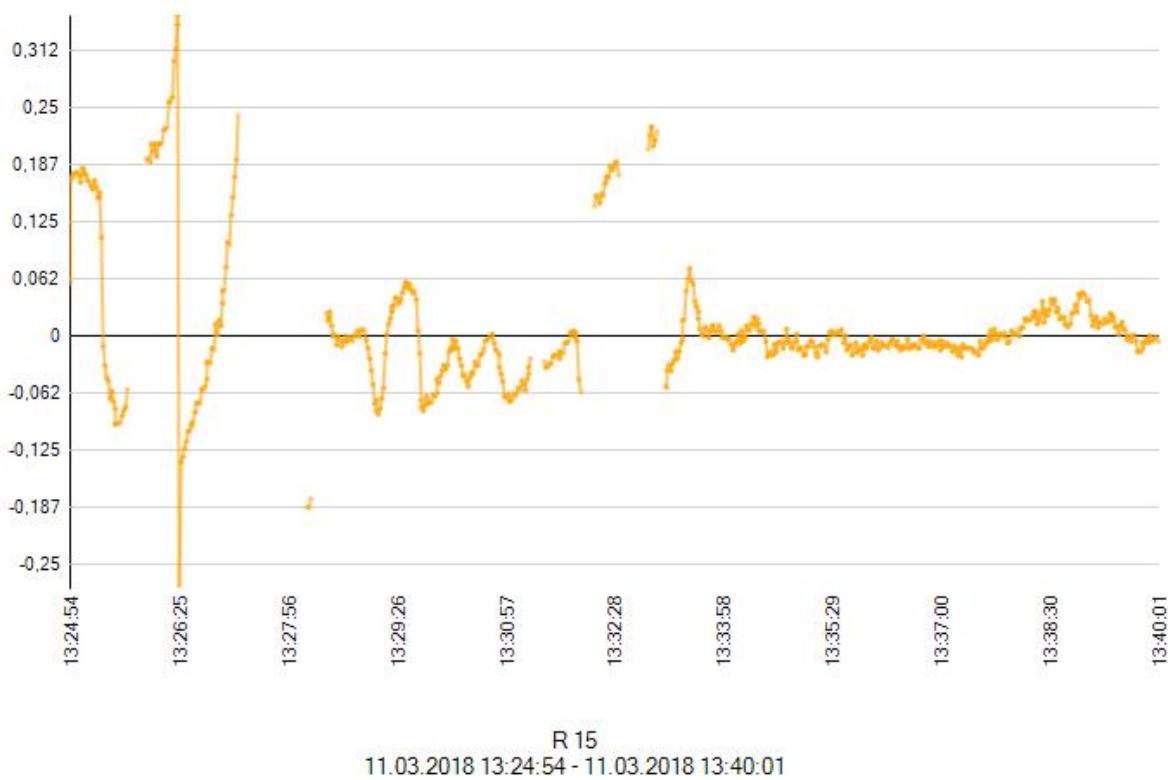
**Mean = 0,002 m Std. Dev. = 0,005 m Min. = -0,013 m Max. = 0,015 m**



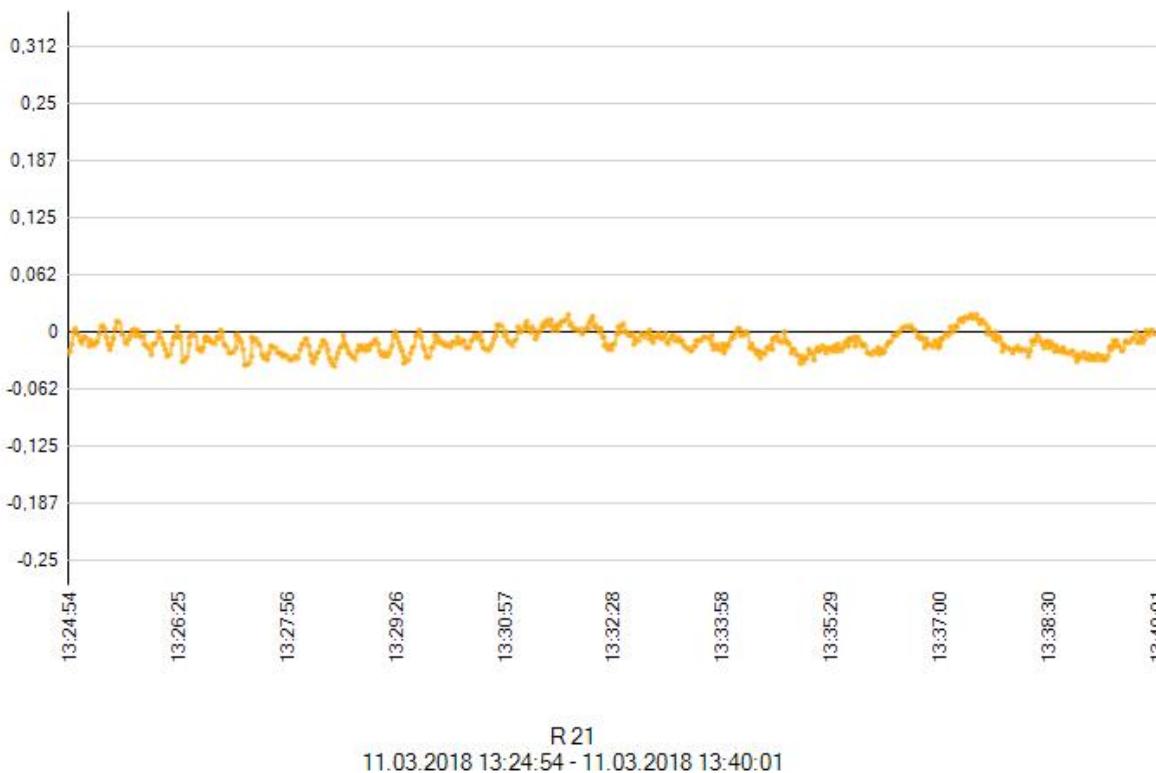
**Mean = -0,003 m Std. Dev. = 0,003 m Min. = -0,012 m Max. = 0,007 m**



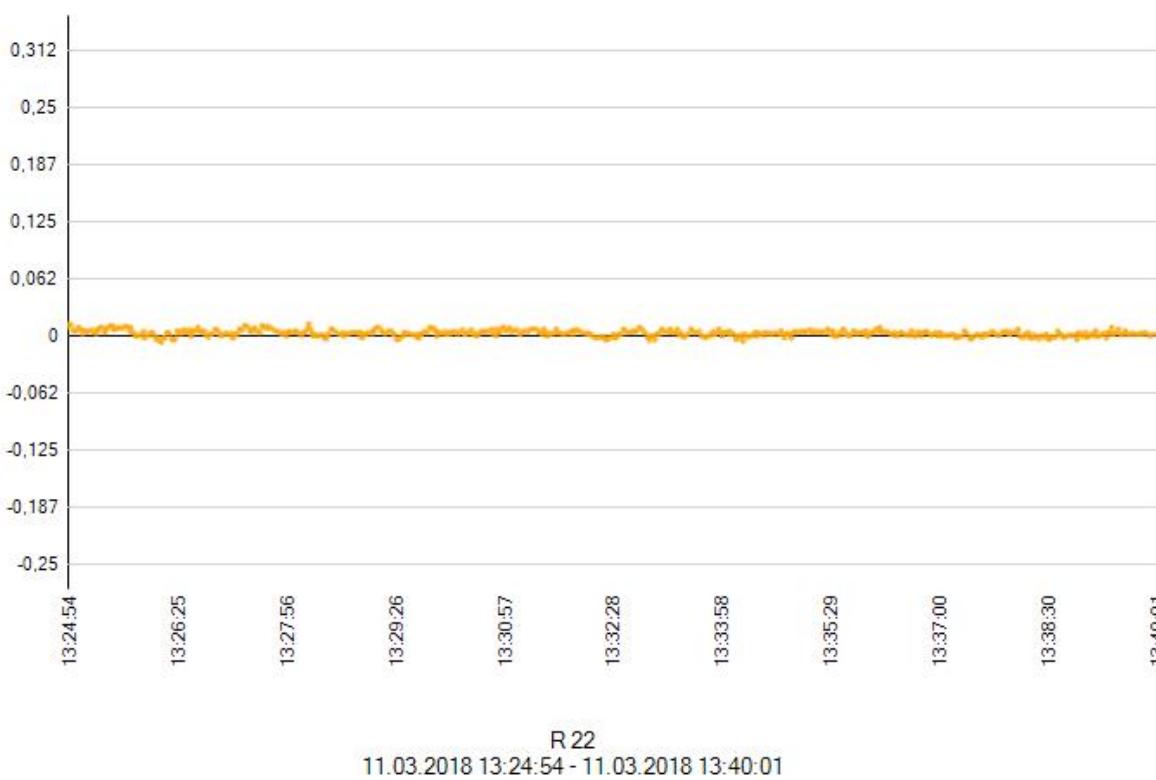
**Mean = 0,012 m Std. Dev. = 0,076 m Min. = -0,275 m Max. = 0,350 m**

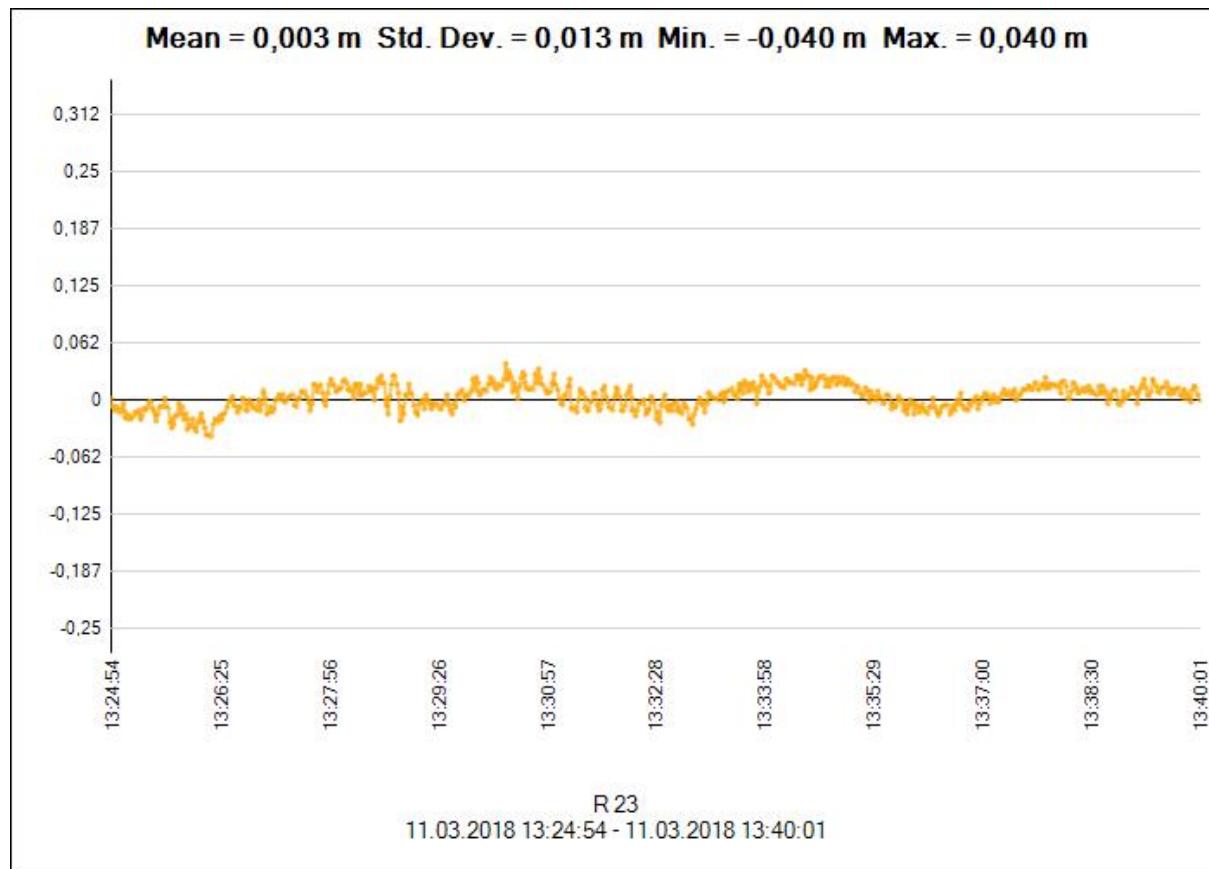


**Mean = -0,011 m Std. Dev. = 0,011 m Min. = -0,037 m Max. = 0,020 m**



**Mean = 0,003 m Std. Dev. = 0,003 m Min. = -0,007 m Max. = 0,014 m**





## 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: Multiple Frequencies  
 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

LYRS - T1 (11:25:02-11:43:26) (S5)

Baseline observation: LYRS --- T1 (B5)  
 Processed: 23.03.2018 14:29:19  
 Solution type: Fixed  
 Frequency used: Dual Frequency (L1, L2)  
 Horizontal precision: 0,010 m  
 Vertical precision: 0,030 m  
 RMS: 0,001 m  
 Maximum PDOP: 2,028  
 Ephemeris used: Broadcast  
 Antenna model: Trimble Calibration  
 Processing start time: 11.03.2018 11:25:02 (Local: UTC+1hr)  
 Processing stop time: 11.03.2018 11:43:26 (Local: UTC+1hr)  
 Processing duration: 12:18:24 AM  
 Processing interval: 1 second

Vector Components (Mark to Mark)

From:	LYRS				
Grid		Local		Global	
Easting	509048,138 m	Latitude	N78°13'43,77230"	Latitude	N78°13'43,77230"
Northing	8683937,568 m	Longitude	E15°23'50,31623"	Longitude	E15°23'50,31623"
Elevation	495,682 m	Height	495,682 m	Height	495,682 m

To:	T1				
Grid		Local		Global	
Easting	528388,688 m	Latitude	N78°15'17,17199"	Latitude	N78°15'17,17199"
Northing	8687105,358 m	Longitude	E16°14'57,70582"	Longitude	E16°14'57,70582"
Elevation	342,013 m	Height	342,013 m	Height	342,013 m

Vector					
9Ughjb[	19340,550 m	NS Fwd Azimuth	81°05'14"	L	-8046,297 m
Bcfh]b[	3167,789 m	Ellipsoid Dist.	19606,010 m	M	17875,483 m
9Yj Uhcb	-153,668 m	<Y]\h	-153,668 m	N	439,872 m

## Standard Errors

Vector errors:

9Ughb[	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	0,003 m	M	0,003 m
9`Yj Uhcb	0,015 m	<Y][\h	0,015 m	N	0,015 m

## Aposteriori Covariance Matrix (Meter<sup>2</sup>)

	X	Y	Z
X	0,0000093607		
Y	0,0000027049	0,0000085899	
Z	0,0000056617	0,0000160671	0,0002375488

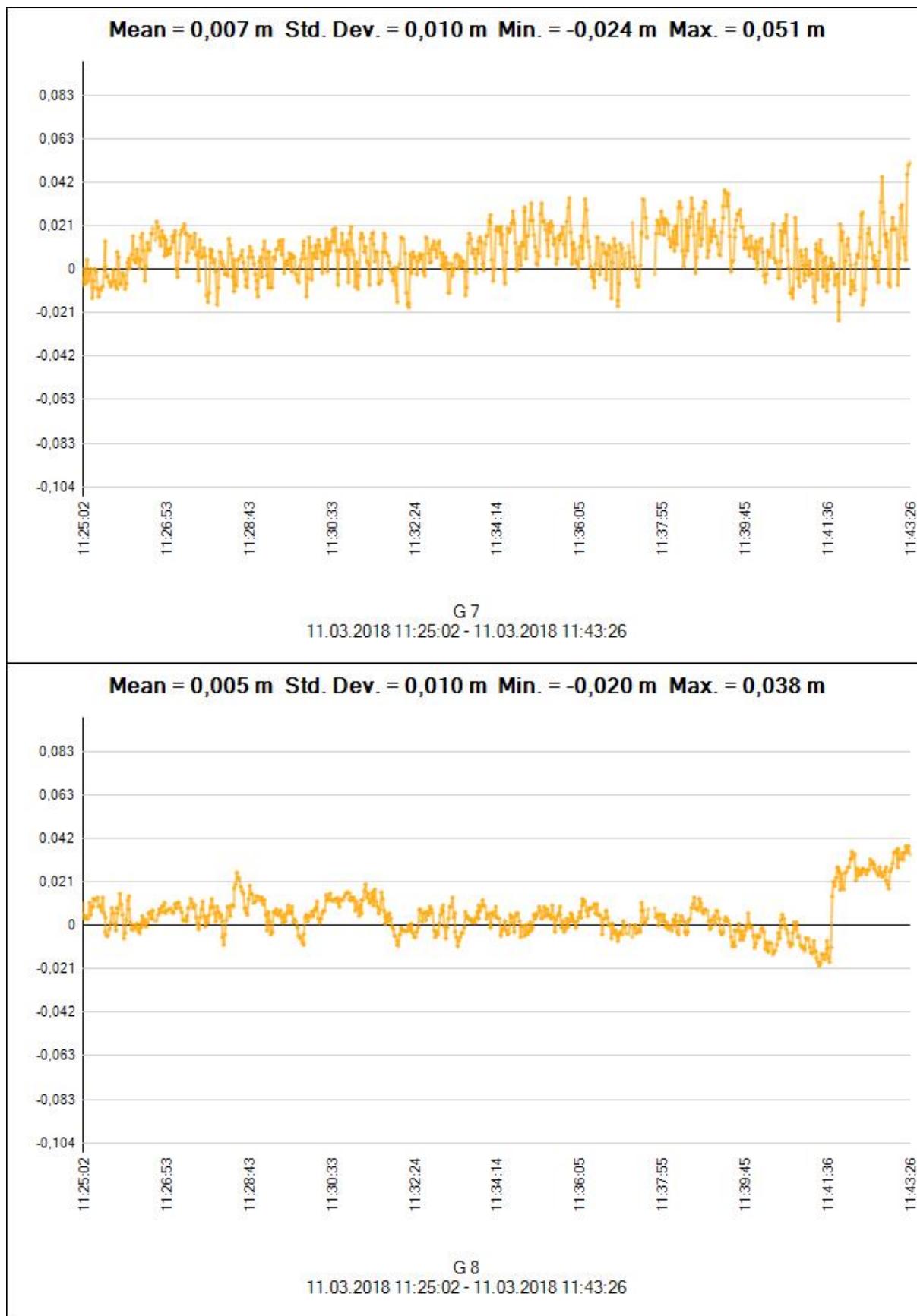
## Occupations

	From	To
Point ID:	LYRS	T1
Data file:	C:\Users\lth842\Documents\Trimble Business Center\Unnamed(1)\lyrs0700.18o	C:\Users\lth842\Documents\Trimble Business Center\Unnamed(1)\46250700.t02
Receiver type:	NetR9	R4
Receiver serial number:	5504R50012	5127468778
Antenna type:	Zephyr Geodetic	R4 Internal
Antenna serial number:	60111442	47477114
Antenna height (measured):	0,000 m	2,200 m
Antenna method:	Bottom of antenna mount	Bottom of antenna mount

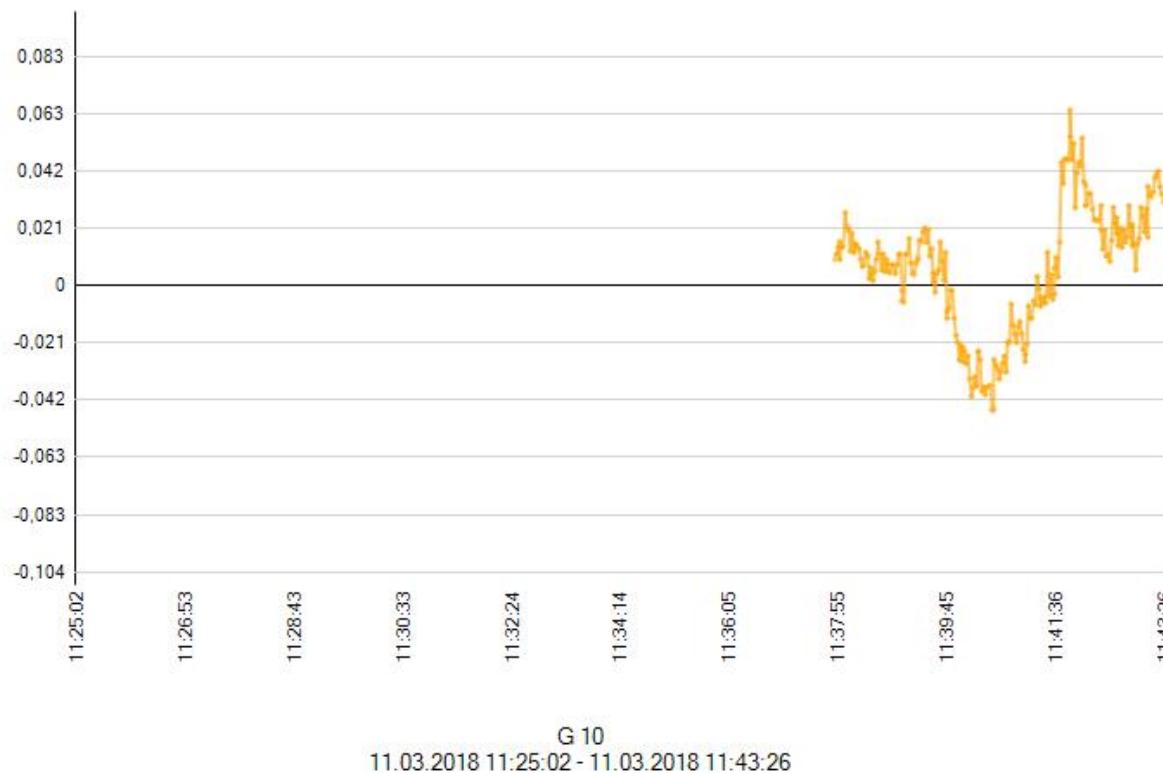
## Tracking Summary

SV	11.03.2018 11:25:02	Duration: 00:18:24 Major interval: 00:01:00	11.03.2018 11:43:26
G 7	L1 L2		
G 8	L1 L2		
G 10	L1 L2		
G 13	L1 L2		
G 15	L1 L2		
G 20	L1 L2		
G 21	L1 L2		
G 27	L1 L2		
G 28	L1 L2		
G 30	L1 L2		
R 2	L1 L2		
R 3	L1 L2		
R 4	L1 L2		
R 11	L1 L2		
R 12	L1		
R 13	L1 L2		
R 20	L1 L2		
R 21	L1 L2		

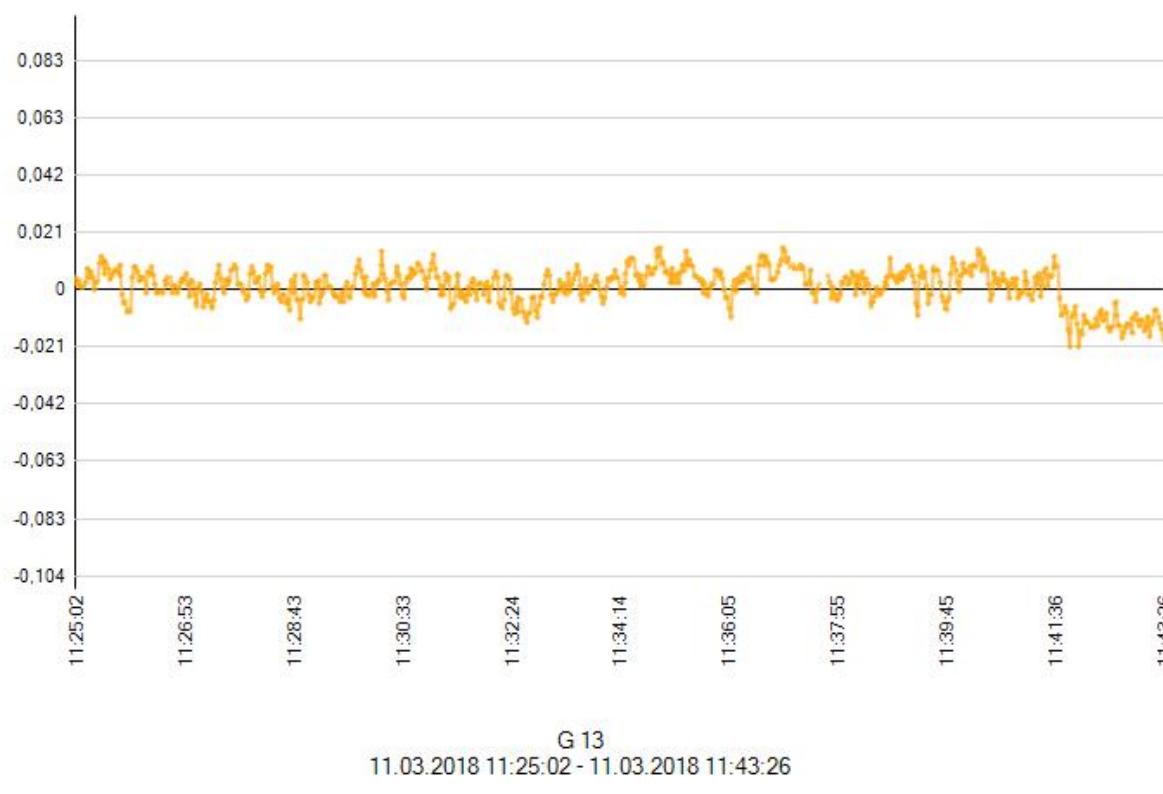
## Residuals



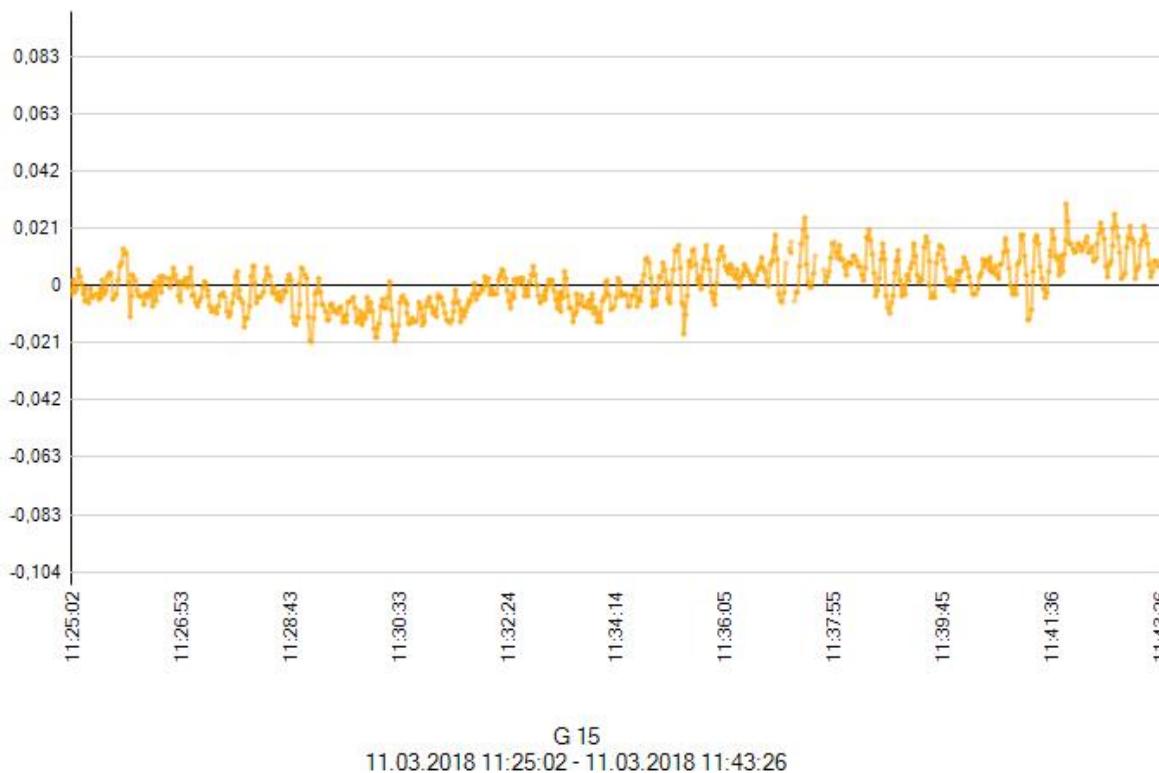
**Mean = 0,005 m Std. Dev. = 0,022 m Min. = -0,046 m Max. = 0,064 m**



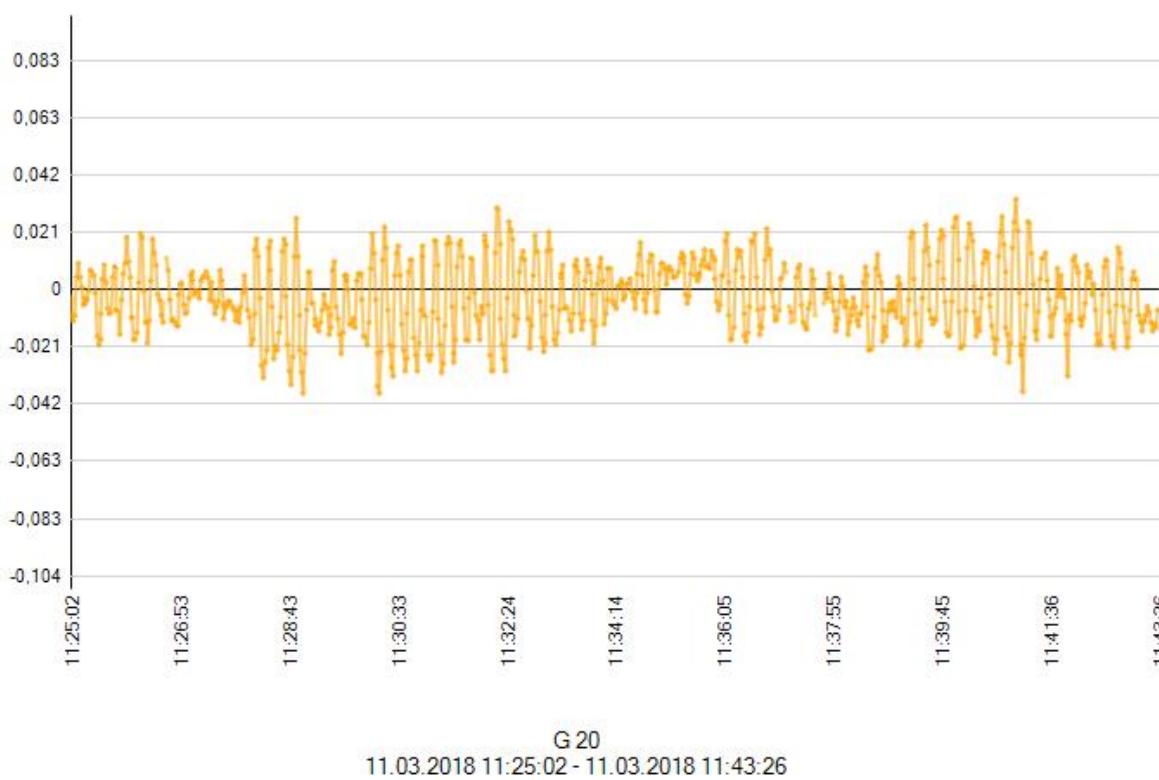
**Mean = 0,001 m Std. Dev. = 0,006 m Min. = -0,021 m Max. = 0,015 m**



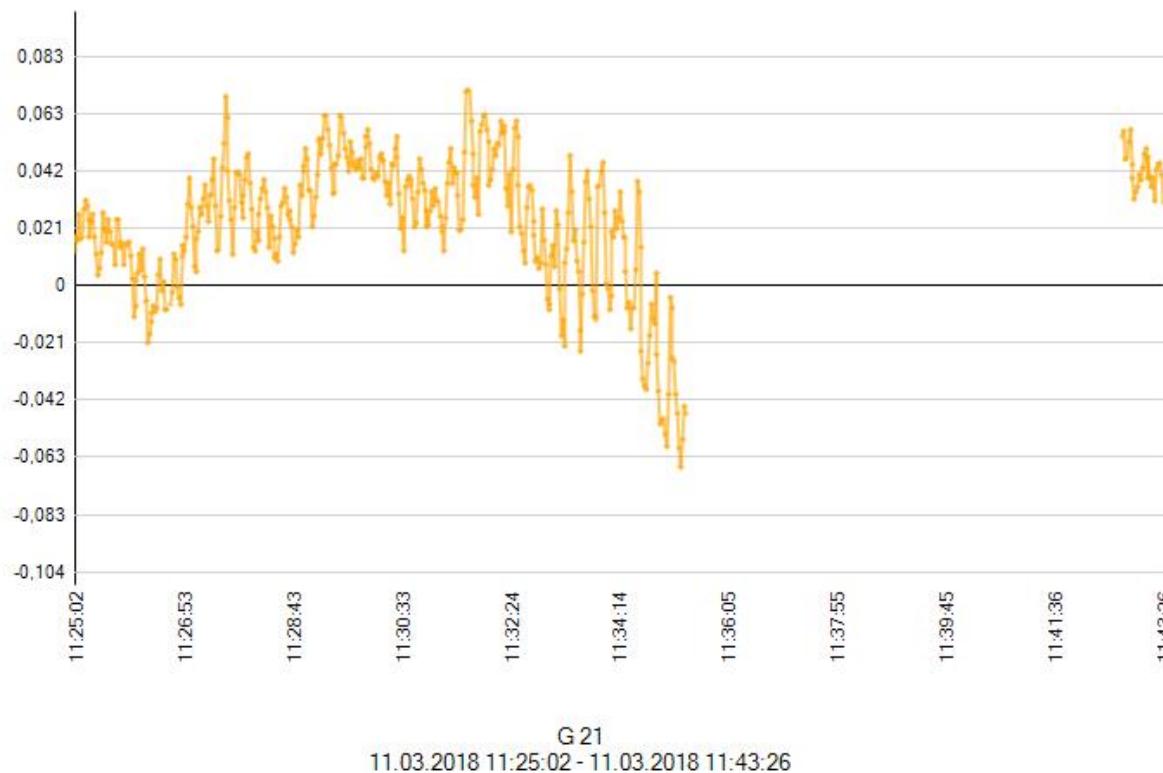
**Mean = 0,001 m Std. Dev. = 0,008 m Min. = -0,021 m Max. = 0,030 m**



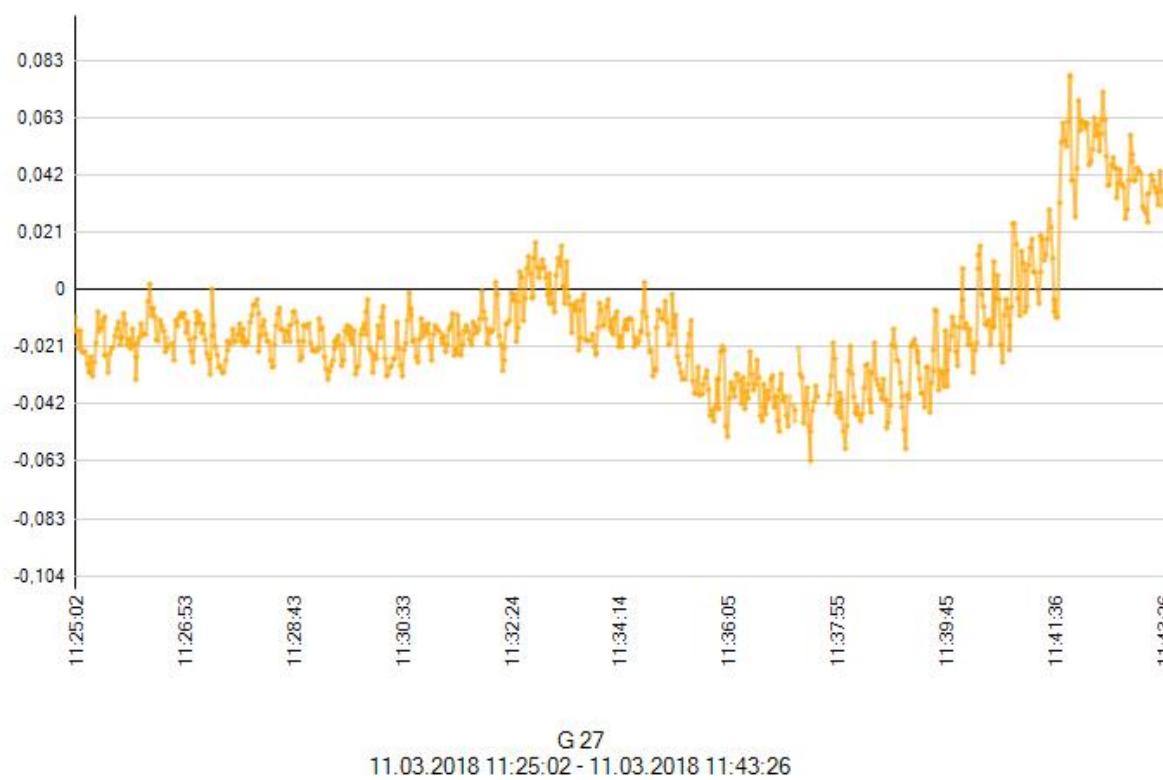
**Mean = -0,003 m Std. Dev. = 0,012 m Min. = -0,038 m Max. = 0,033 m**



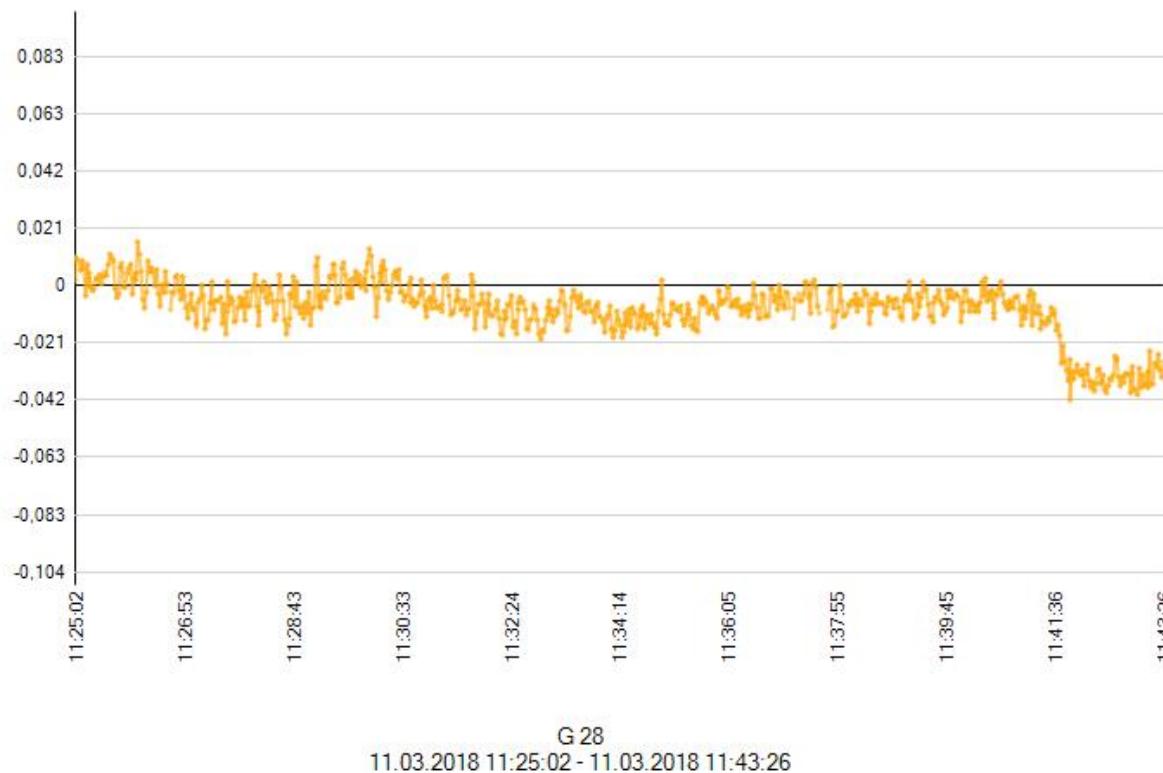
**Mean = 0,022 m Std. Dev. = 0,024 m Min. = -0,066 m Max. = 0,071 m**



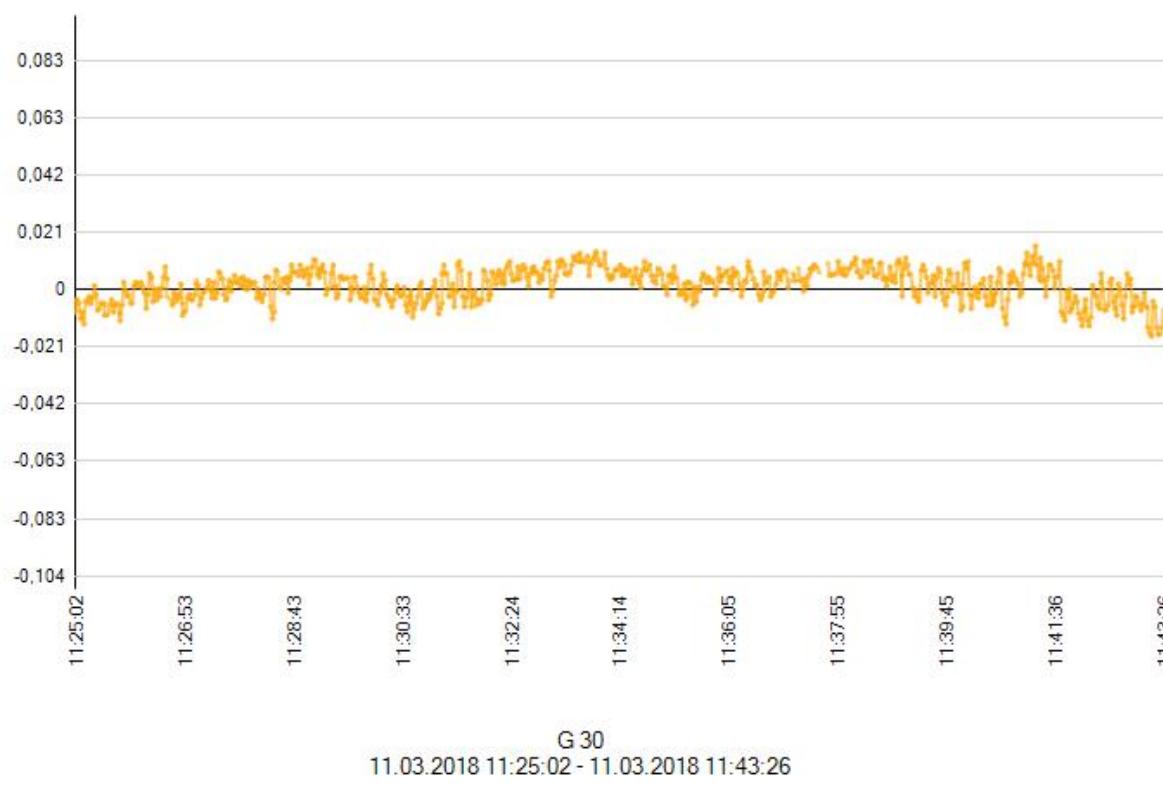
**Mean = -0,012 m Std. Dev. = 0,023 m Min. = -0,062 m Max. = 0,078 m**



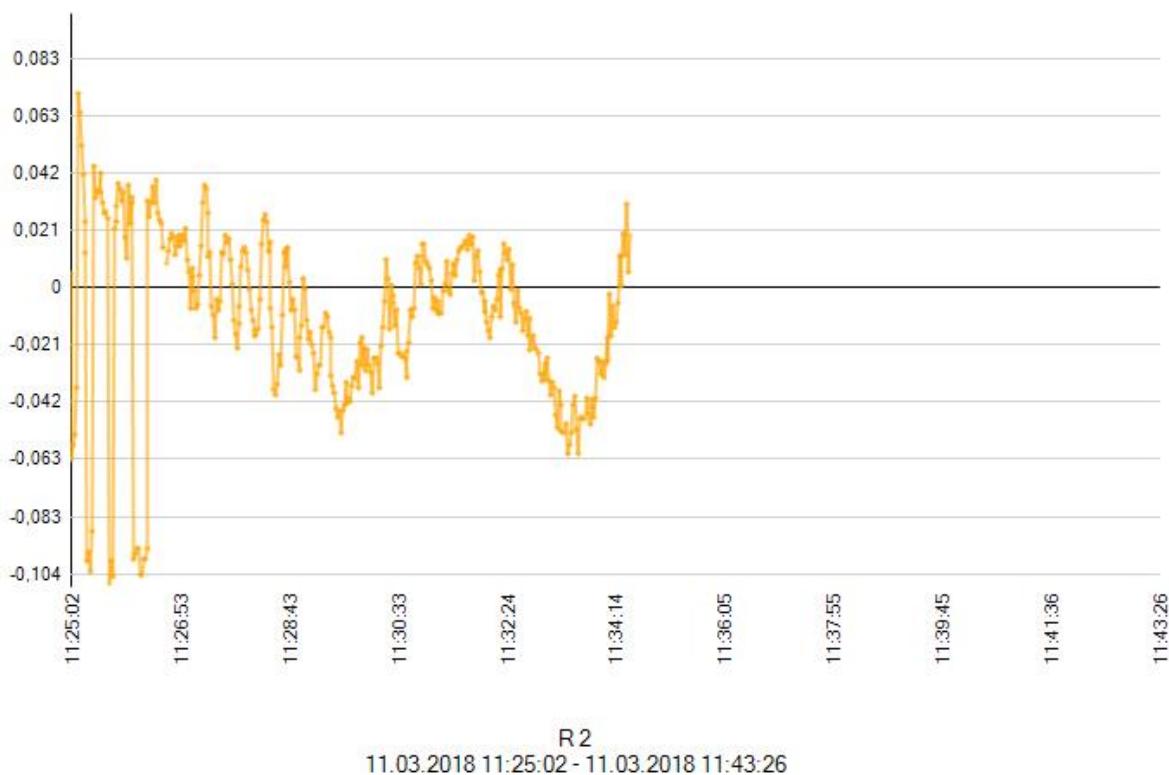
**Mean = -0,008 m Std. Dev. = 0,010 m Min. = -0,041 m Max. = 0,016 m**



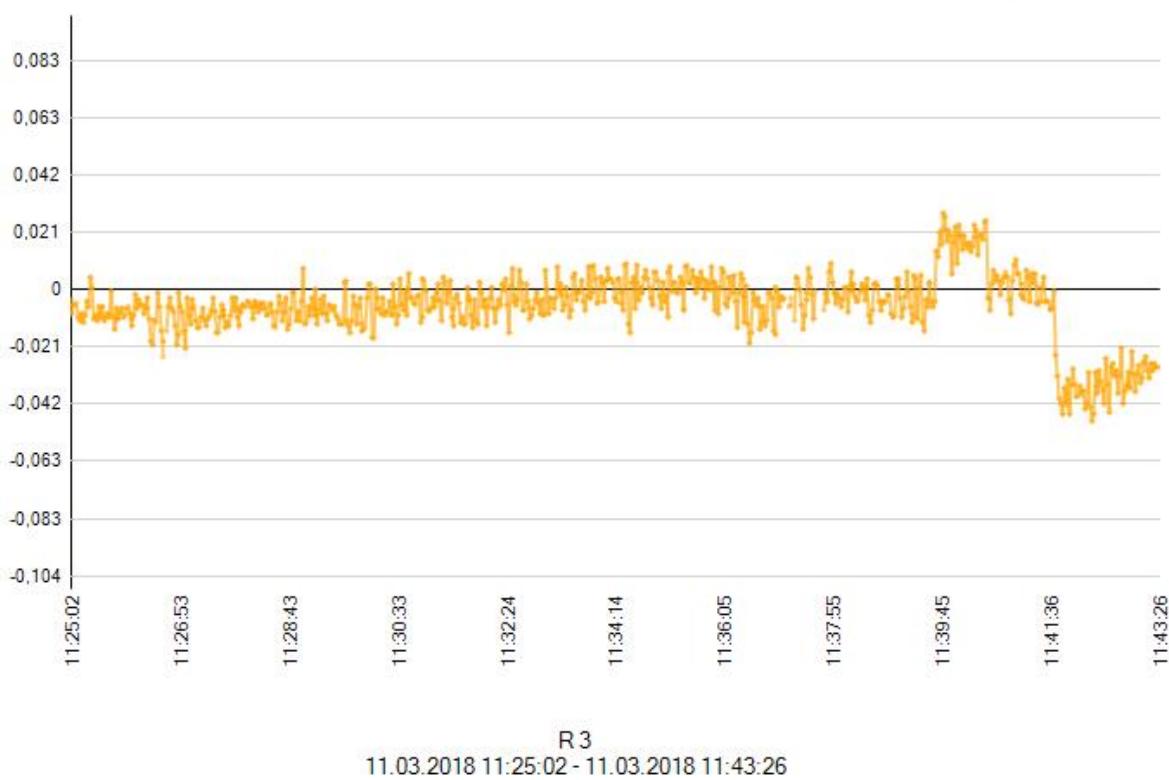
**Mean = 0,002 m Std. Dev. = 0,005 m Min. = -0,017 m Max. = 0,016 m**



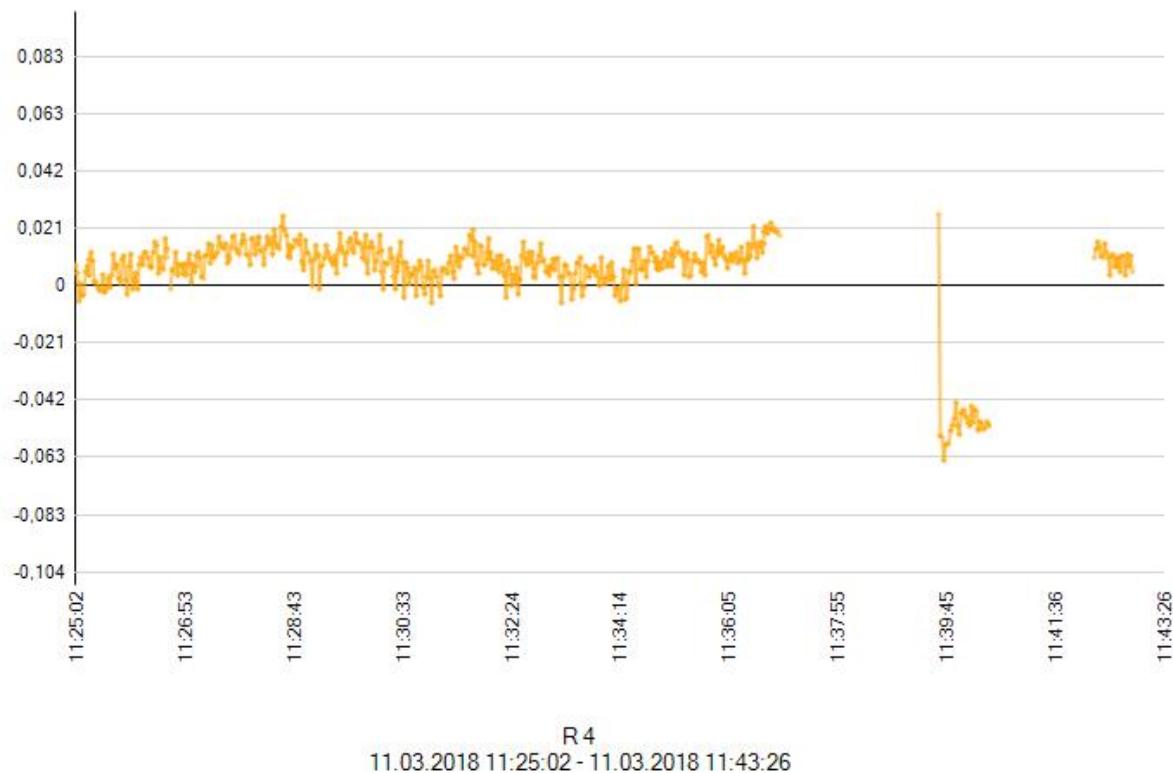
**Mean = -0,010 m Std. Dev. = 0,030 m Min. = -0,109 m Max. = 0,070 m**



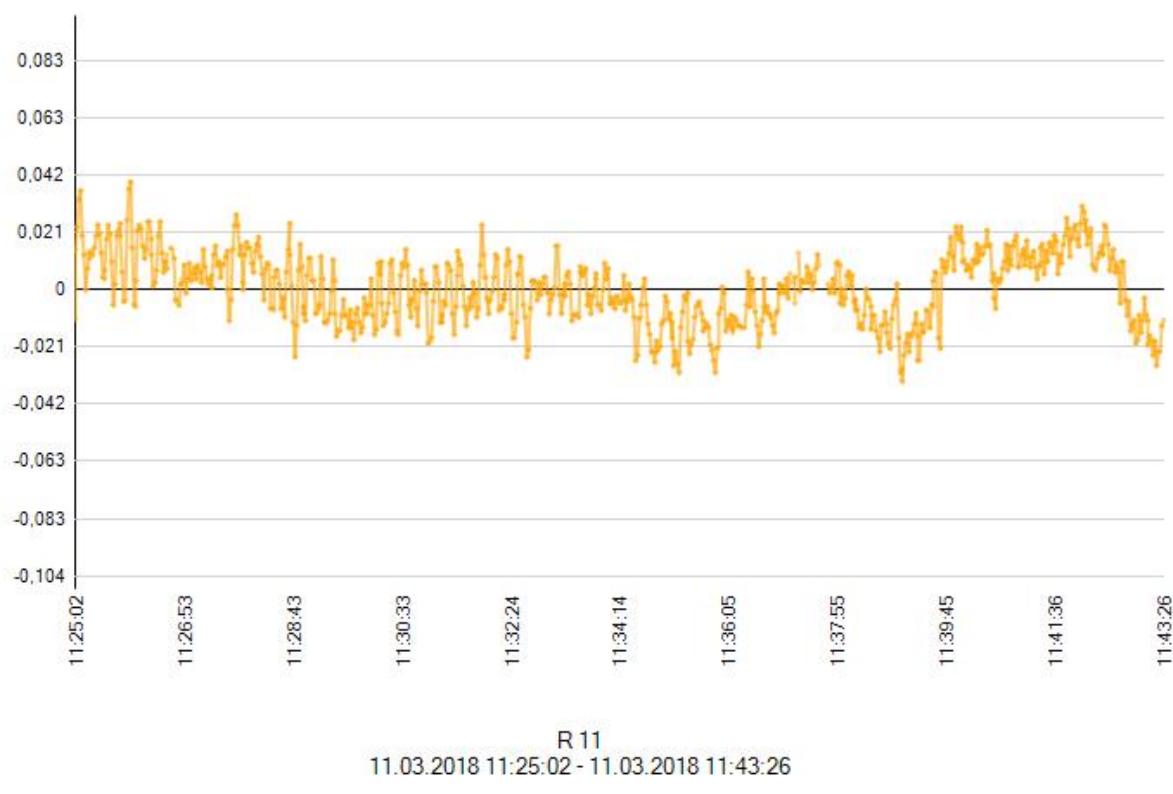
**Mean = -0,006 m Std. Dev. = 0,011 m Min. = -0,048 m Max. = 0,028 m**



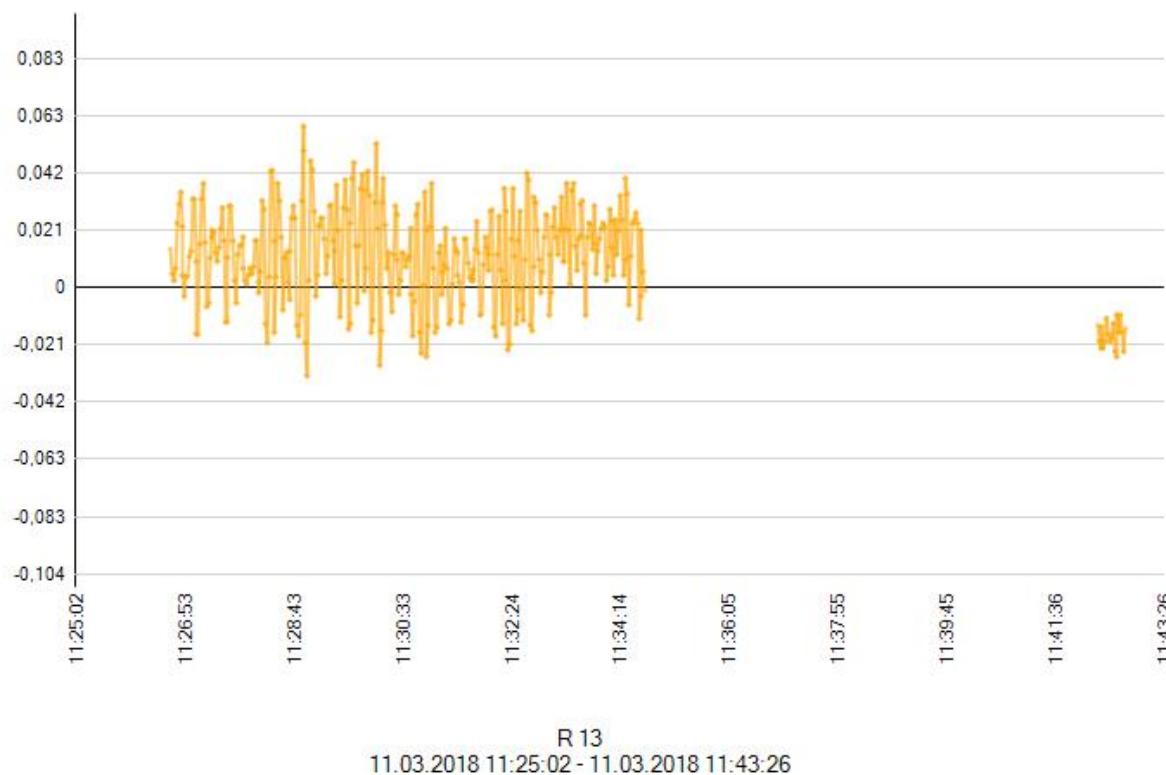
**Mean = 0,004 m Std. Dev. = 0,015 m Min. = -0,064 m Max. = 0,028 m**



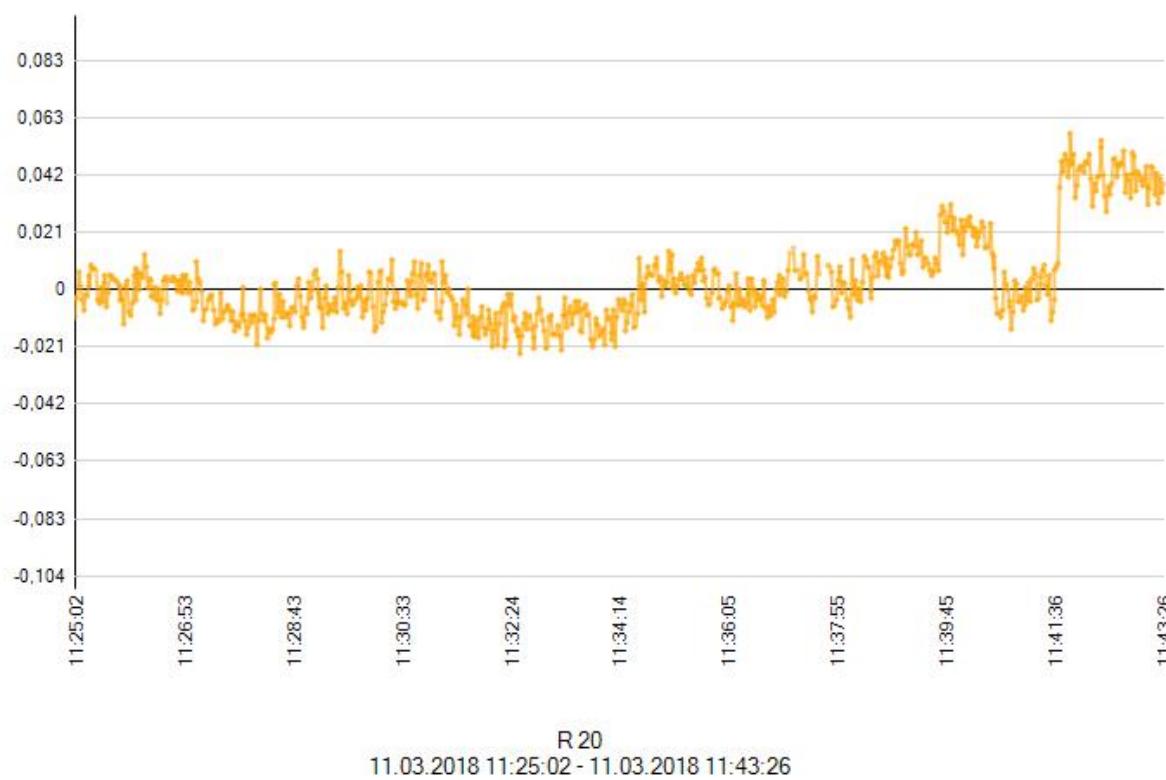
**Mean = 0,000 m Std. Dev. = 0,012 m Min. = -0,034 m Max. = 0,039 m**

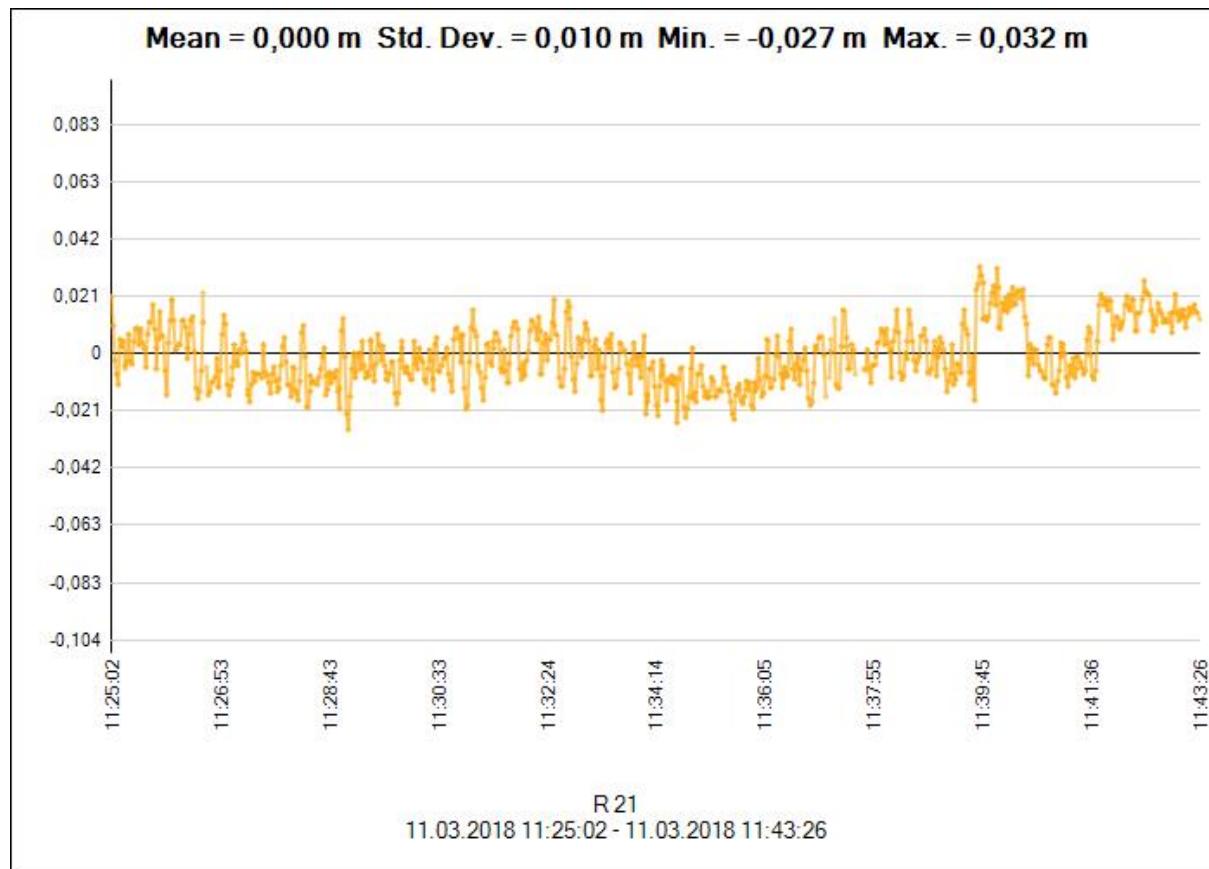


**Mean = 0,010 m Std. Dev. = 0,016 m Min. = -0,032 m Max. = 0,059 m**



**Mean = 0,003 m Std. Dev. = 0,015 m Min. = -0,023 m Max. = 0,057 m**





### 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: Multiple Frequencies  
 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

LYRS - T1 (11:53:58-12:09:24) (S6)

Baseline observation: LYRS --- T1 (B6)  
 Processed: 23.03.2018 14:29:29  
 Solution type: Fixed  
 Frequency used: Dual Frequency (L1, L2)  
 Horizontal precision: 0,009 m  
 Vertical precision: 0,020 m  
 RMS: 0,002 m  
 Maximum PDOP: 1,562  
 Ephemeris used: Broadcast  
 Antenna model: Trimble Calibration  
 Processing start time: 11.03.2018 11:53:58 (Local: UTC+1hr)  
 Processing stop time: 11.03.2018 12:09:24 (Local: UTC+1hr)  
 Processing duration: 12:15:26 AM  
 Processing interval: 1 second

Vector Components (Mark to Mark)

From:	LYRS				
Grid		Local		Global	
Easting	509048,138 m	Latitude	N78°13'43,77230"	Latitude	N78°13'43,77230"
Northing	8683937,568 m	Longitude	E15°23'50,31623"	Longitude	E15°23'50,31623"
Elevation	495,682 m	Height	495,682 m	Height	495,682 m

To:	T1				
Grid		Local		Global	
Easting	528388,705 m	Latitude	N78°15'17,17217"	Latitude	N78°15'17,17217"
Northing	8687105,364 m	Longitude	E16°14'57,70859"	Longitude	E16°14'57,70859"
Elevation	342,052 m	Height	342,052 m	Height	342,052 m

Vector					
9Ughjb[	19340,567 m	NS Fwd Azimuth	81°05'14"	L	-8046,299 m
Bcfh]b[	3167,795 m	Ellipsoid Dist.	19606,028 m	M	17875,500 m
9Yj Uhcb	-153,630 m	<Y]\h	-153,630 m	N	439,911 m

## Standard Errors

Vector errors:

9Ughb[	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	0,003 m	M	0,003 m
9`Yj Uhcb	0,010 m	<Y][\h	0,010 m	N	0,010 m

## Aposteriori Covariance Matrix (Meter<sup>2</sup>)

	X	Y	Z
X	0,0000091496		
Y	0,0000012585	0,0000098154	
Z	0,0000019287	-0,0000010116	0,0001062677

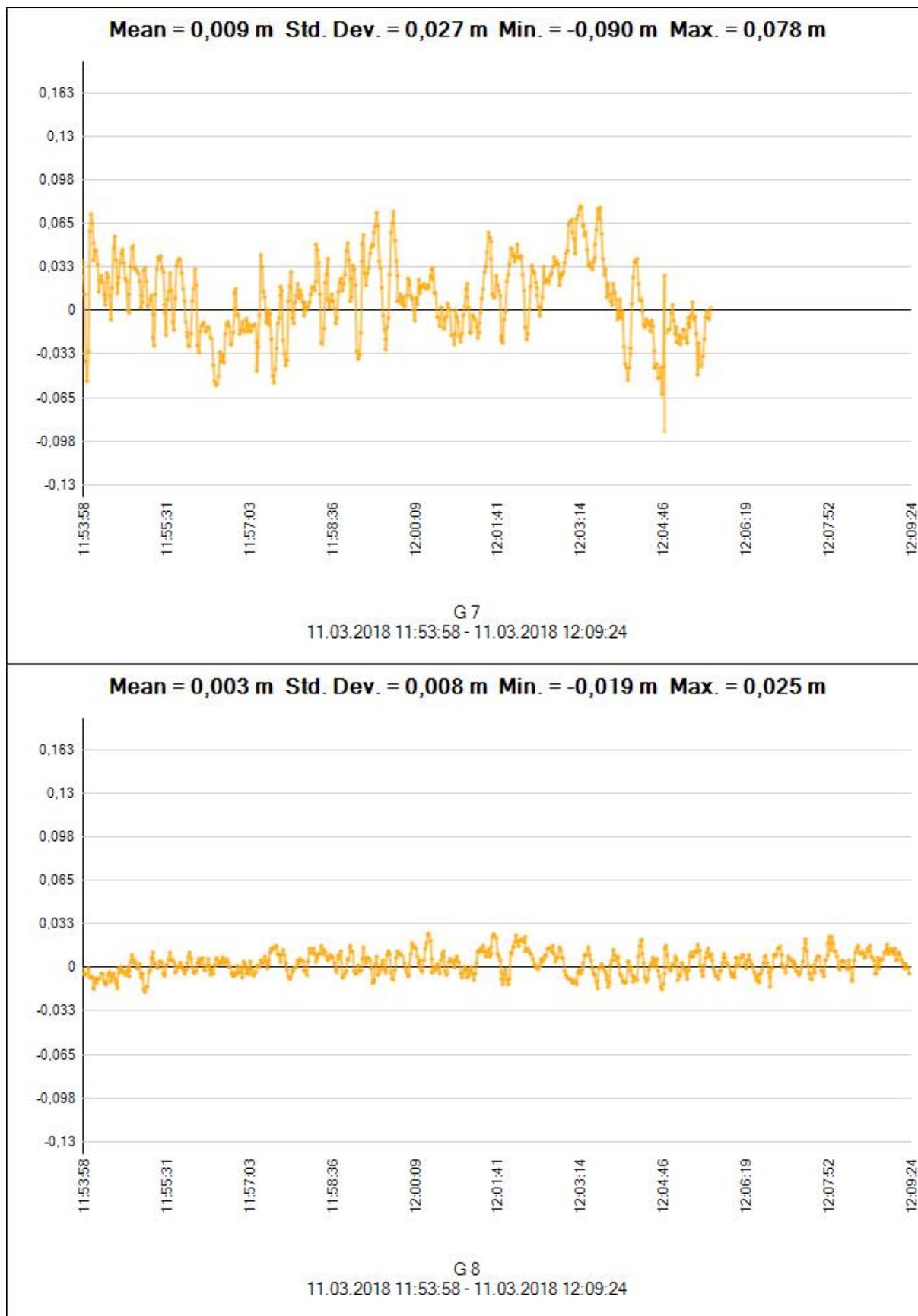
## Occupations

	From	To
Point ID:	LYRS	T1
Data file:	C:\Users\lth842\Documents\Trimble Business Center\Unnamed(1)\lyrs0700.18o	C:\Users\lth842\Documents\Trimble Business Center\Unnamed(1)\46250701.t02
Receiver type:	NetR9	R4
Receiver serial number:	5504R50012	5127468778
Antenna type:	Zephyr Geodetic	R4 Internal
Antenna serial number:	60111442	47477114
Antenna height (measured):	0,000 m	2,120 m
Antenna method:	Bottom of antenna mount	Bottom of antenna mount

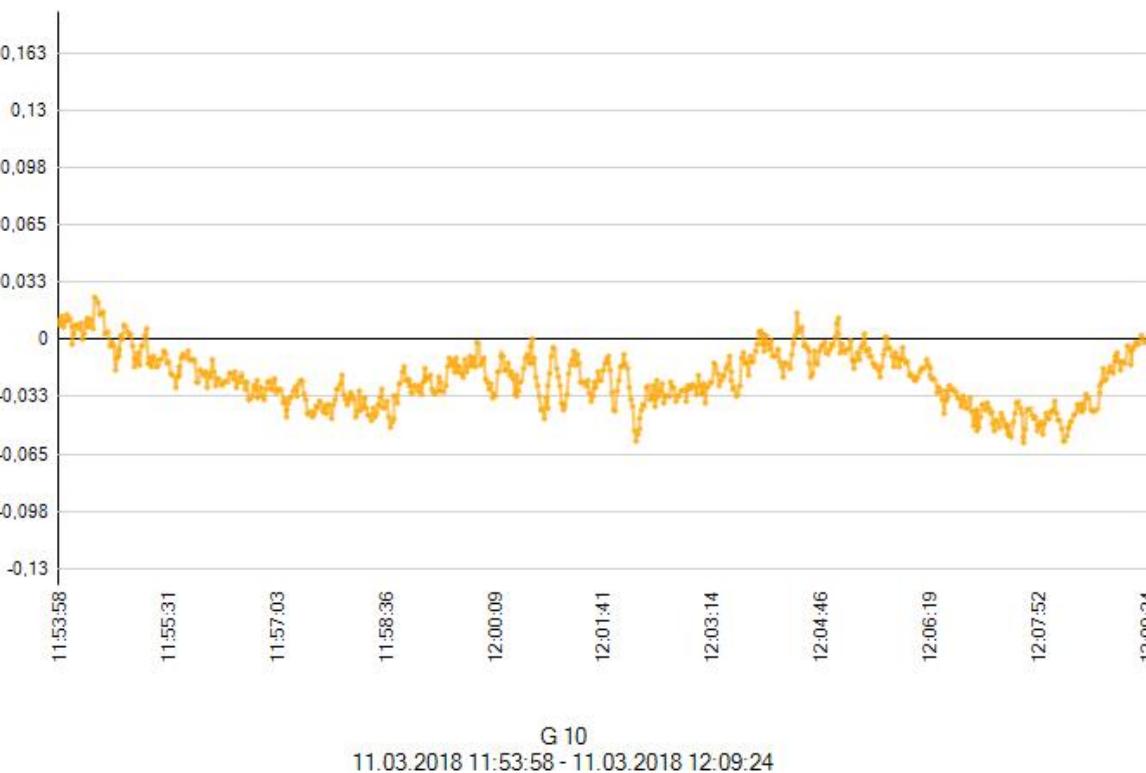
## Tracking Summary

SV	11.03.2018 11:53:58	Duration: 00:15:26 Major interval: 00:01:00	11.03.2018 12:09:24
G 7	L1 L2		
G 8	L1 L2		
G 10	L1 L2		
G 11	L1 L2		
G 13	L1 L2		
G 15	L1 L2		
G 20	L1 L2		
G 21	L1 L2		
G 27	L1 L2		
G 28	L1 L2		
G 30	L1 L2		
R 3	L1 L2		
R 4	L1 L2		
R 5	L1 L2		
R 11	L1 L2		
R 12	L1		
R 13	L1 L2		
R 20	L1 L2		
R 21	L1 L2		
R 22	L1 L2		

## Residuals



**Mean = -0,021 m Std. Dev. = 0,015 m Min. = -0,058 m Max. = 0,024 m**



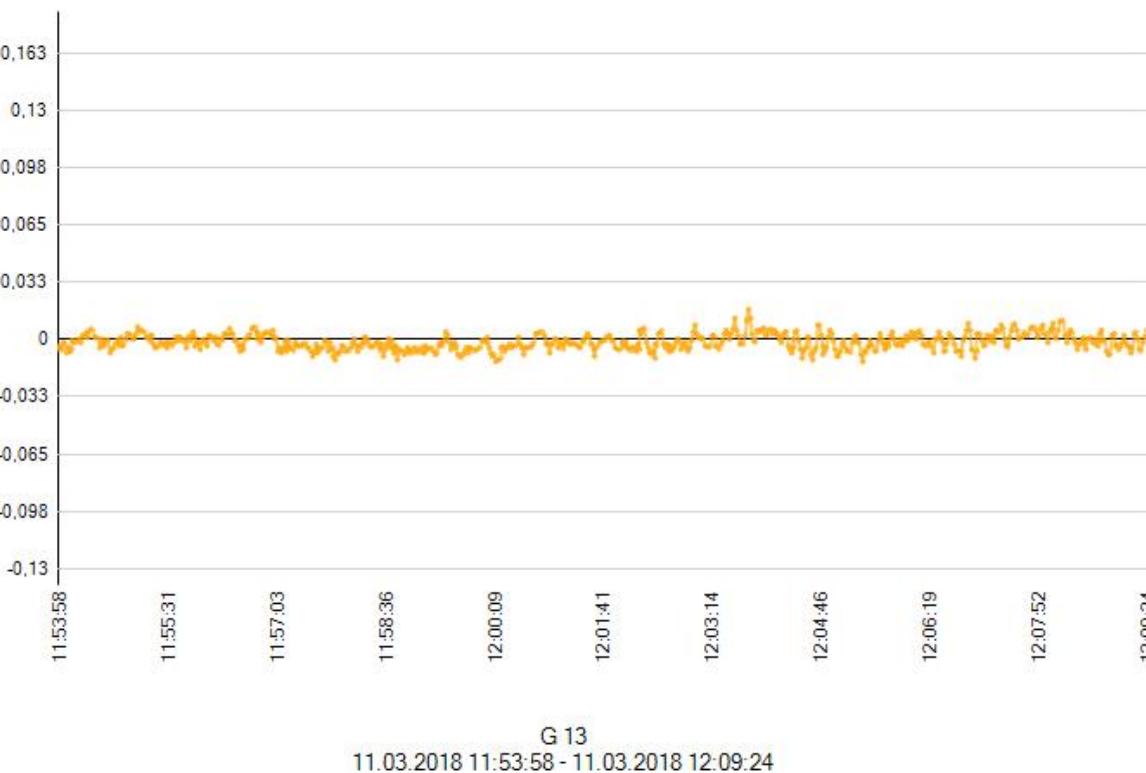
G 10  
11.03.2018 11:53:58 - 11.03.2018 12:09:24

**Mean = 0,003 m Std. Dev. = 0,036 m Min. = -0,069 m Max. = 0,083 m**

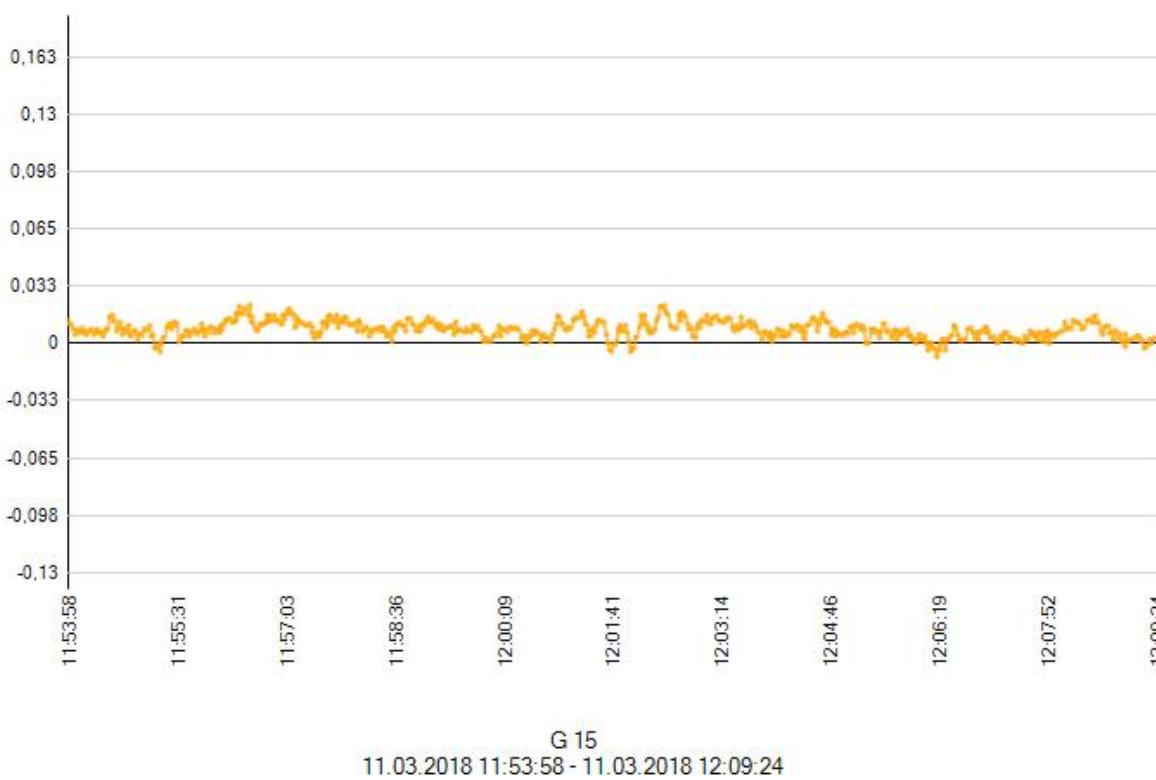


G 11  
11.03.2018 11:53:58 - 11.03.2018 12:09:24

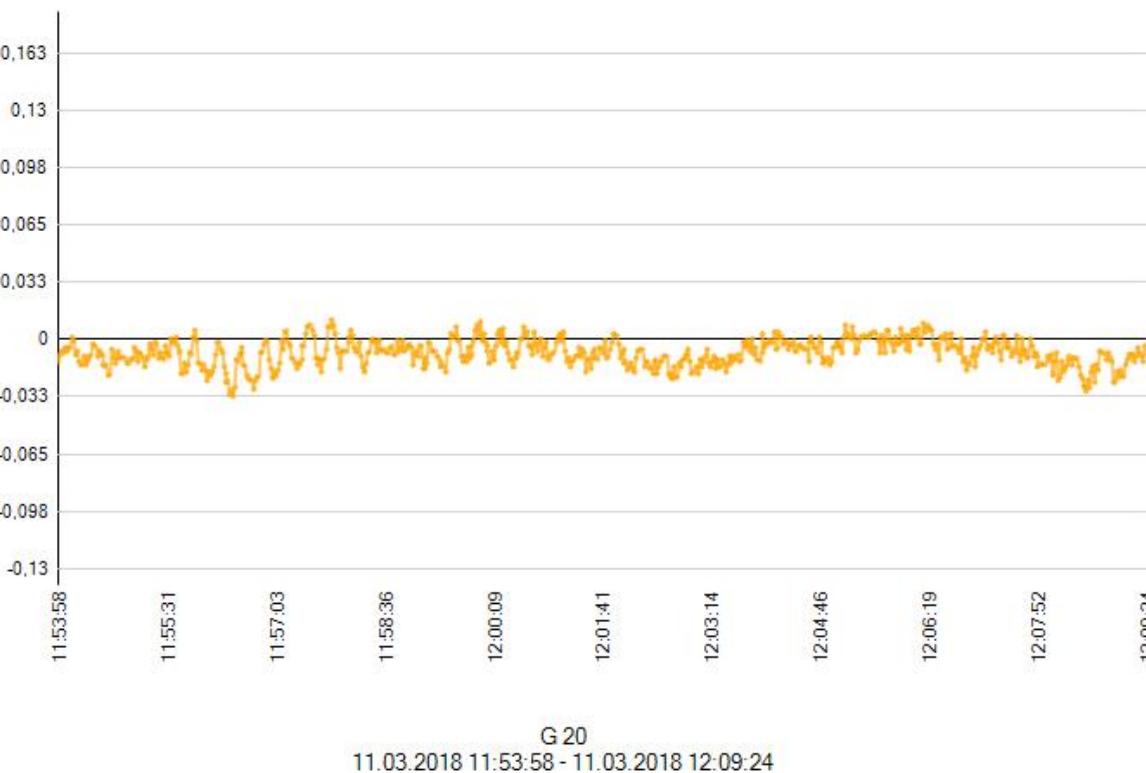
**Mean = -0,001 m Std. Dev. = 0,004 m Min. = -0,013 m Max. = 0,017 m**



**Mean = 0,008 m Std. Dev. = 0,005 m Min. = -0,008 m Max. = 0,022 m**



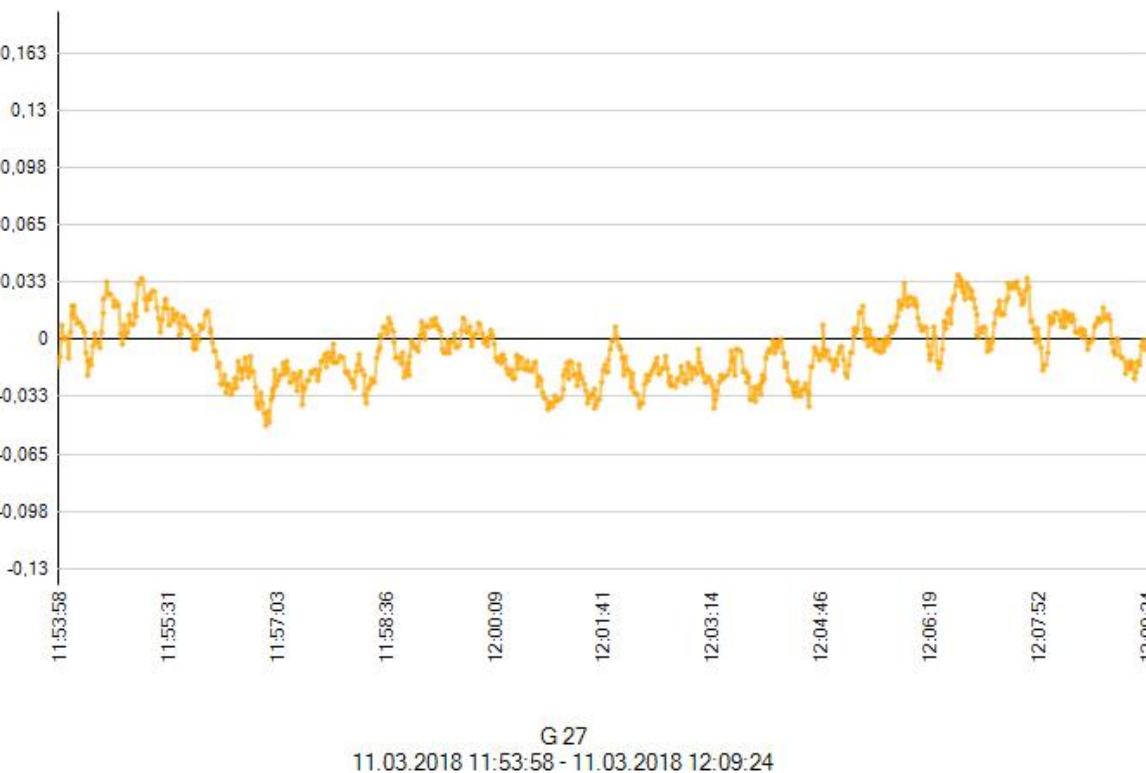
**Mean = -0,007 m Std. Dev. = 0,007 m Min. = -0,032 m Max. = 0,011 m**



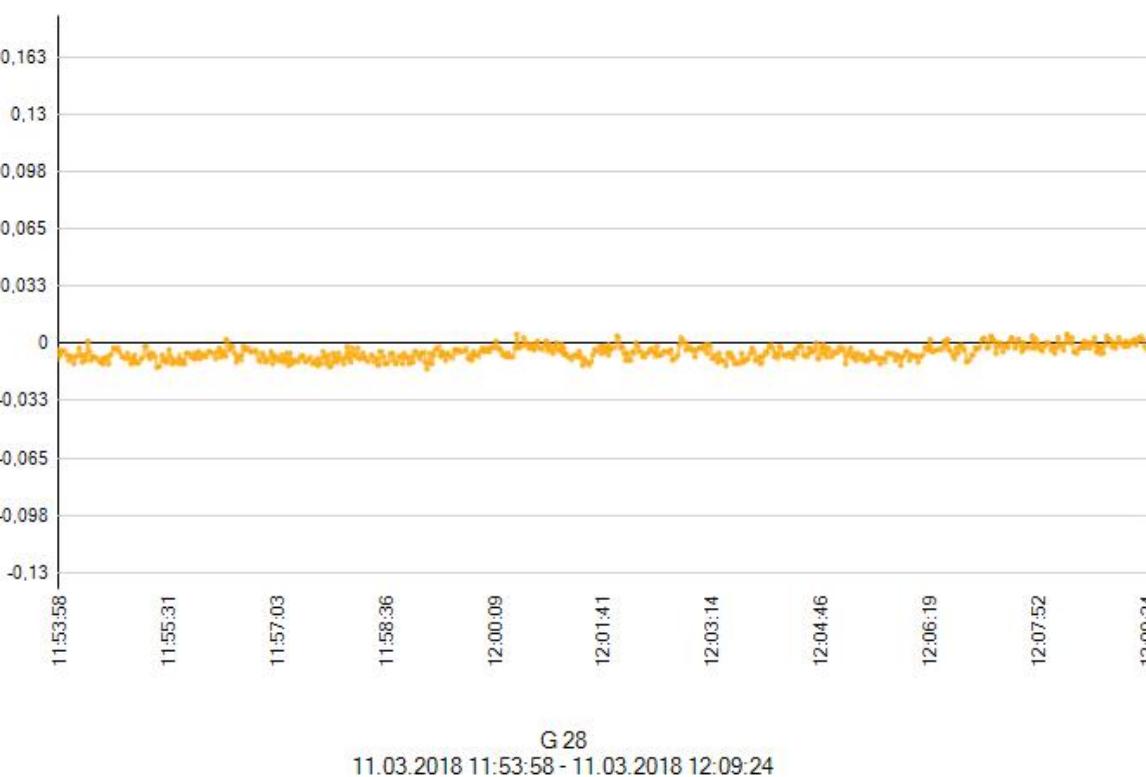
**Mean = 0,020 m Std. Dev. = 0,027 m Min. = -0,035 m Max. = 0,078 m**



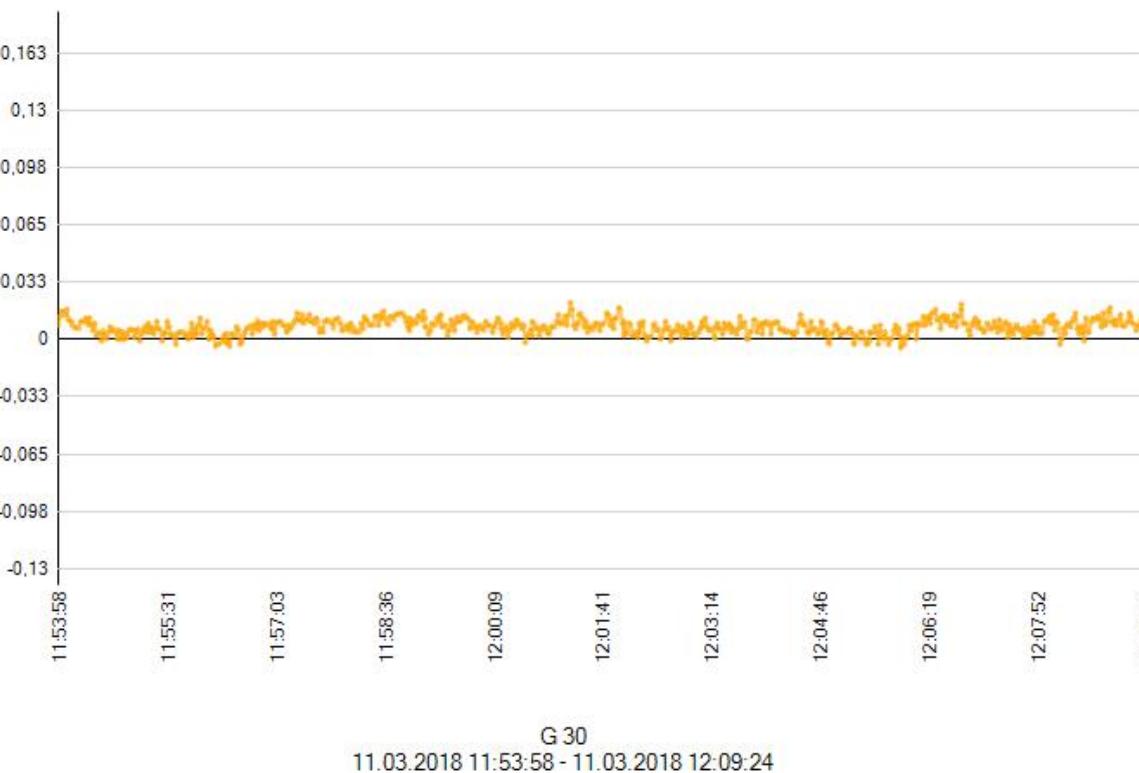
**Mean = -0,006 m Std. Dev. = 0,017 m Min. = -0,049 m Max. = 0,036 m**



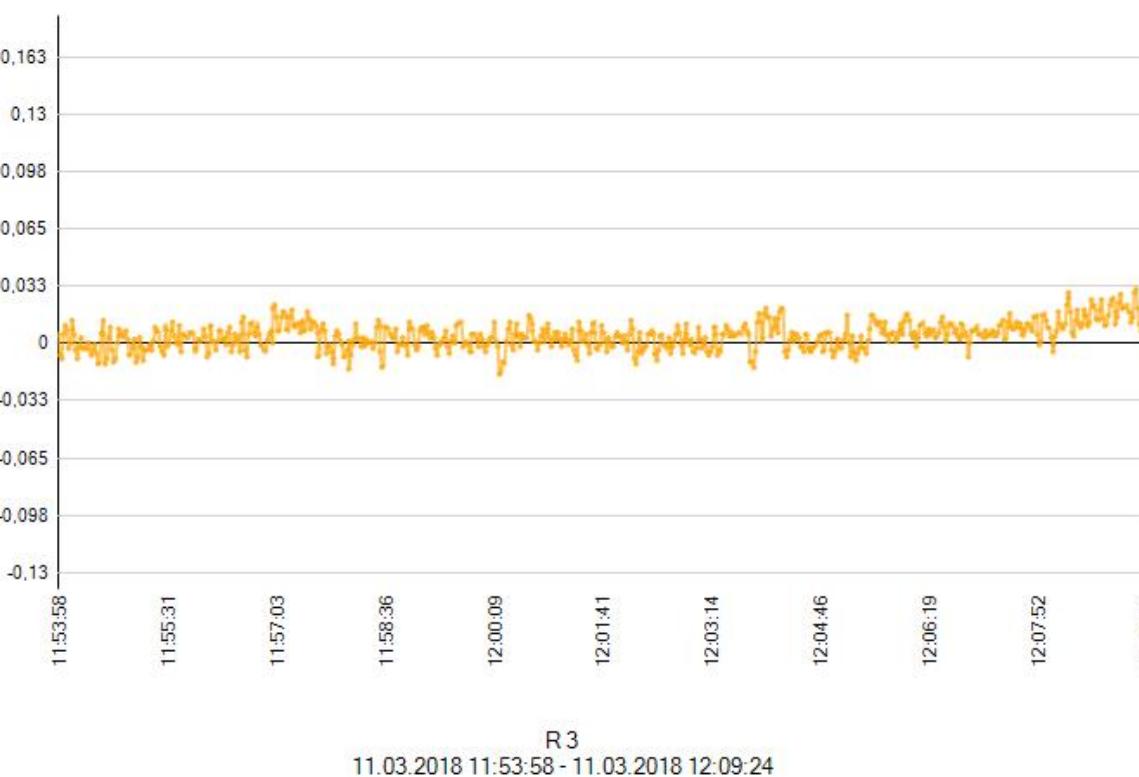
**Mean = -0,005 m Std. Dev. = 0,004 m Min. = -0,015 m Max. = 0,005 m**



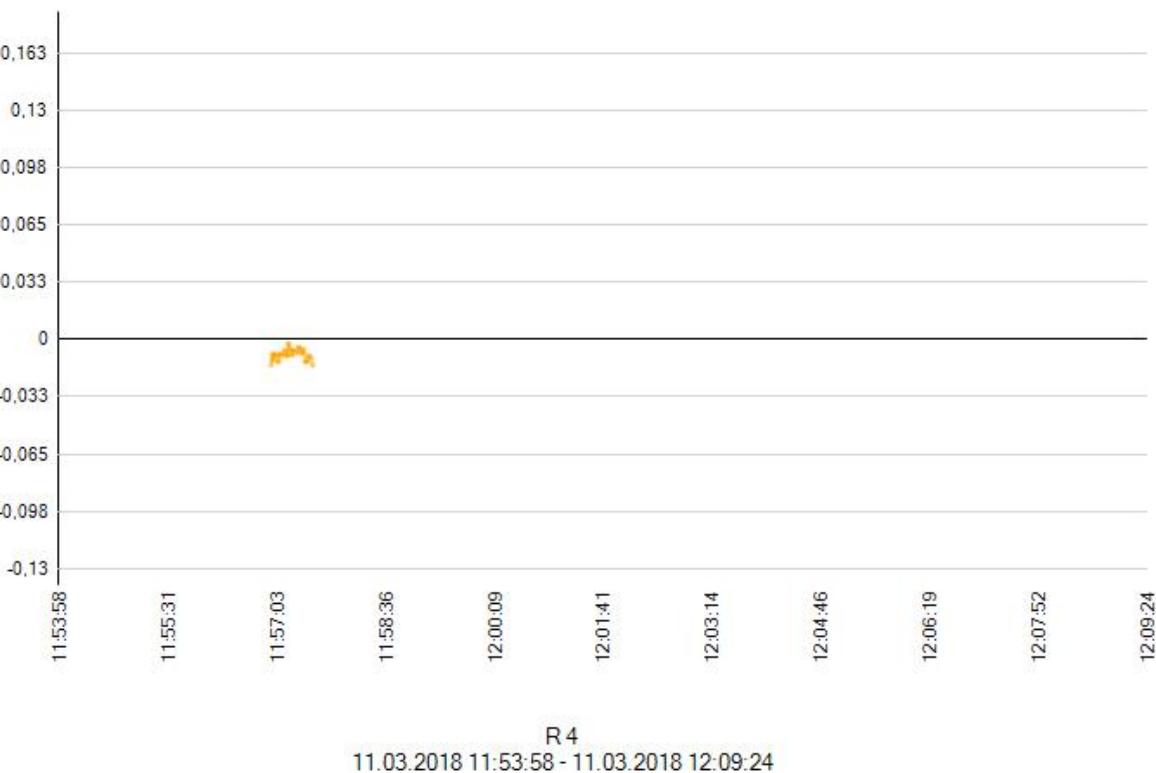
**Mean = 0,007 m Std. Dev. = 0,004 m Min. = -0,004 m Max. = 0,021 m**



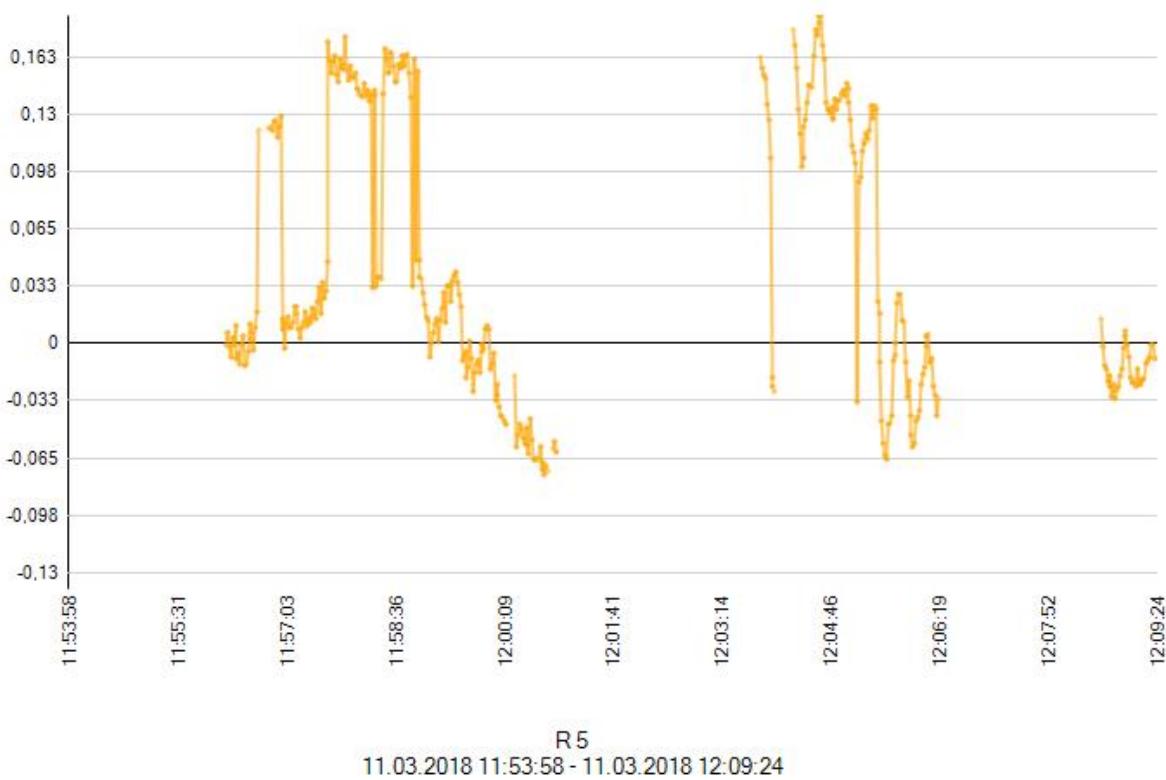
**Mean = 0,004 m Std. Dev. = 0,007 m Min. = -0,017 m Max. = 0,031 m**



**Mean = -0,008 m Std. Dev. = 0,003 m Min. = -0,015 m Max. = -0,003 m**



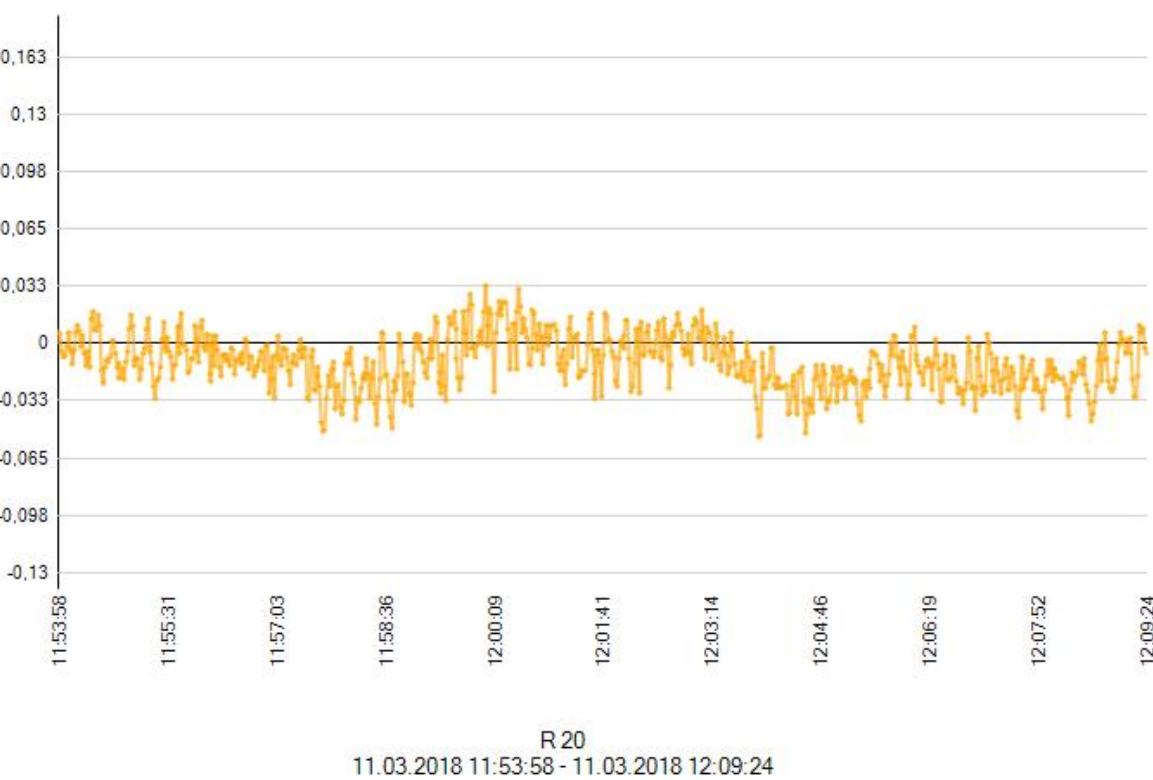
**Mean = 0,044 m Std. Dev. = 0,076 m Min. = -0,074 m Max. = 0,186 m**



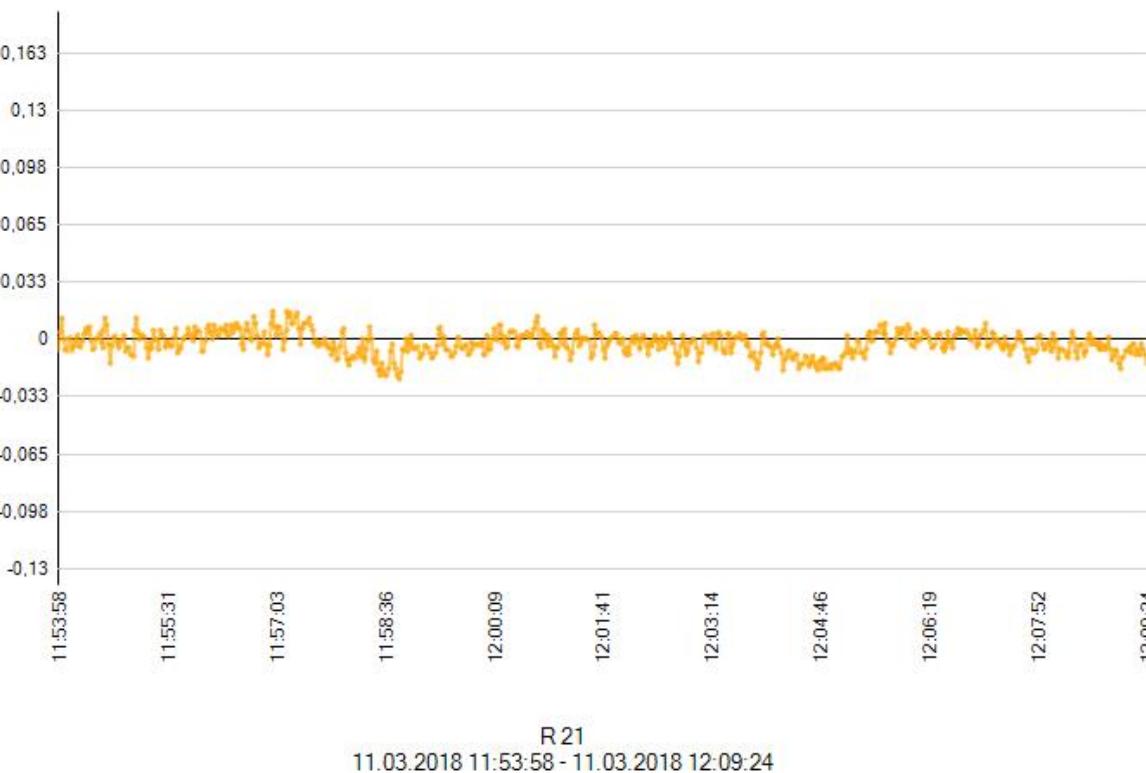
**Mean = -0,023 m Std. Dev. = 0,054 m Min. = -0,139 m Max. = 0,034 m**



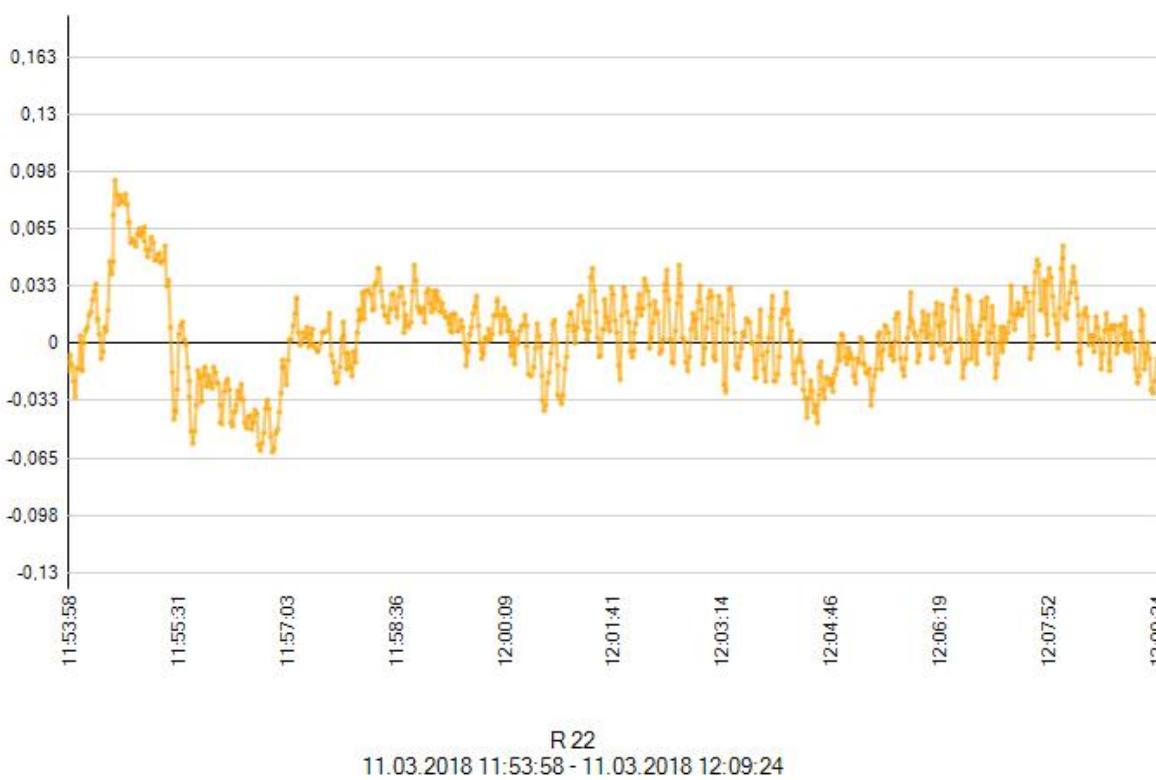
**Mean = -0,010 m Std. Dev. = 0,014 m Min. = -0,053 m Max. = 0,032 m**



**Mean = -0,002 m Std. Dev. = 0,006 m Min. = -0,022 m Max. = 0,016 m**



**Mean = 0,005 m Std. Dev. = 0,024 m Min. = -0,062 m Max. = 0,092 m**



## 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: Multiple Frequencies  
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

3/23/2018 2:33:37 PM		Trimble Business Center
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