



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 --- BL4-2016-2 (B2)	LYRS	BL4-2016-2	Fixed	0,016	0,038	82°15'40"	15290,957	76,928
LYRS --- BL5-2017-2 (B1)	LYRS	BL5-2017-2	Fixed	0,015	0,033	82°23'04"	15755,842	134,224

Acceptance Summary			
Processed	Passed	Flag 	Fail 
2	2	0	0

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LYRS - BL4-2016-2 (11:25:01-11:40:01) (S2)

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Baseline observation: LYRS --- BL4-2016-2 (B2)

Processed: 23.03.2018 14:59:54

Solution type: Fixed

Frequency used: Dual Frequency (L1, L2)

Horizontal precision: 0,016 m

Vertical precision: 0,038 m

RMS: 0,002 m

Maximum PDOP: 1,778

Ephemeris used: Broadcast

Antenna model: Trimble Calibration

Processing start time: 16.03.2018 11:25:01 (Local: UTC+1hr)

Processing stop time: 16.03.2018 11:40:01 (Local: UTC+1hr)

Processing duration: 12:15:00 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:	BL4-2016-2				
Grid		Local		Global	
Easting	524179,496 m	Latitude	N78°14'47,38578"	Latitude	N78°14'47,38578"
Northing	8686098,595 m	Longitude	E16°03'48,09603"	Longitude	E16°03'48,09603"
Elevation	572,610 m	Height	572,610 m	Height	572,610 m

Vector					
9Ughb[	15131,358 m	NS Fwd Azimuth	82°15'40"	L	-5955,345 m
Bcfh\jb[	2161,026 m	Ellipsoid Dist.	15290,957 m	M	14077,075 m
9Yj Uhcb	76,928 m	<Y][\h	76,928 m	N	477,517 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	0,004 m	Point 6	0,004 m
Point 7	0,020 m	Point 8	0,020 m	Point 9	0,020 m

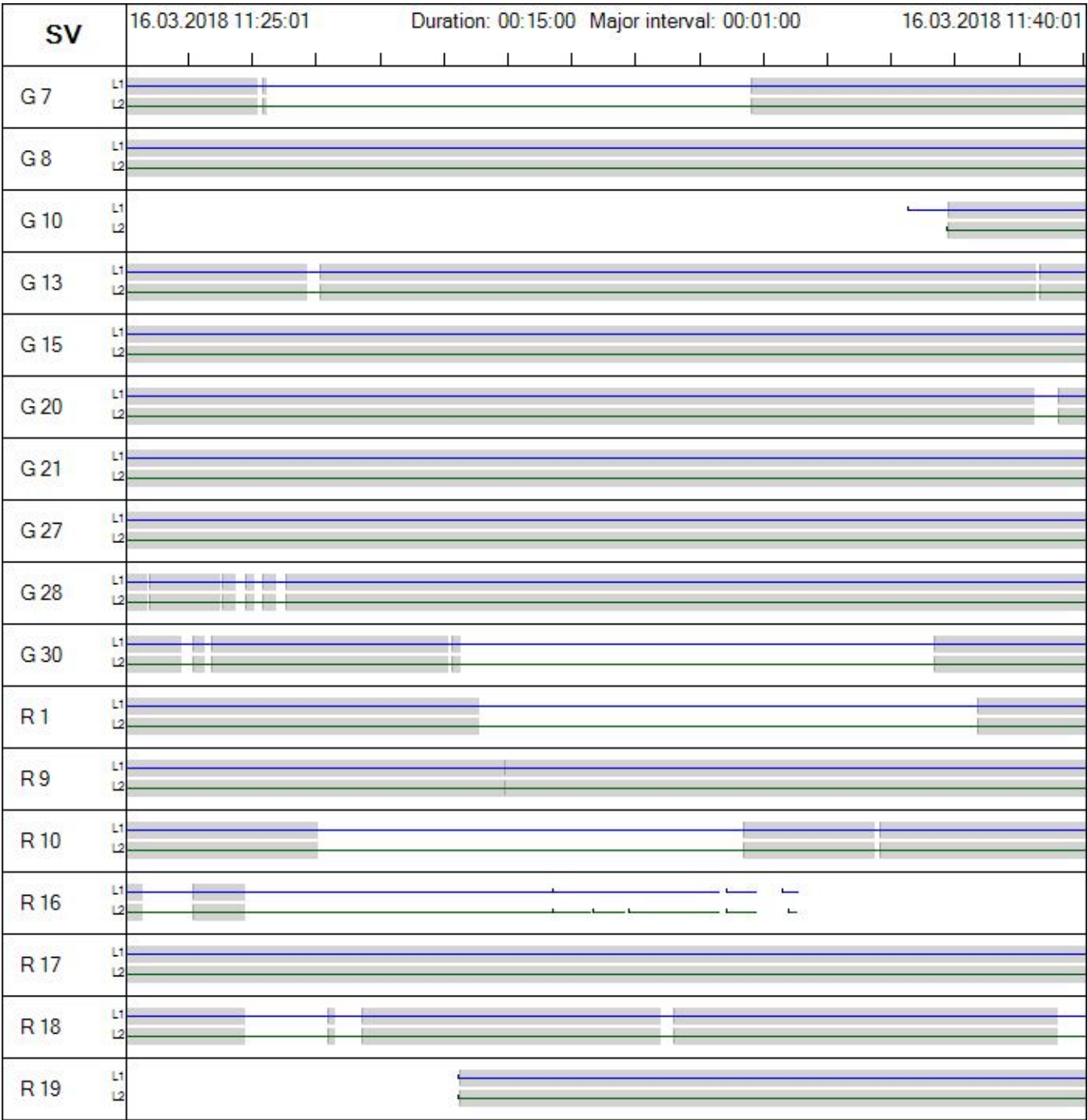
## Aposteriori Covariance Matrix (Meter<sup>2</sup>)

	X	Y	Z
X	0,0000209584		
Y	0,0000030913	0,0000174799	
Z	-0,0000107526	-0,0000013789	0,0004038379

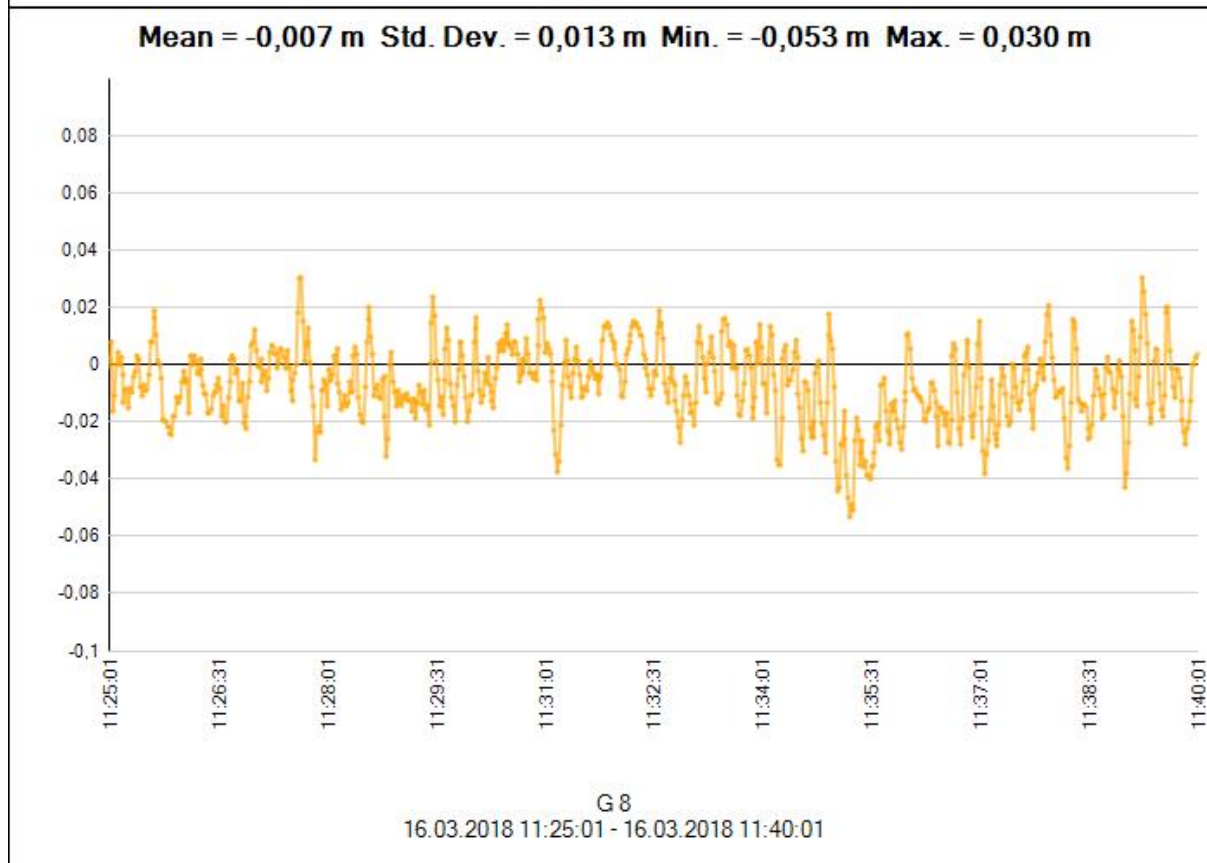
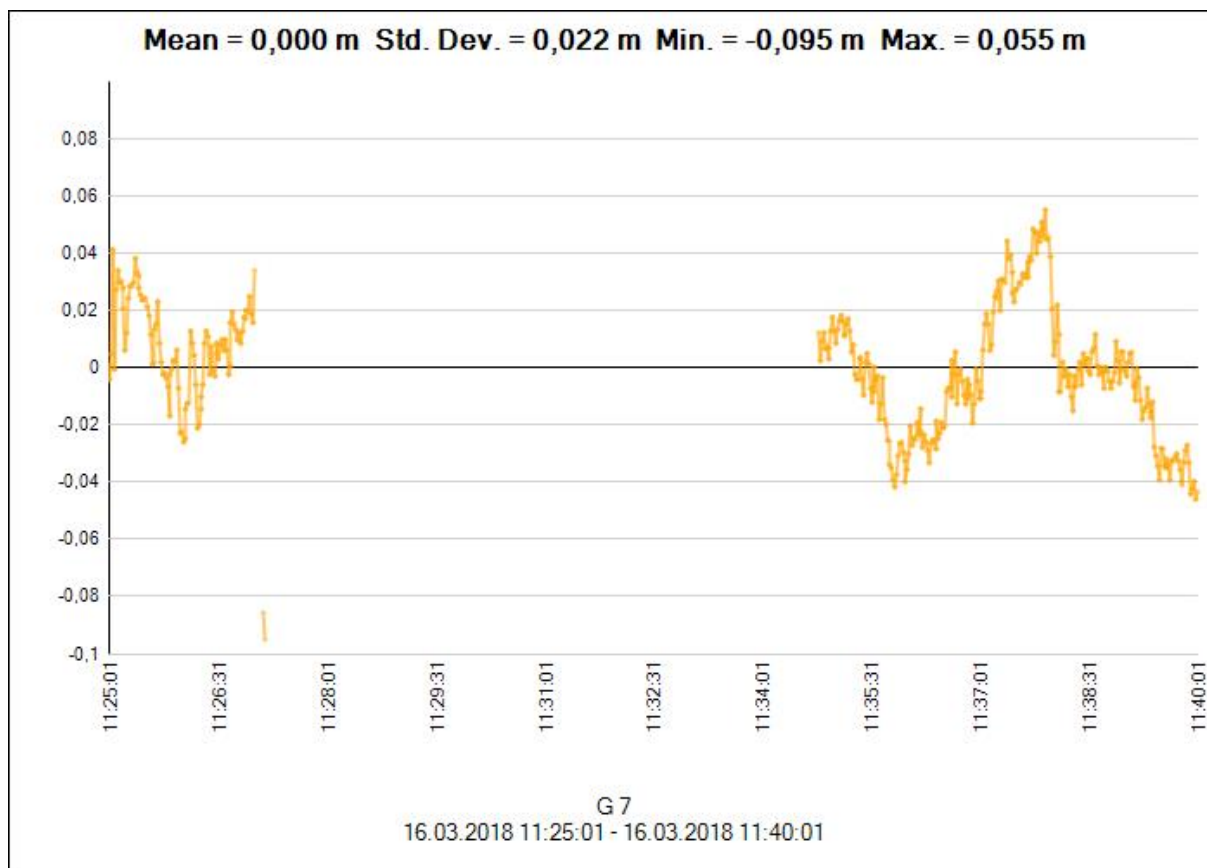
## Occupations

	From	To
Point ID:	LYRS	BL4-2016-2
Data file:	C:\Users\lth842\Documents\Trimble Business Center\Unnamed\lyrs0750.18o	C:\Users\lth842\Documents\Trimble Business Center\Unnamed\46250754.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	1,250 m
Antenna method:	Bottom of antenna mount	Bottom of antenna mount

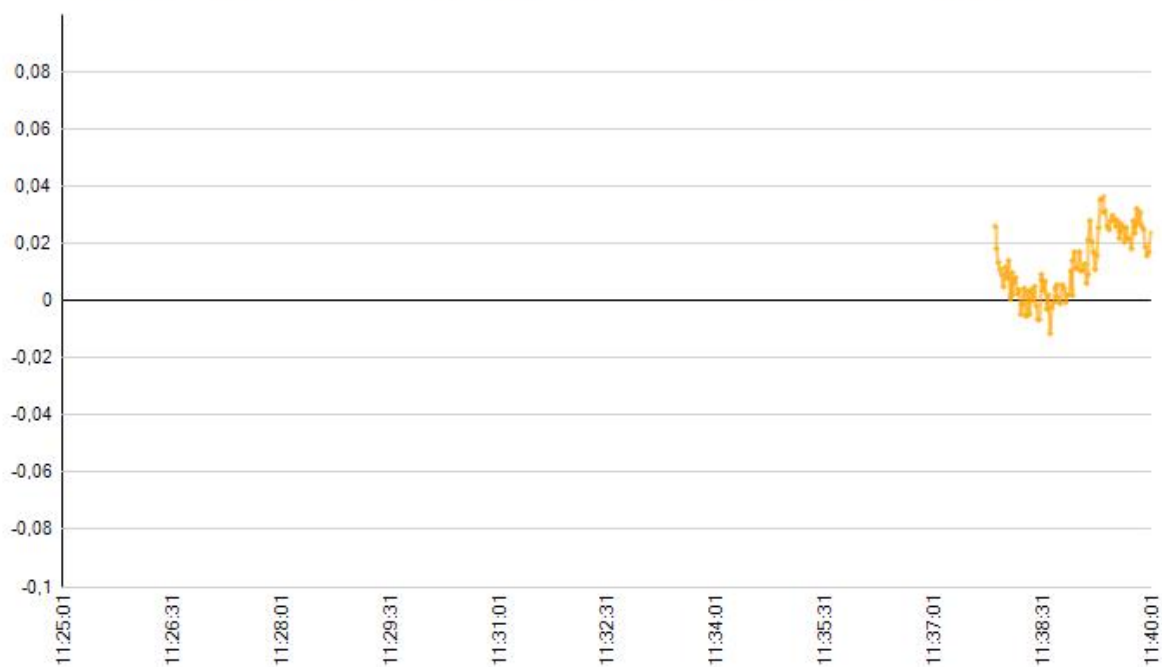
Tracking Summary



## Residuals



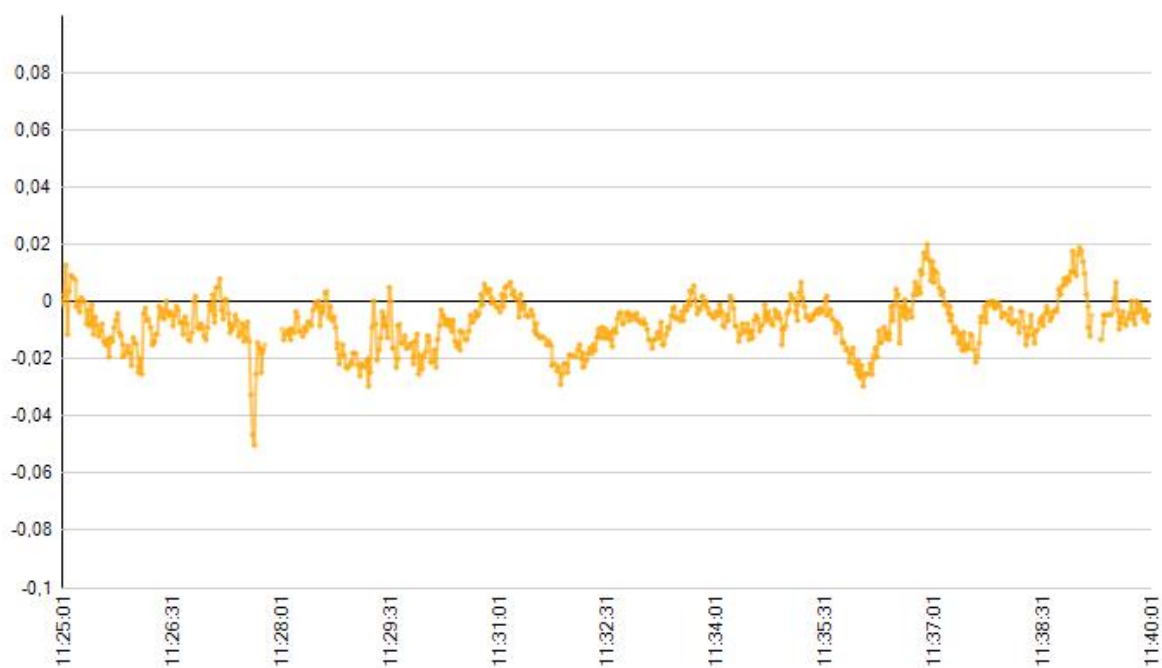
Mean = 0,012 m Std. Dev. = 0,012 m Min. = -0,011 m Max. = 0,036 m



G 10

16.03.2018 11:25:01 - 16.03.2018 11:40:01

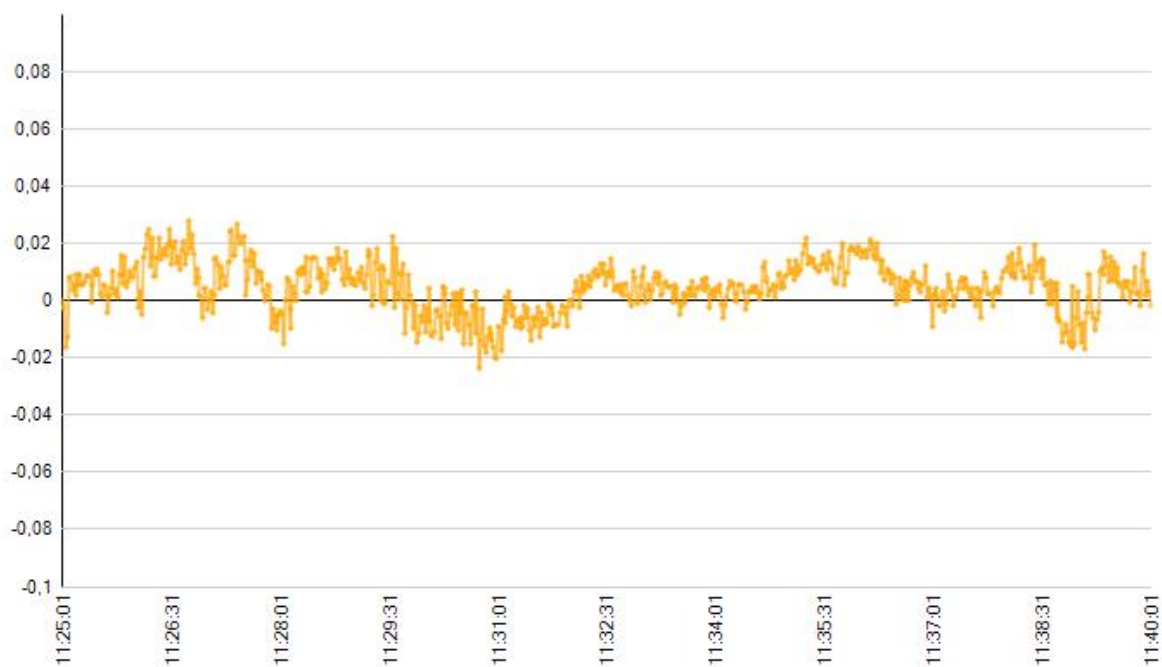
Mean = -0,008 m Std. Dev. = 0,008 m Min. = -0,050 m Max. = 0,020 m



G 13

16.03.2018 11:25:01 - 16.03.2018 11:40:01

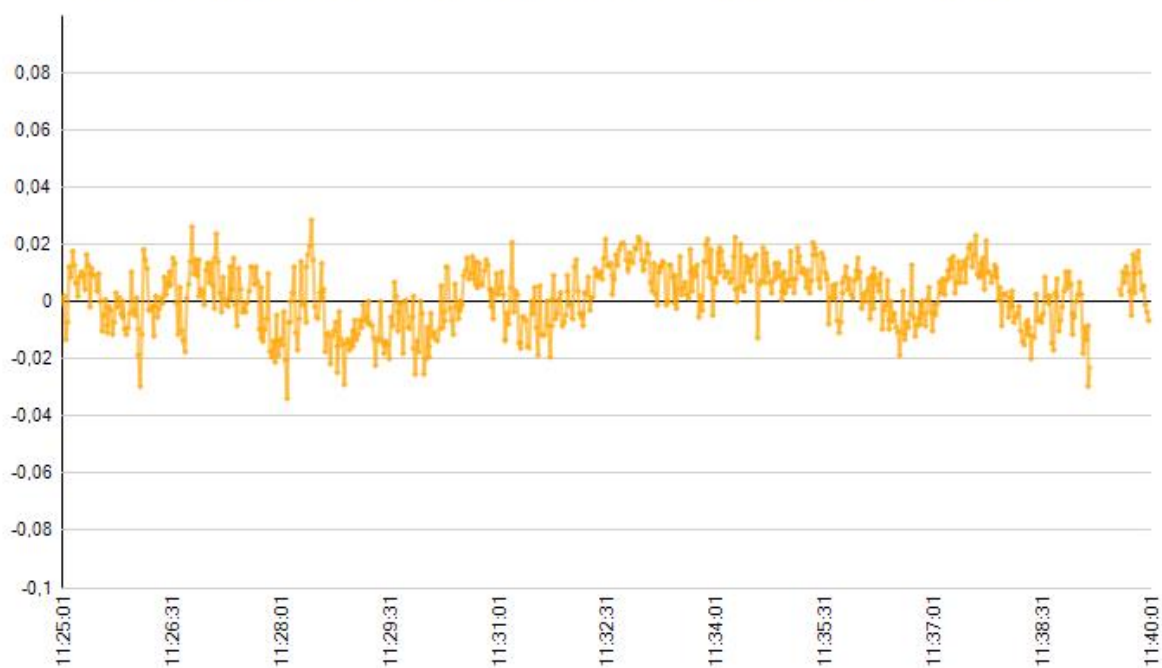
Mean = 0,005 m Std. Dev. = 0,008 m Min. = -0,024 m Max. = 0,028 m



G 15

16.03.2018 11:25:01 - 16.03.2018 11:40:01

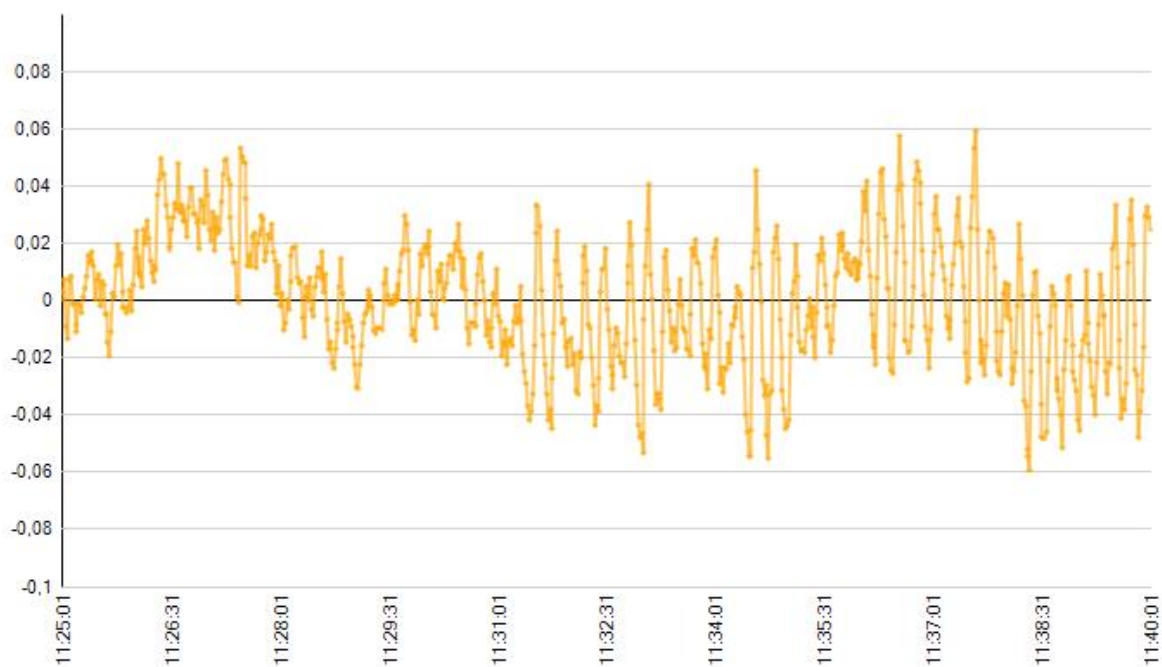
Mean = 0,002 m Std. Dev. = 0,010 m Min. = -0,034 m Max. = 0,028 m



G 20

16.03.2018 11:25:01 - 16.03.2018 11:40:01

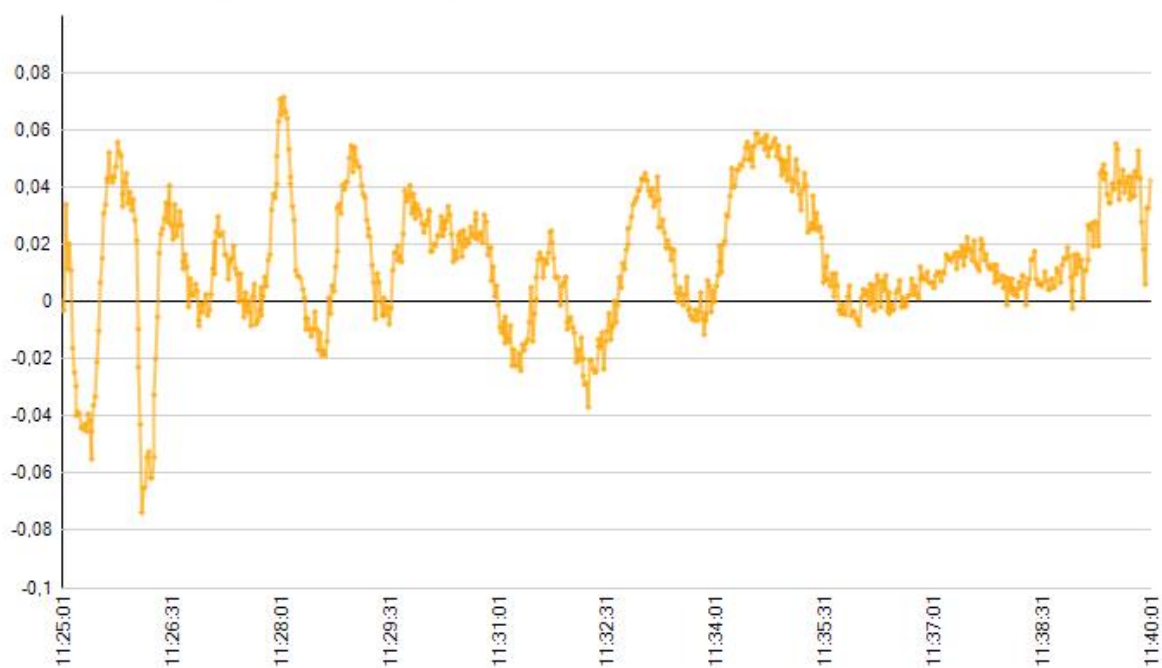
Mean = 0,000 m Std. Dev. = 0,022 m Min. = -0,059 m Max. = 0,060 m



G21

16.03.2018 11:25:01 - 16.03.2018 11:40:01

Mean = 0,013 m Std. Dev. = 0,023 m Min. = -0,074 m Max. = 0,072 m

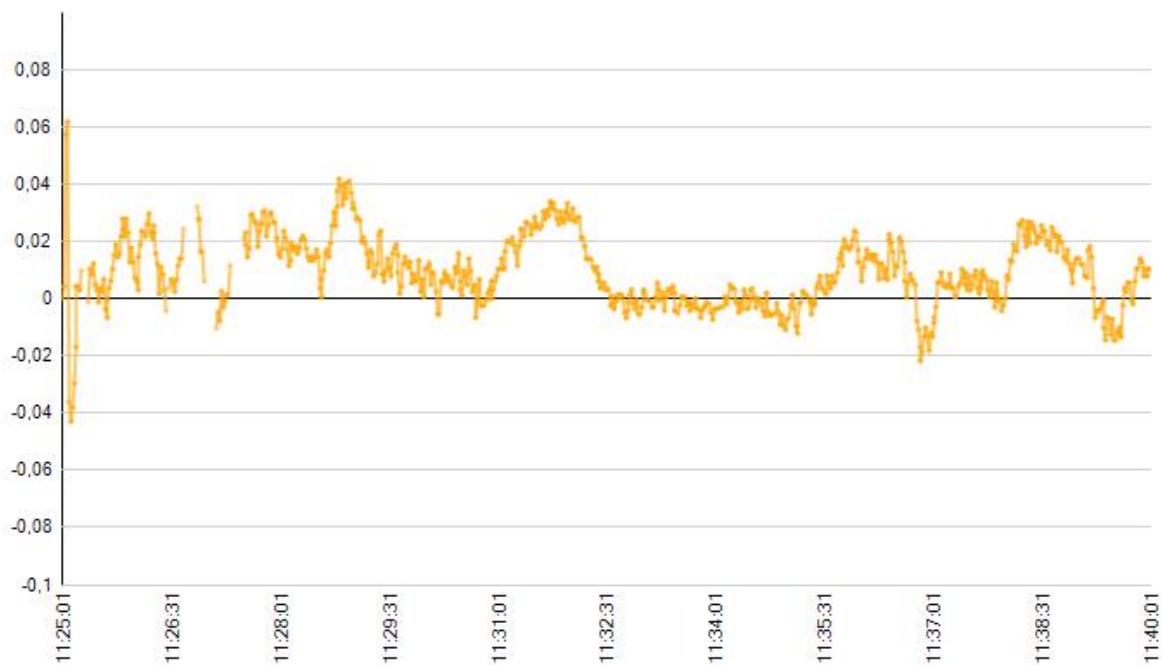


G27

16.03.2018 11:25:01 - 16.03.2018 11:40:01



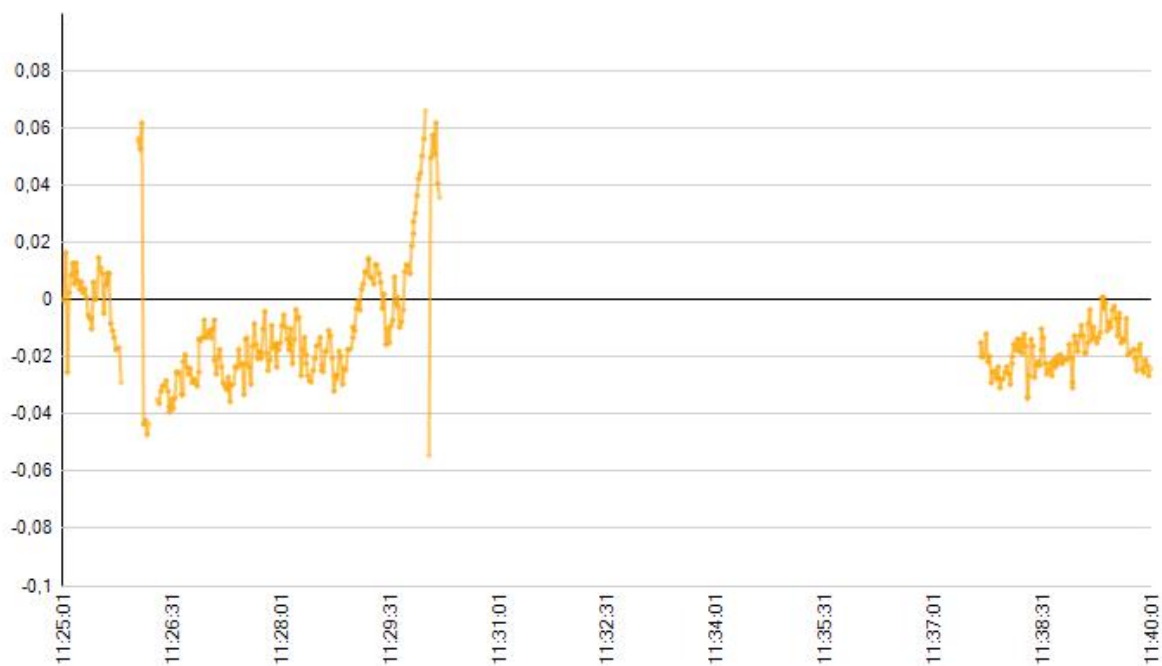
Mean = 0,009 m Std. Dev. = 0,012 m Min. = -0,043 m Max. = 0,062 m



G 28

16.03.2018 11:25:01 - 16.03.2018 11:40:01

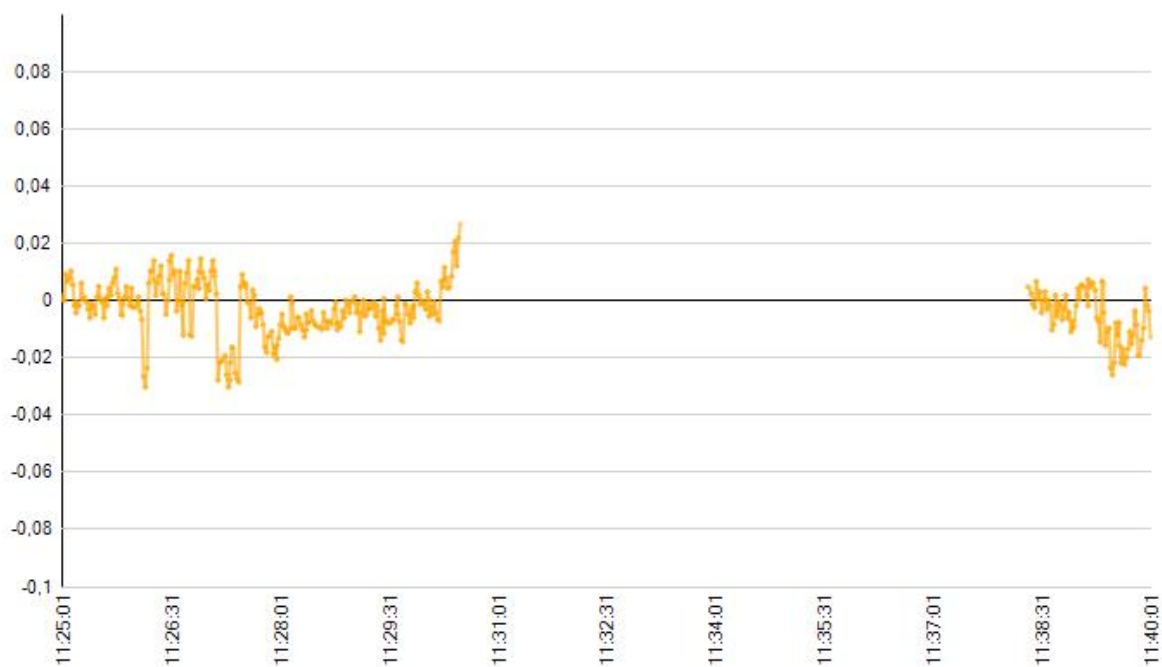
Mean = -0,012 m Std. Dev. = 0,018 m Min. = -0,054 m Max. = 0,066 m



G 30

16.03.2018 11:25:01 - 16.03.2018 11:40:01

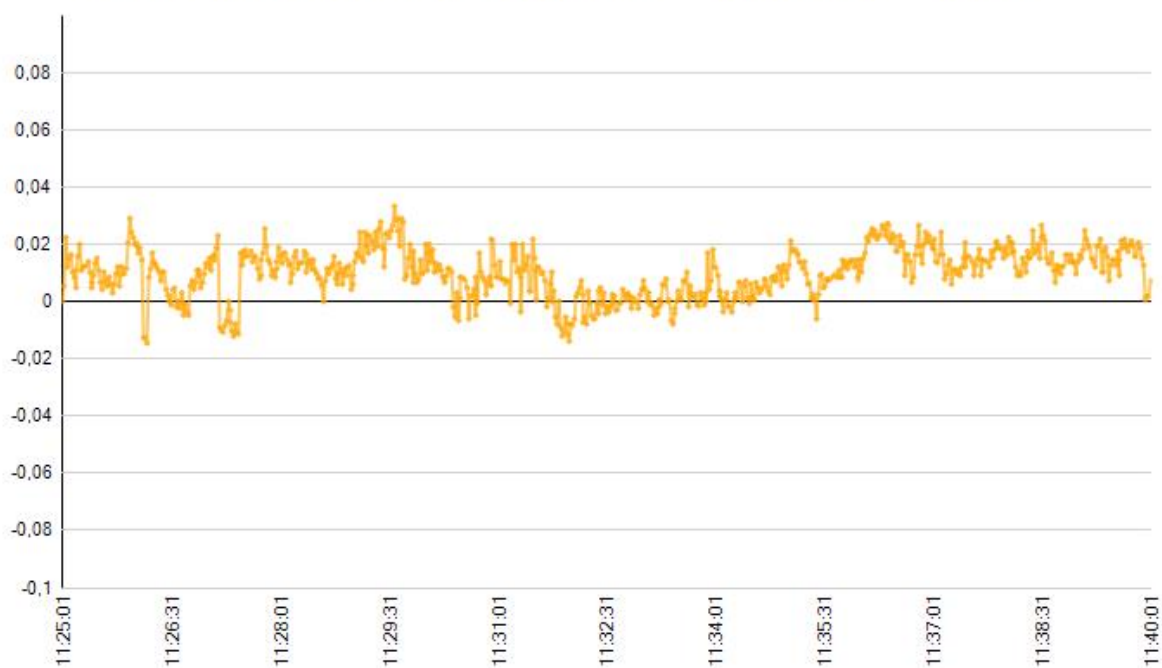
Mean = -0,003 m Std. Dev. = 0,009 m Min. = -0,030 m Max. = 0,026 m



R 1

16.03.2018 11:25:01 - 16.03.2018 11:40:01

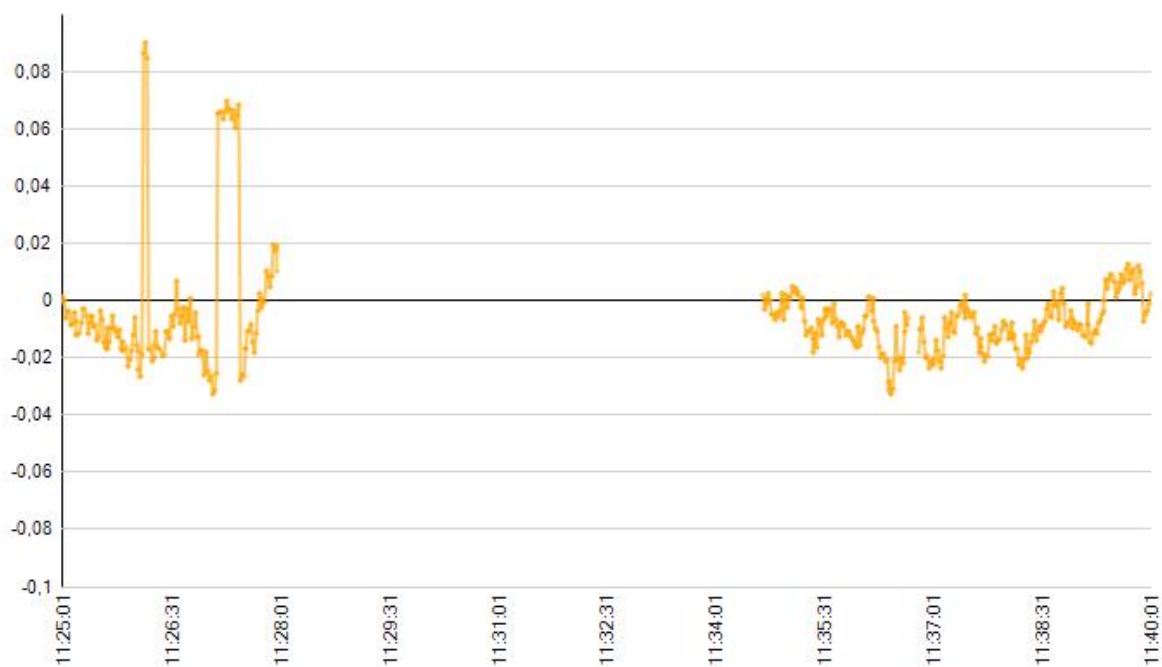
Mean = 0,010 m Std. Dev. = 0,008 m Min. = -0,015 m Max. = 0,033 m



R 9

16.03.2018 11:25:01 - 16.03.2018 11:40:01

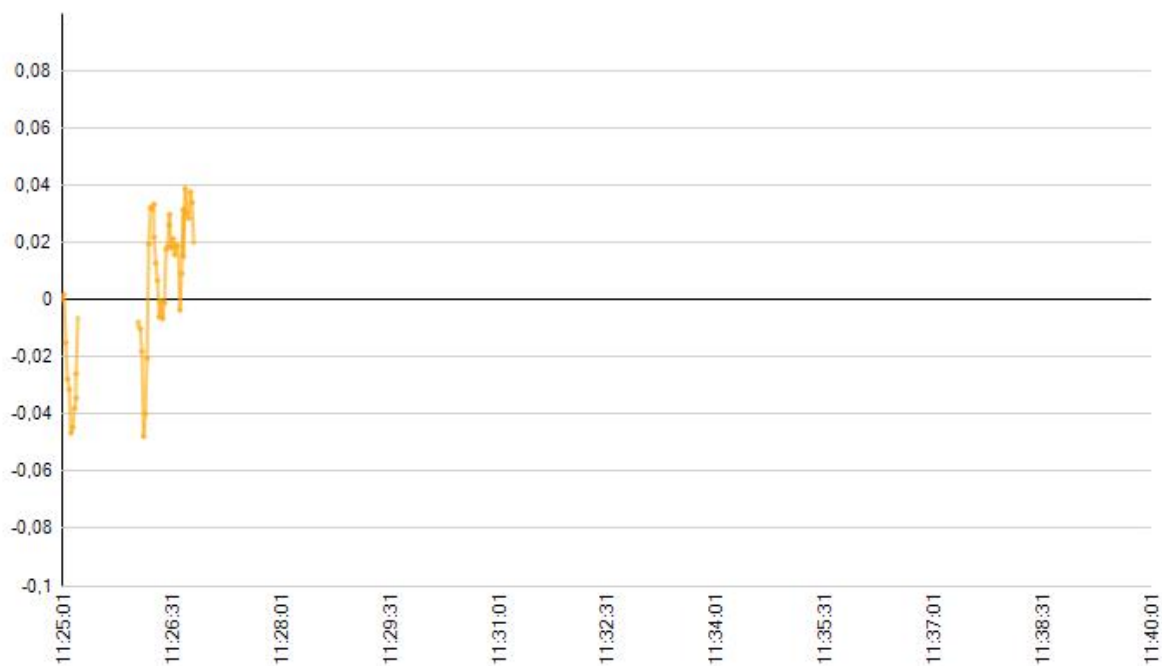
Mean = -0,006 m Std. Dev. = 0,018 m Min. = -0,034 m Max. = 0,090 m



R 10

16.03.2018 11:25:01 - 16.03.2018 11:40:01

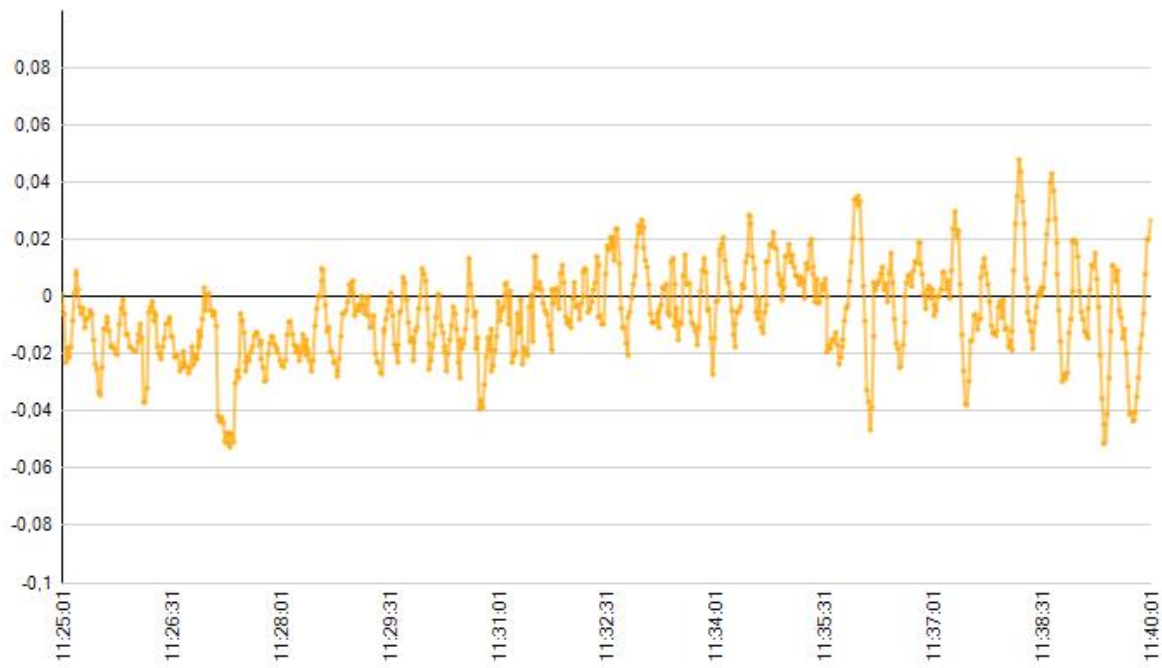
Mean = 0,004 m Std. Dev. = 0,024 m Min. = -0,048 m Max. = 0,039 m



R 16

16.03.2018 11:25:01 - 16.03.2018 11:40:01

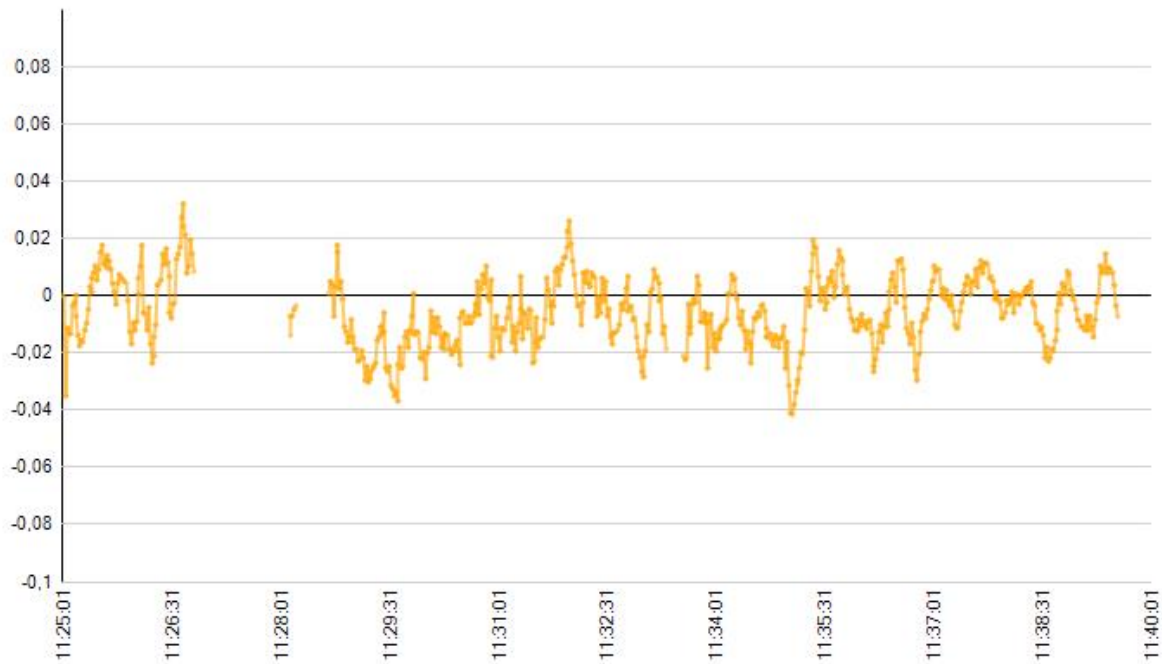
Mean = -0,006 m Std. Dev. = 0,016 m Min. = -0,053 m Max. = 0,048 m



R 17

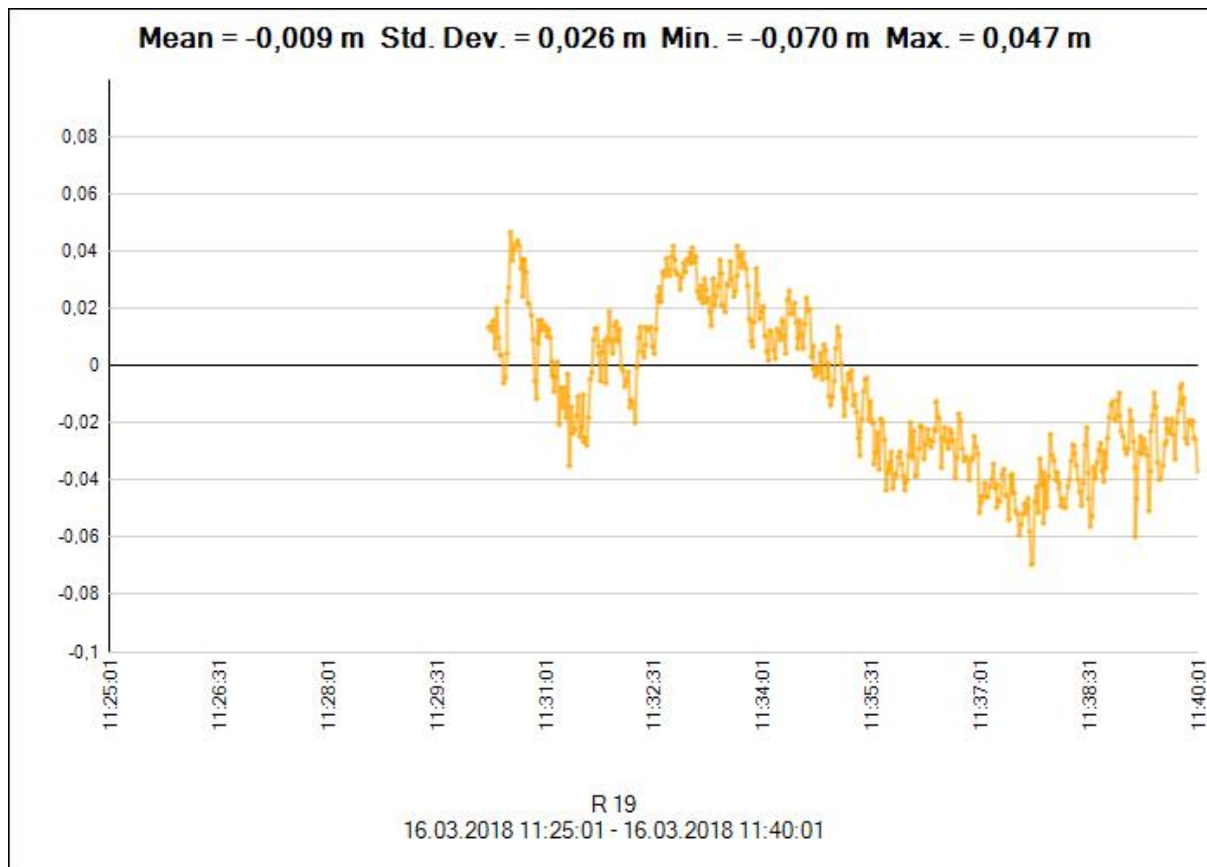
16.03.2018 11:25:01 - 16.03.2018 11:40:01

Mean = -0,005 m Std. Dev. = 0,012 m Min. = -0,041 m Max. = 0,032 m



R 18



16.03.2018 11:25:01 - 16.03.2018 11:40:01



## 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

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LYRS - BL5-2017-2 (11:02:29-11:17:29) (S1)

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Baseline observation: LYRS --- BL5-2017-2 (B1)

Processed: 23.03.2018 15:00:02

Solution type: Fixed

Frequency used: Dual Frequency (L1, L2)

Horizontal precision: 0,015 m

Vertical precision: 0,033 m

RMS: 0,001 m

Maximum PDOP: 2,171

Ephemeris used: Broadcast

Antenna model: Trimble Calibration

Processing start time: 16.03.2018 11:02:29 (Local: UTC+1hr)

Processing stop time: 16.03.2018 11:17:29 (Local: UTC+1hr)

Processing duration: 12:15:00 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:	BL5-2017-2				
Grid		Local		Global	
Easting	524644,286 m	Latitude	N78°14'48,14763"	Latitude	N78°14'48,14763"
Northing	8686130,744 m	Longitude	E16°05'01,75869"	Longitude	E16°05'01,75869"
Elevation	629,906 m	Height	629,906 m	Height	629,906 m

Vector					
9Ughb[	15596,147 m	NS Fwd Azimuth	82°23'04"	L	-6095,251 m
Bcfh\jb[	2193,176 m	Ellipsoid Dist.	15755,842 m	M	14521,230 m
9Yj Uhcb	134,224 m	<Y][\h	134,224 m	N	538,425 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	0,003 m
Point ID	0,017 m	Point Description	0,017 m	Point Type	0,017 m

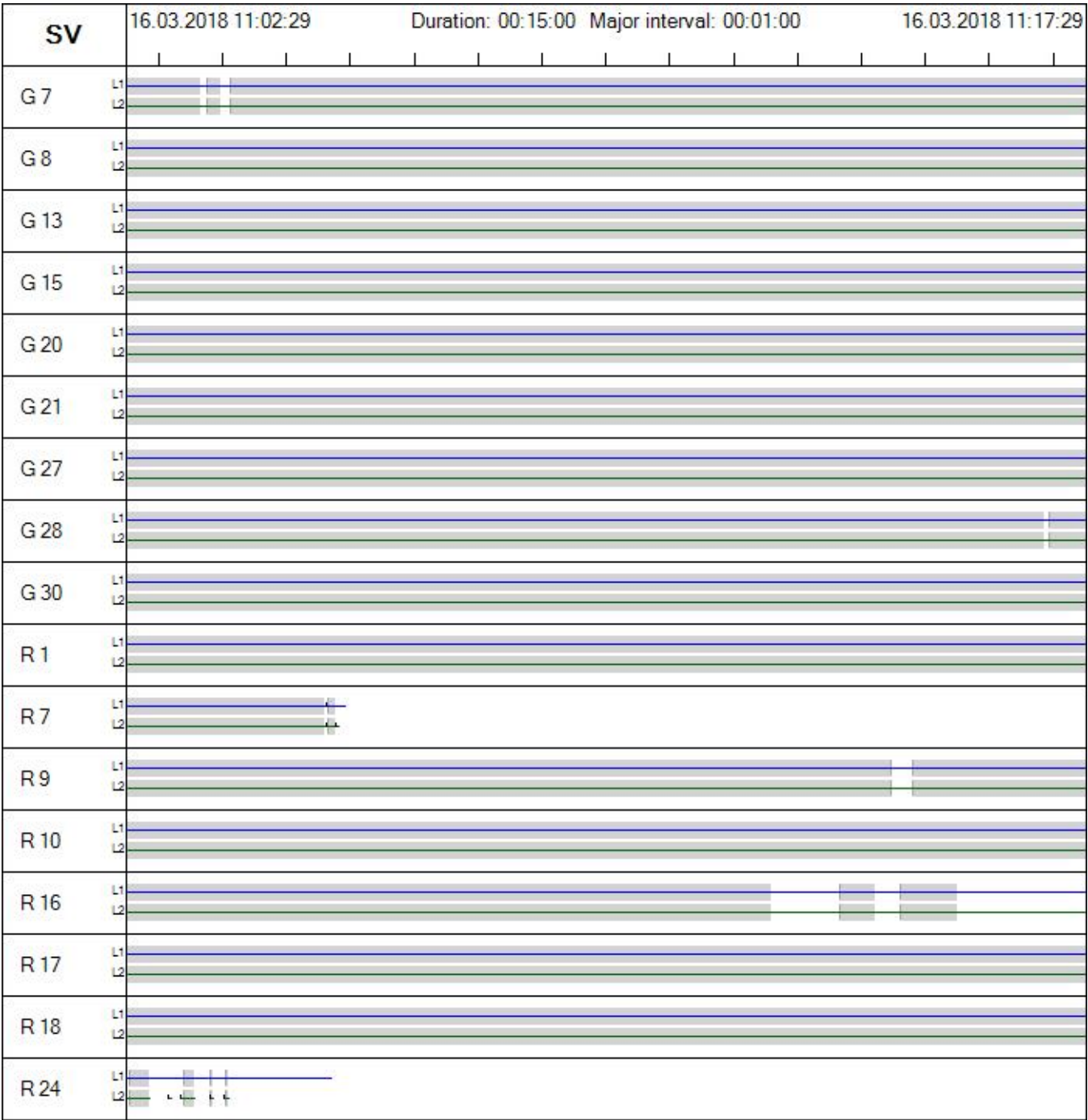
## Aposteriori Covariance Matrix (Meter<sup>2</sup>)

	X	Y	Z
X	0,0000165348		
Y	0,0000045760	0,0000095583	
Z	-0,0000151249	-0,0000028421	0,0003009196

## Occupations

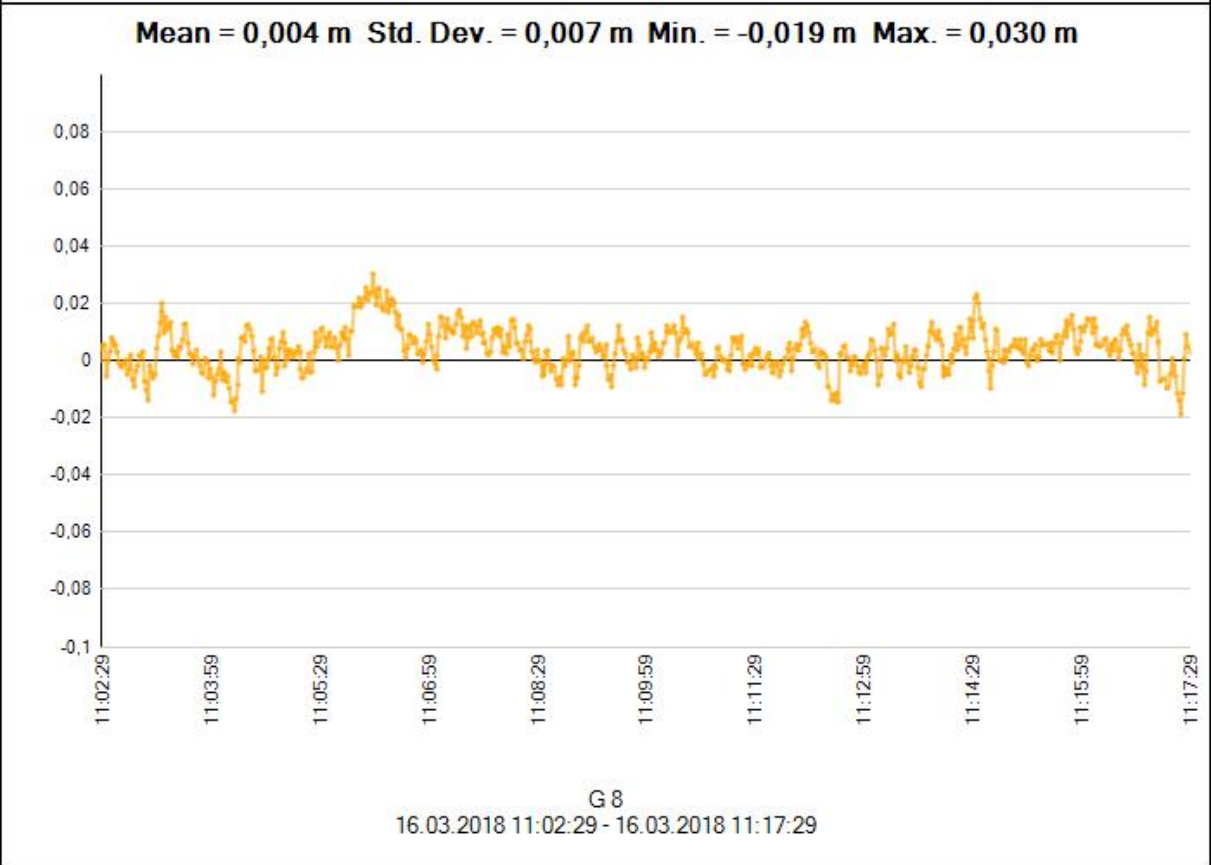
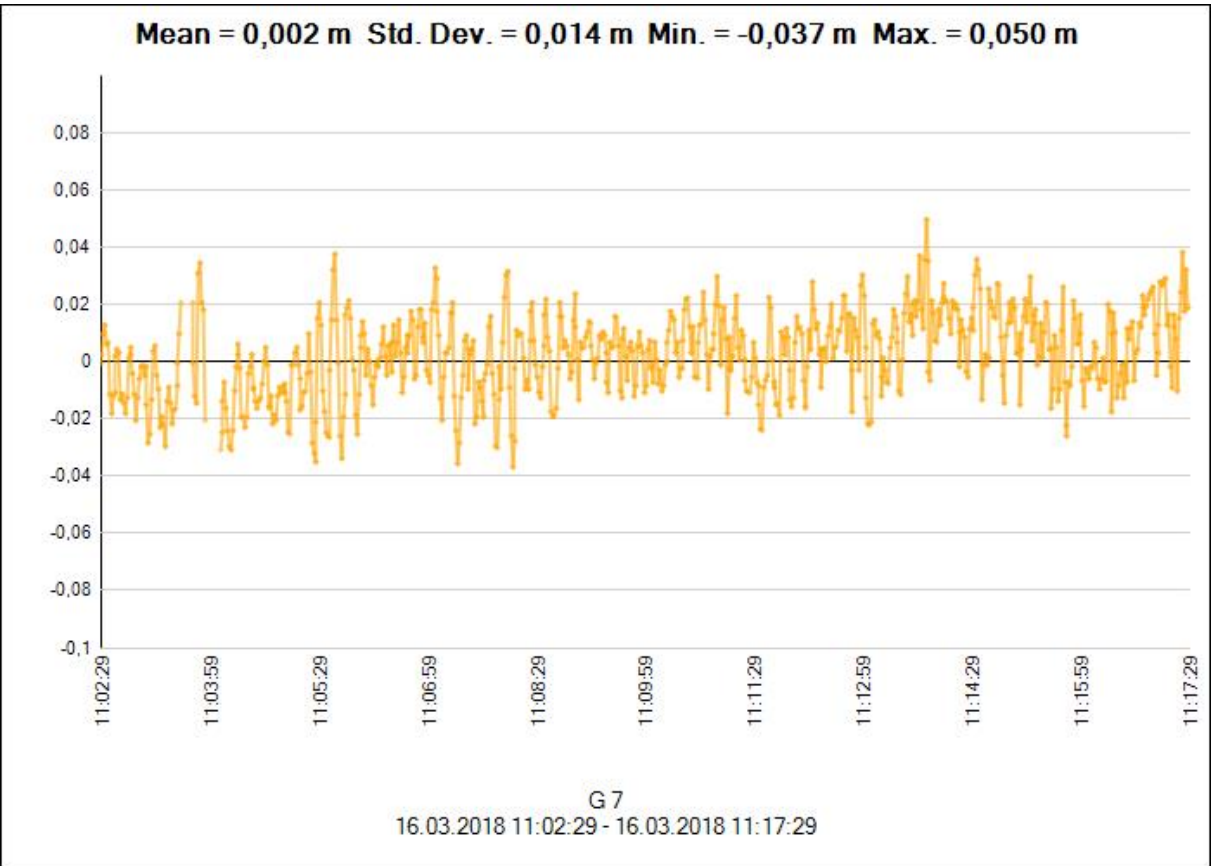
	From	To
Point ID:	LYRS	BL5-2017-2
Data file:	C:\Users\lth842\Documents\Trimble Business Center\Unnamed\lyrs0750.18o	C:\Users\lth842\Documents\Trimble Business Center\Unnamed\46250753.t02
Receiver type:	NetR9	R4
Receiver serial number:	5504R50012	5127468778
Antenna type:	Zephyr Geodetic	R4 Internal
Antenna serial number:	60111442	47477114
Antenna height (measured):	0,000 m	0,480 m
Antenna method:	Bottom of antenna mount	Bottom of antenna mount

Tracking Summary

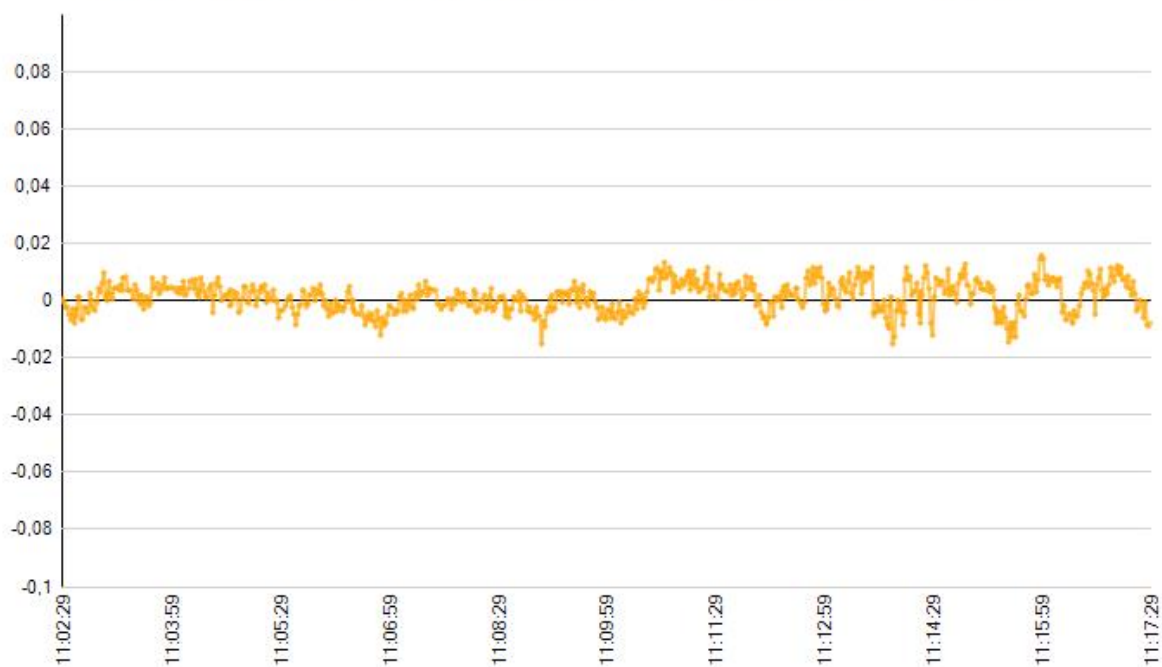




Residuals

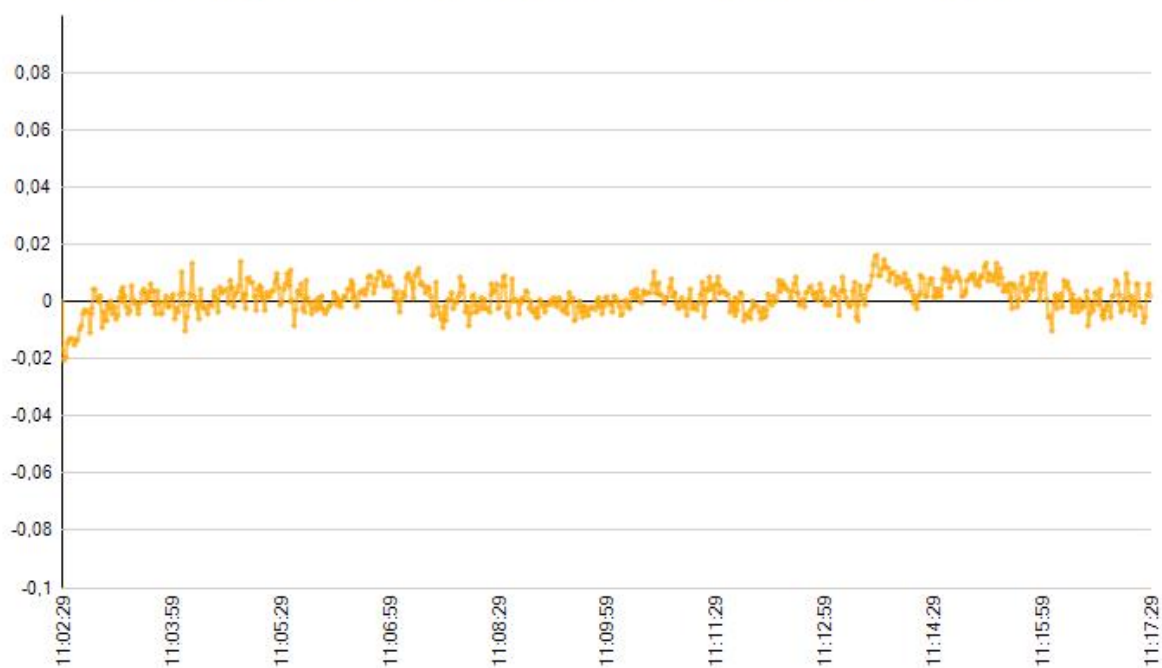


Mean = 0,001 m Std. Dev. = 0,005 m Min. = -0,015 m Max. = 0,016 m



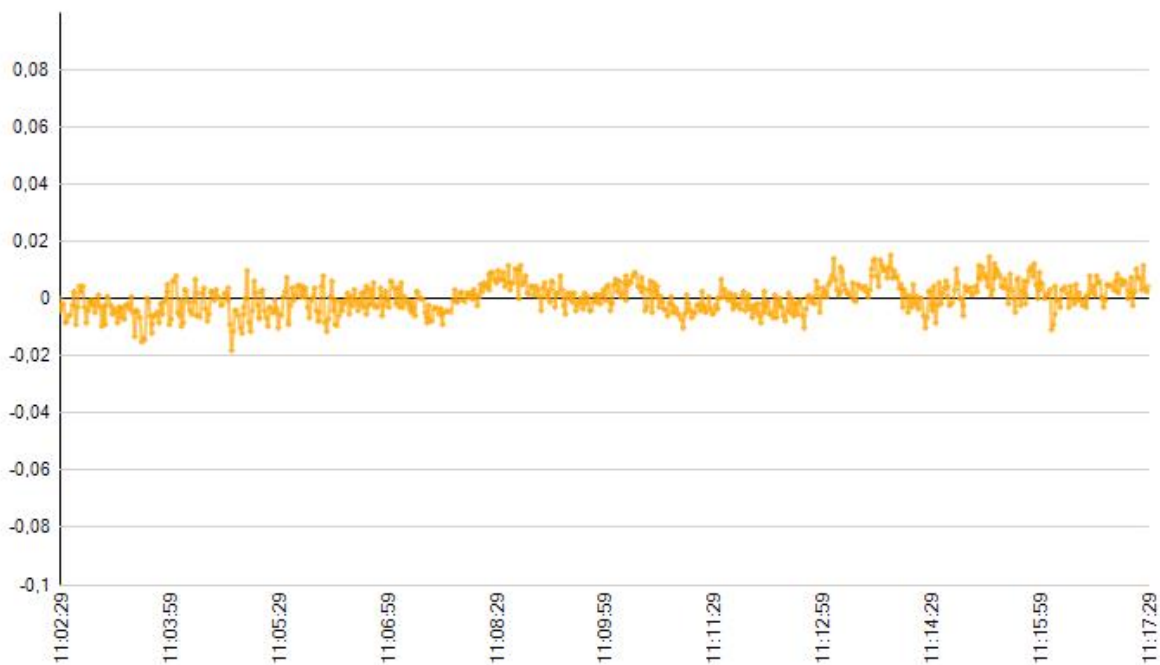
G 13  
16.03.2018 11:02:29 - 16.03.2018 11:17:29

Mean = 0,001 m Std. Dev. = 0,005 m Min. = -0,020 m Max. = 0,016 m



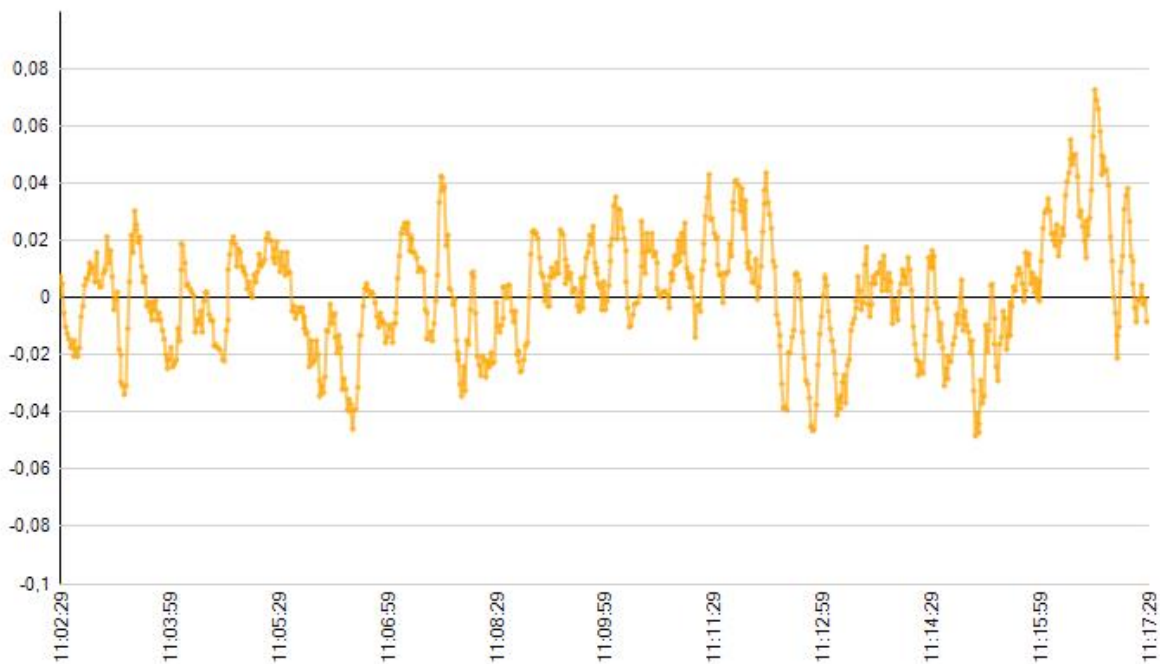
G 15  
16.03.2018 11:02:29 - 16.03.2018 11:17:29

Mean = 0,000 m Std. Dev. = 0,005 m Min. = -0,018 m Max. = 0,015 m



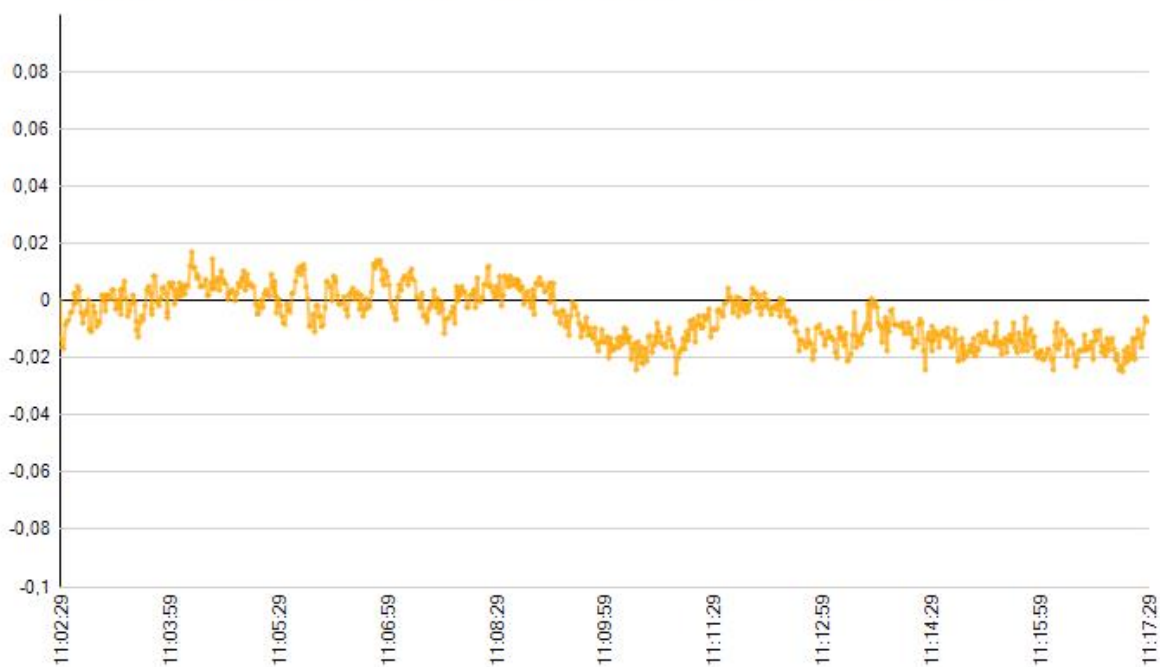
G 20  
16.03.2018 11:02:29 - 16.03.2018 11:17:29

Mean = 0,001 m Std. Dev. = 0,019 m Min. = -0,048 m Max. = 0,073 m



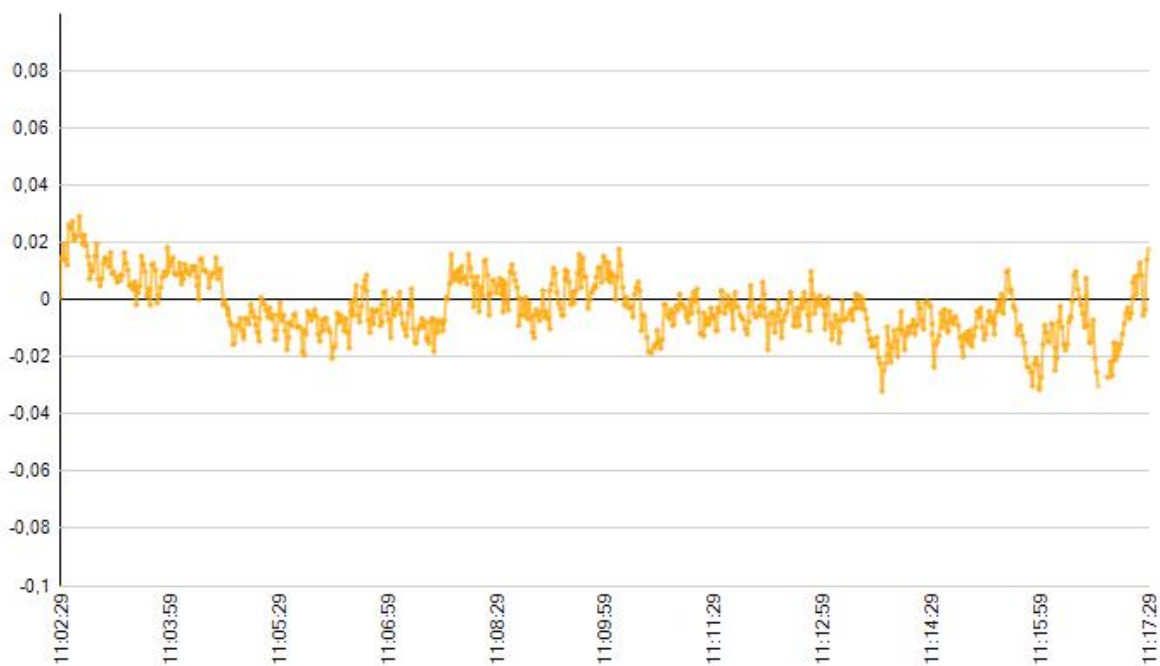
G 21  
16.03.2018 11:02:29 - 16.03.2018 11:17:29

Mean = -0,006 m Std. Dev. = 0,009 m Min. = -0,025 m Max. = 0,017 m



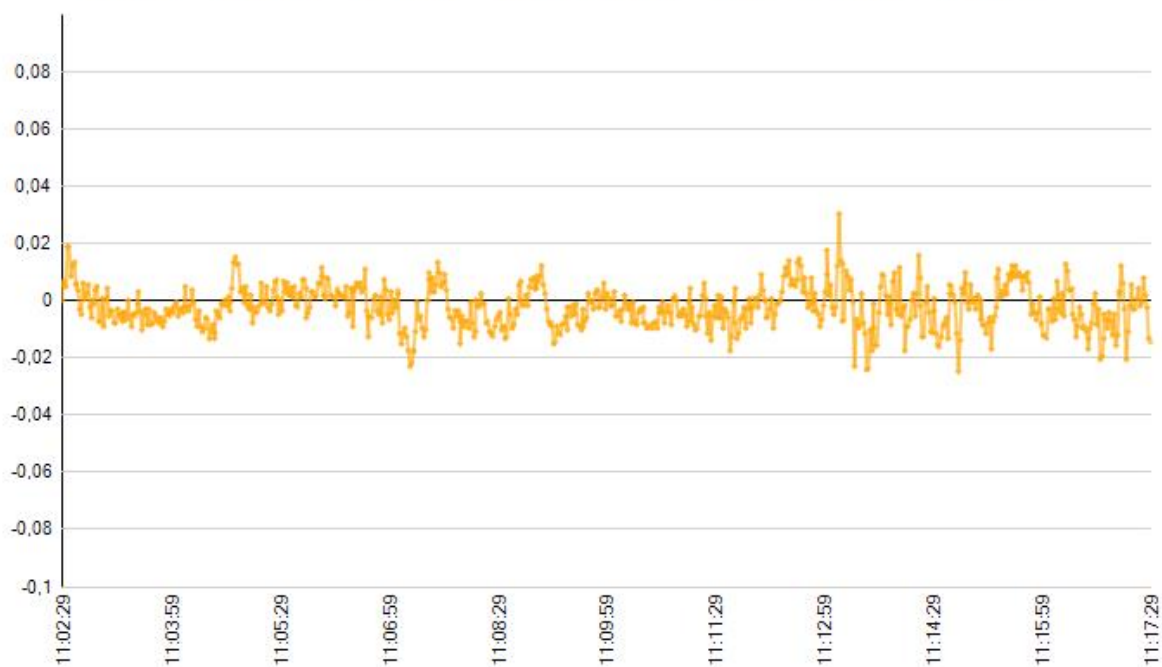
G 27  
16.03.2018 11:02:29 - 16.03.2018 11:17:29

Mean = -0,003 m Std. Dev. = 0,010 m Min. = -0,032 m Max. = 0,029 m



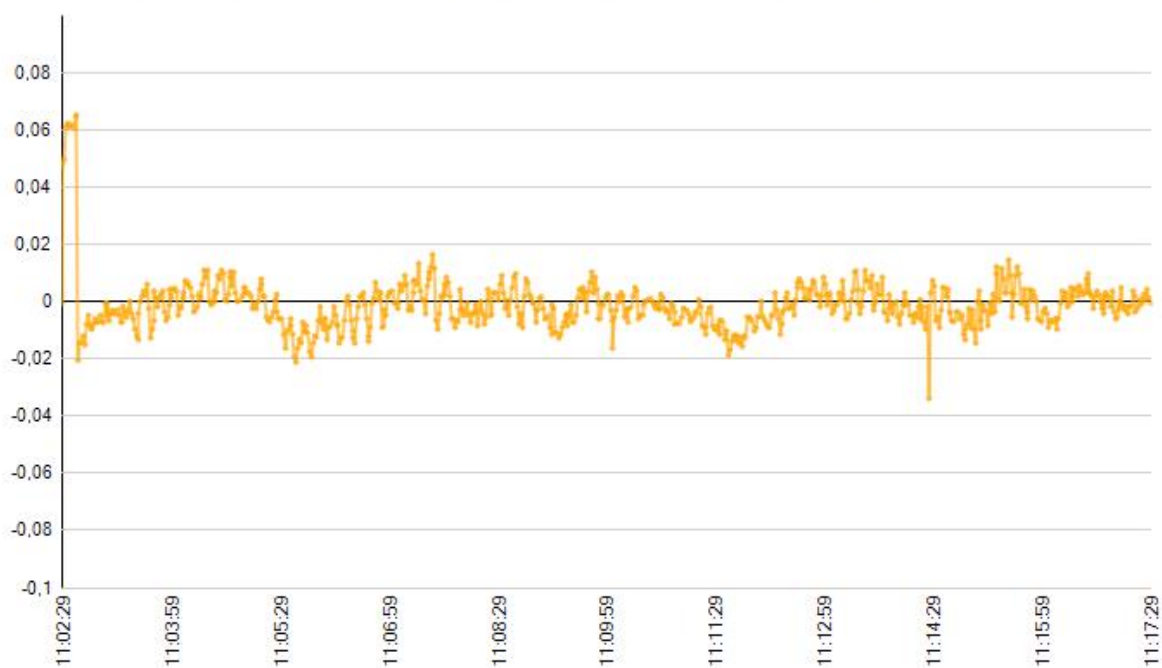
G 28  
16.03.2018 11:02:29 - 16.03.2018 11:17:29

Mean = -0,002 m Std. Dev. = 0,007 m Min. = -0,025 m Max. = 0,030 m



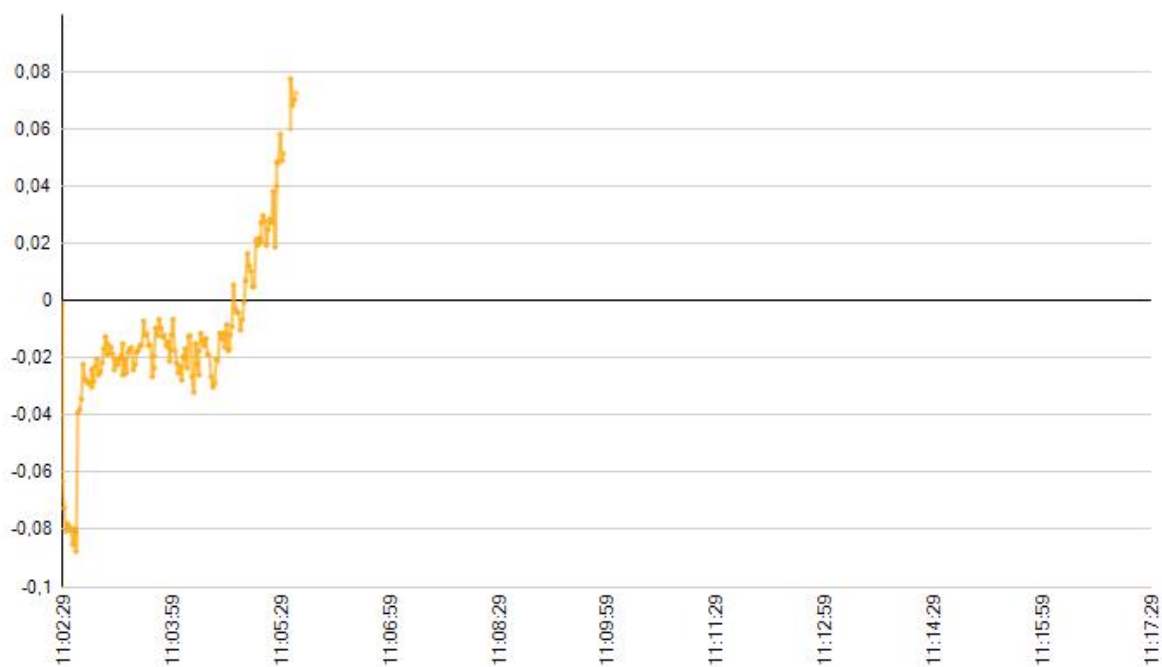
G 30  
16.03.2018 11:02:29 - 16.03.2018 11:17:29

Mean = -0,001 m Std. Dev. = 0,009 m Min. = -0,034 m Max. = 0,065 m



R 1  
16.03.2018 11:02:29 - 16.03.2018 11:17:29

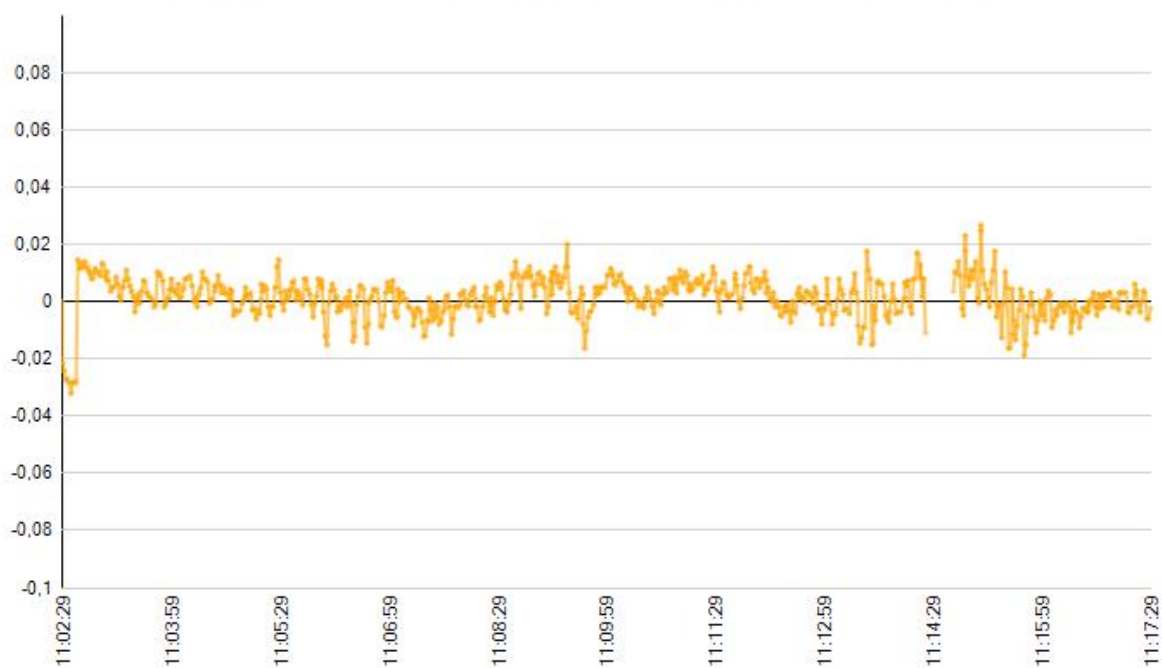
Mean = -0,012 m Std. Dev. = 0,029 m Min. = -0,088 m Max. = 0,077 m



R 7

16.03.2018 11:02:29 - 16.03.2018 11:17:29

Mean = 0,001 m Std. Dev. = 0,007 m Min. = -0,032 m Max. = 0,073 m

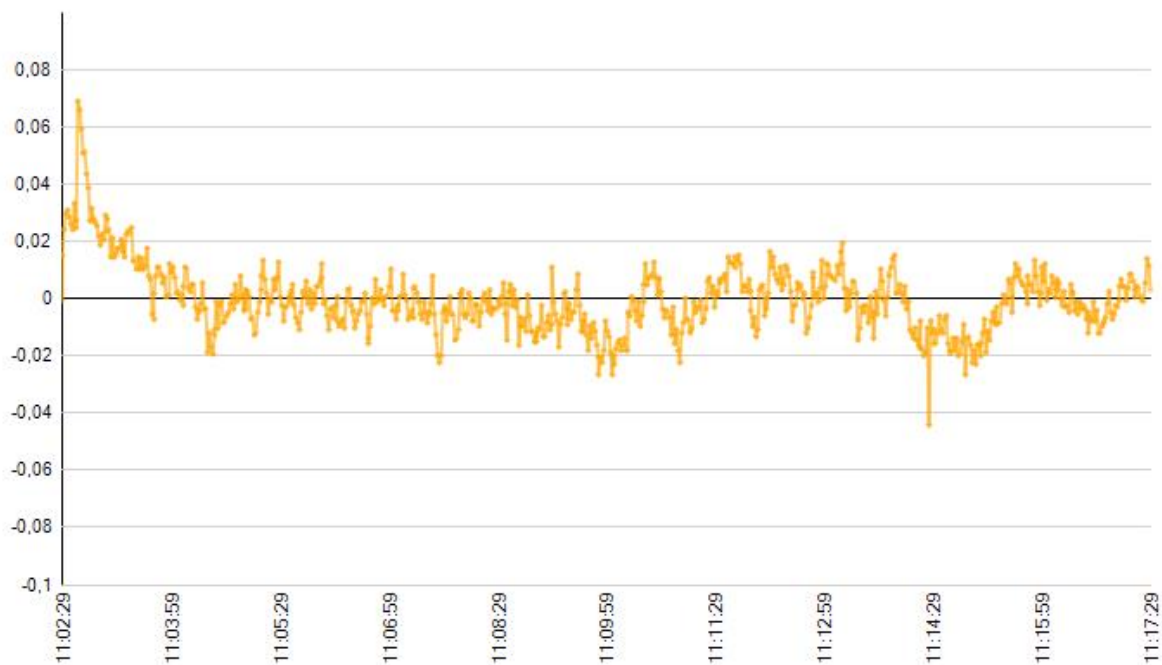


R 9

16.03.2018 11:02:29 - 16.03.2018 11:17:29



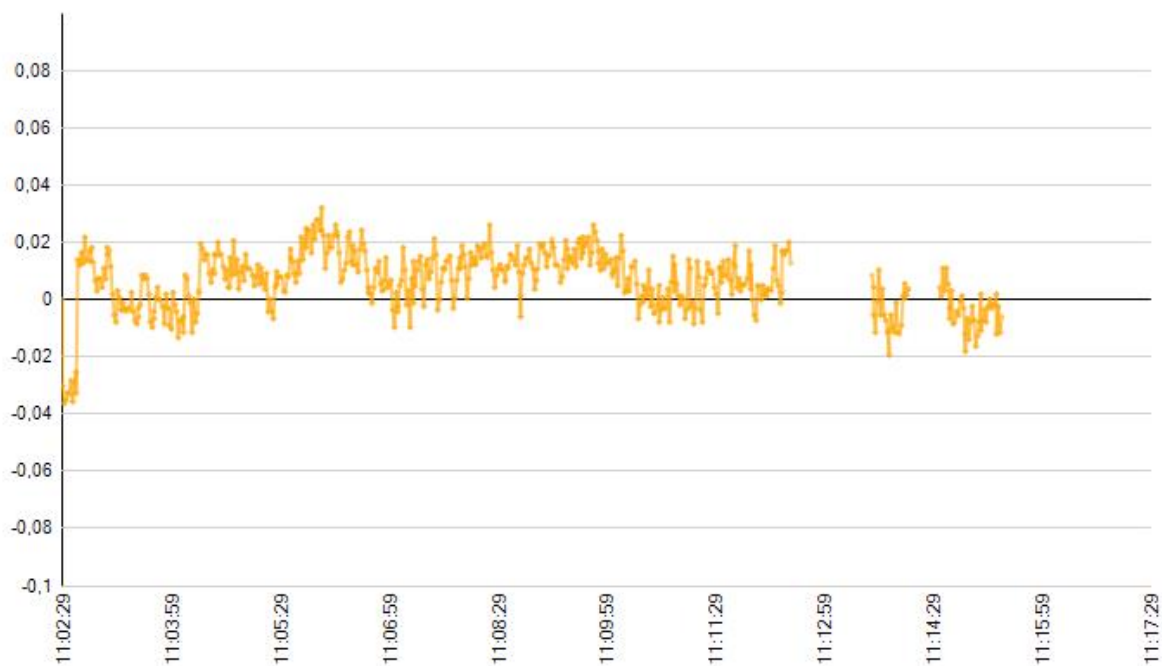
Mean = 0,000 m Std. Dev. = 0,011 m Min. = -0,044 m Max. = 0,069 m



R 10

16.03.2018 11:02:29 - 16.03.2018 11:17:29

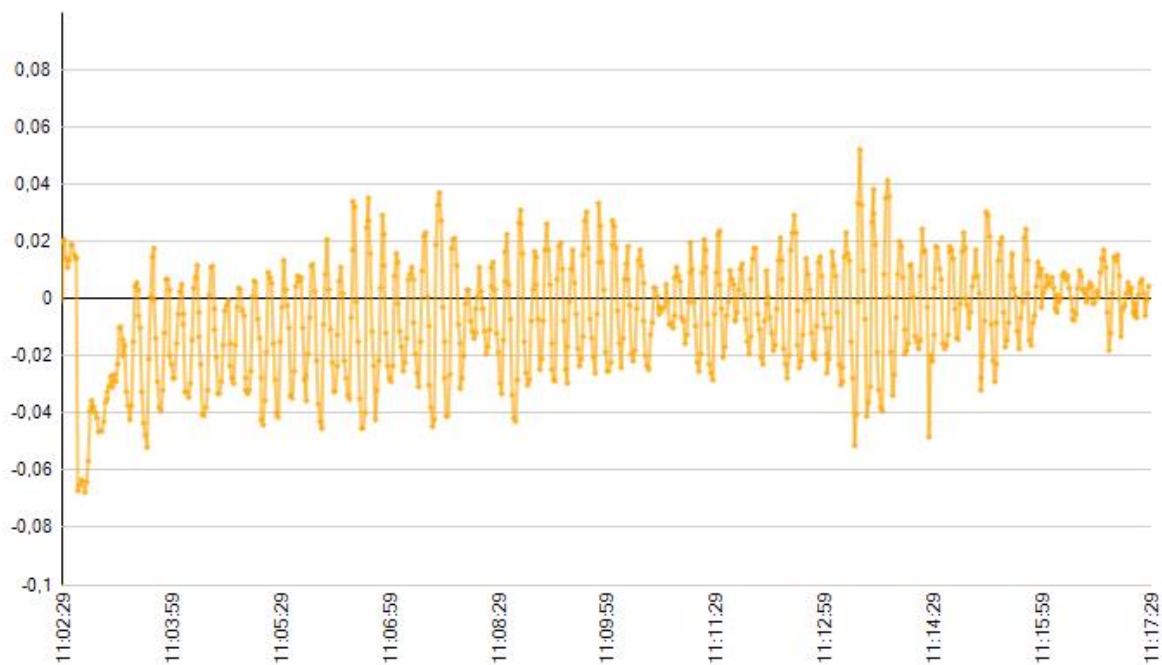
Mean = 0,006 m Std. Dev. = 0,010 m Min. = -0,036 m Max. = 0,032 m



R 16

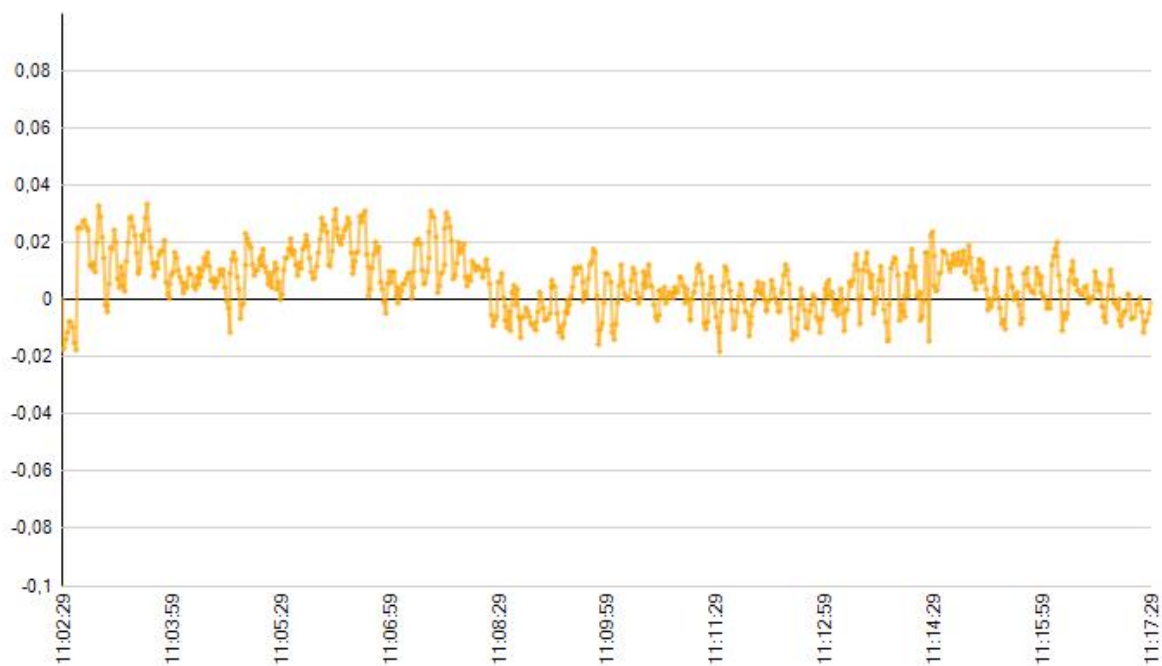
16.03.2018 11:02:29 - 16.03.2018 11:17:29

Mean = -0,006 m Std. Dev. = 0,019 m Min. = -0,068 m Max. = 0,052 m



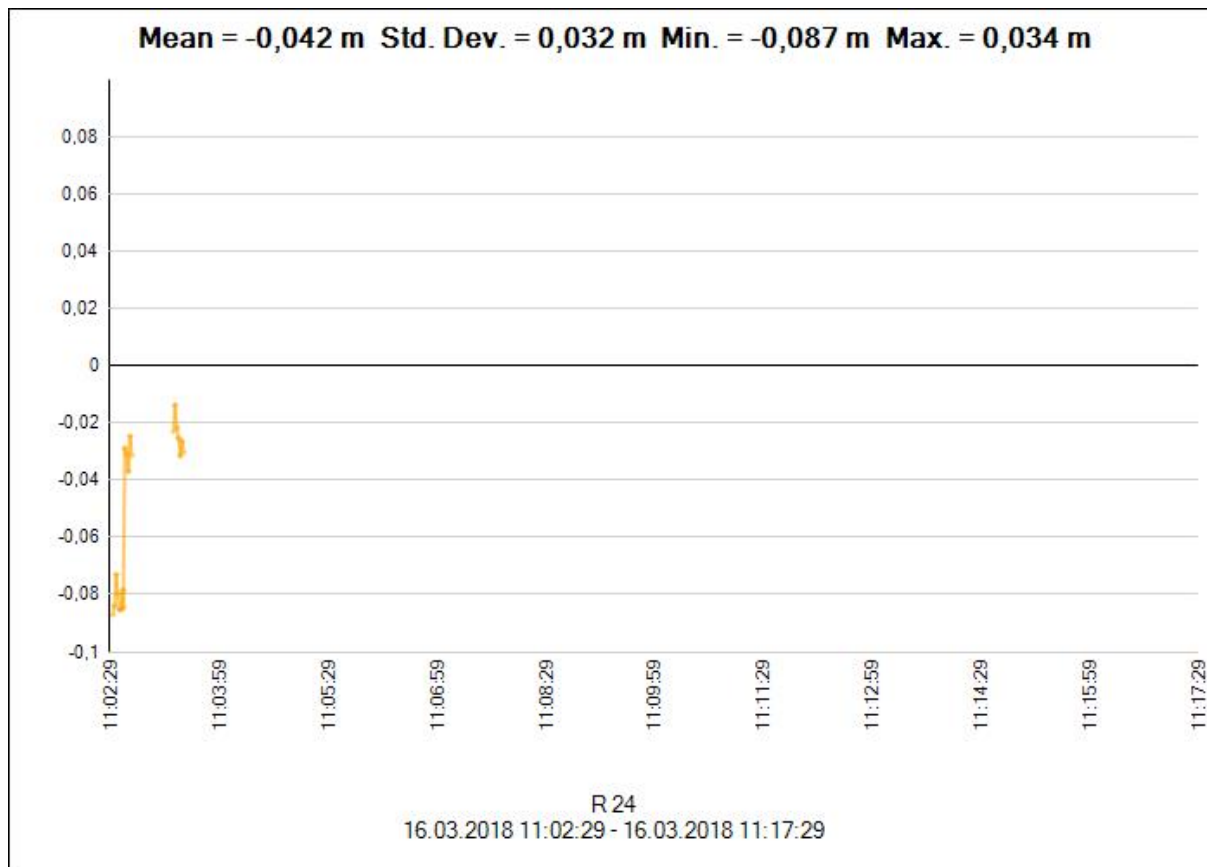
R 17  
16.03.2018 11:02:29 - 16.03.2018 11:17:29

Mean = 0,005 m Std. Dev. = 0,010 m Min. = -0,018 m Max. = 0,033 m



R 18  
16.03.2018 11:02:29 - 16.03.2018 11:17:29





## 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