

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 (B10)	LYRS	BL4-2016	Fixed	0,009	0,025	82°15'40"	15290,737	76,799
LYRS --- BL2-2018 (B7)	LYRS	BL2-2018	Fixed	0,013	0,040	81°24'42"	14182,606	-57,924
LYRS --- BL2-2016 (B5)	LYRS	BL2-2016	Fixed	0,014	0,033	81°24'23"	14180,617	-57,720
LYRS --- BL3-2018 (B8)	LYRS	BL3-2018	Fixed	0,116	0,285	81°56'22"	14662,129	-4,533
LYRS --- BL3-2015 (B6)	LYRS	BL3-2015	Fixed	0,010	0,024	81°56'12"	14660,876	-3,536
LYRS --- BL4-2018 (B9)	LYRS	BL4-2018	Fixed	0,016	0,045	82°15'39"	15292,506	76,178
LYRS --- BL5-2017 (B2)	LYRS	BL5-2017	Fixed	0,019	0,027	82°23'04"	15755,852	134,056
LYRS --- T6-2018 (B4)	LYRS	T6-2018	Fixed	0,009	0,036	81°20'51"	17421,721	66,210
LYRS --- T5-2018 (B3)	LYRS	T5-2018	Fixed	0,013	0,064	80°44'17"	17902,977	39,576
LYRS --- T2-2016 (B1)	LYRS	T2-2016	Fixed	0,009	0,023	80°14'29"	19211,404	-99,591

Acceptance Summary

Processed	Passed	Flag 	Fail 
10	9	0	1

LYRS - BL4-2016 (12:49:45-13:16:21) (S10)

Baseline observation: LYRS --- BL4-2016 (B10)
 Processed: 23.03.2018 15:34:52
 Solution type: Fixed
 Frequency used: Dual Frequency (L1, L2)
 Horizontal precision: 0,009 m
 Vertical precision: 0,025 m
 RMS: 0,002 m
 Maximum PDOP: 2,022
 Ephemeris used: Broadcast
 Antenna model: Trimble Calibration
 Processing start time: 15.03.2018 12:49:45 (Local: UTC+1hr)
 Processing stop time: 15.03.2018 13:16:21 (Local: UTC+1hr)
 Processing duration: 12:26:36 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:	BL4-2016				
	Grid	Local		Global	
Easting	524179,274 m	Latitude	N78°14'47,38583"	Latitude	N78°14'47,38583"
Northing	8686098,592 m	Longitude	E16°03'48,06089"	Longitude	E16°03'48,06089"
Elevation	572,481 m	Height	572,481 m	Height	572,481 m

Vector					
9Ughb[15131,136 m	NS Fwd Azimuth	82°15'40"	L	-5955,310 m
Bcfh]b[2161,024 m	Ellipsoid Dist.	15290,737 m	M	14076,854 m
9`Yj Uhcb	76,799 m	<Y]\`h	76,799 m	N	477,391 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[0,003 m	'9``]dgc]X 8]gh	0,003 m	M	0,003 m
9`Yj Uhc[0,013 m	<Y][\h	0,013 m	N	0,013 m

Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0,0000190141		
Y	0,0000067590	0,0000097245	
Z	0,0000379879	0,0000142619	0,0001578875

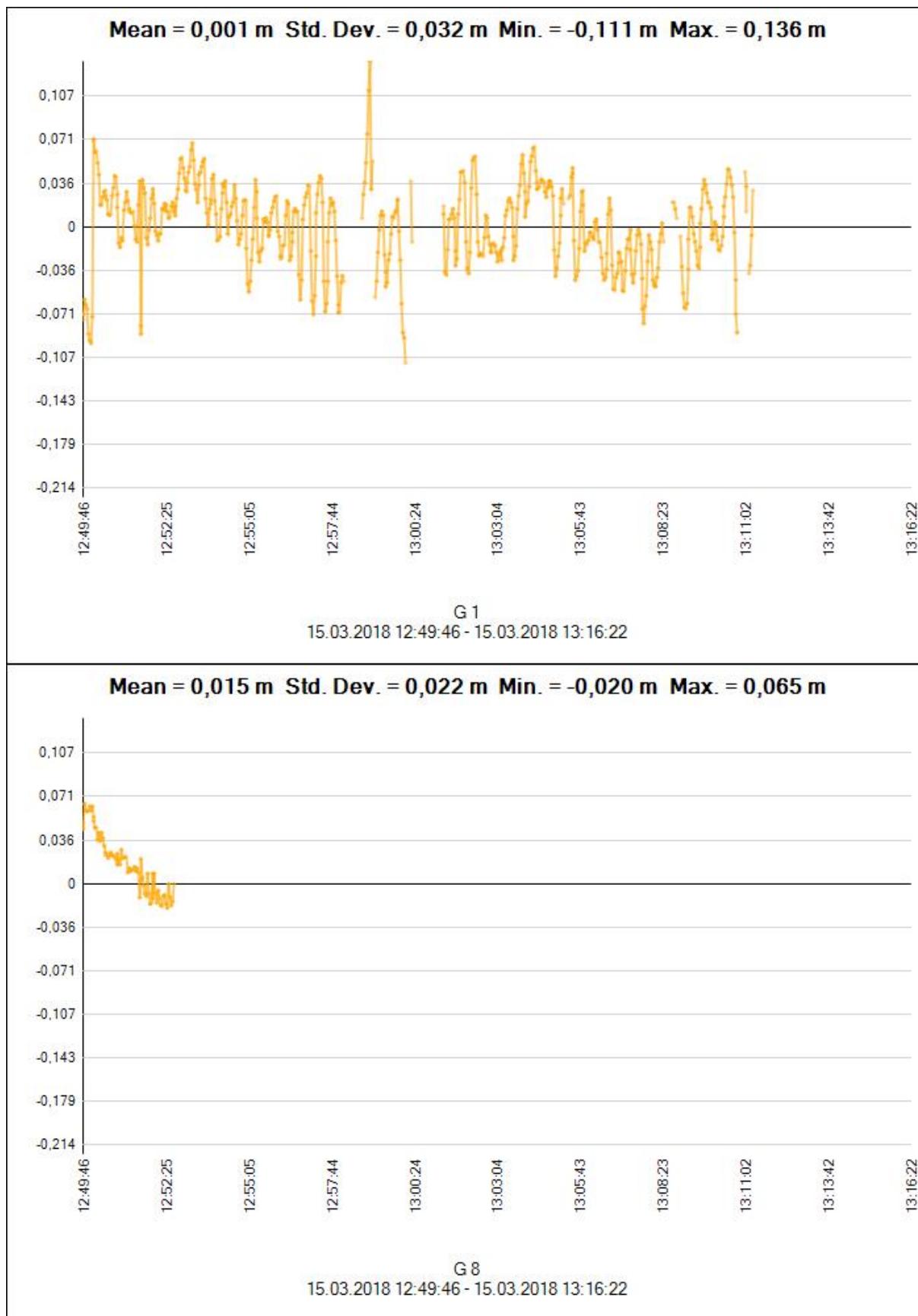
Occupations

	From	To
Point ID:	LYRS	BL4-2016
Data file:	C:\Users\lth842\Documents\Trimble Business Center\Unnamed\lyrs0740.18o	C:\Users\lth842\Documents\Trimble Business Center\Unnamed\4625074D.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	2,080 m
Antenna method:	Bottom of antenna mount	Bottom of antenna mount

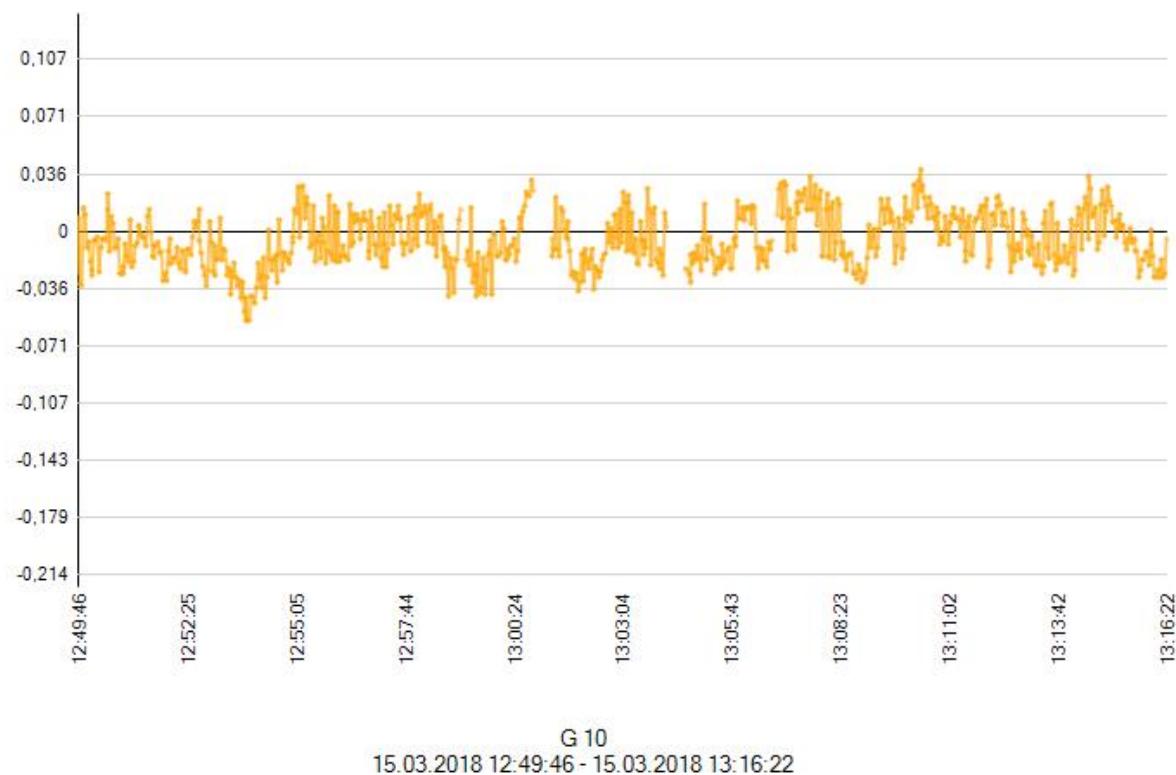
Tracking Summary

SV	15.03.2018 12:49:45	Duration: 00:26:36	Major interval: 00:01:00	15.03.2018 13:16:21
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 1	L1 L2			
R 8	L1 L2			
R 9	L1 L2			
R 10	L1 L2			
R 16	L1 L2			
R 17	L1 L2			
R 18	L1 L2			
R 19	L1 L2			

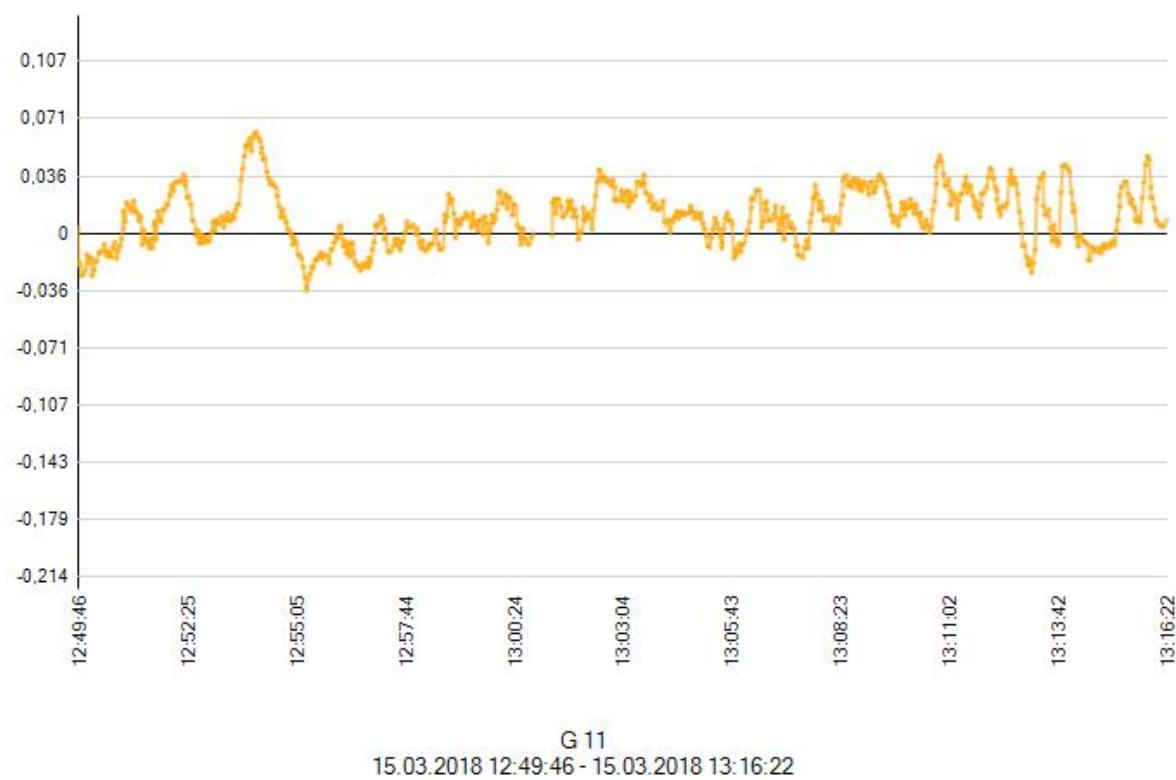
Residuals



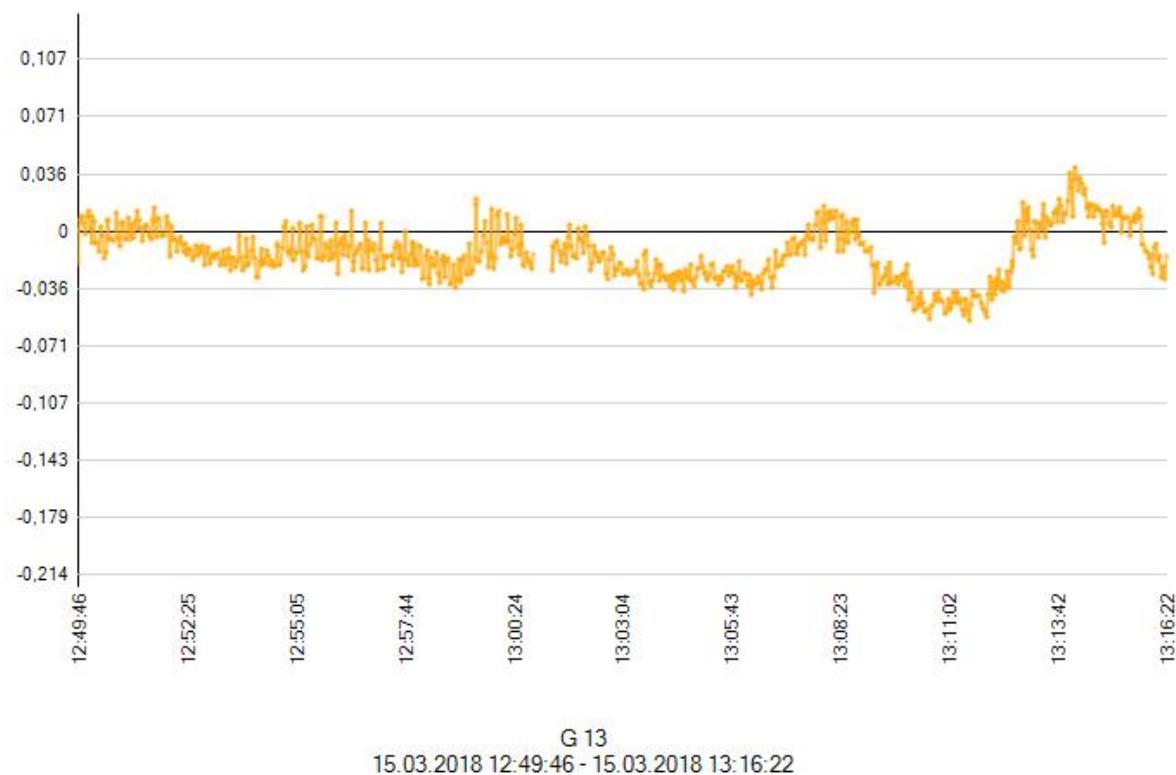
Mean = -0,004 m Std. Dev. = 0,015 m Min. = -0,056 m Max. = 0,039 m



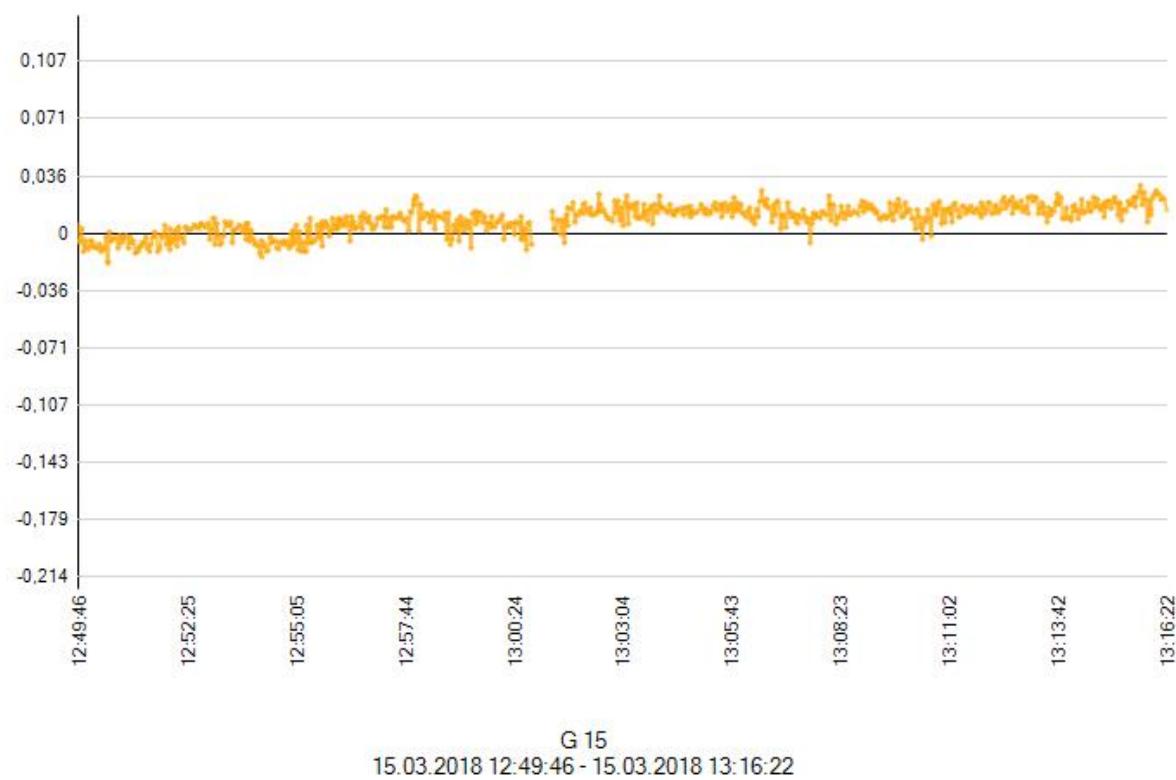
Mean = 0,009 m Std. Dev. = 0,016 m Min. = -0,036 m Max. = 0,063 m



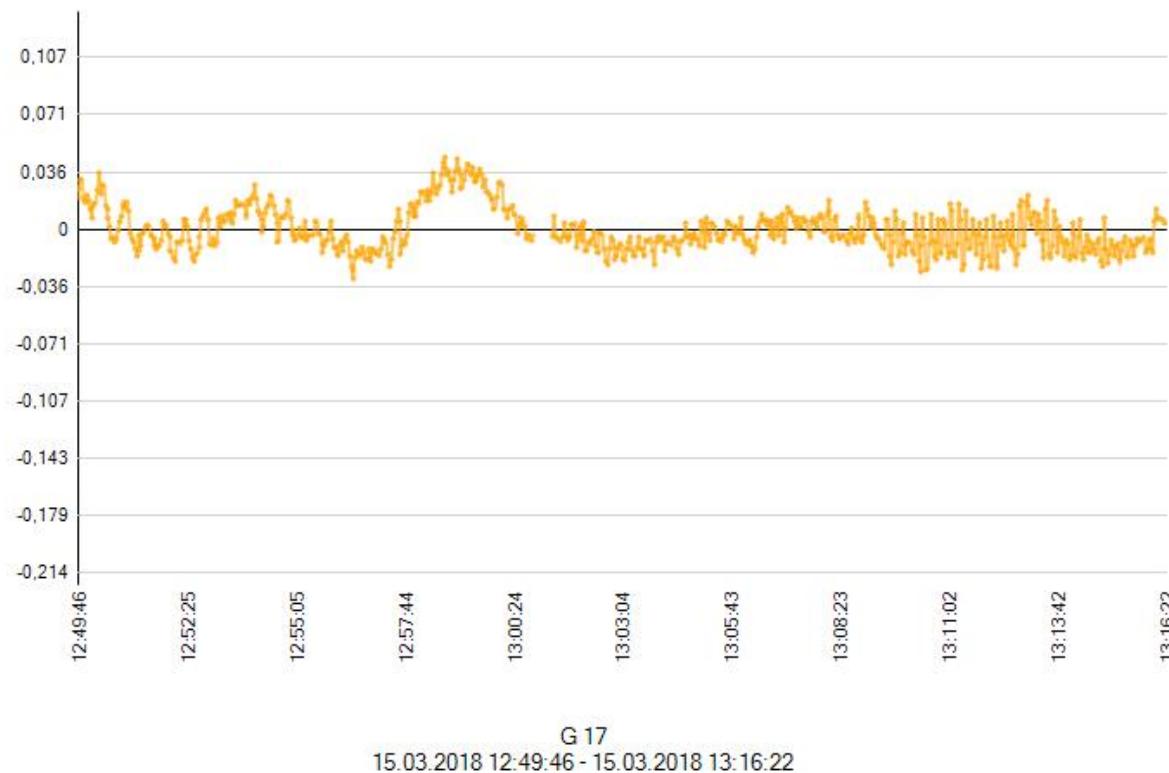
Mean = -0,012 m Std. Dev. = 0,015 m Min. = -0,056 m Max. = 0,040 m



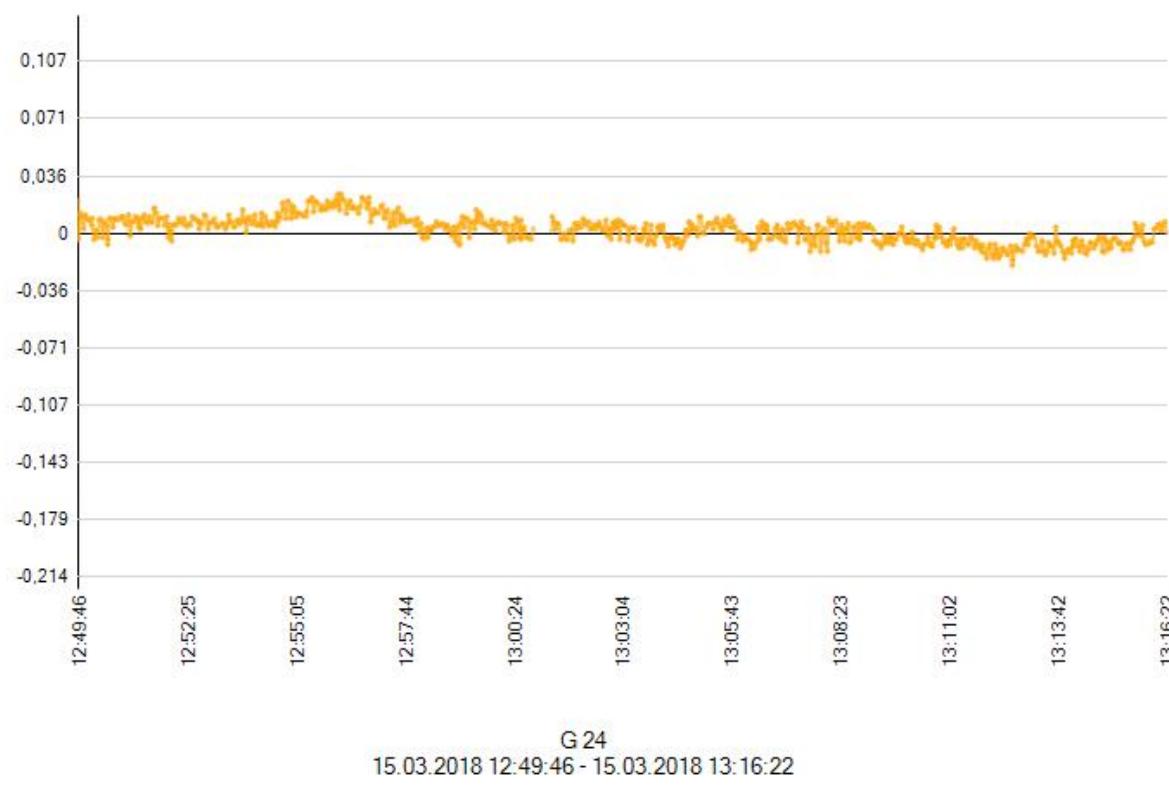
Mean = 0,008 m Std. Dev. = 0,008 m Min. = -0,019 m Max. = 0,030 m



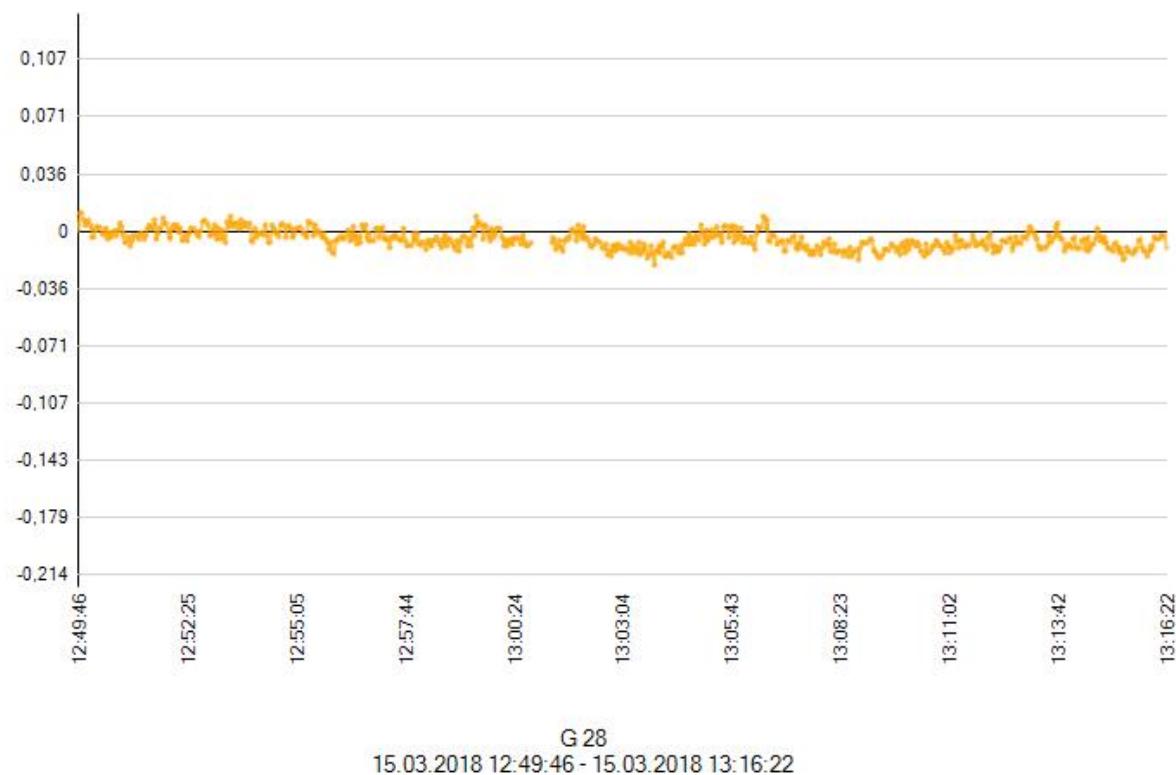
Mean = 0,000 m Std. Dev. = 0,012 m Min. = -0,031 m Max. = 0,045 m



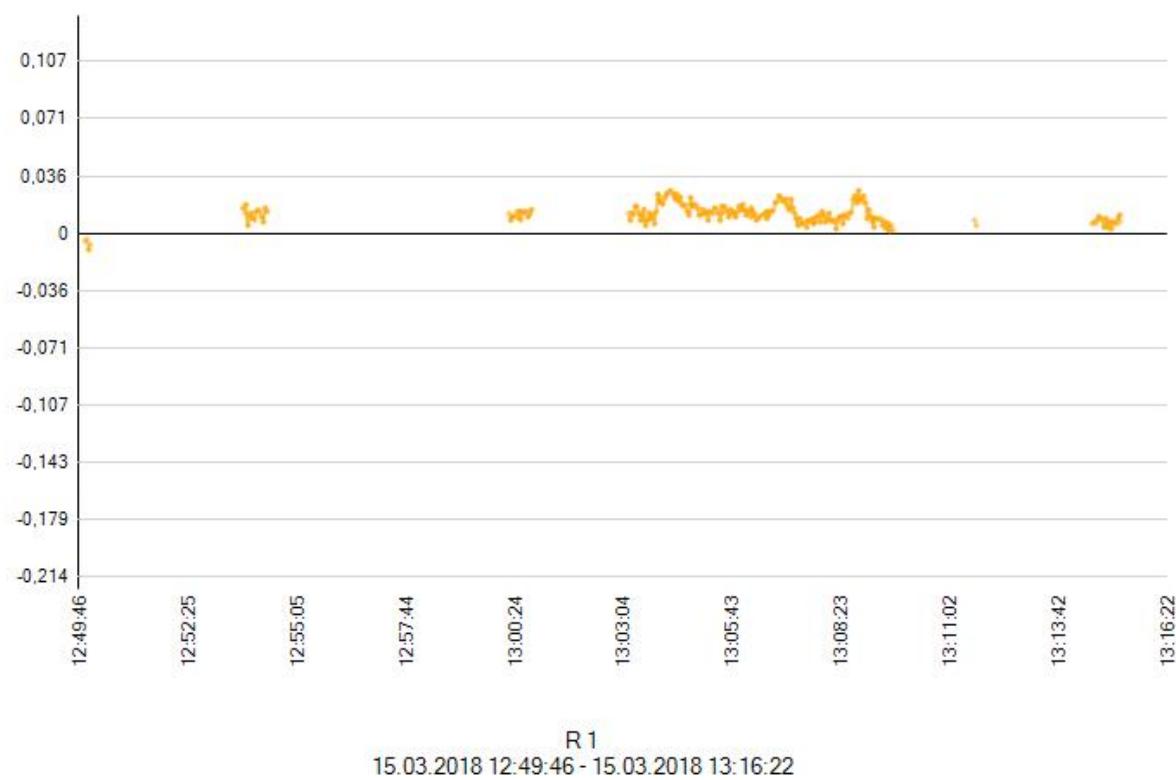
Mean = 0,002 m Std. Dev. = 0,007 m Min. = -0,020 m Max. = 0,025 m



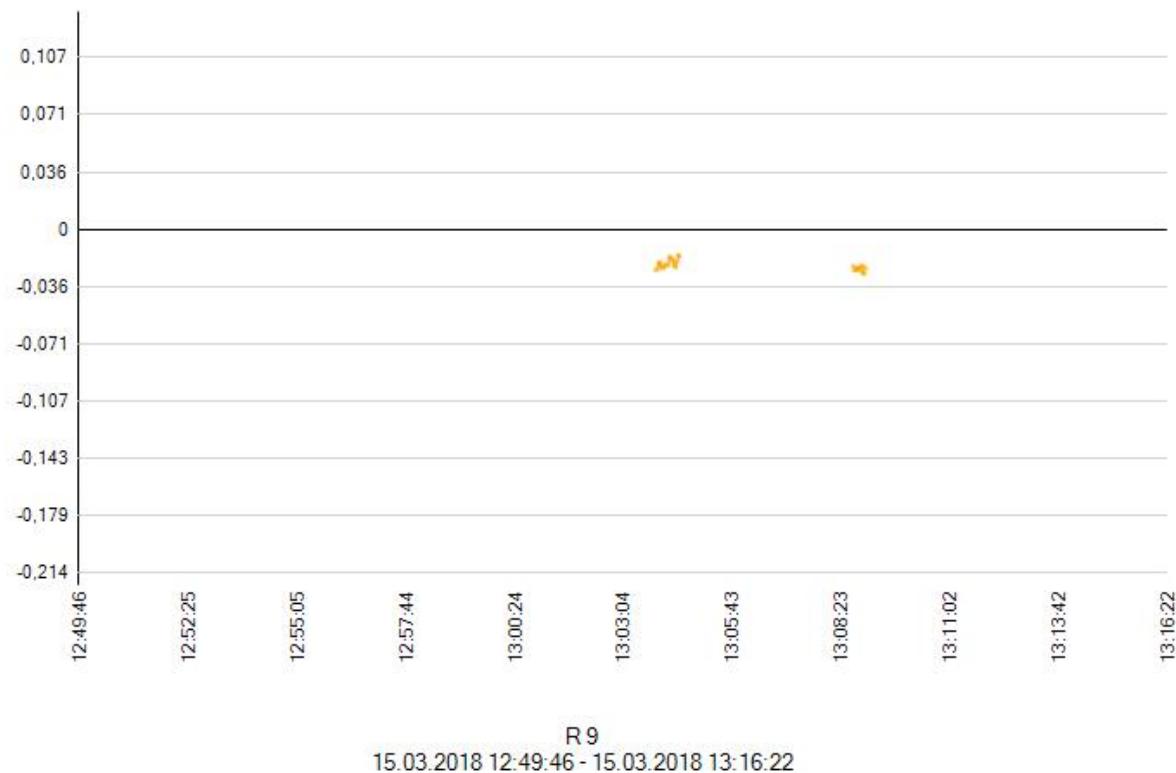
Mean = -0,004 m Std. Dev. = 0,005 m Min. = -0,021 m Max. = 0,012 m



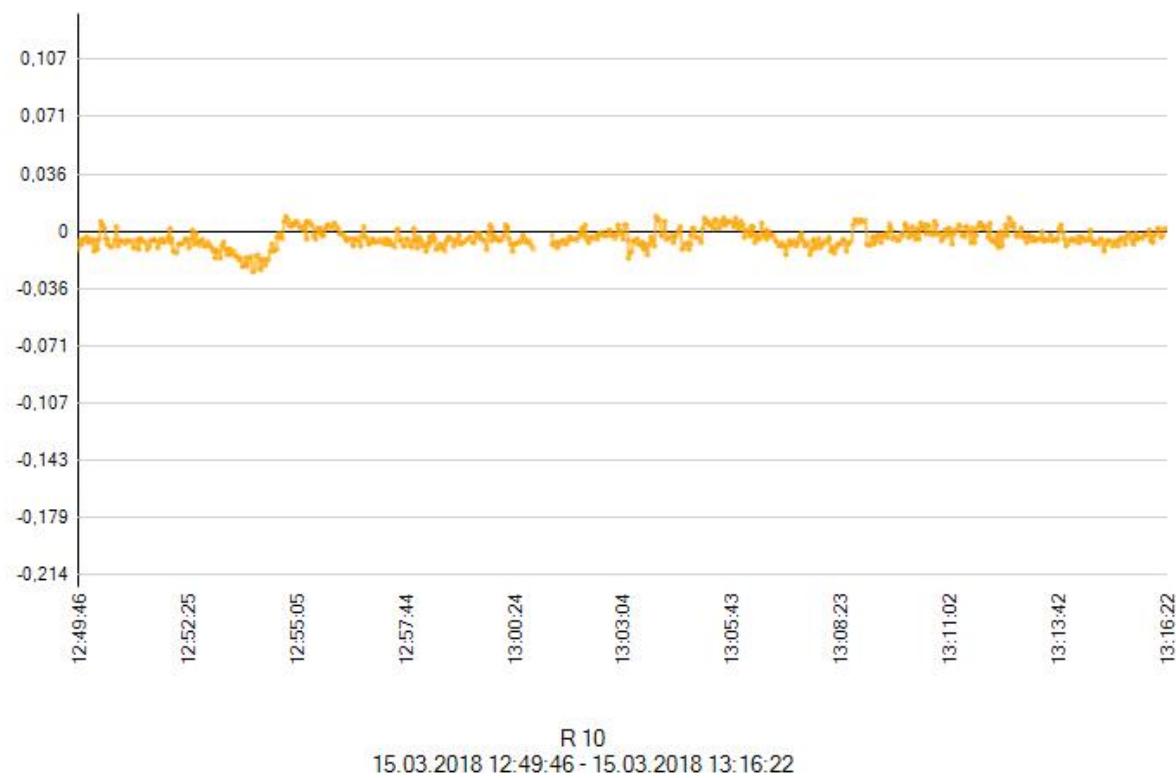
Mean = 0,011 m Std. Dev. = 0,006 m Min. = -0,010 m Max. = 0,027 m



Mean = -0,021 m Std. Dev. = 0,003 m Min. = -0,027 m Max. = -0,015 m



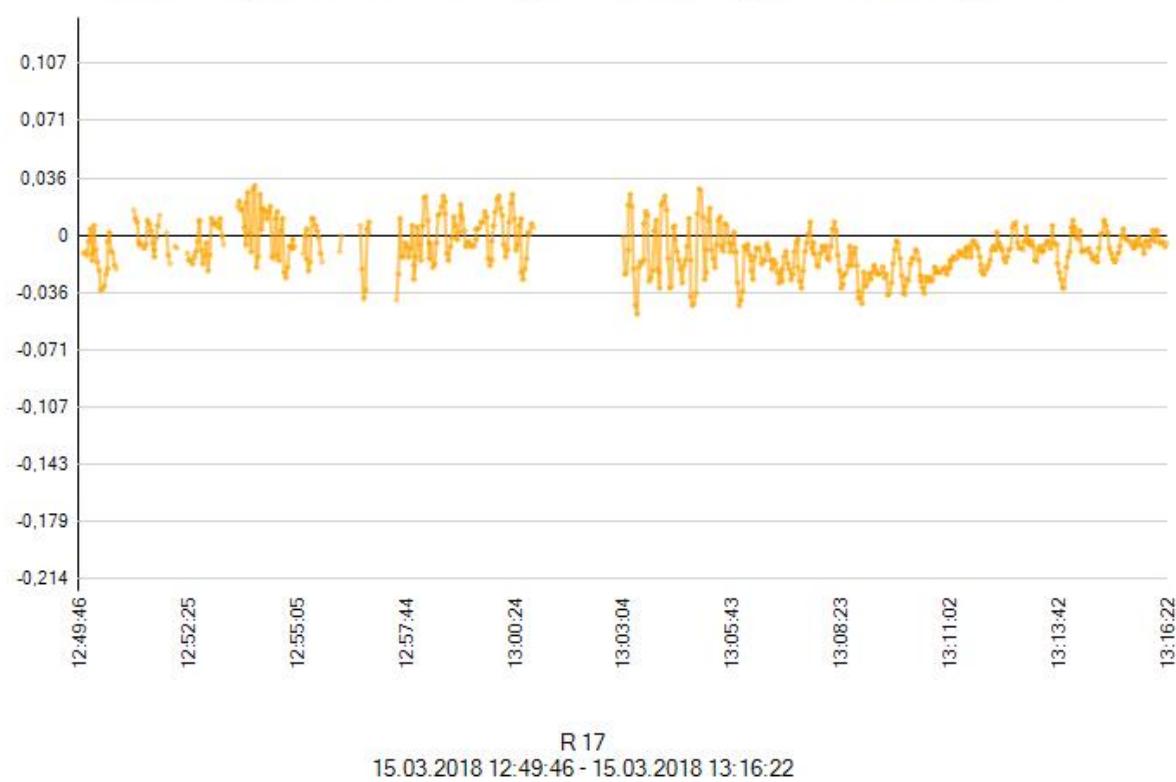
Mean = -0,004 m Std. Dev. = 0,005 m Min. = -0,025 m Max. = 0,009 m



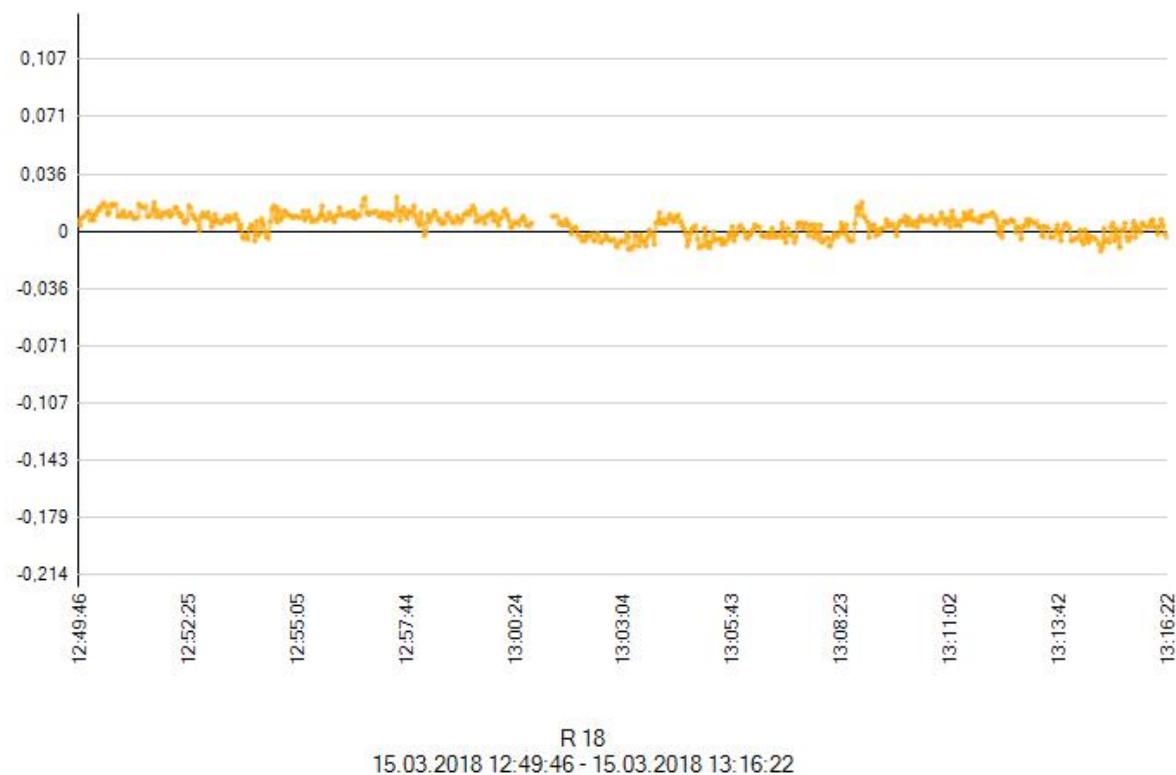
Mean = 0,003 m Std. Dev. = 0,040 m Min. = -0,221 m Max. = 0,115 m



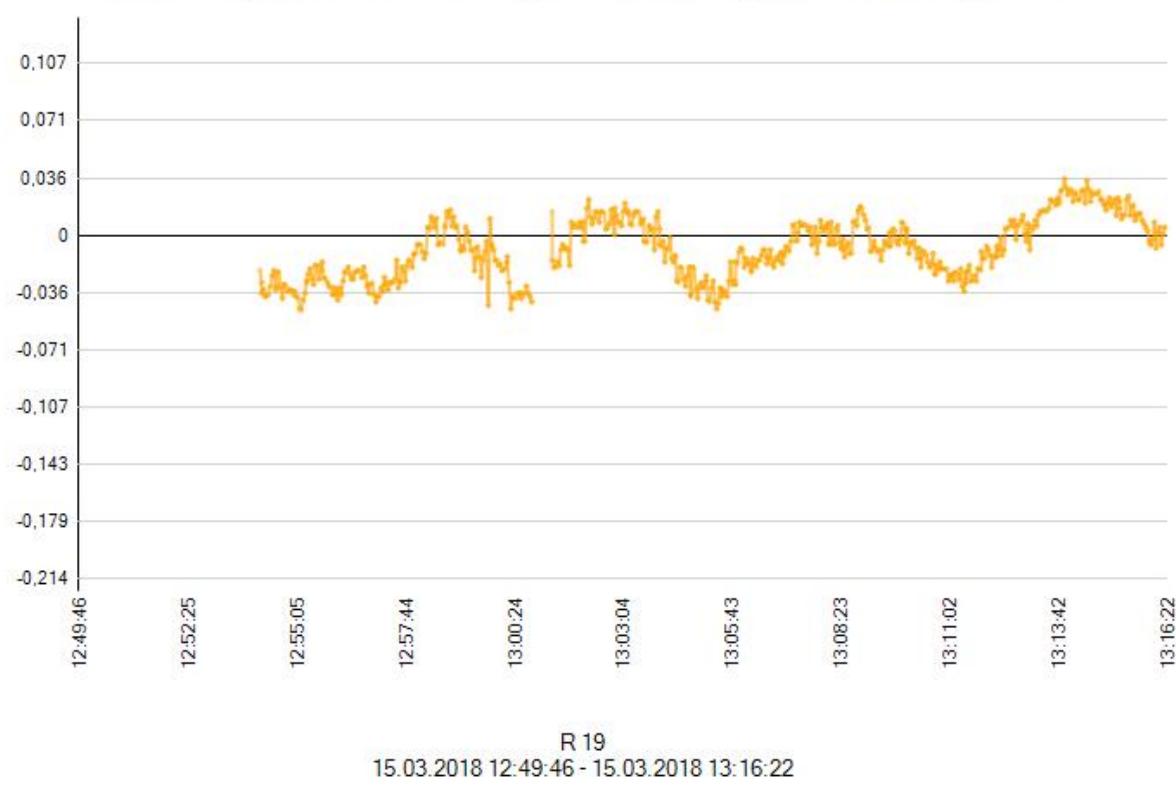
Mean = -0,007 m Std. Dev. = 0,013 m Min. = -0,049 m Max. = 0,031 m



Mean = 0,004 m Std. Dev. = 0,006 m Min. = -0,012 m Max. = 0,022 m



Mean = -0,008 m Std. Dev. = 0,017 m Min. = -0,047 m Max. = 0,035 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 - BL2-2018 (11:09:01-11:24:18) (S7)

Baseline observation: LYRS --- BL2-2018 (B7)
 Processed: 23.03.2018 15:35:00
 Solution type: Fixed
 Frequency used: Dual Frequency (L1, L2)
 Horizontal precision: 0,013 m
 Vertical precision: 0,040 m
 RMS: 0,001 m
 Maximum PDOP: 2,215
 Ephemeris used: Broadcast
 Antenna model: Trimble Calibration
 Processing start time: 15.03.2018 11:09:01 (Local: UTC+1hr)
 Processing stop time: 15.03.2018 11:24:18 (Local: UTC+1hr)
 Processing duration: 12:15:17 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:	BL2-2018				
Grid		Local		Global	
Easting	523051,451 m	Latitude	N78°14'49,68335"	Latitude	N78°14'49,68335"
Northing	8686149,812 m	Longitude	E16°00'49,68181"	Longitude	E16°00'49,68181"
Elevation	437,757 m	Height	437,757 m	Height	437,757 m

Vector					
9Ughjb[14003,313 m	NS Fwd Azimuth	81°24'42"	L	-5737,287 m
Bcfh]b[2212,243 m	Ellipsoid Dist.	14182,606 m	M	12966,606 m
9Yj Uhcb	-57,924 m	<Y][\h	-57,924 m	N	360,007 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[0,005 m	'9``]dgc]X 8]gh	0,003 m	M	0,003 m
9`Yj Uhc[0,021 m	<Y][\h	0,021 m	N	0,021 m

Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0,0000142342		
Y	0,0000019545	0,0000118842	
Z	0,0000049796	0,0000104380	0,0004356272

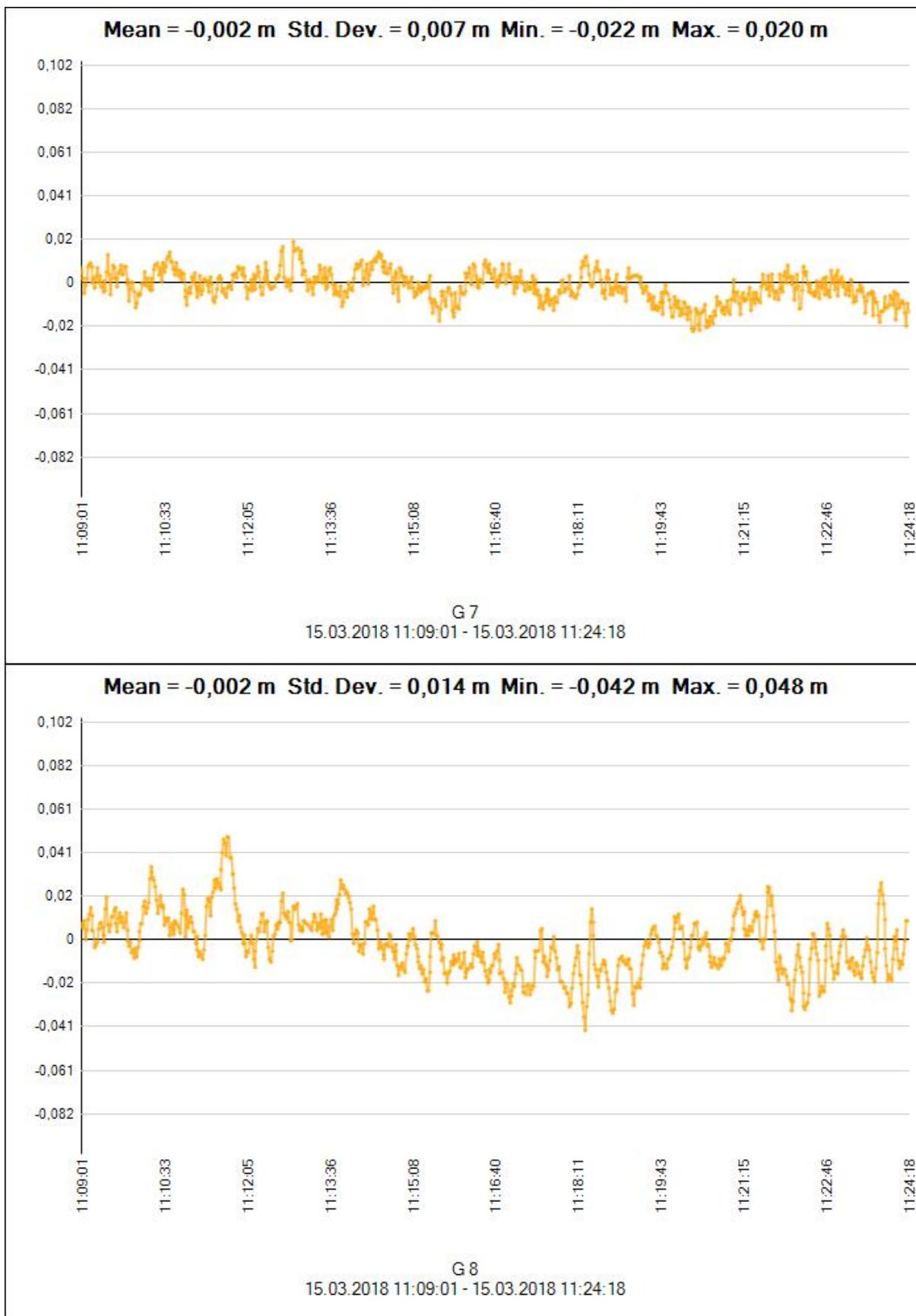
Occupations

	From	To
Point ID:	LYRS	BL2-2018
Data file:	C:\Users\lth842\Documents\Trimble Business Center\Unnamed\lyrs0740.18o	C:\Users\lth842\Documents\Trimble Business Center\Unnamed\46250749.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	0,600 m
Antenna method:	Bottom of antenna mount	Antenna Phase Center

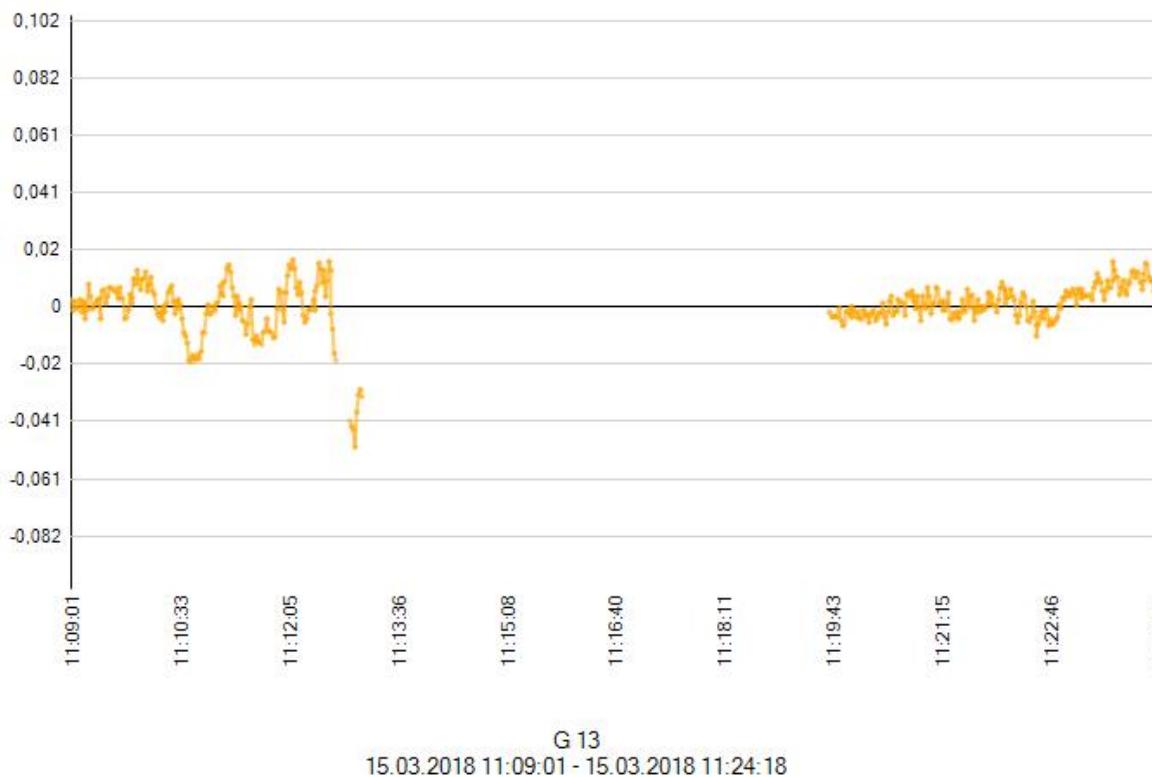
Tracking Summary

SV	15.03.2018 11:09:01	Duration: 00:15:17 Major interval: 00:01:00	15.03.2018 11:24:18
G 7	L1 L2		
G 8	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 7	L1 L2		
R 8	L1 L2		—
R 9	L1 L2		
R 15	L1 L2		
R 16	L1 L2		
R 17	L1 L2		
R 23	L1 L2		
R 24	L1 L2		

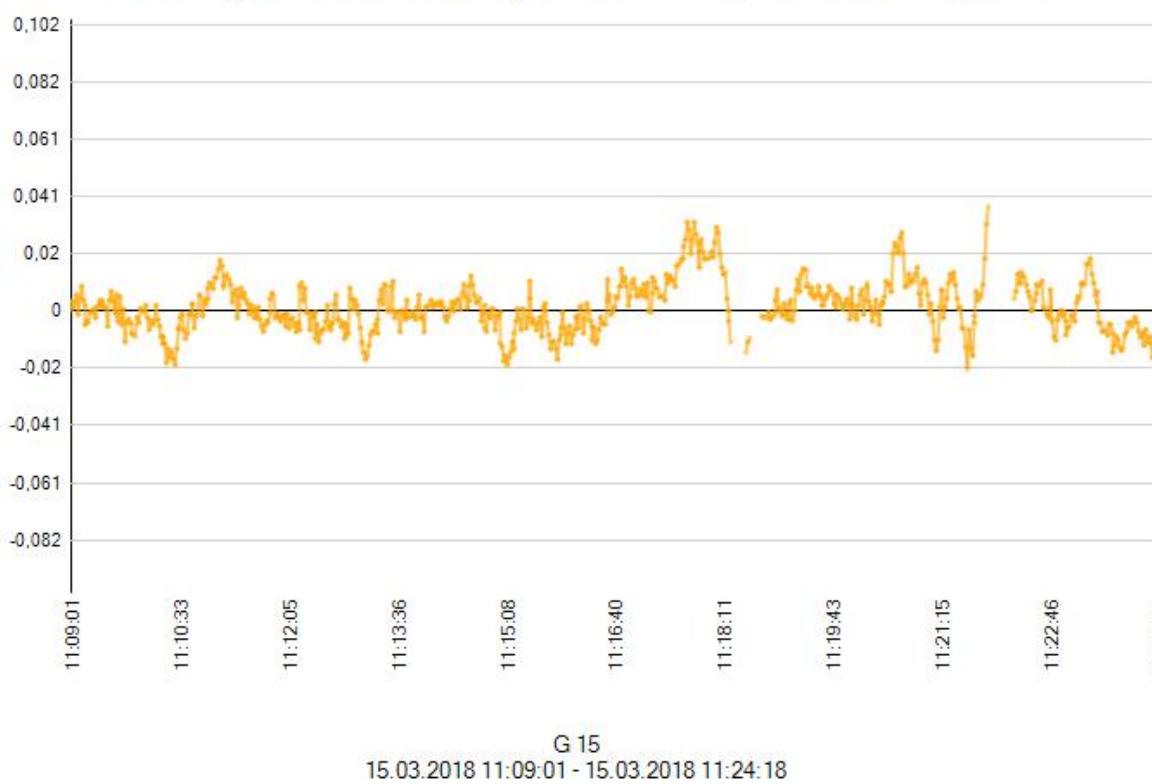
Residuals



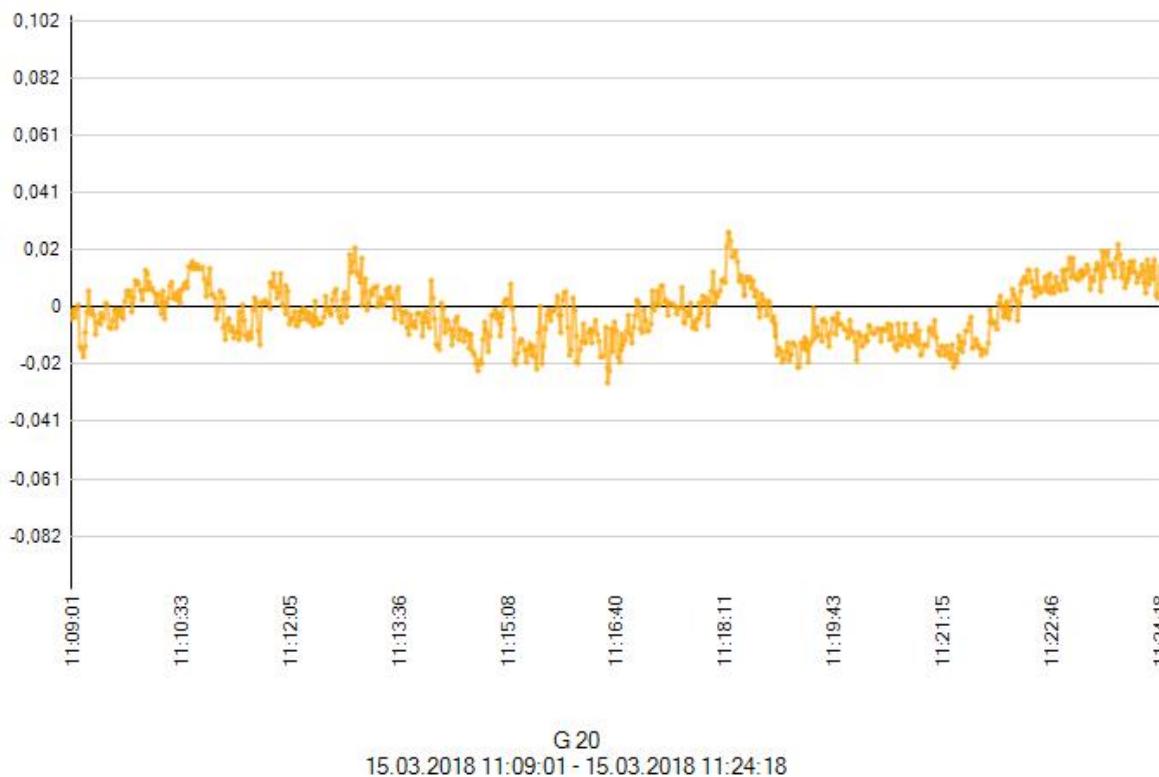
Mean = 0,000 m Std. Dev. = 0,009 m Min. = -0,050 m Max. = 0,017 m



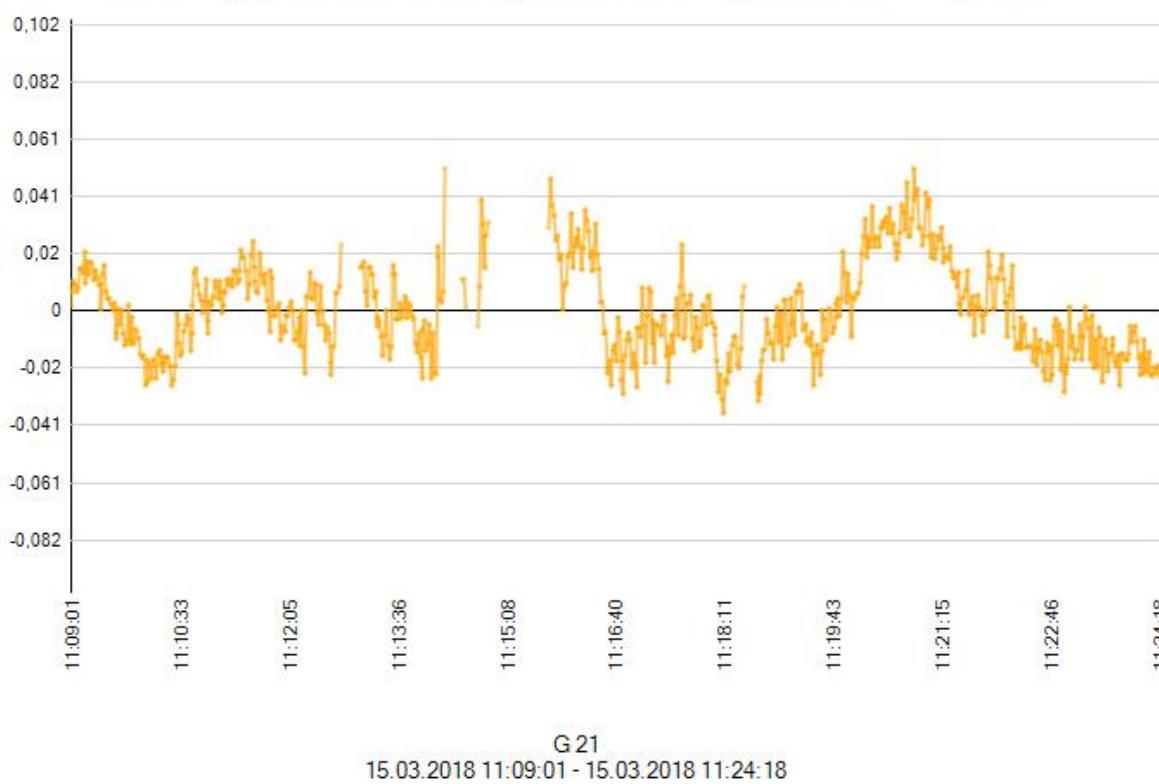
Mean = 0,002 m Std. Dev. = 0,009 m Min. = -0,020 m Max. = 0,037 m



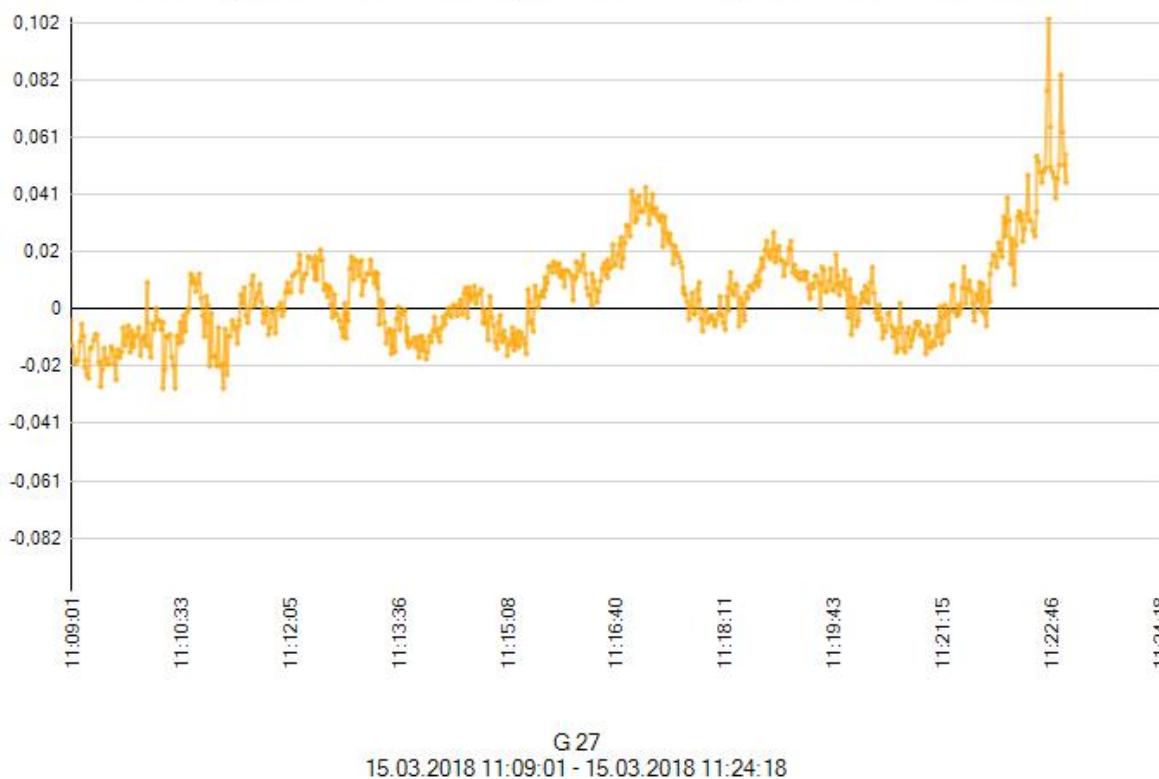
Mean = -0,002 m Std. Dev. = 0,009 m Min. = -0,027 m Max. = 0,027 m



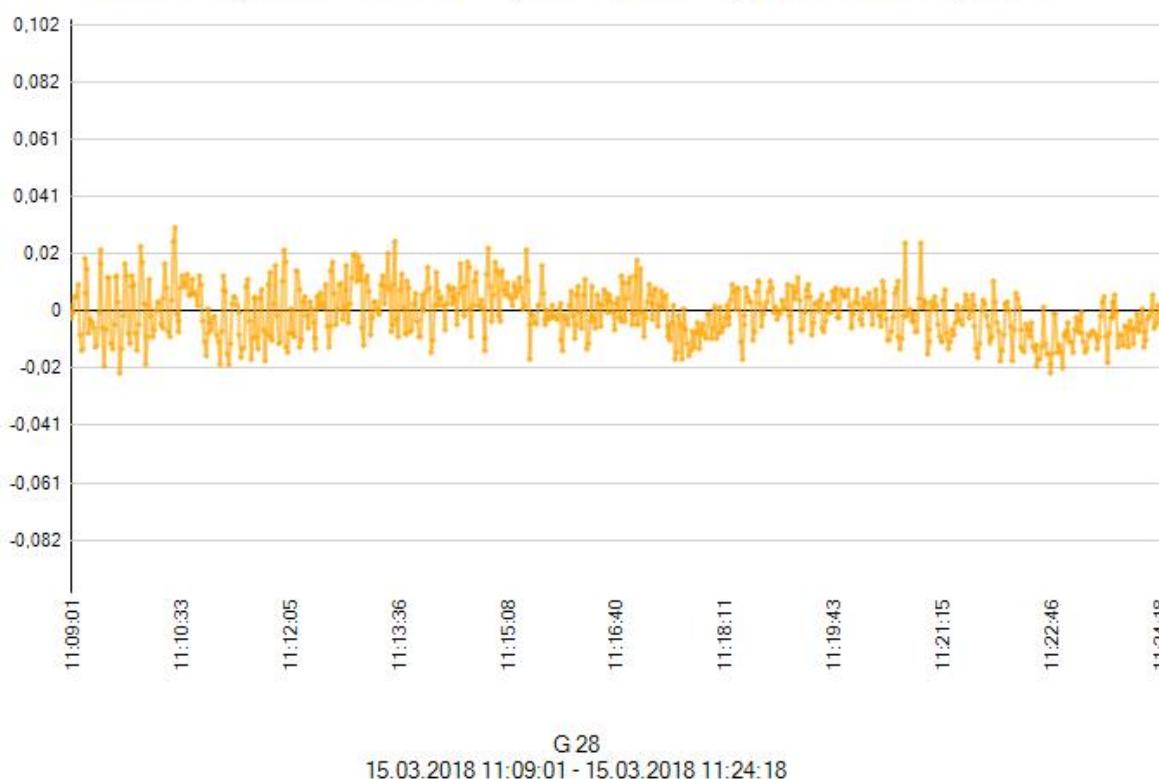
Mean = 0,001 m Std. Dev. = 0,016 m Min. = -0,036 m Max. = 0,051 m



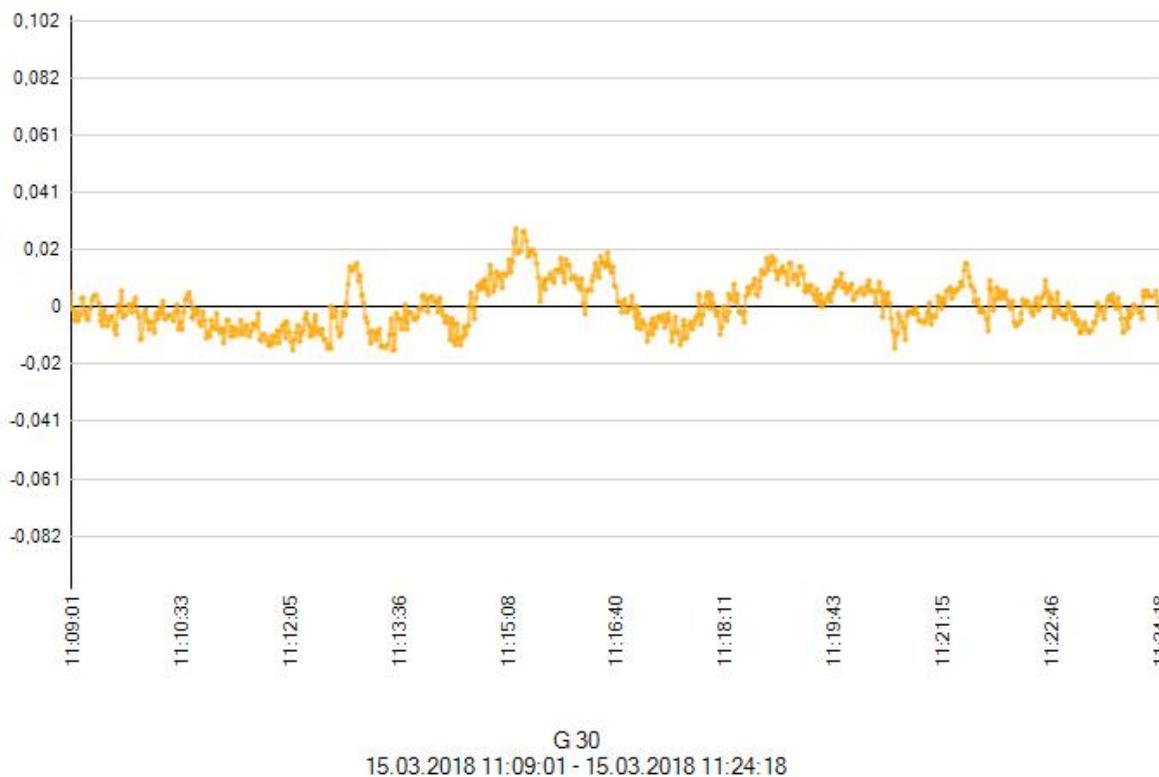
Mean = 0,005 m Std. Dev. = 0,016 m Min. = -0,028 m Max. = 0,104 m



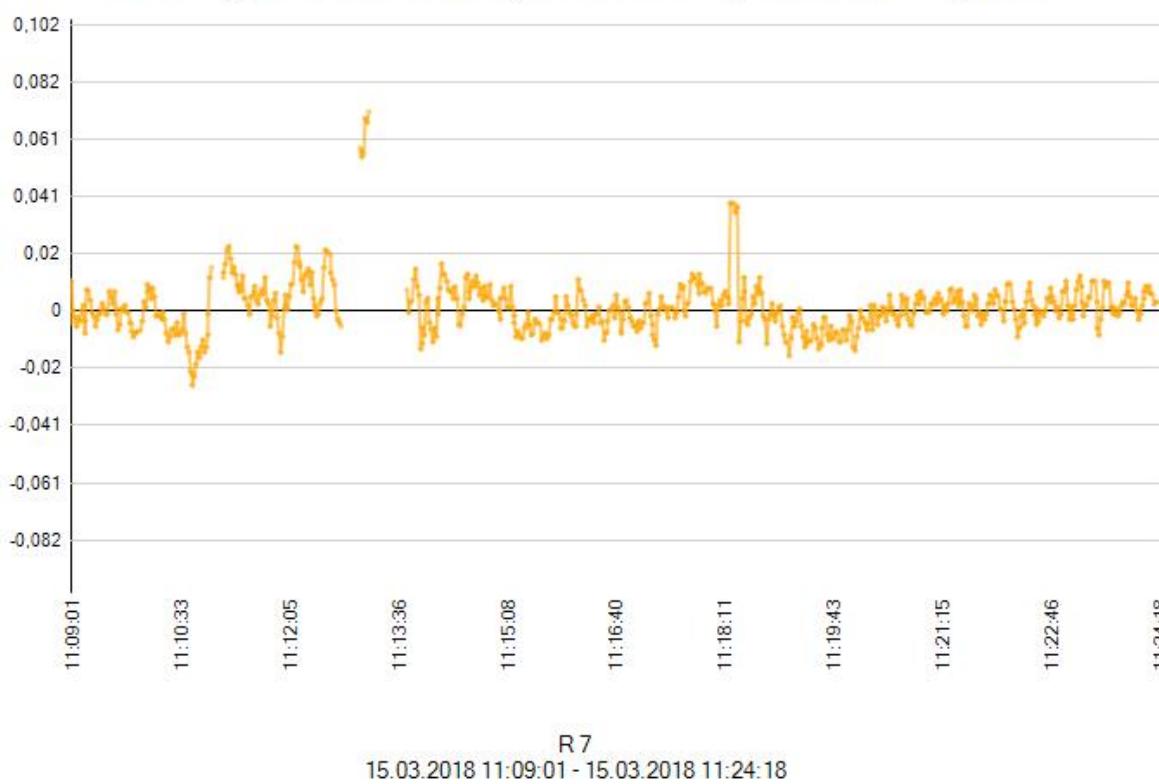
Mean = -0,001 m Std. Dev. = 0,008 m Min. = -0,022 m Max. = 0,030 m



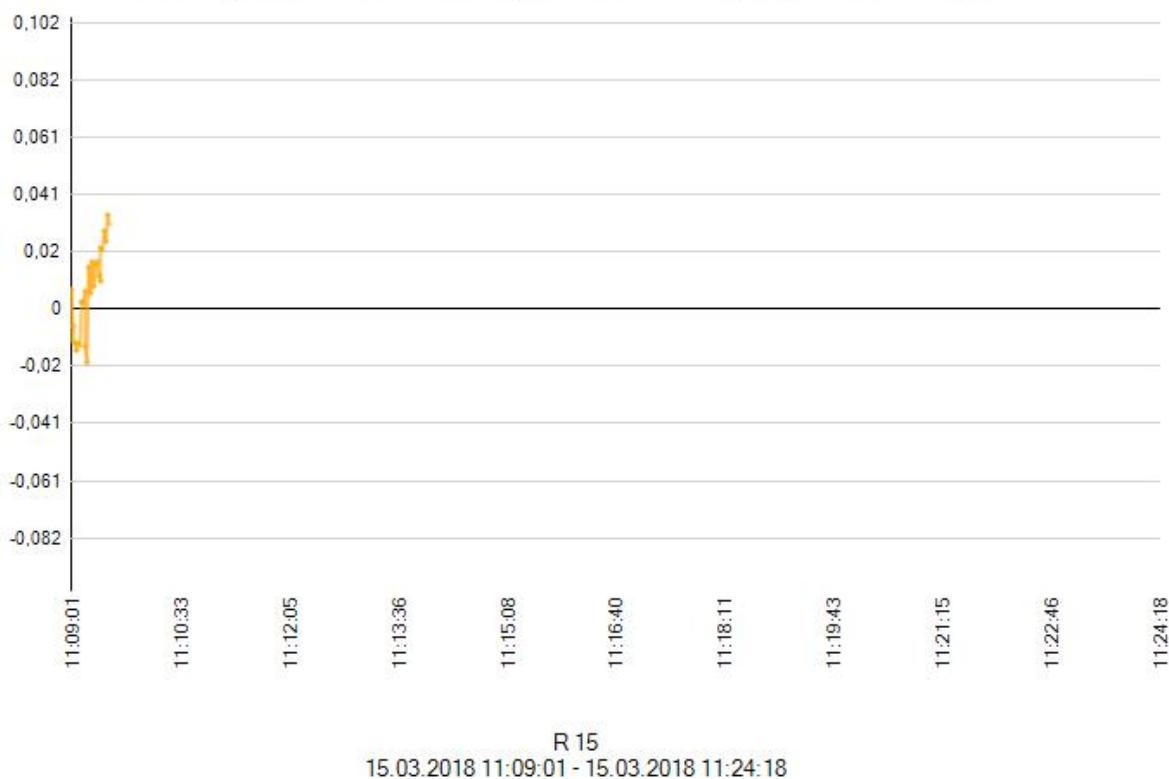
Mean = 0,000 m Std. Dev. = 0,008 m Min. = -0,016 m Max. = 0,028 m



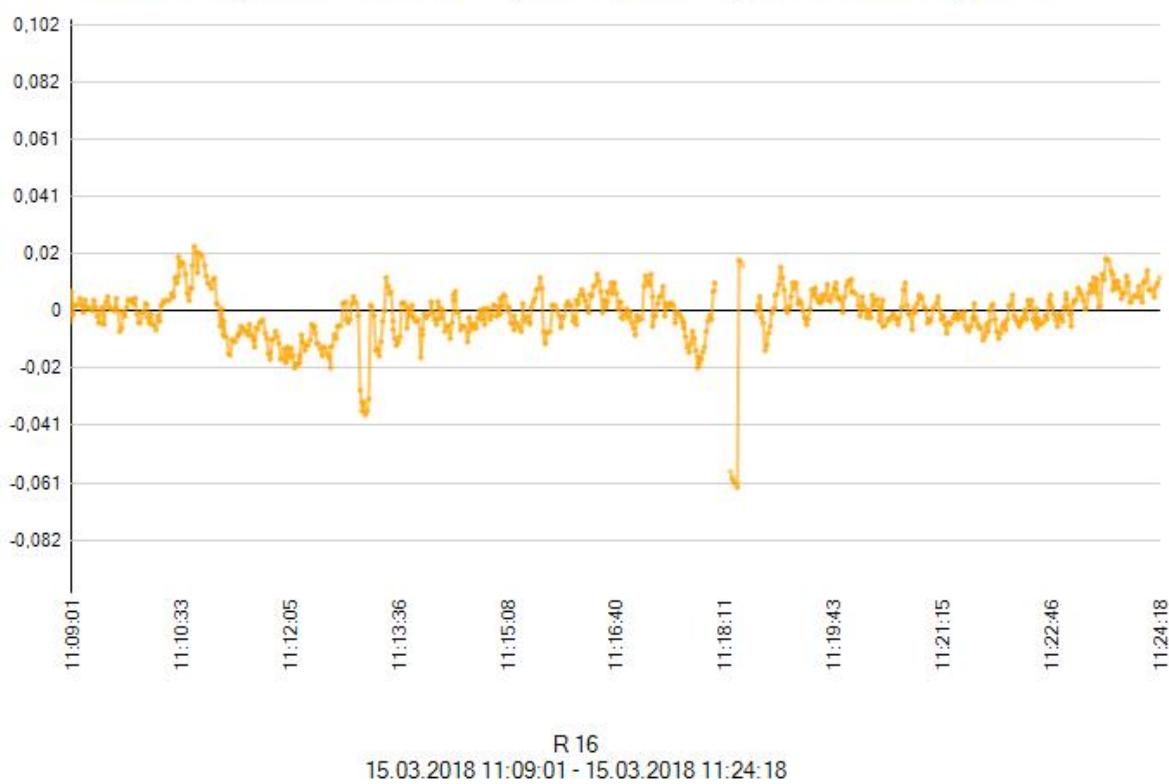
Mean = 0,002 m Std. Dev. = 0,010 m Min. = -0,026 m Max. = 0,071 m



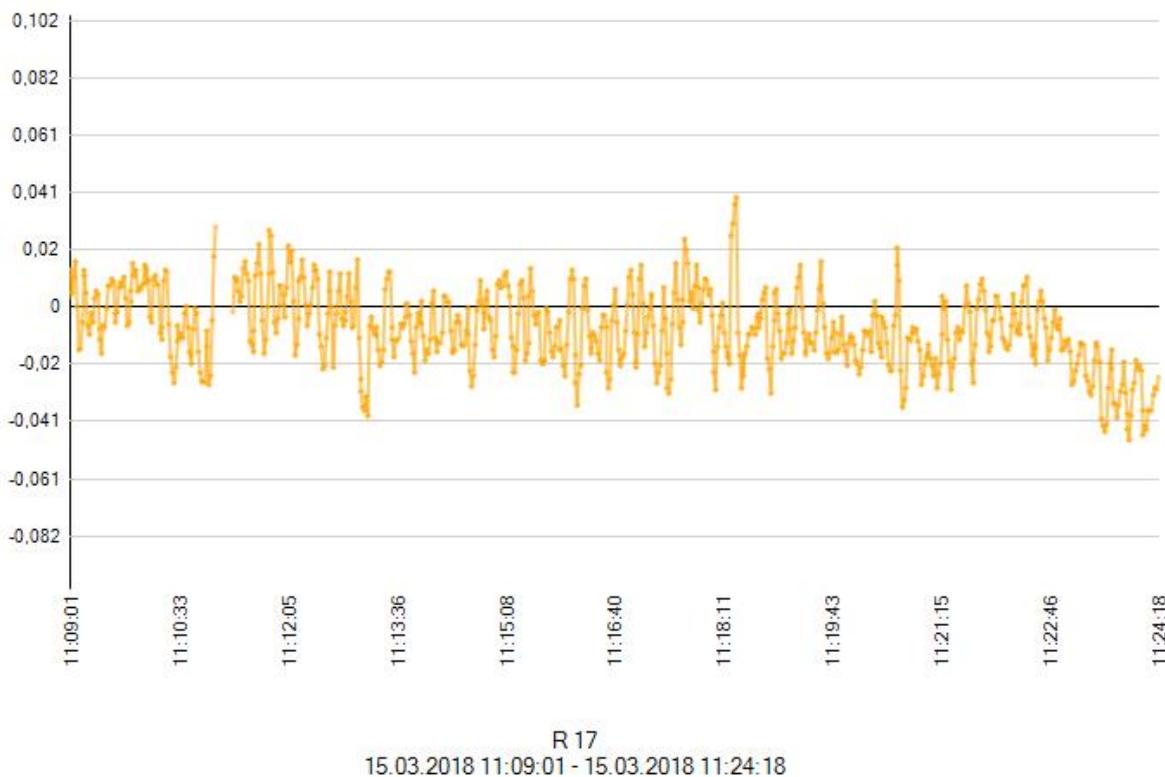
Mean = 0,006 m Std. Dev. = 0,014 m Min. = -0,019 m Max. = 0,034 m



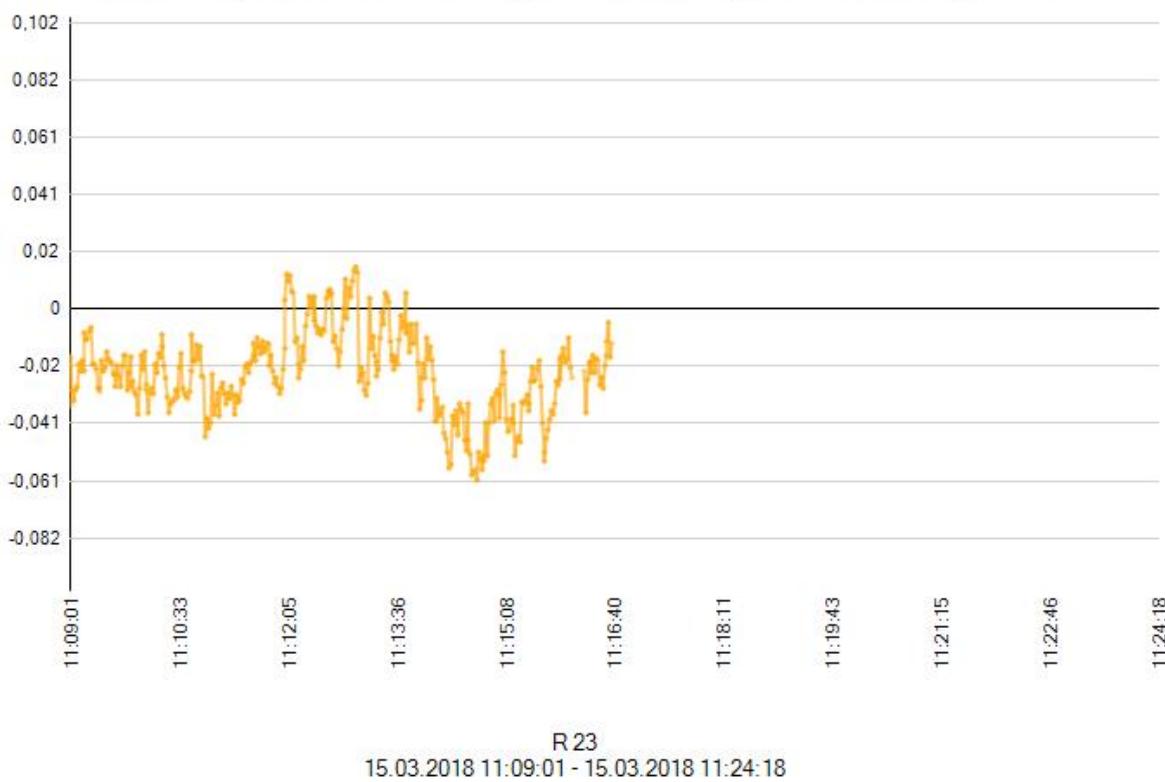
Mean = -0,001 m Std. Dev. = 0,009 m Min. = -0,063 m Max. = 0,023 m

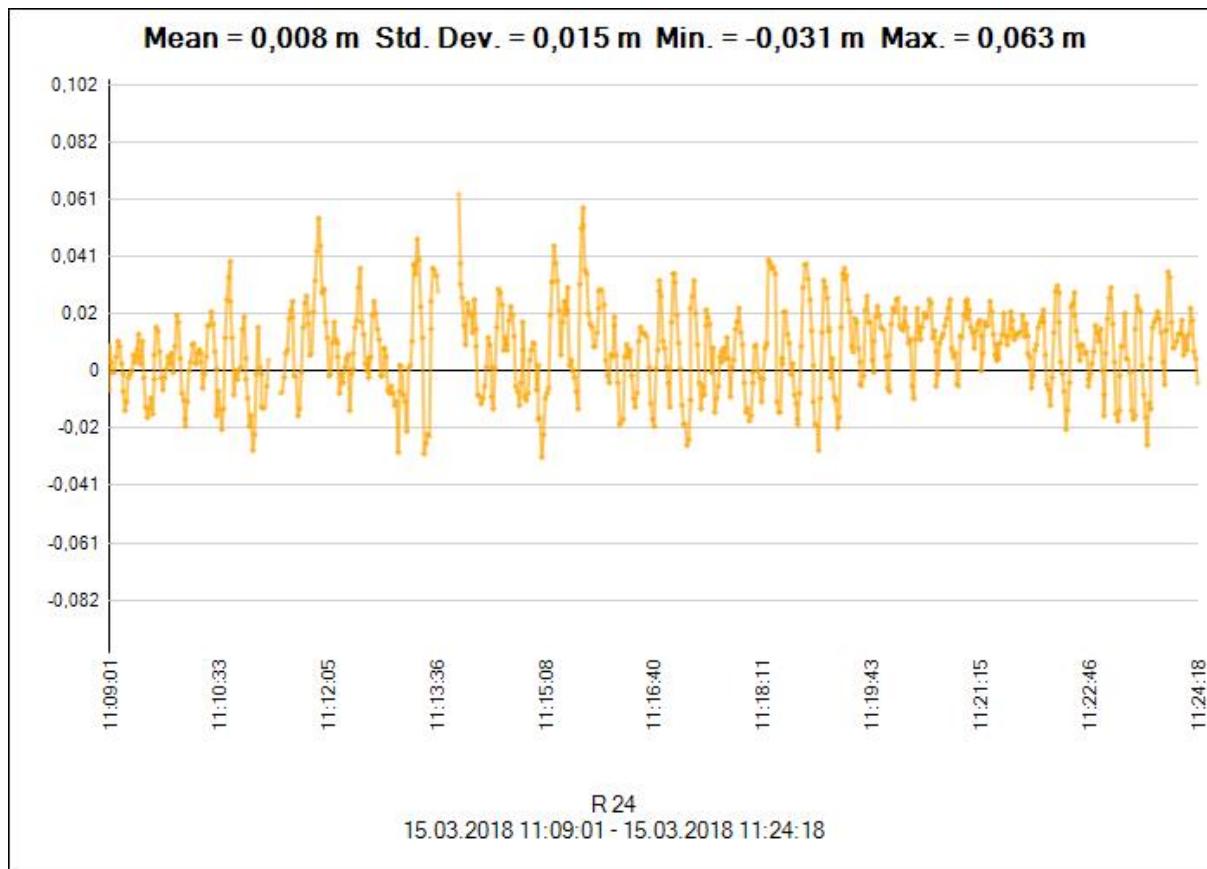


Mean = -0,007 m Std. Dev. = 0,013 m Min. = -0,047 m Max. = 0,039 m



Mean = -0,022 m Std. Dev. = 0,015 m Min. = -0,061 m Max. = 0,015 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 - BL2-2016 (10:49:56-11:05:01) (S5)

Baseline observation: LYRS --- BL2-2016 (B5)
 Processed: 23.03.2018 15:35:08
 Solution type: Fixed
 Frequency used: Dual Frequency (L1, L2)
 Horizontal precision: 0,014 m
 Vertical precision: 0,033 m
 RMS: 0,002 m
 Maximum PDOP: 2,104
 Ephemeris used: Broadcast
 Antenna model: Trimble Calibration
 Processing start time: 15.03.2018 10:49:56 (Local: UTC+1hr)
 Processing stop time: 15.03.2018 11:05:01 (Local: UTC+1hr)
 Processing duration: 12:15:05 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:	BL2-2016				
Grid		Local		Global	
Easting	523049,283 m	Latitude	N78°14'49,71618"	Latitude	N78°14'49,71618"
Northing	8686150,792 m	Longitude	E16°00'49,34129"	Longitude	E16°00'49,34129"
Elevation	437,961 m	Height	437,961 m	Height	437,961 m

Vector					
9Ughjb[14001,144 m	NS Fwd Azimuth	81°24'23"	L	-5737,611 m
Bcfh]b[2213,223 m	Ellipsoid Dist.	14180,617 m	M	12964,274 m
9Yj Uhcb	-57,720 m	<Y][\h	-57,720 m	N	360,414 m

Standard Errors

Vector errors:

9Ughb[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	0,004 m	M	0,004 m
9`Yj Uhc[0,017 m	<Y][\h	0,017 m	N	0,017 m

Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0,0000222947		
Y	-0,0000007134	0,0000148701	
Z	-0,0000007176	0,0000071966	0,0002964515

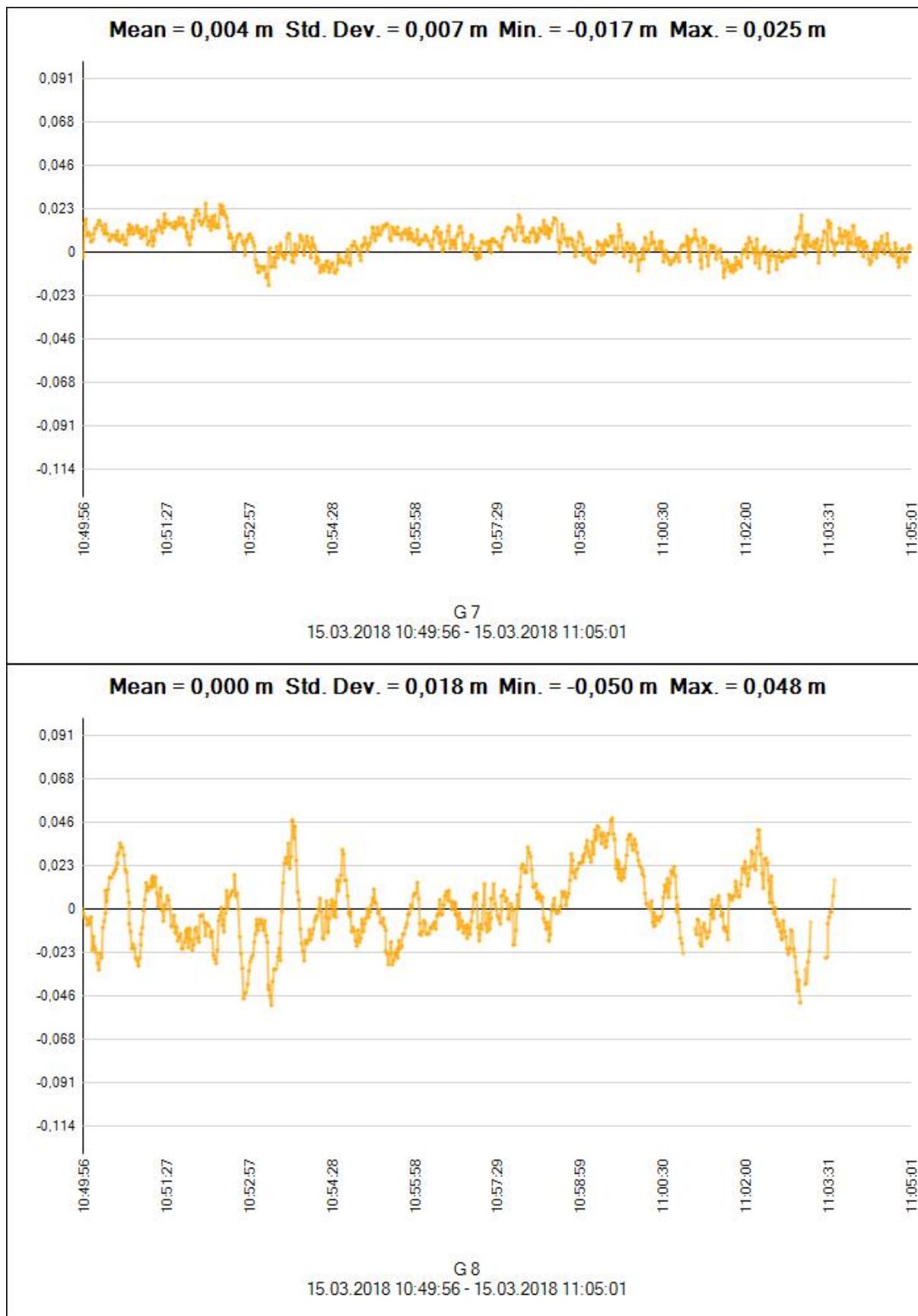
Occupations

	From	To
Point ID:	LYRS	BL2-2016
Data file:	C:\Users\lth842\Documents\Trimble Business Center\Unnamed\lyrs0740.18o	C:\Users\lth842\Documents\Trimble Business Center\Unnamed\46250748.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	2,180 m
Antenna method:	Bottom of antenna mount	Bottom of antenna mount

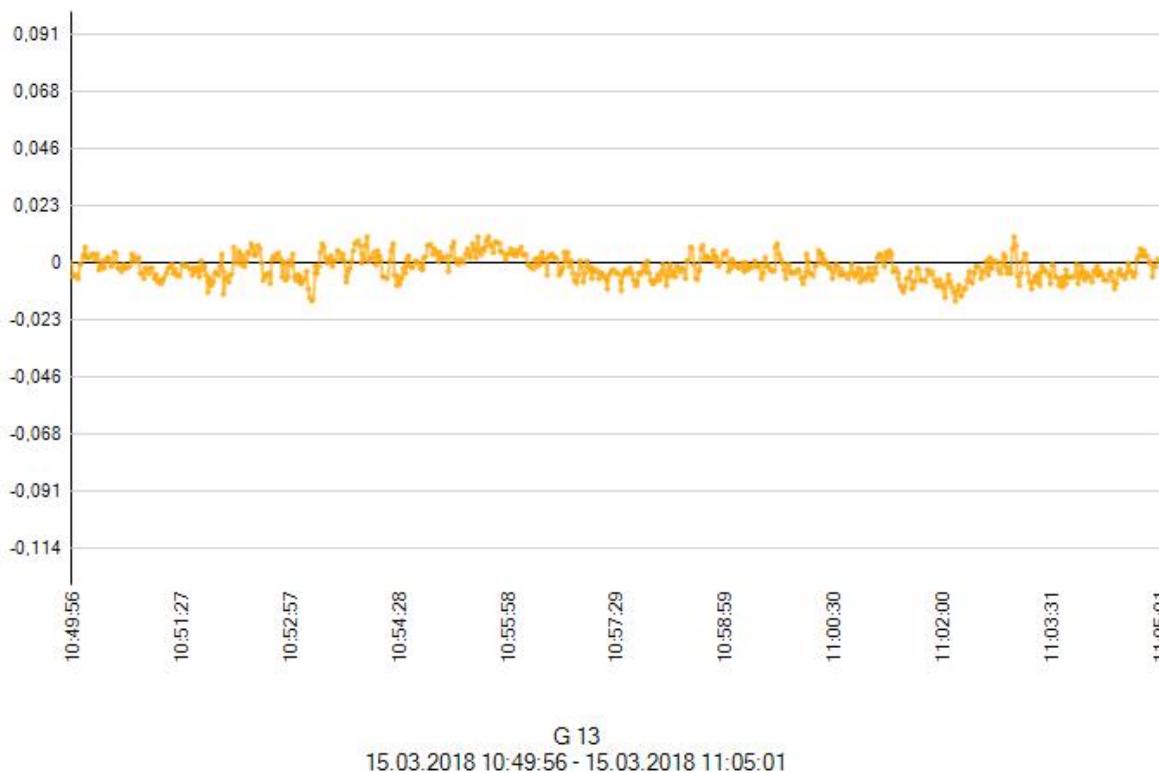
Tracking Summary

SV	15.03.2018 10:49:56	Duration: 00:15:05 Major interval: 00:01:00	15.03.2018 11:05:01
G 7	L1 L2		
G 8	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 6	L1 L2		
R 7	L1 L2		
R 8	L1 L2		
R 9	L1 L2		
R 15	L1 L2		
R 16	L1 L2		
R 17	L1 L2		
R 23	L1 L2		
R 24	L1 L2		

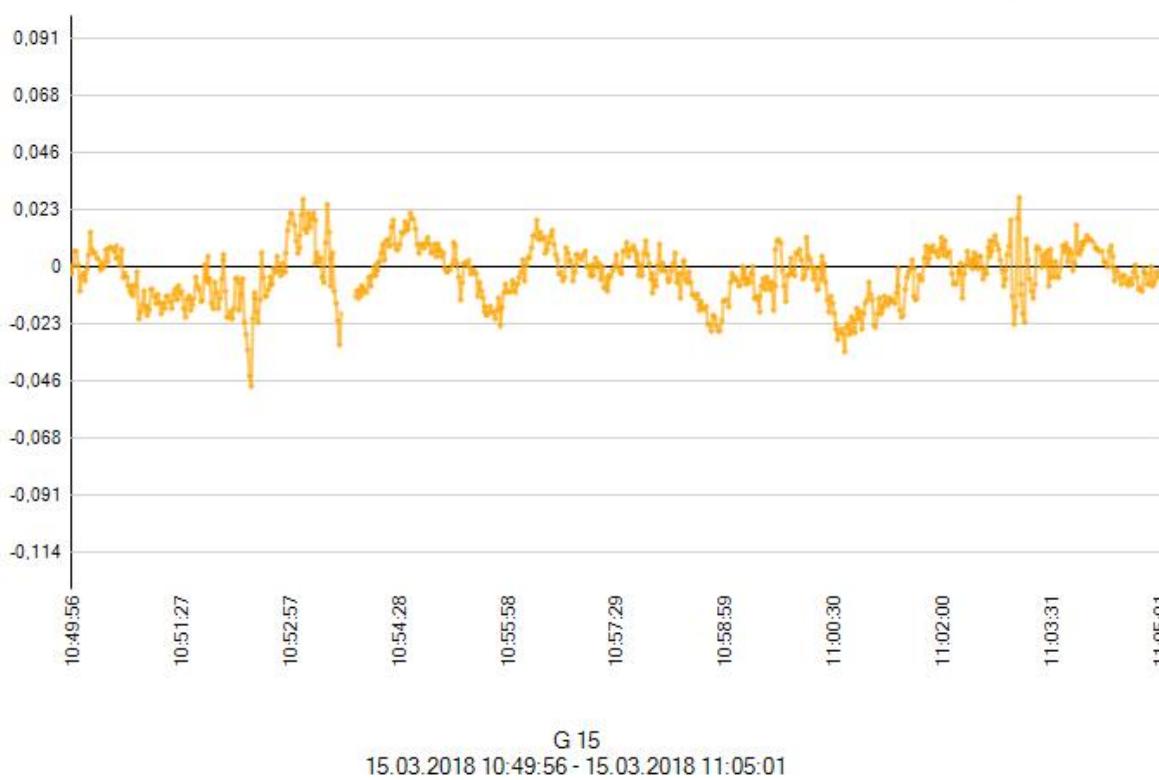
Residuals



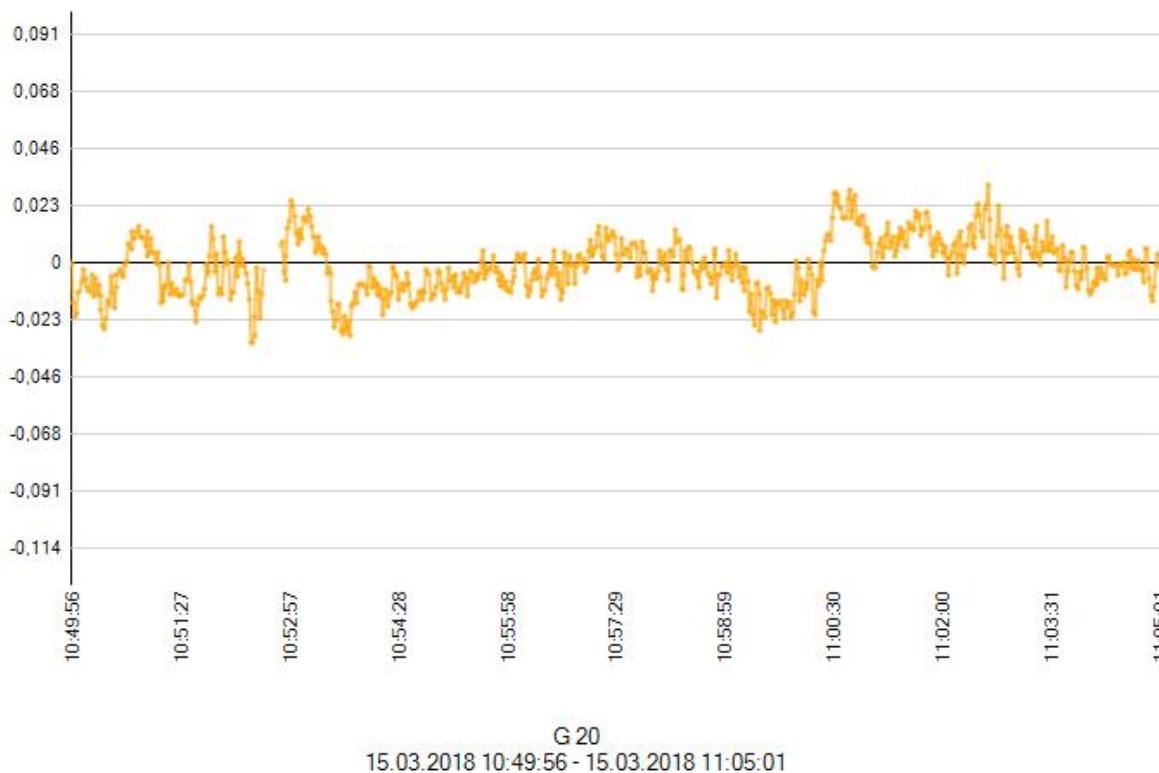
Mean = -0,002 m Std. Dev. = 0,004 m Min. = -0,015 m Max. = 0,011 m



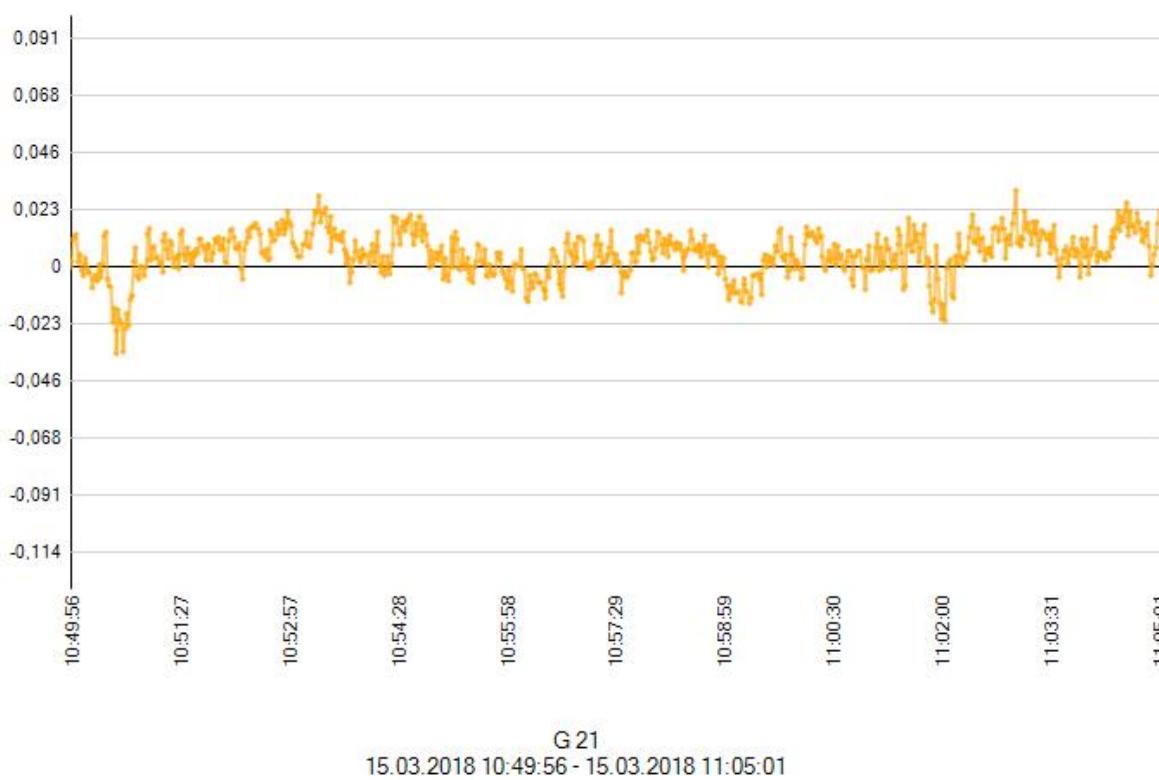
Mean = -0,003 m Std. Dev. = 0,010 m Min. = -0,047 m Max. = 0,028 m



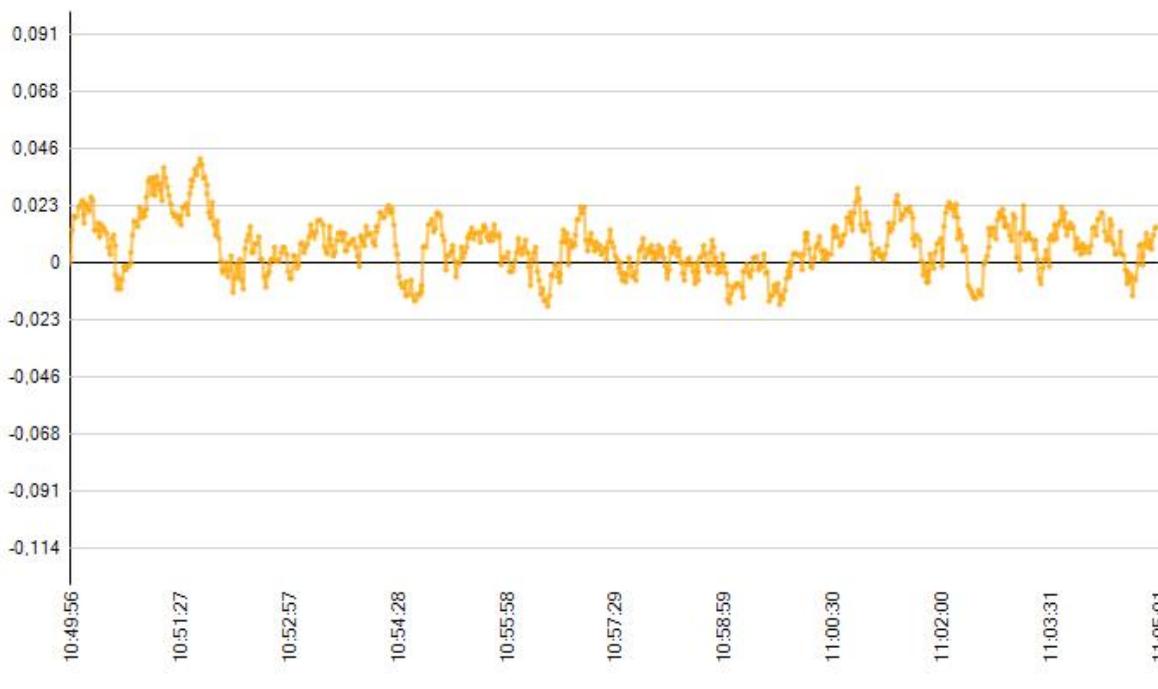
Mean = -0,001 m Std. Dev. = 0,011 m Min. = -0,032 m Max. = 0,031 m



Mean = 0,005 m Std. Dev. = 0,009 m Min. = -0,035 m Max. = 0,030 m



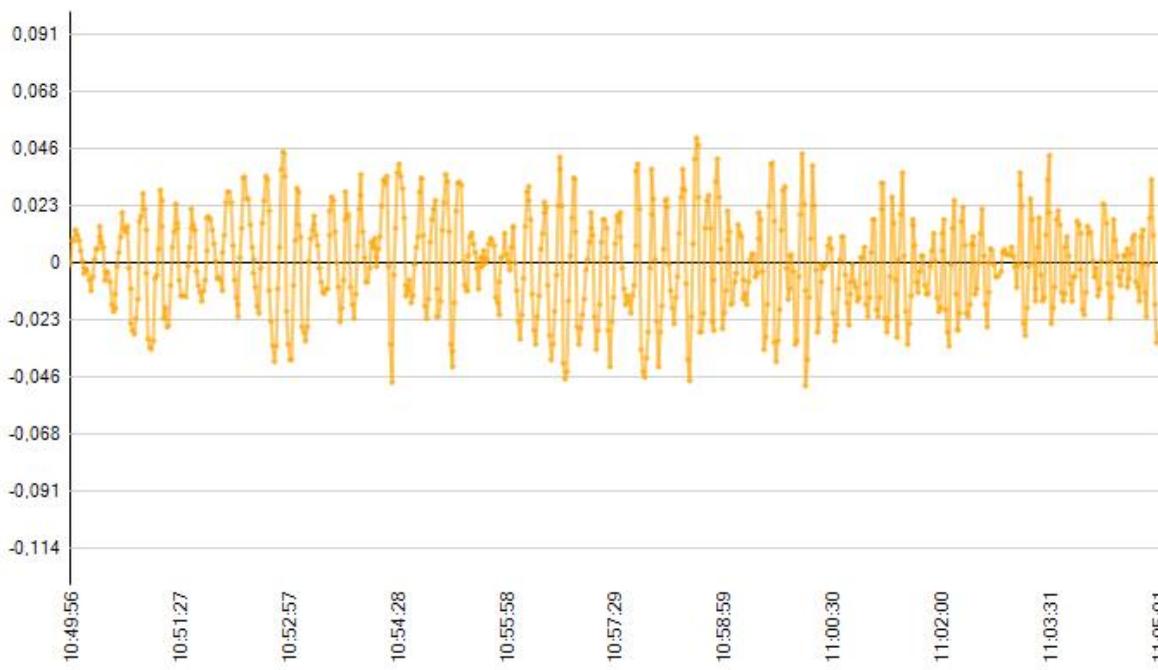
Mean = 0,007 m Std. Dev. = 0,010 m Min. = -0,017 m Max. = 0,041 m



G 27

15.03.2018 10:49:56 - 15.03.2018 11:05:01

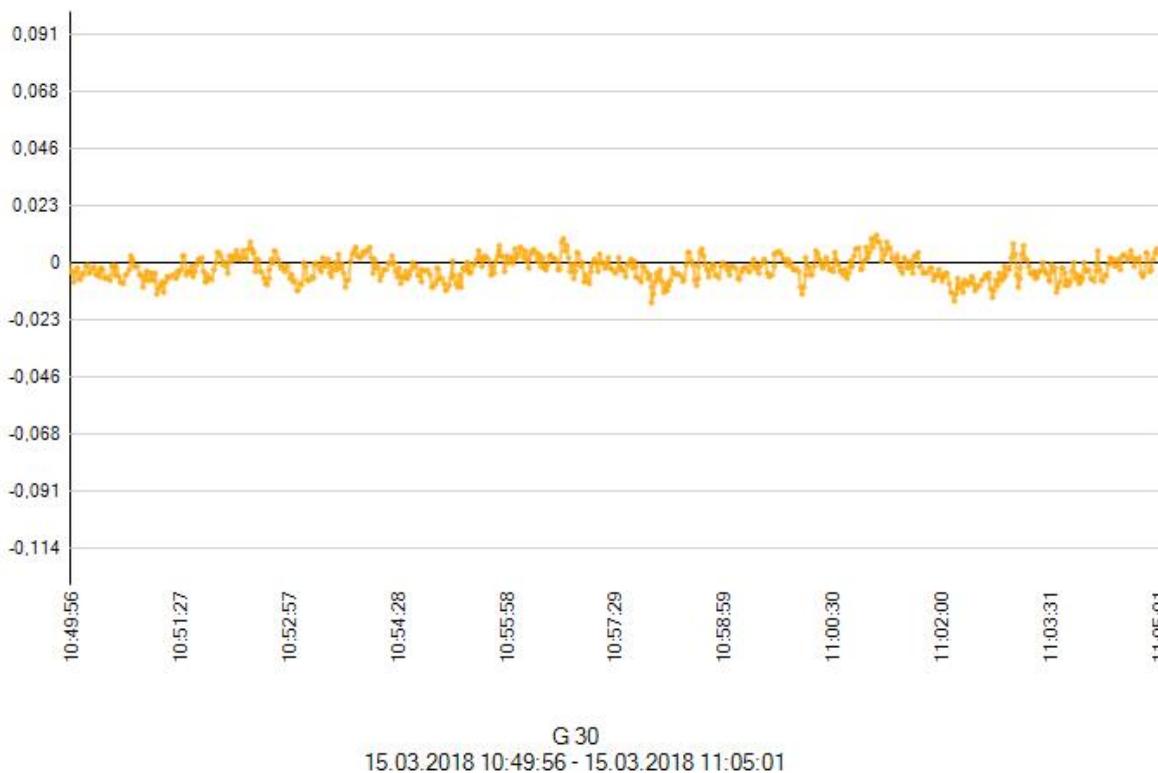
Mean = 0,000 m Std. Dev. = 0,019 m Min. = -0,049 m Max. = 0,050 m



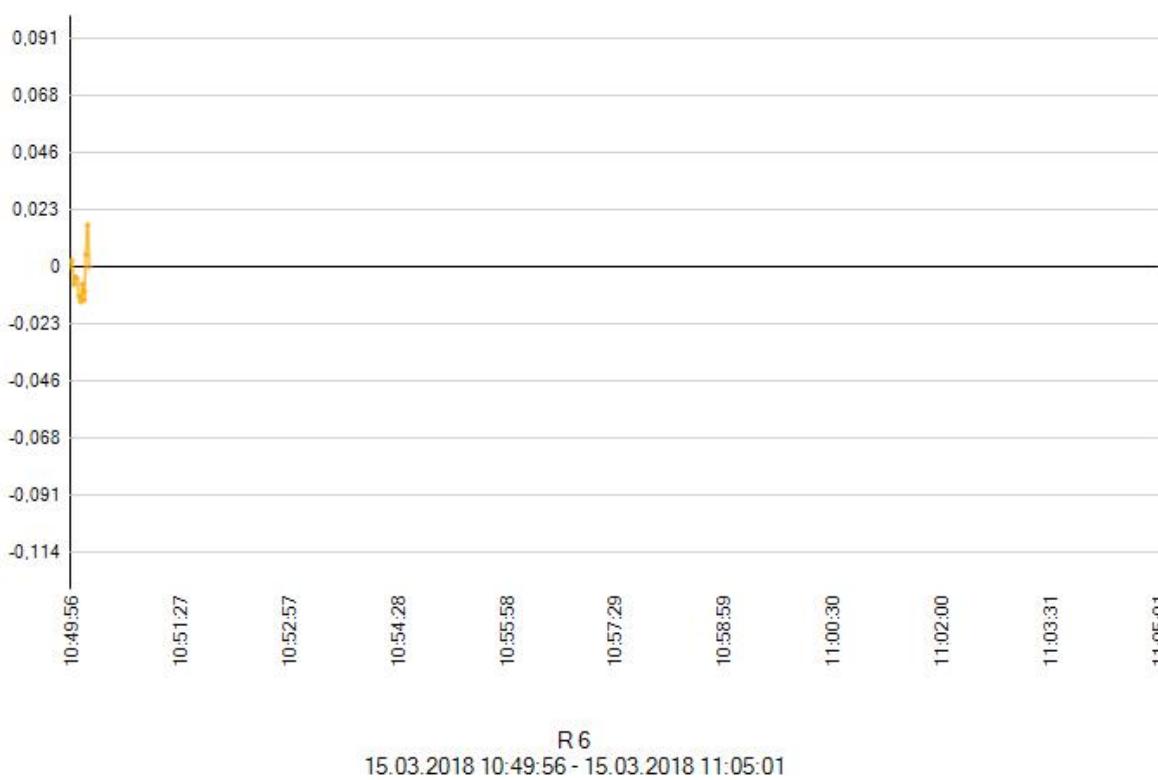
G 28

15.03.2018 10:49:56 - 15.03.2018 11:05:01

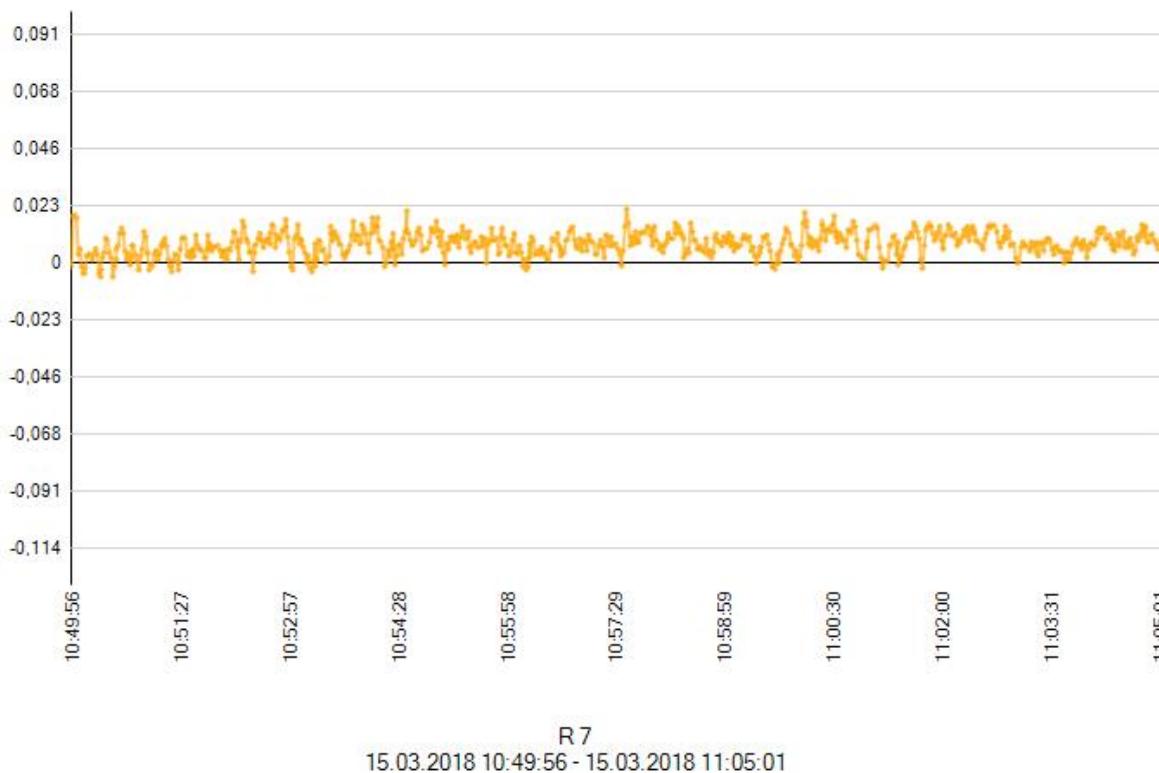
Mean = -0,002 m Std. Dev. = 0,004 m Min. = -0,016 m Max. = 0,011 m



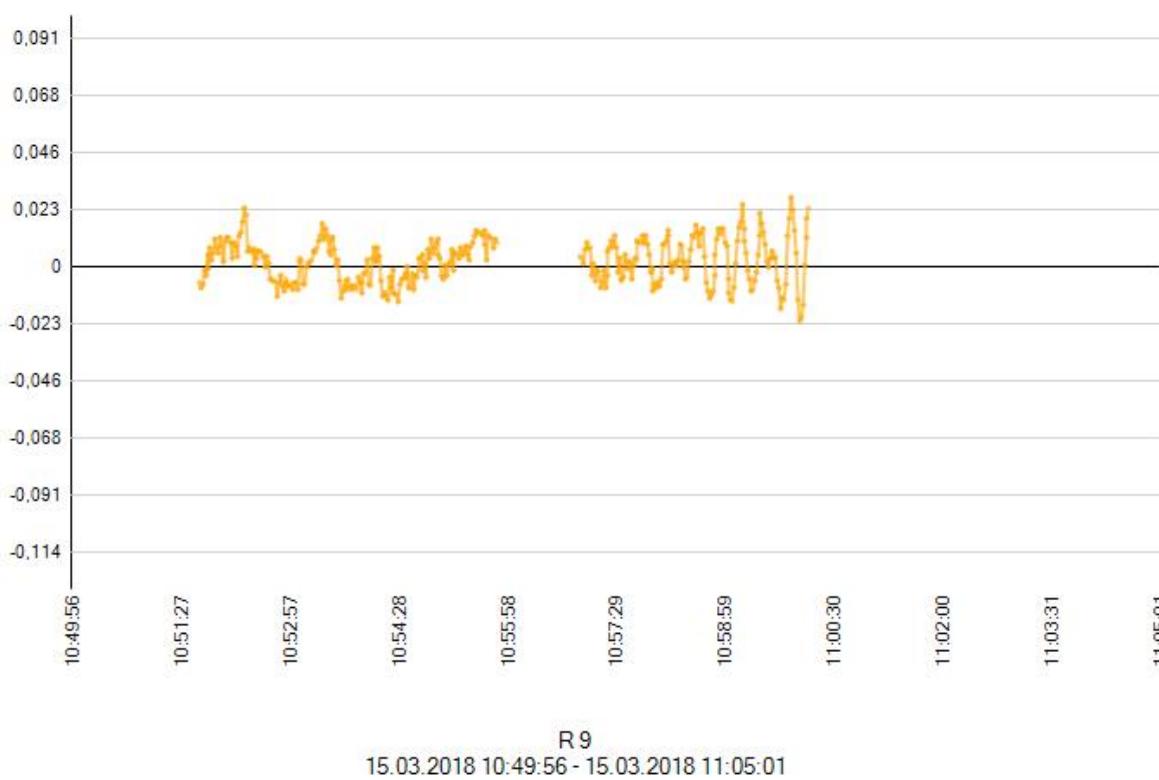
Mean = -0,003 m Std. Dev. = 0,008 m Min. = -0,014 m Max. = 0,017 m



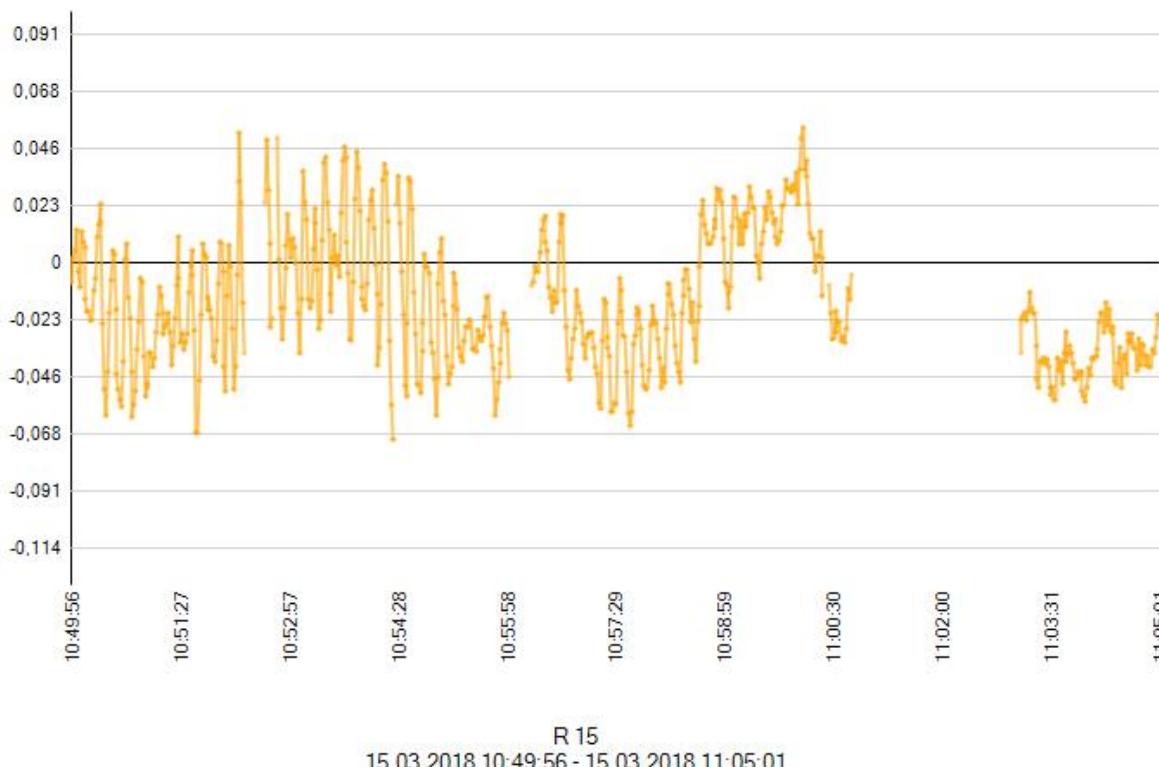
Mean = 0,007 m Std. Dev. = 0,005 m Min. = -0,006 m Max. = 0,021 m



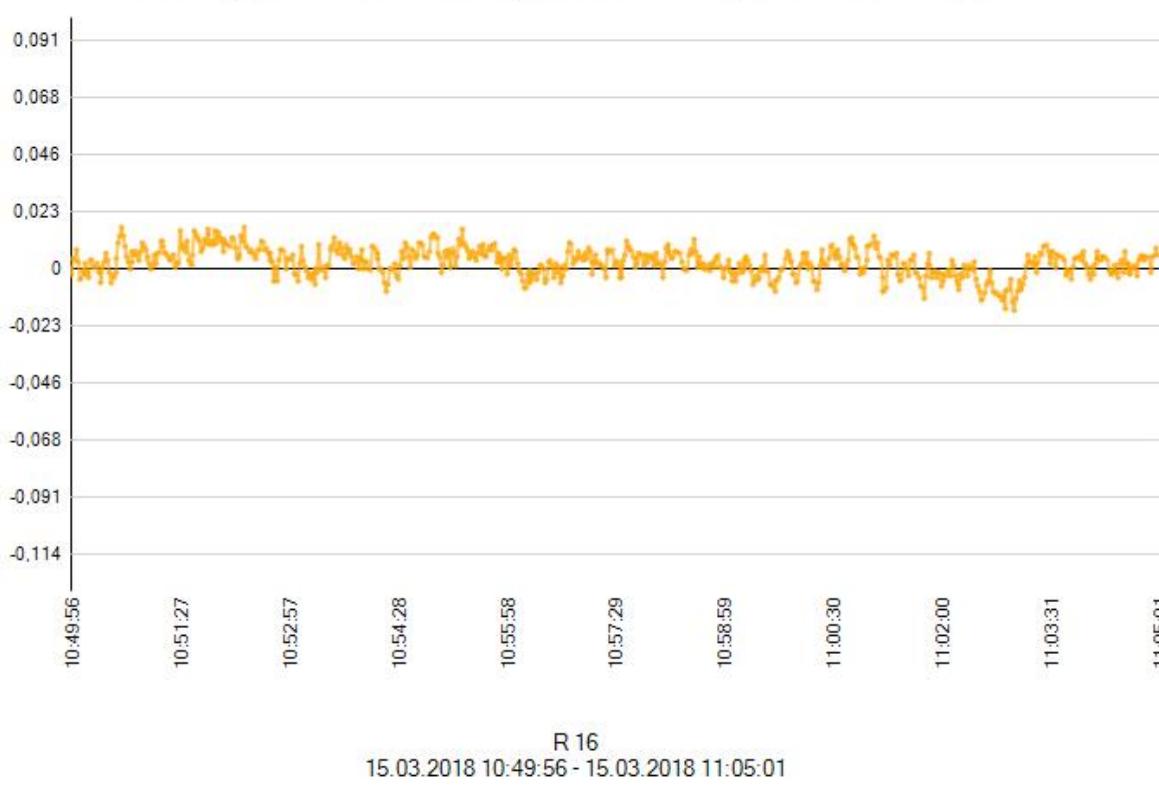
Mean = 0,002 m Std. Dev. = 0,008 m Min. = -0,021 m Max. = 0,027 m



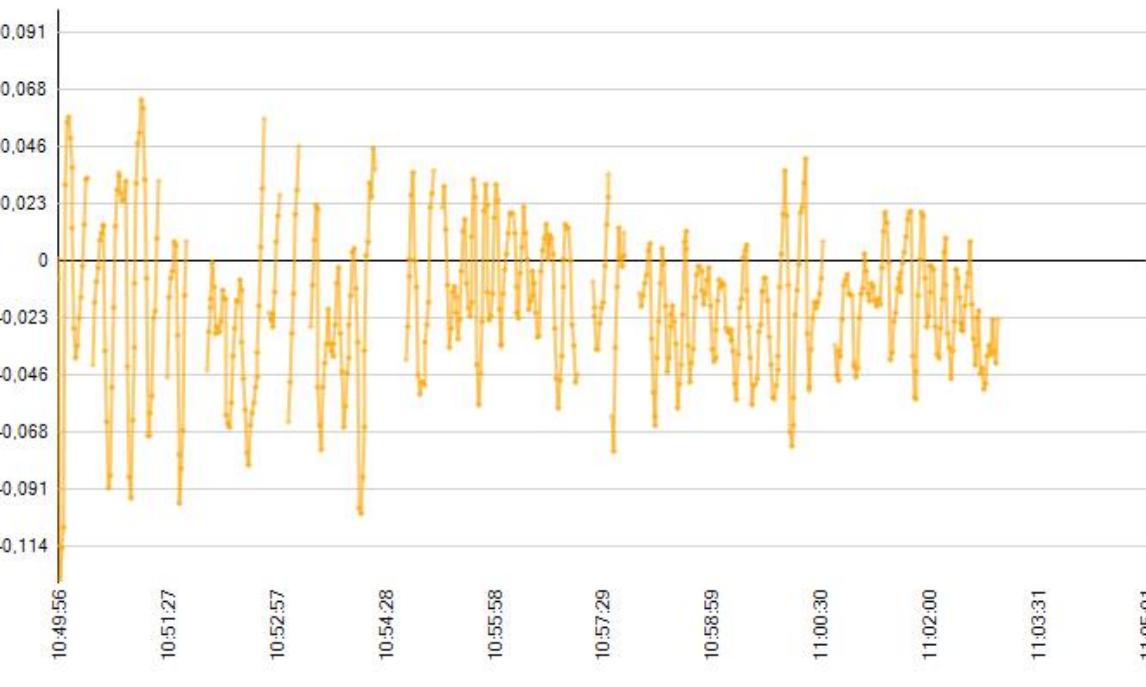
Mean = -0,015 m Std. Dev. = 0,025 m Min. = -0,070 m Max. = 0,054 m



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



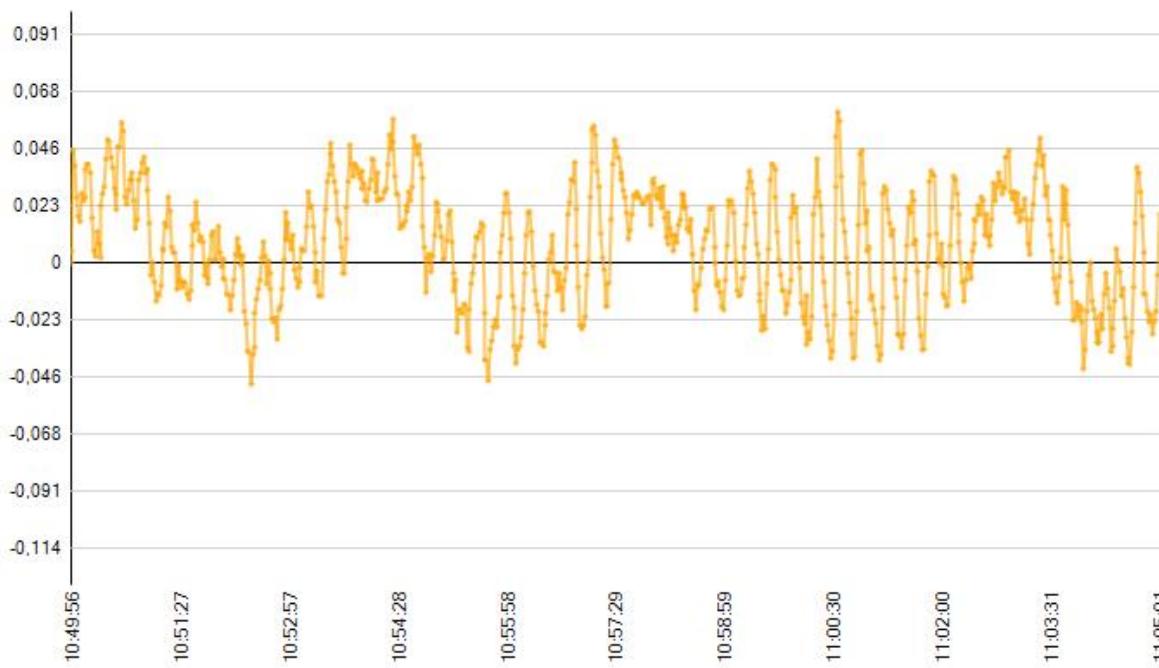
Mean = -0,017 m Std. Dev. = 0,028 m Min. = -0,128 m Max. = 0,064 m



R 17

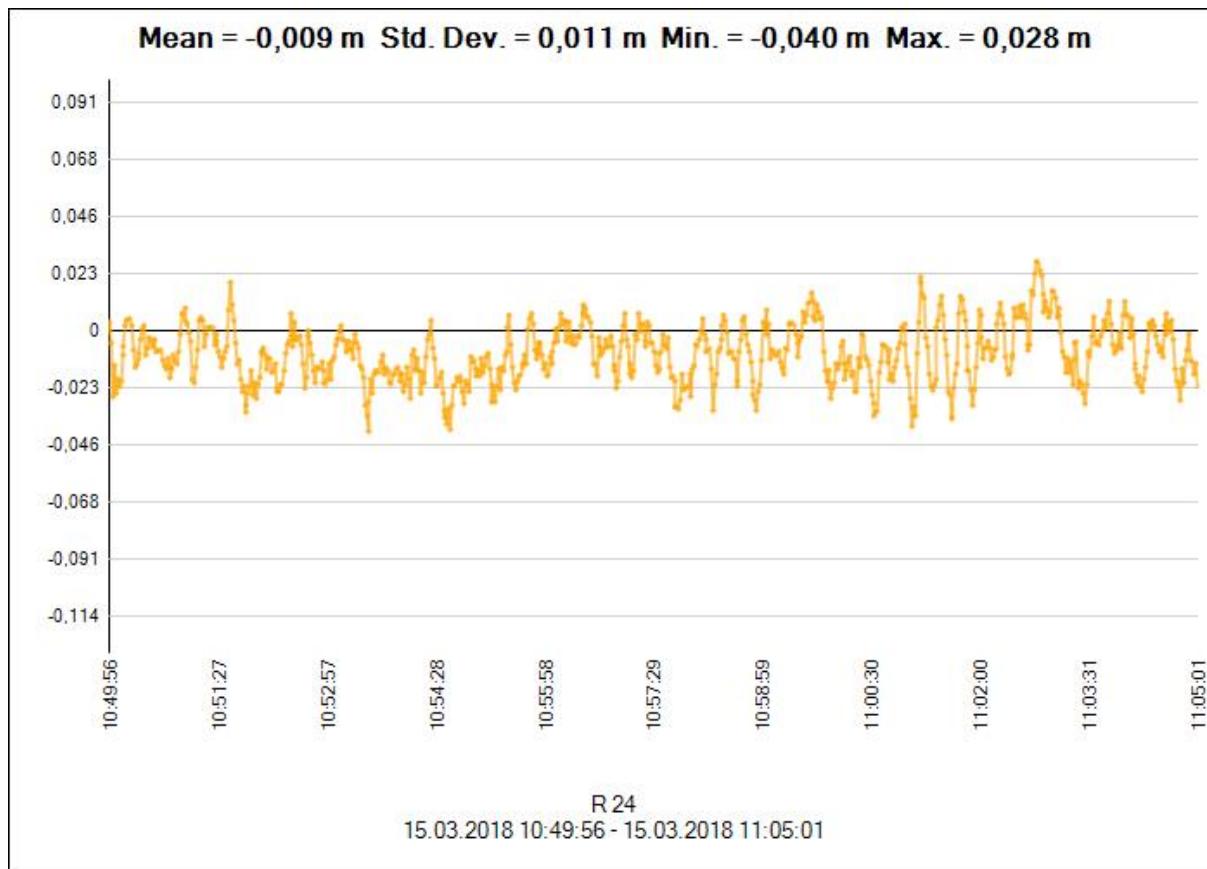
15.03.2018 10:49:56 - 15.03.2018 11:05:01

Mean = 0,007 m Std. Dev. = 0,022 m Min. = -0,048 m Max. = 0,060 m



R 23

15.03.2018 10:49:56 - 15.03.2018 11:05:01



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

LYRS - BL3-2018 (12:21:20-12:38:05) (S8)

Baseline observation:

 LYRS --- BL3-2018 (B8)

Processed:

23.03.2018 15:35:16

Solution type:

Fixed

Frequency used:

Dual Frequency (L1, L2)

Horizontal precision:

0,116 m

Vertical precision:

0,285 m

RMS:

0,001 m

Maximum PDOP:

4,273

Ephemeris used:

Broadcast

Antenna model:

Trimble Calibration

Processing start time:

15.03.2018 12:21:20 (Local: UTC+1hr)

Processing stop time:

15.03.2018 12:38:05 (Local: UTC+1hr)

Processing duration:

12:16:45 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:	BL3-2018				
Grid		Local		Global	
Easting	523545,371 m	Latitude	N78°14'47,51169"	Latitude	N78°14'47,51169"
Northing	8686091,126 m	Longitude	E16°02'07,70216"	Longitude	E16°02'07,70216"
Elevation	491,148 m	Height	491,148 m	Height	491,148 m

Vector					
9Ughjb[14497,233 m	NS Fwd Azimuth	81°56'22"	L	-5799,560 m
Bcfh]b[2153,558 m	Ellipsoid Dist.	14662,129 m	M	13461,700 m
9Yj Uhcb	-4,533 m	<Y]\lh	-4,533 m	N	398,559 m

Standard Errors

Vector errors:

9Ughb[0,037 m	'BG 'ZK X'5n]a i h	0°00'01"	L	0,028 m
Bcfh]b[0,040 m	'9``]dgc]X 8]gh	0,040 m	M	0,036 m
9`Yj Uhcb	0,145 m	<Y][\h	0,145 m	N	0,148 m

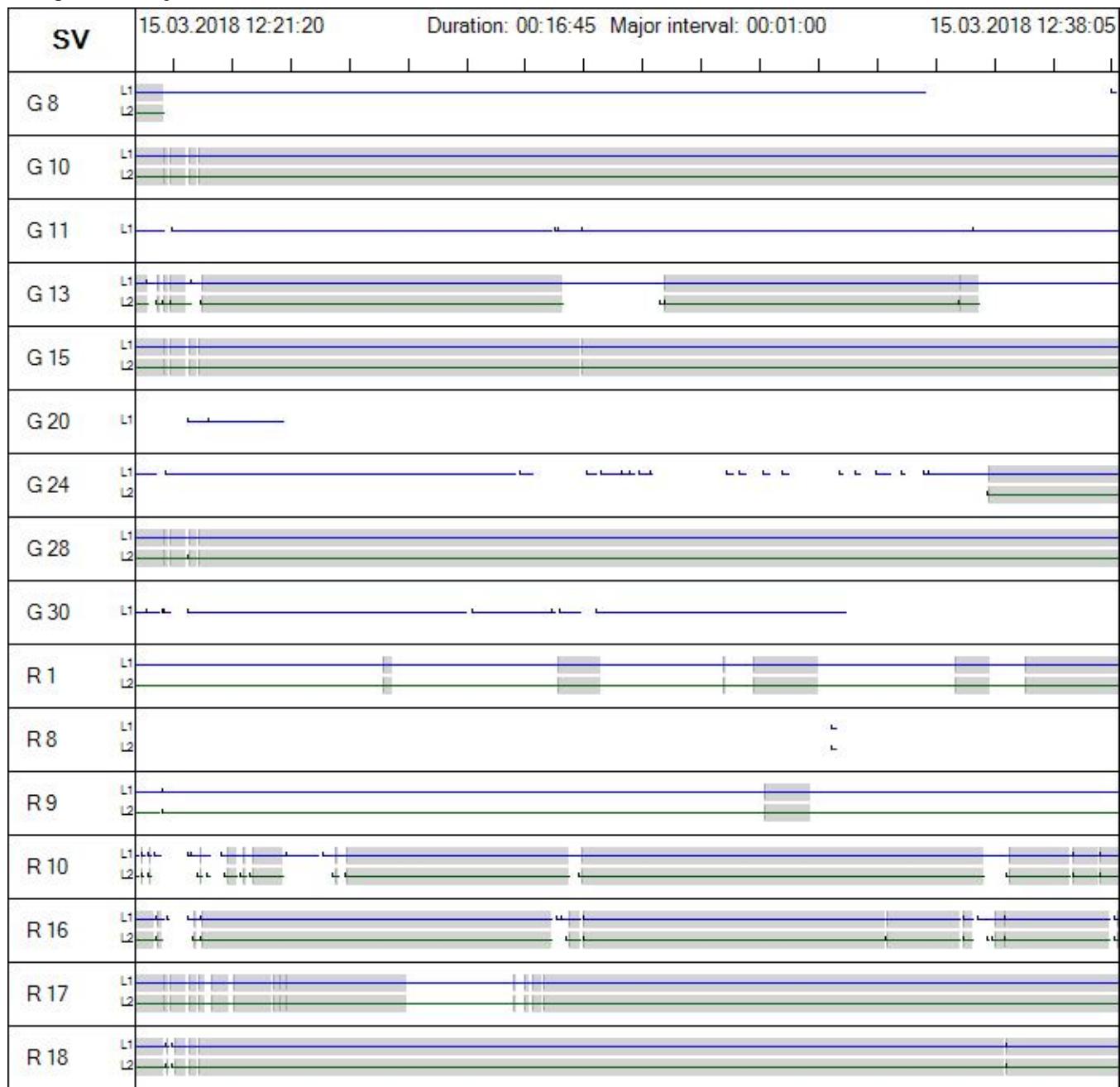
Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0,0007932941		
Y	-0,0001271993	0,0013177152	
Z	-0,0008695622	0,0038293013	0,0219494086

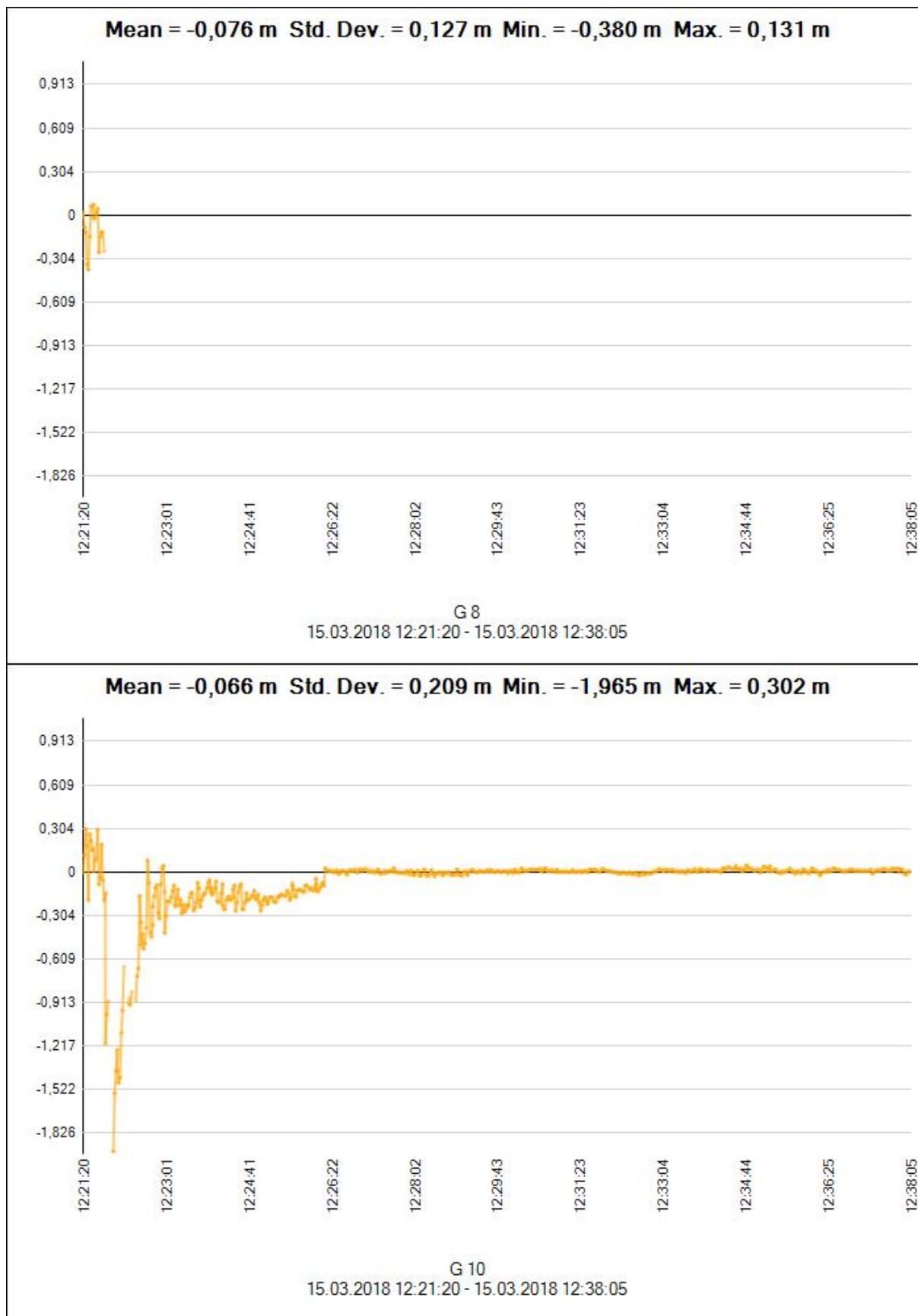
Occupations

	From	To
Point ID:	LYRS	BL3-2018
Data file:	C:\Users\lth842\Documents\Trimble Business Center\Unnamed\lyrs0740.18o	C:\Users\lth842\Documents\Trimble Business Center\Unnamed\4625074B.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	0,600 m
Antenna method:	Bottom of antenna mount	Bottom of antenna mount

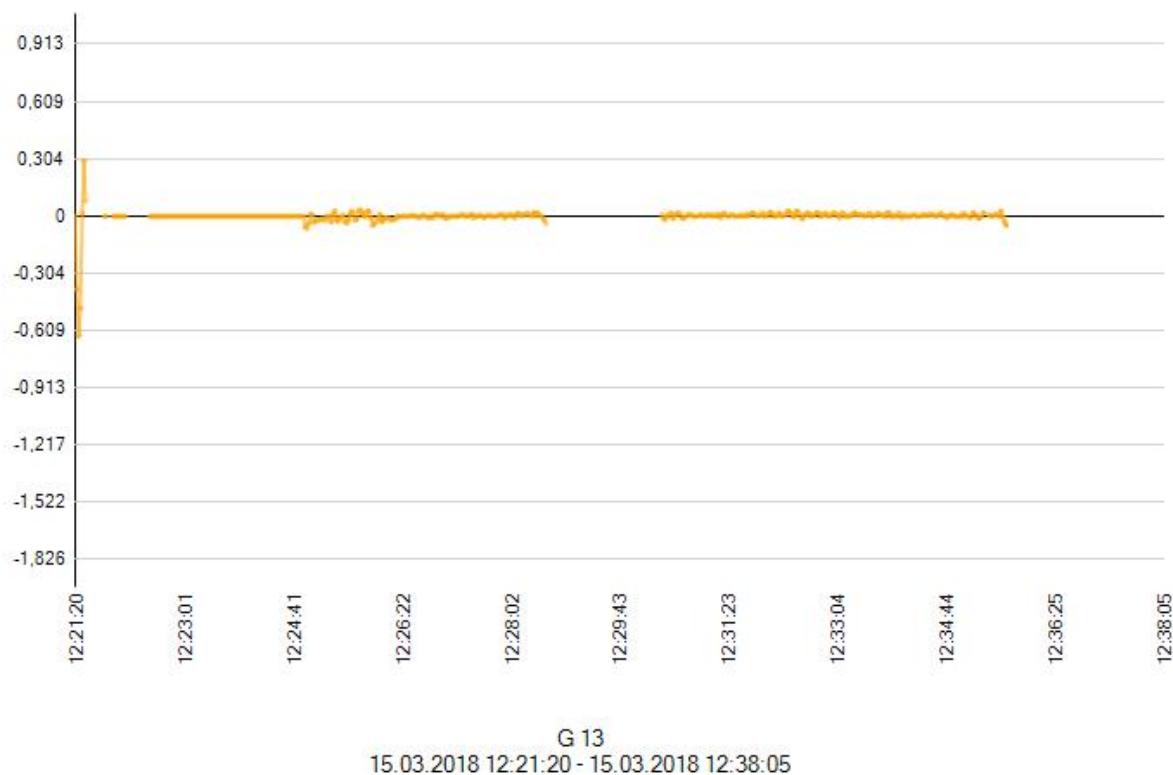
Tracking Summary



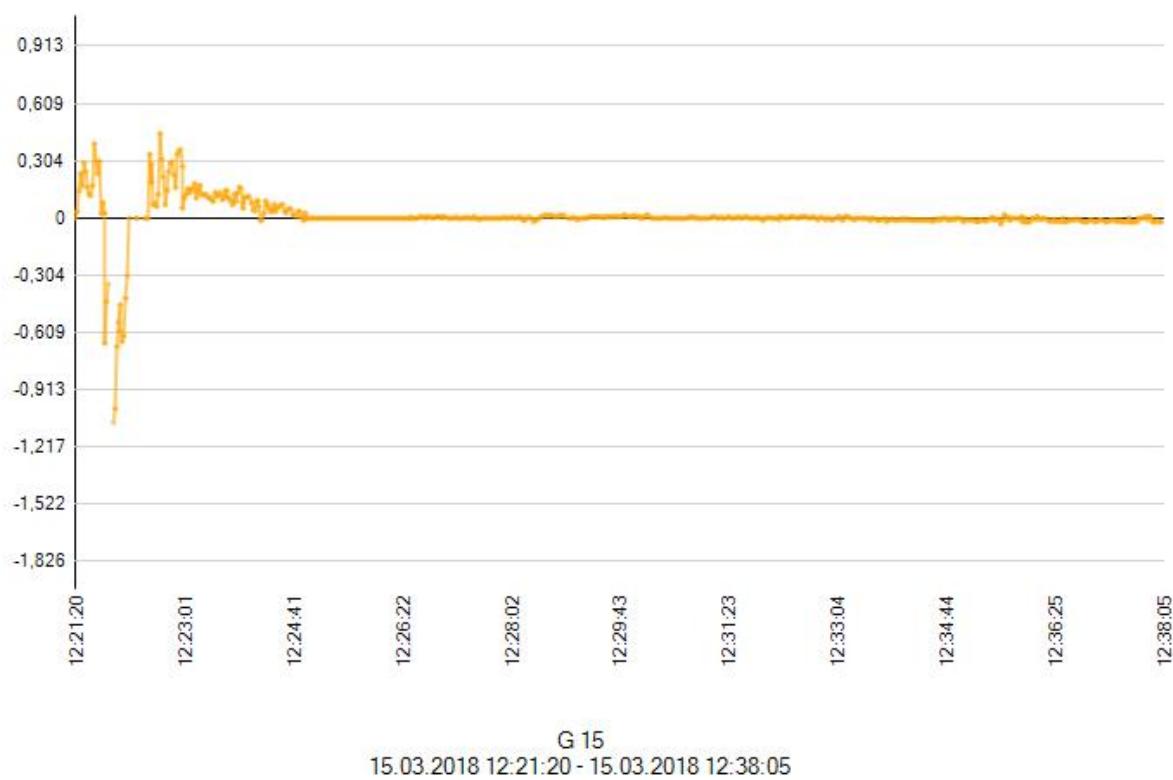
Residuals



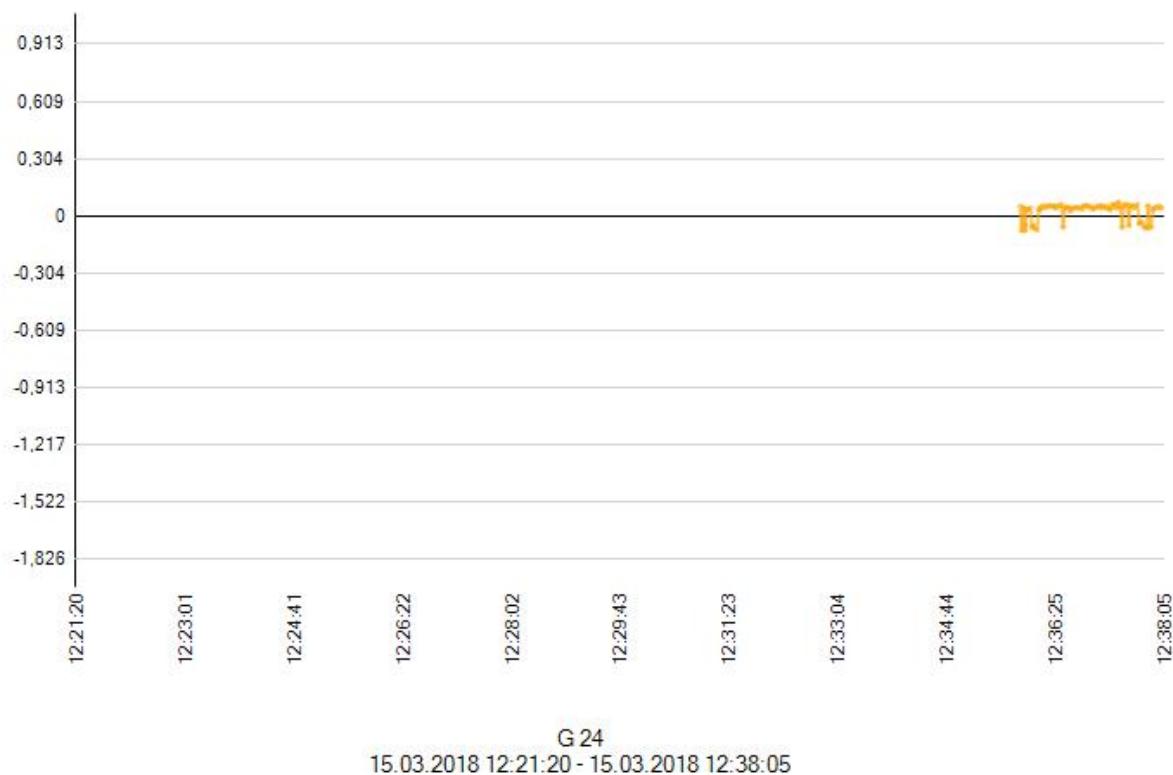
Mean = -0,002 m Std. Dev. = 0,038 m Min. = -0,634 m Max. = 0,291 m



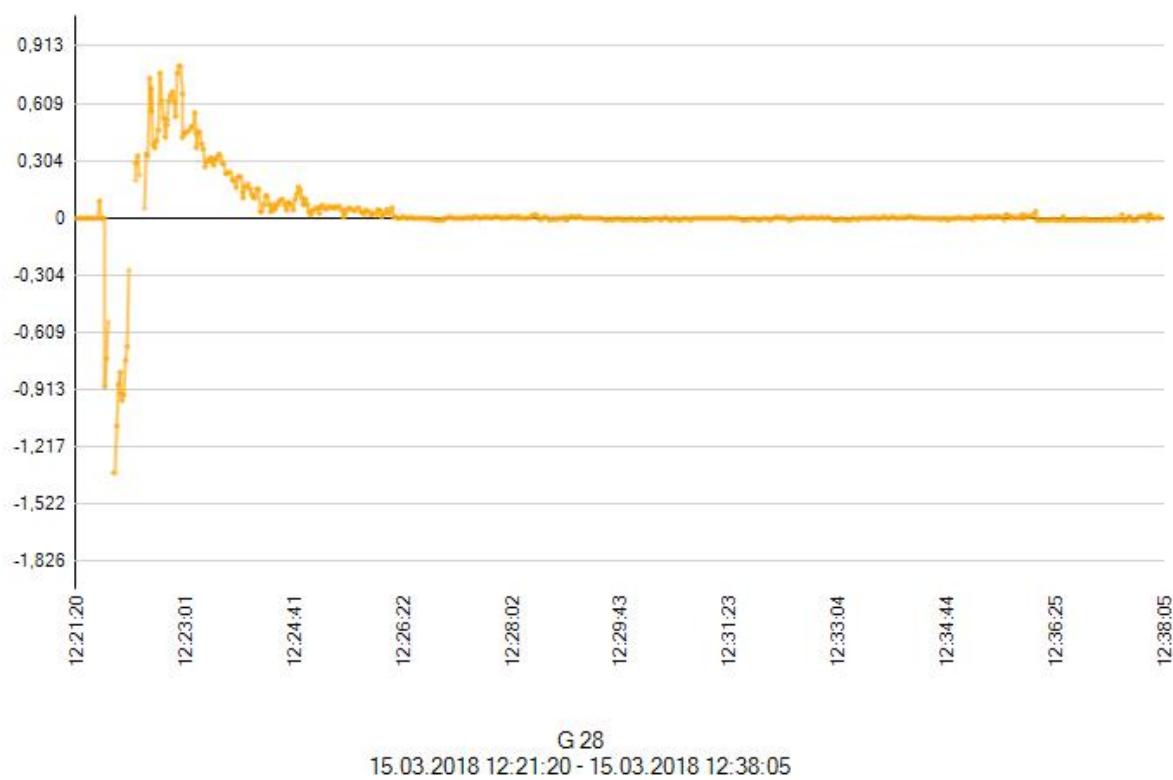
Mean = 0,009 m Std. Dev. = 0,102 m Min. = -1,083 m Max. = 0,446 m



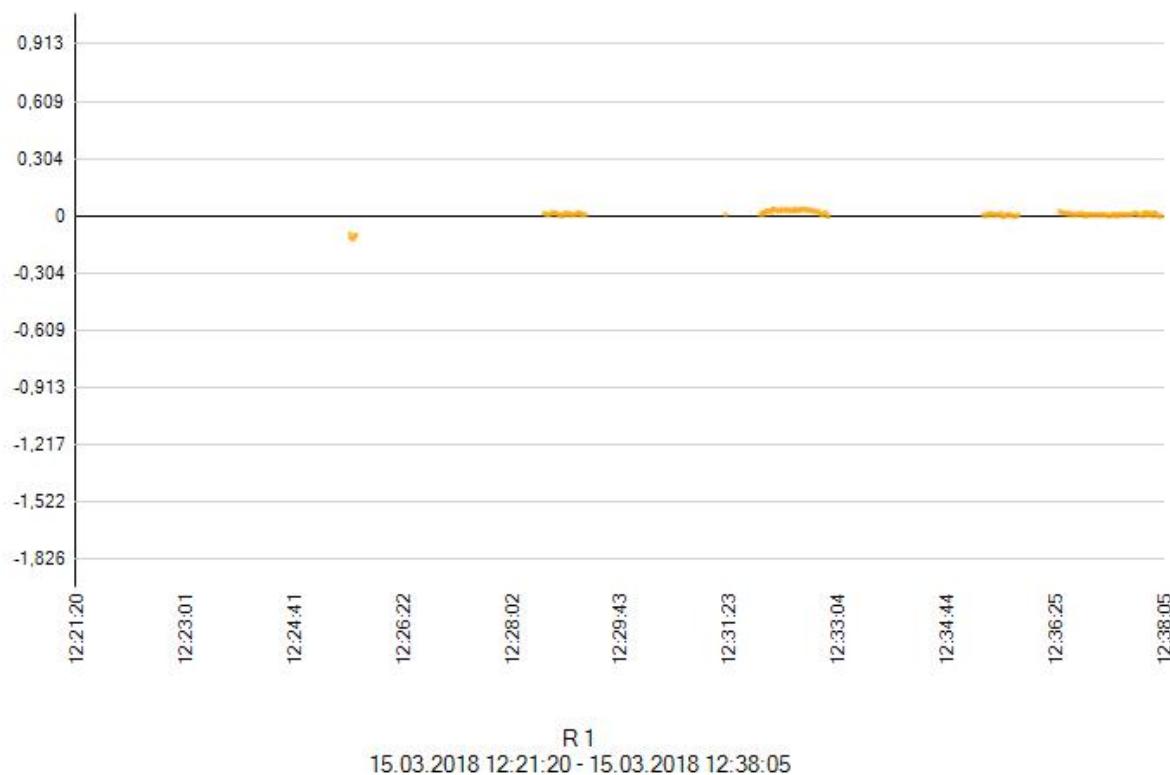
Mean = 0,026 m Std. Dev. = 0,042 m Min. = -0,080 m Max. = 0,075 m



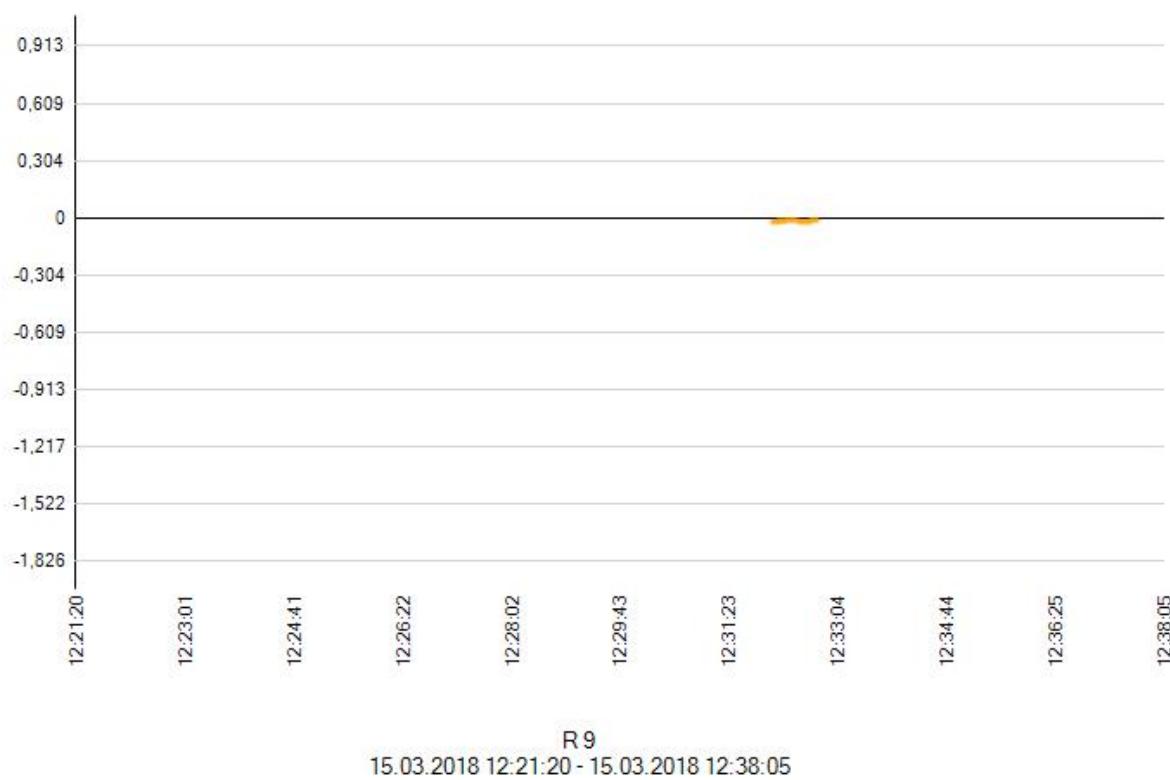
Mean = 0,031 m Std. Dev. = 0,183 m Min. = -1,358 m Max. = 0,808 m



Mean = 0,008 m Std. Dev. = 0,022 m Min. = -0,122 m Max. = 0,038 m



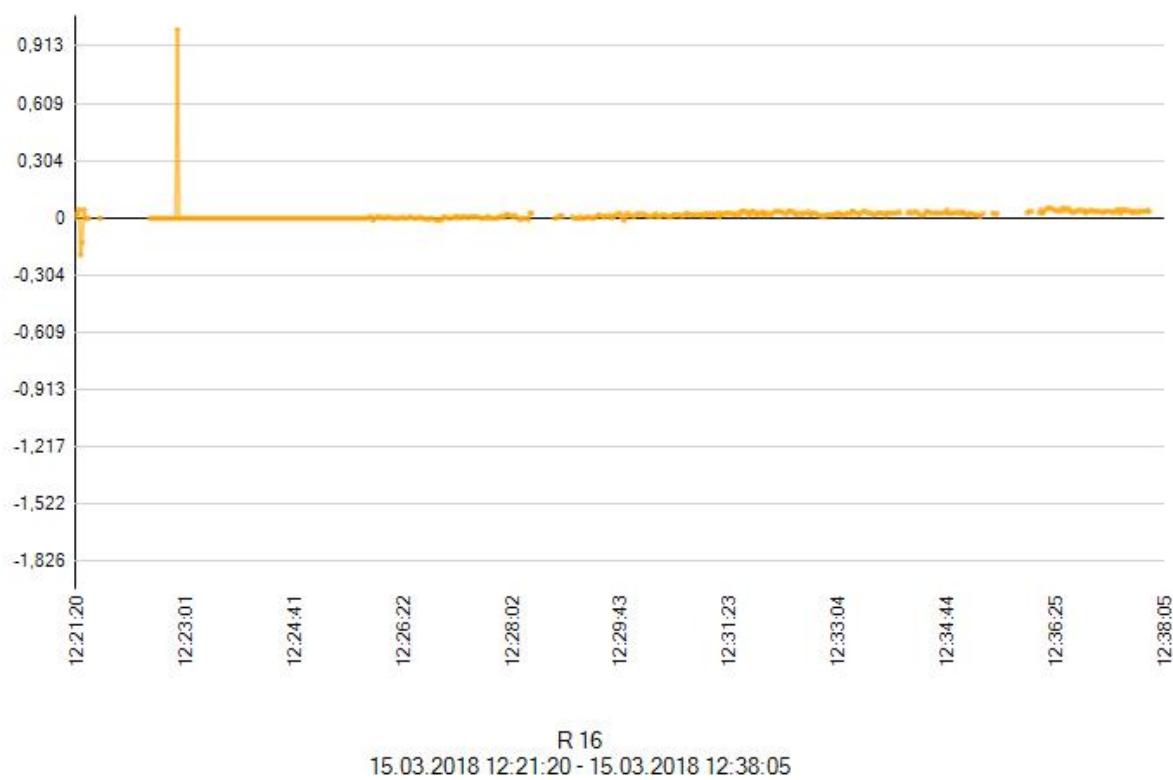
Mean = -0,014 m Std. Dev. = 0,004 m Min. = -0,021 m Max. = -0,005 m



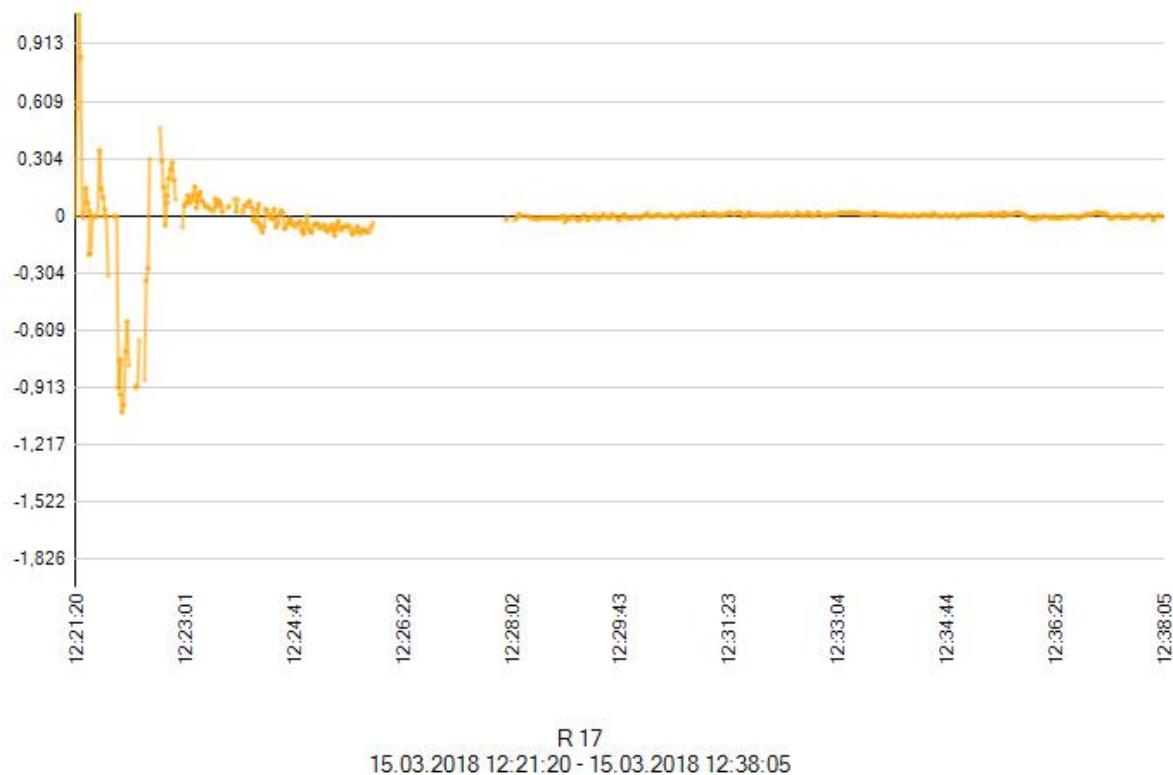
Mean = -0,034 m Std. Dev. = 0,119 m Min. = -1,054 m Max. = 0,291 m



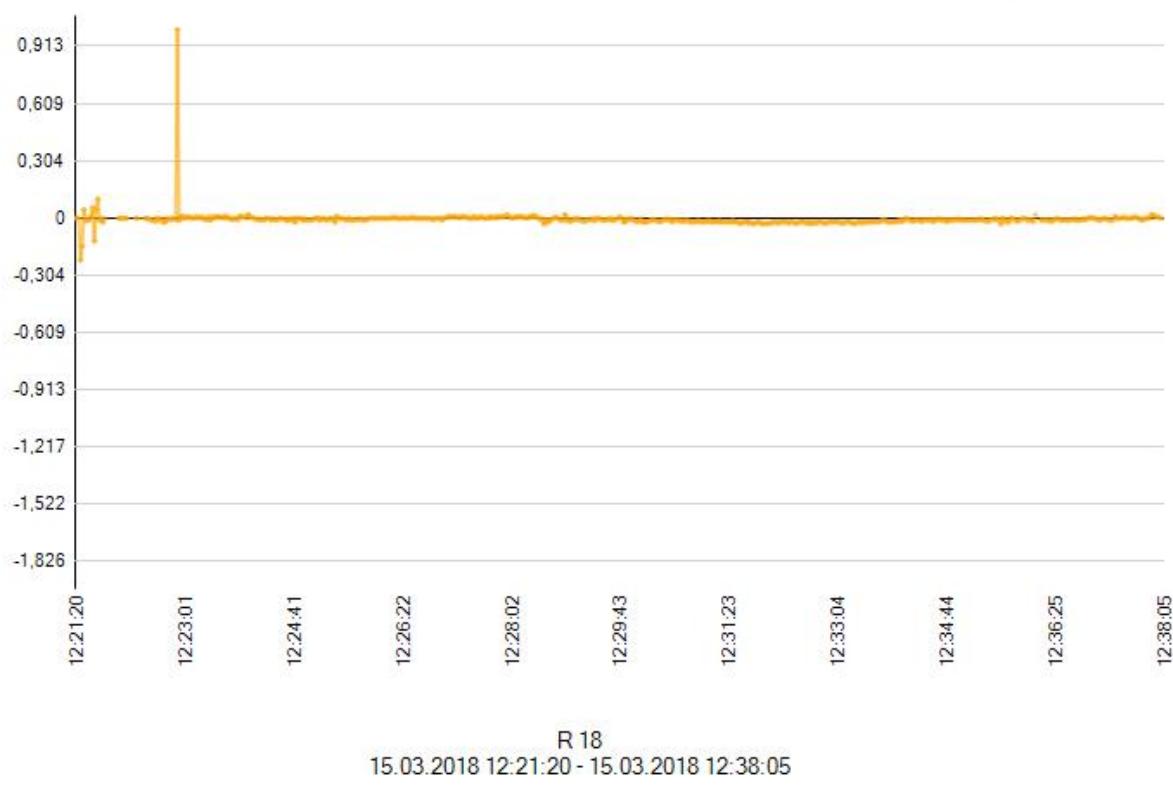
Mean = 0,014 m Std. Dev. = 0,037 m Min. = -0,199 m Max. = 1,001 m



Mean = -0,012 m Std. Dev. = 0,141 m Min. = -1,038 m Max. = 1,078 m



Mean = -0,007 m Std. Dev. = 0,035 m Min. = -0,223 m Max. = 0,996 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 - BL3-2015 (11:48:04-12:03:14) (S6)

Baseline observation: LYRS --- BL3-2015 (B6)
 Processed: 23.03.2018 15:35:25
 Solution type: Fixed
 Frequency used: Dual Frequency (L1, L2)
 Horizontal precision: 0,010 m
 Vertical precision: 0,024 m
 RMS: 0,002 m
 Maximum PDOP: 1,771
 Ephemeris used: Broadcast
 Antenna model: Trimble Calibration
 Processing start time: 15.03.2018 11:48:04 (Local: UTC+1hr)
 Processing stop time: 15.03.2018 12:03:14 (Local: UTC+1hr)
 Processing duration: 12:15:10 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:	BL3-2015				
Grid		Local		Global	
Easting	523544,027 m	Latitude	N78°14'47,52934"	Latitude	N78°14'47,52934"
Northing	8686091,650 m	Longitude	E16°02'07,49081"	Longitude	E16°02'07,49081"
Elevation	492,145 m	Height	492,145 m	Height	492,145 m

Vector					
9Ughjb[14495,888 m	NS Fwd Azimuth	81°56'12"	L	-5799,511 m
Bcfh]b[2154,082 m	Ellipsoid Dist.	14660,876 m	M	13460,325 m
9Yj Uhcb	-3,536 m	<Y][\h	-3,536 m	N	399,646 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	0,004 m
9`Yj Uhc[0,012 m	<Y][\h	0,012 m	N	0,012 m

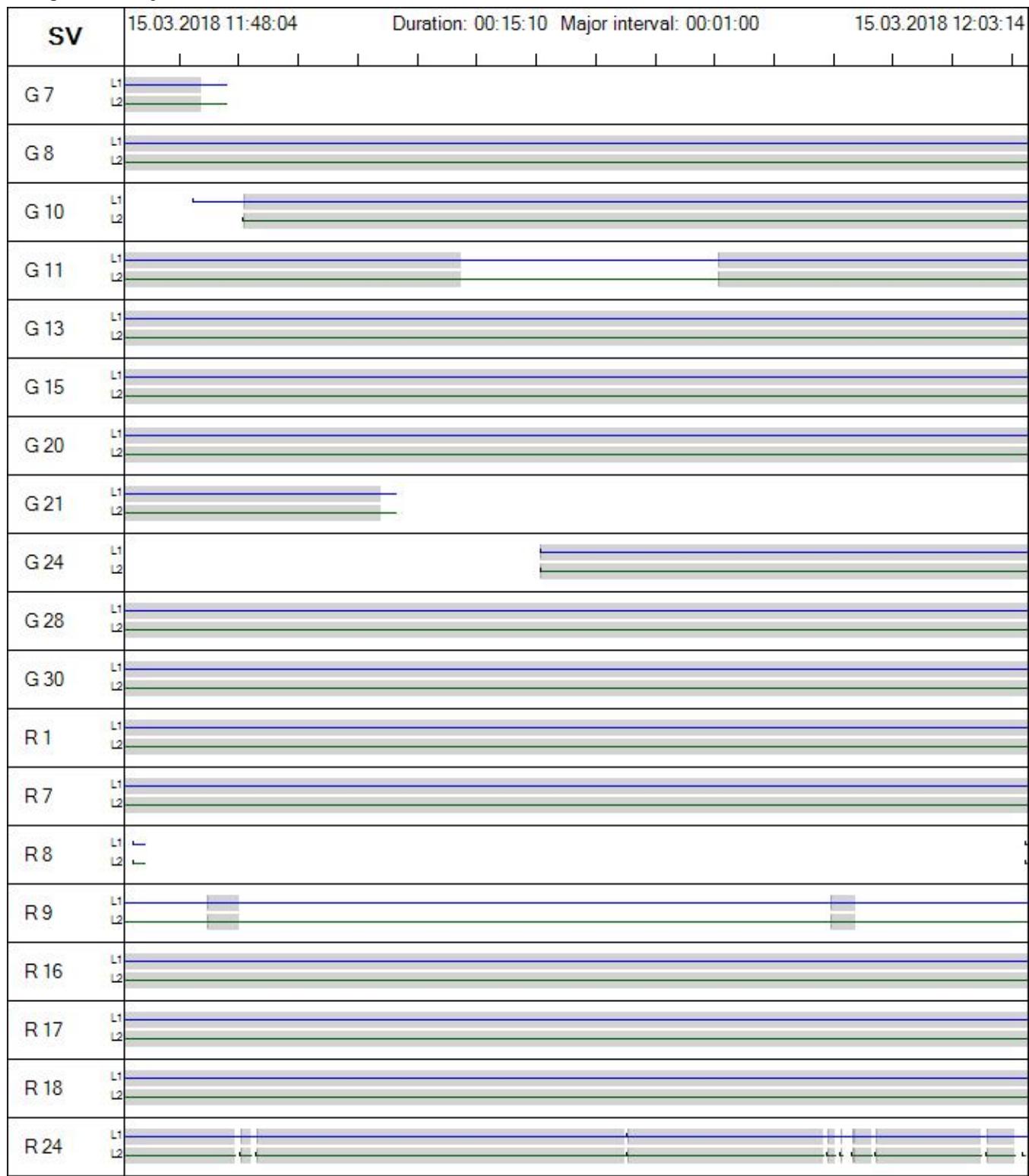
Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0,0000116453		
Y	0,0000019823	0,0000128106	
Z	0,0000064891	-0,0000041724	0,0001536631

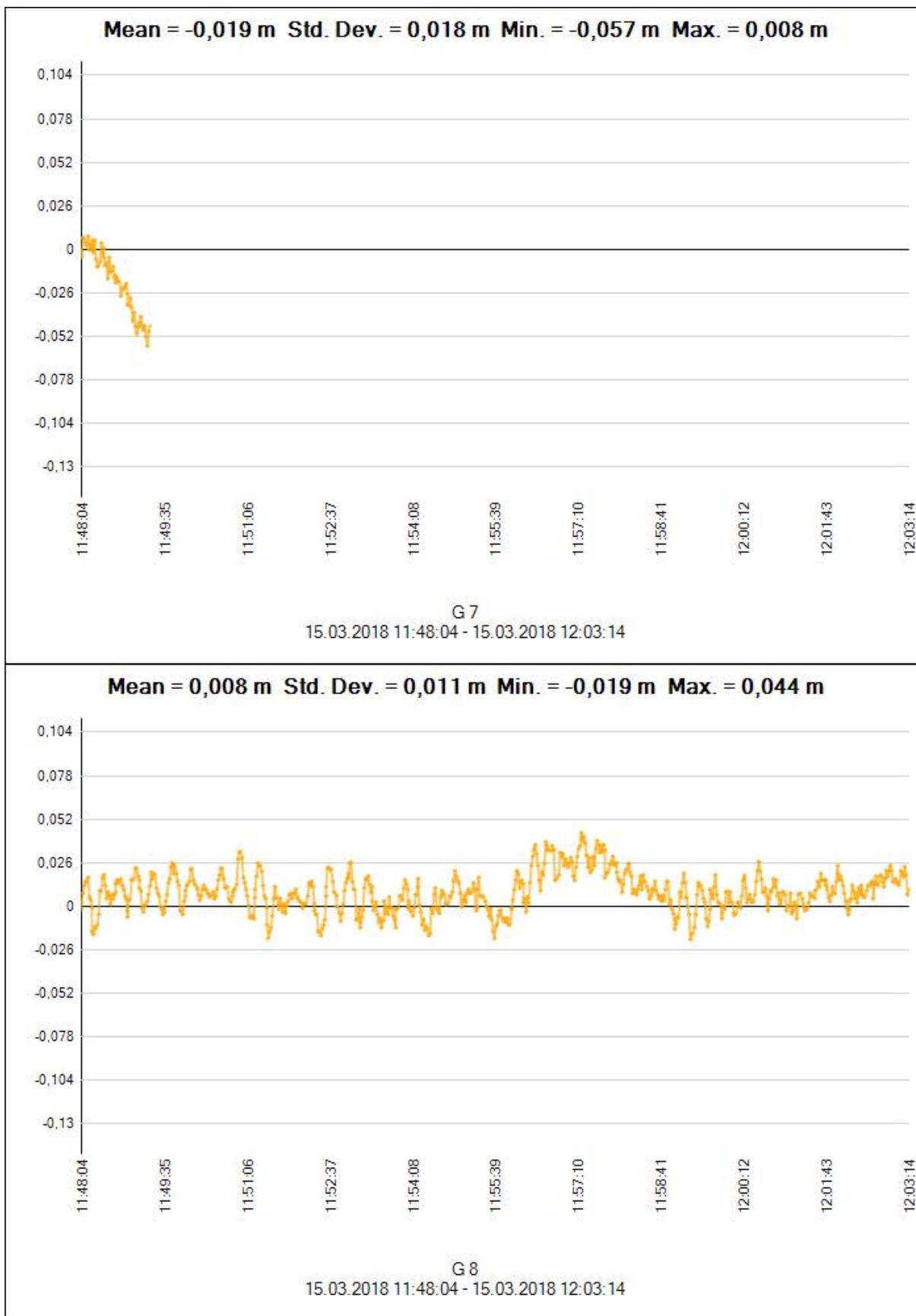
Occupations

	From	To
Point ID:	LYRS	BL3-2015
Data file:	C:\Users\lth842\Documents\Trimble Business Center\Unnamed\lyrs0740.18o	C:\Users\lth842\Documents\Trimble Business Center\Unnamed\4625074A.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

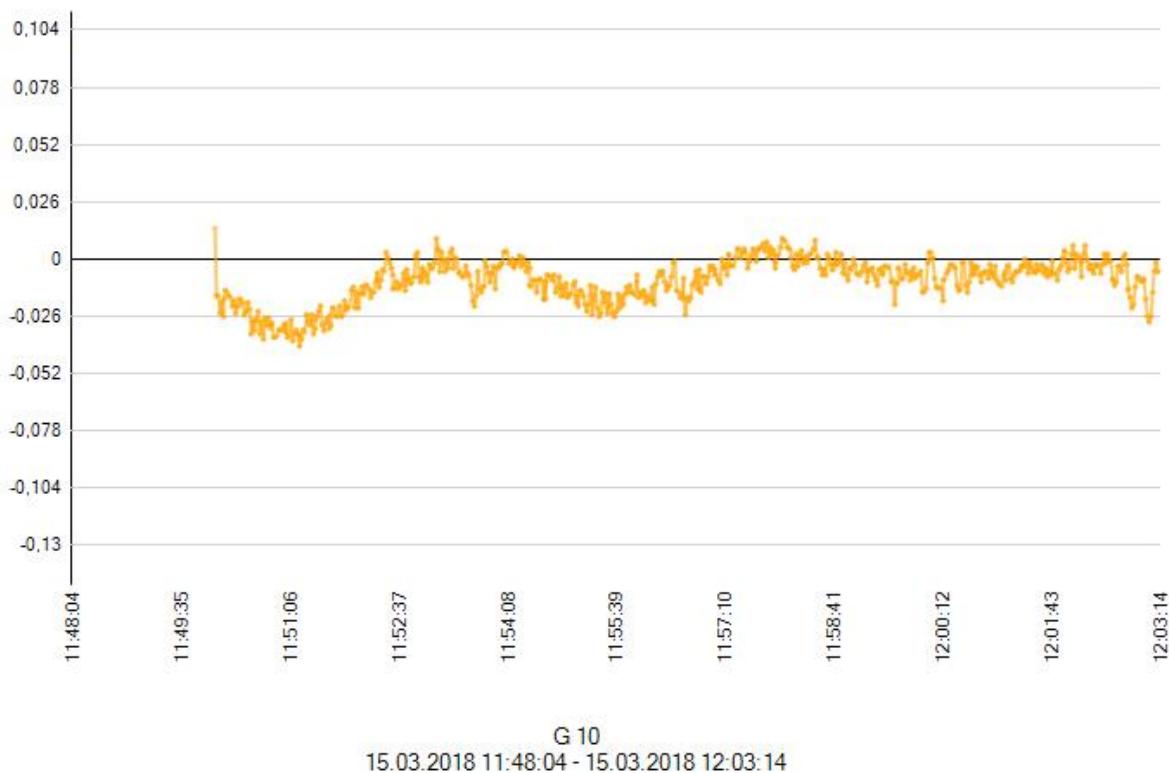
Tracking Summary



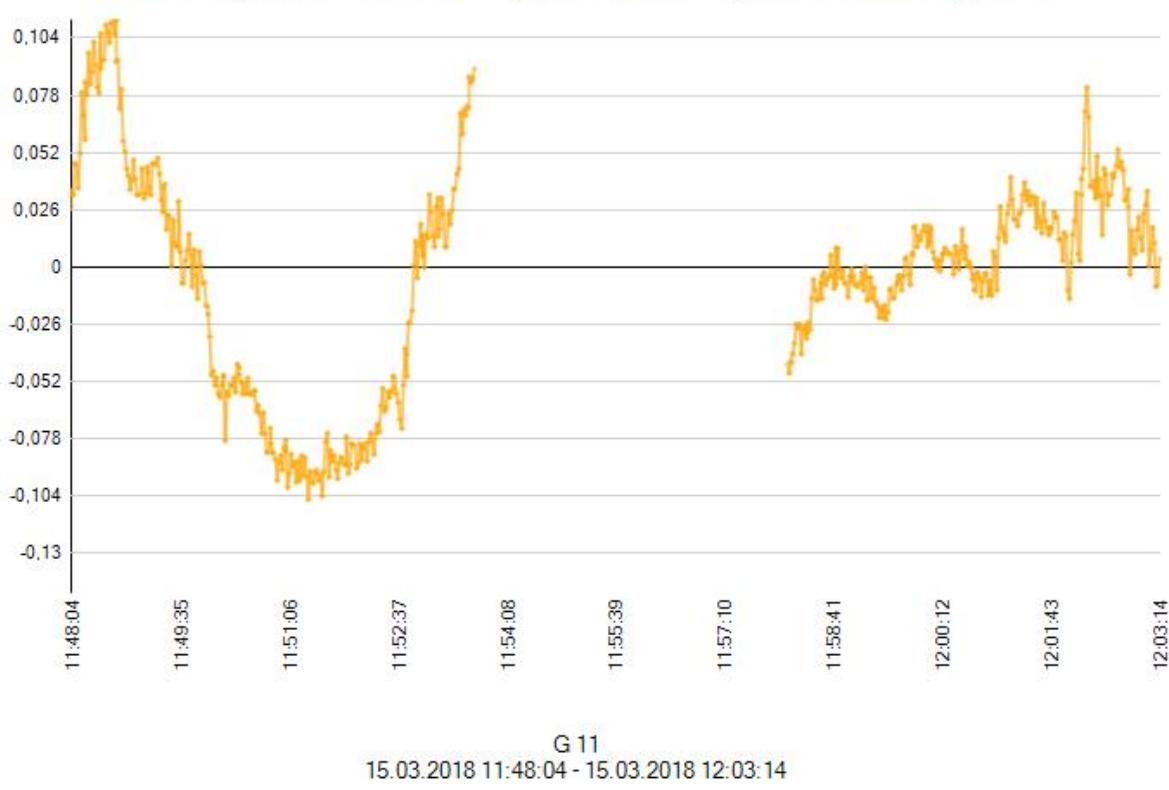
Residuals



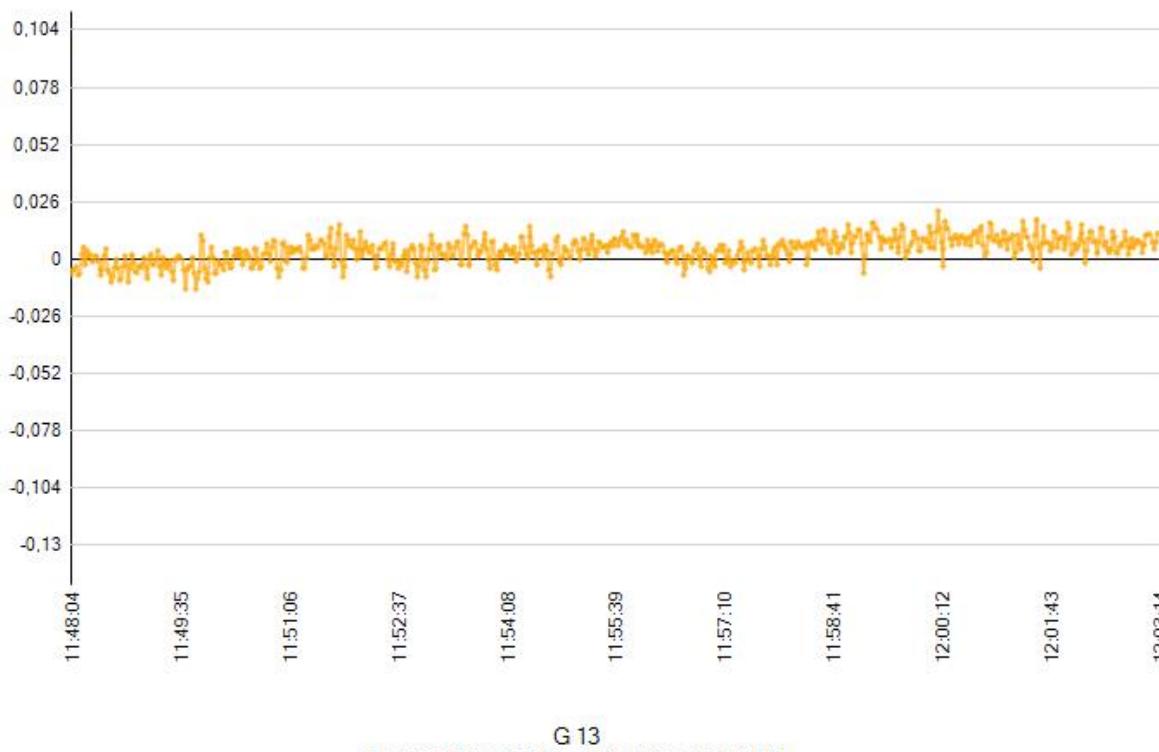
Mean = -0,009 m Std. Dev. = 0,010 m Min. = -0,039 m Max. = 0,014 m



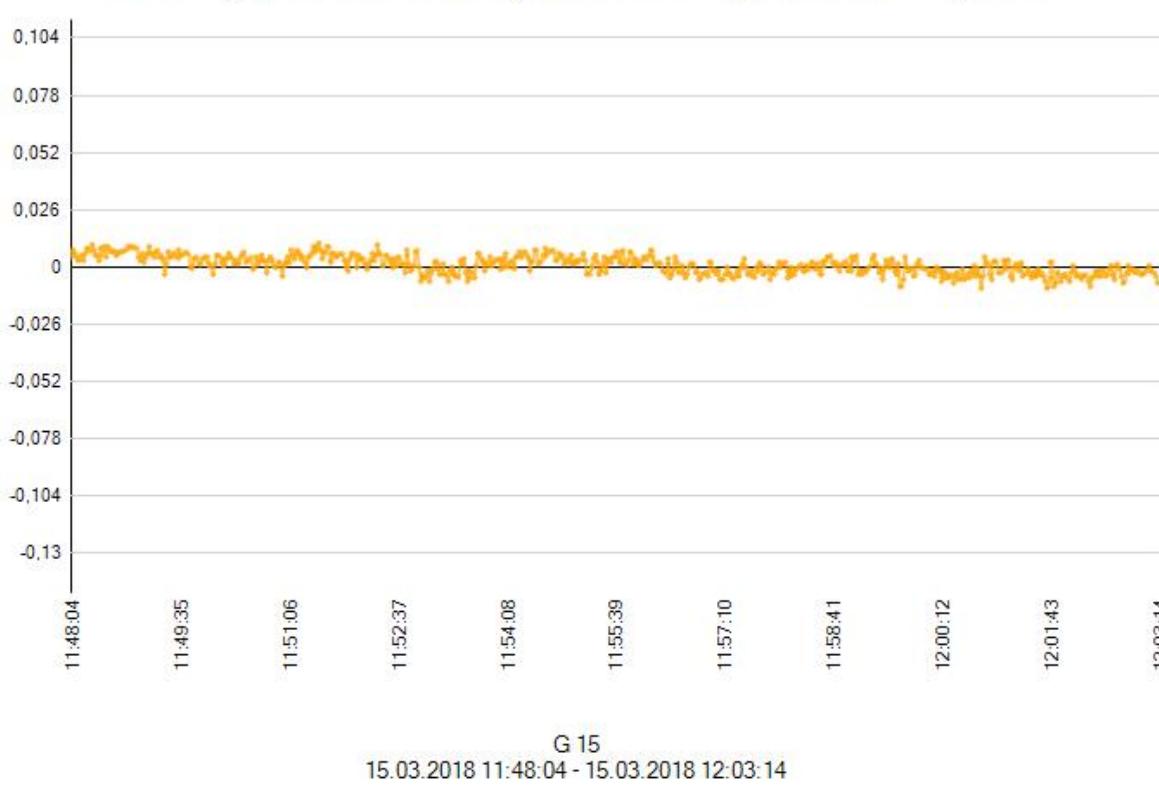
Mean = -0,005 m Std. Dev. = 0,049 m Min. = -0,105 m Max. = 0,112 m



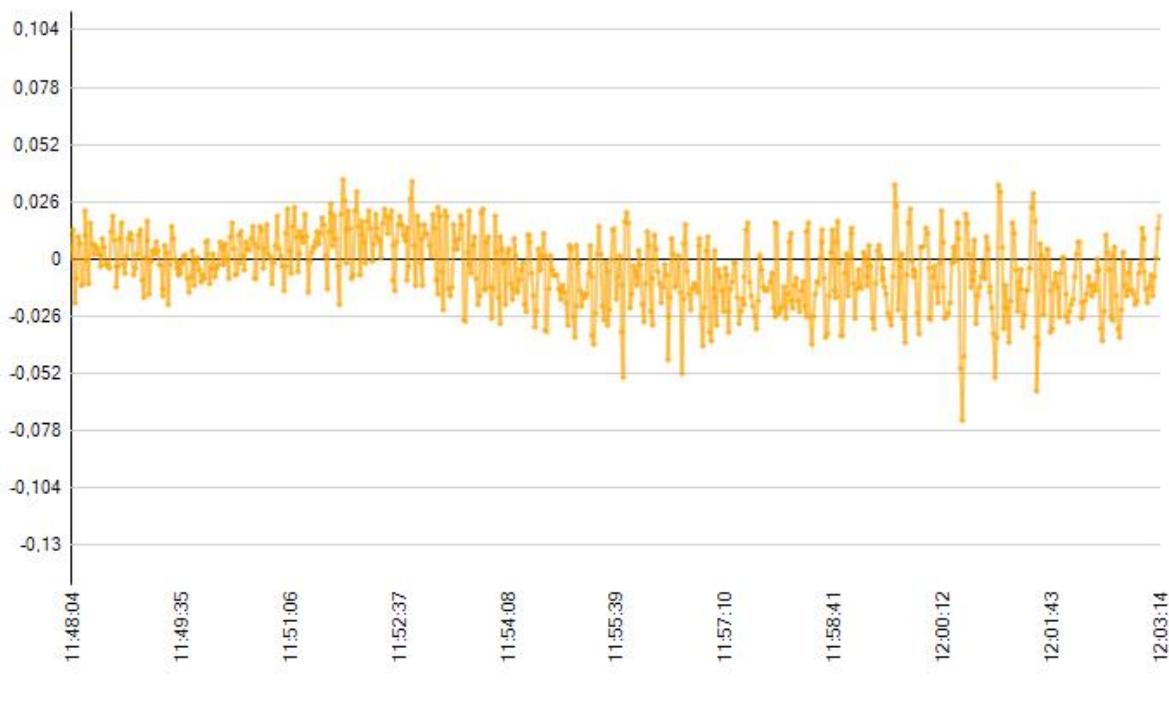
Mean = 0,004 m Std. Dev. = 0,005 m Min. = -0,014 m Max. = 0,022 m



Mean = 0,001 m Std. Dev. = 0,004 m Min. = -0,010 m Max. = 0,011 m

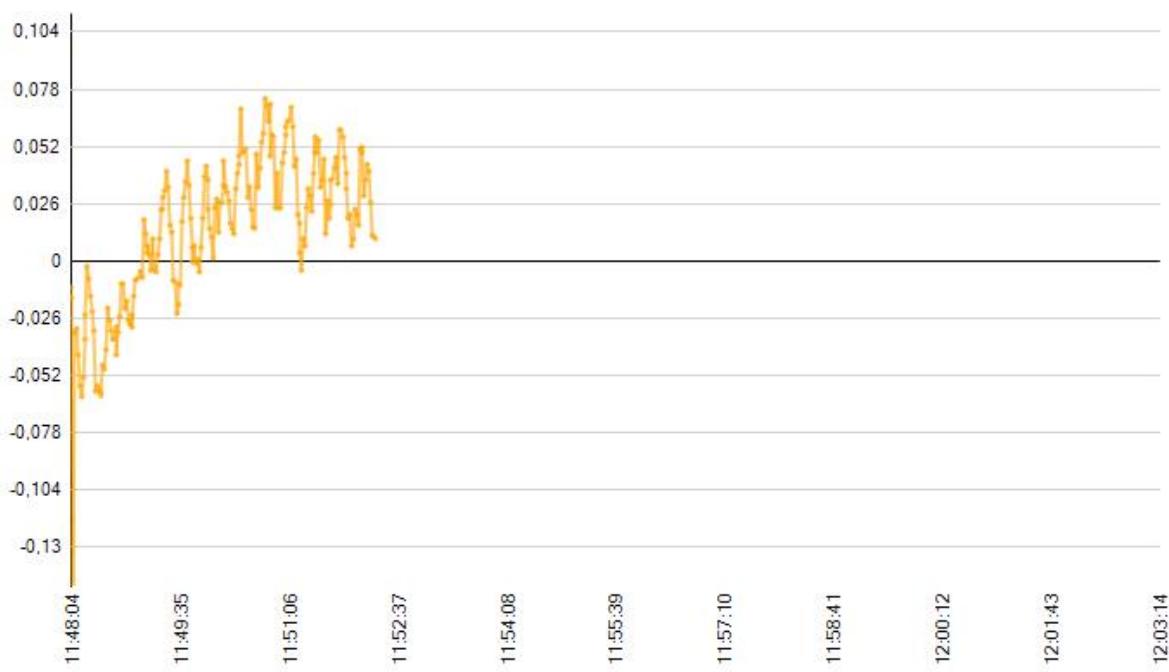


Mean = -0,004 m Std. Dev. = 0,015 m Min. = -0,073 m Max. = 0,036 m



G 20
15.03.2018 11:48:04 - 15.03.2018 12:03:14

Mean = 0,014 m Std. Dev. = 0,032 m Min. = -0,147 m Max. = 0,074 m

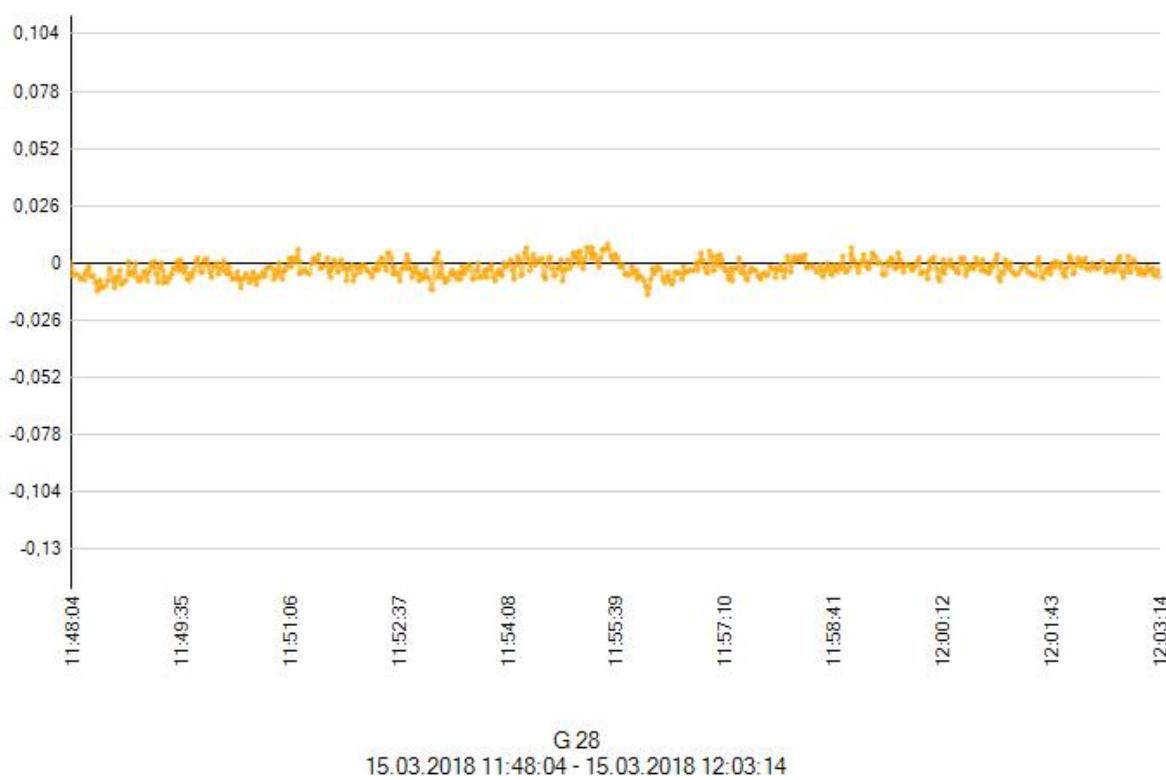


G 21
15.03.2018 11:48:04 - 15.03.2018 12:03:14

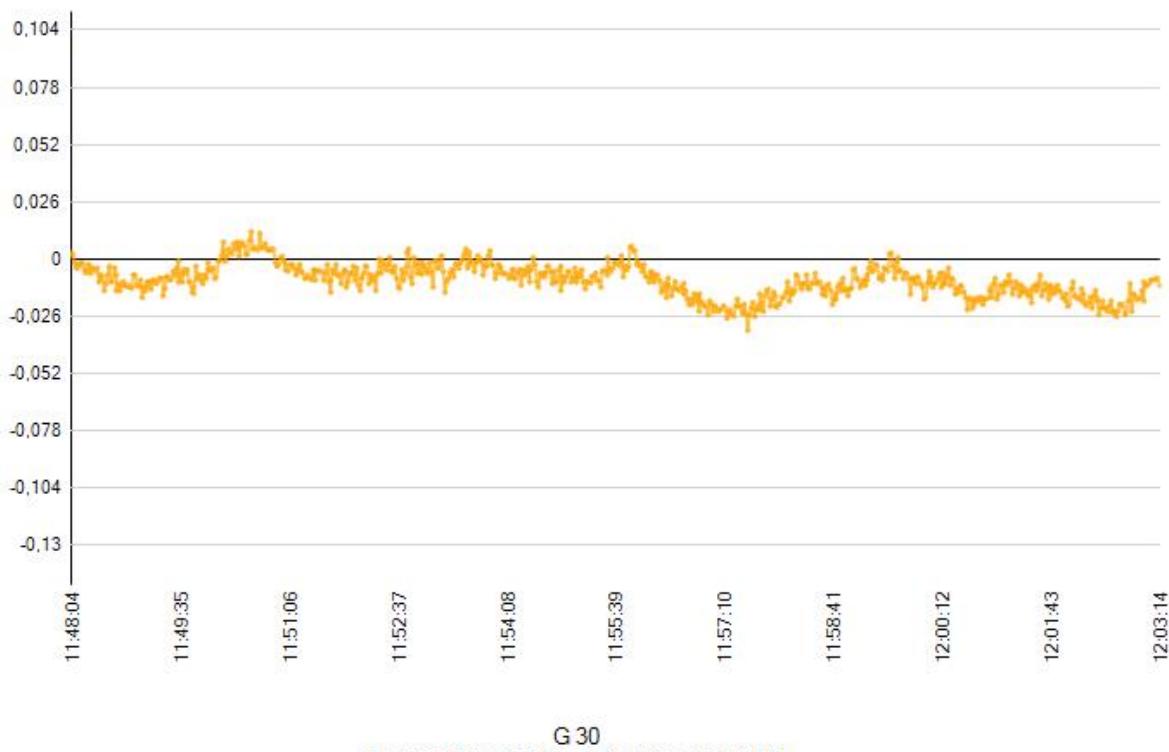
Mean = -0,002 m Std. Dev. = 0,020 m Min. = -0,044 m Max. = 0,044 m



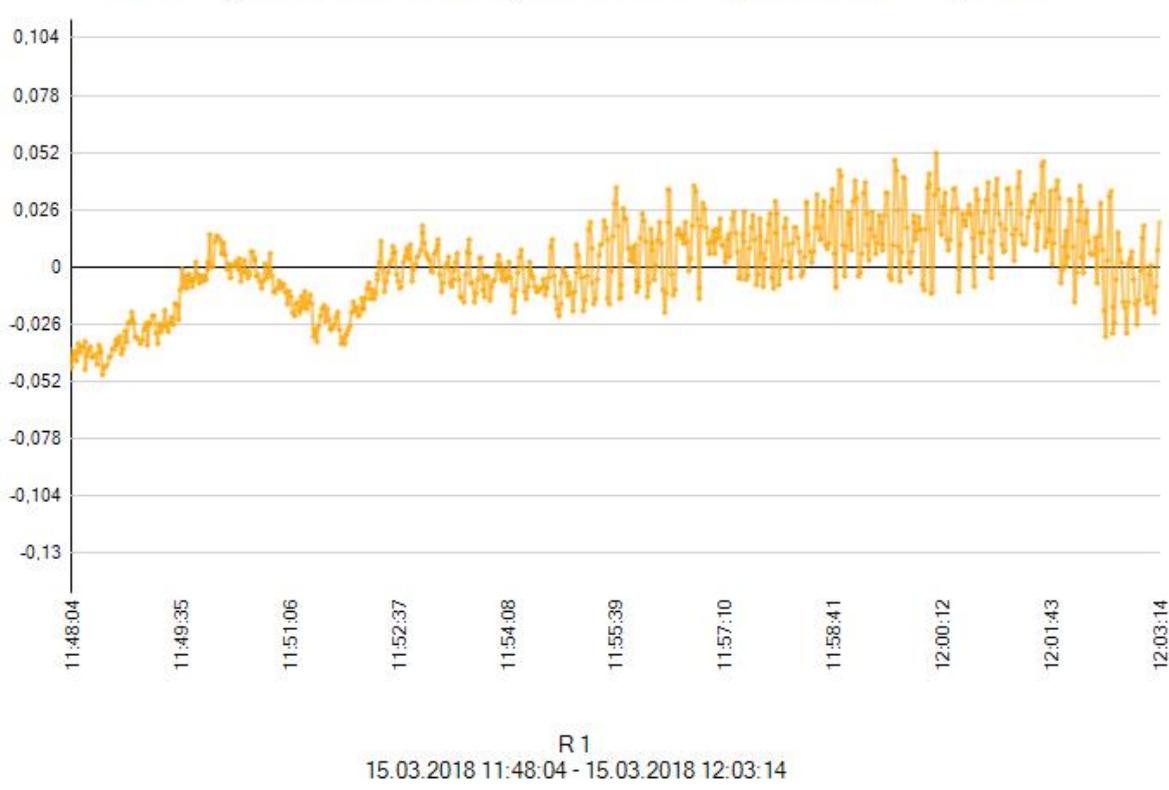
Mean = -0,002 m Std. Dev. = 0,003 m Min. = -0,014 m Max. = 0,009 m



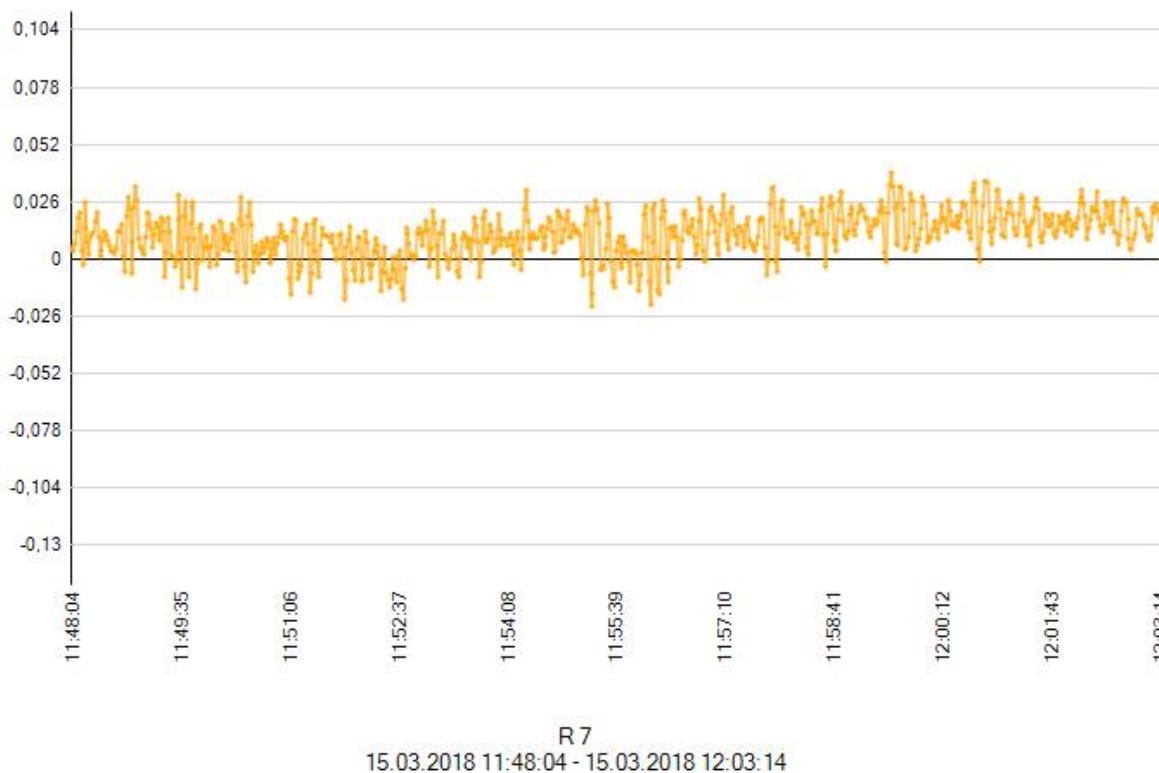
Mean = -0,009 m Std. Dev. = 0,007 m Min. = -0,032 m Max. = 0,012 m



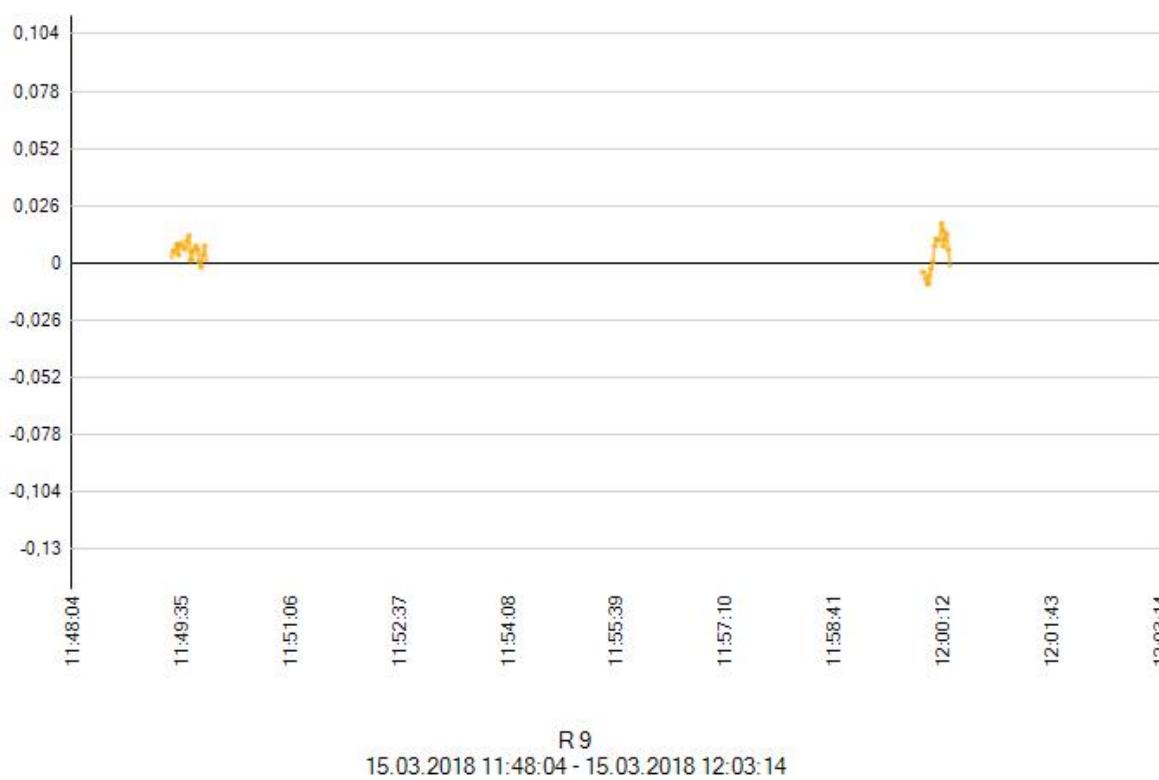
Mean = 0,000 m Std. Dev. = 0,019 m Min. = -0,049 m Max. = 0,051 m



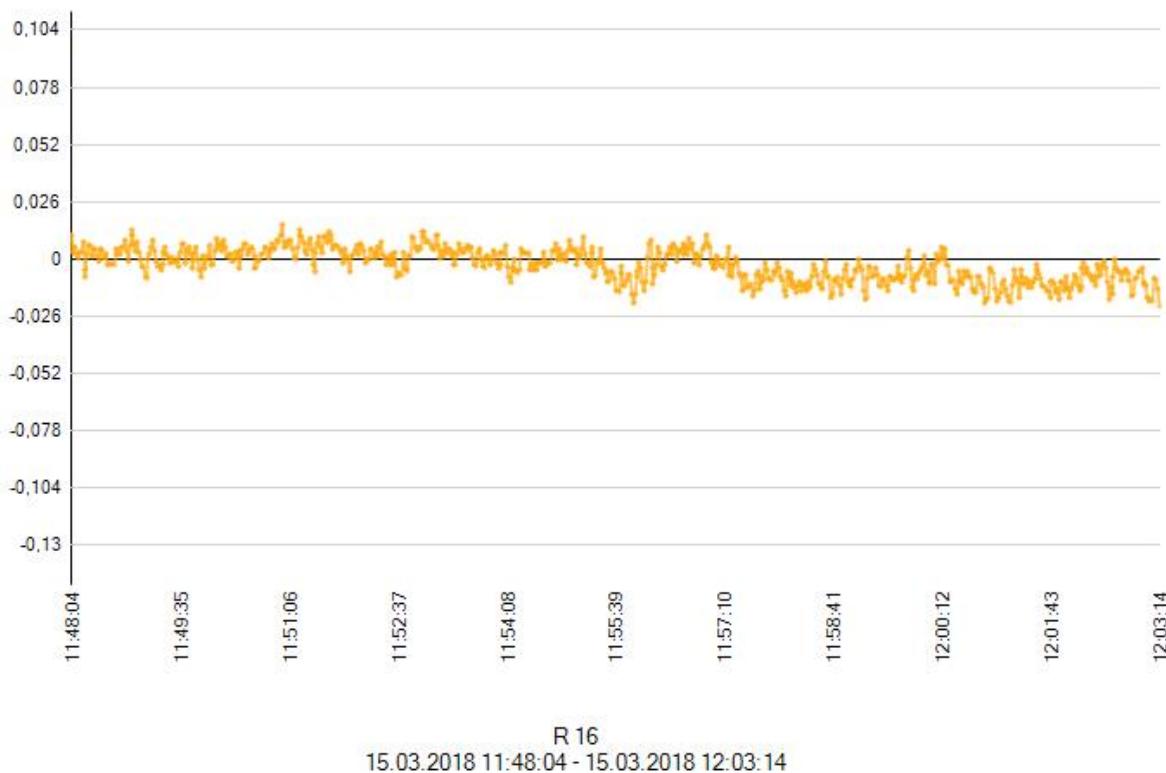
Mean = 0,011 m Std. Dev. = 0,010 m Min. = -0,022 m Max. = 0,039 m



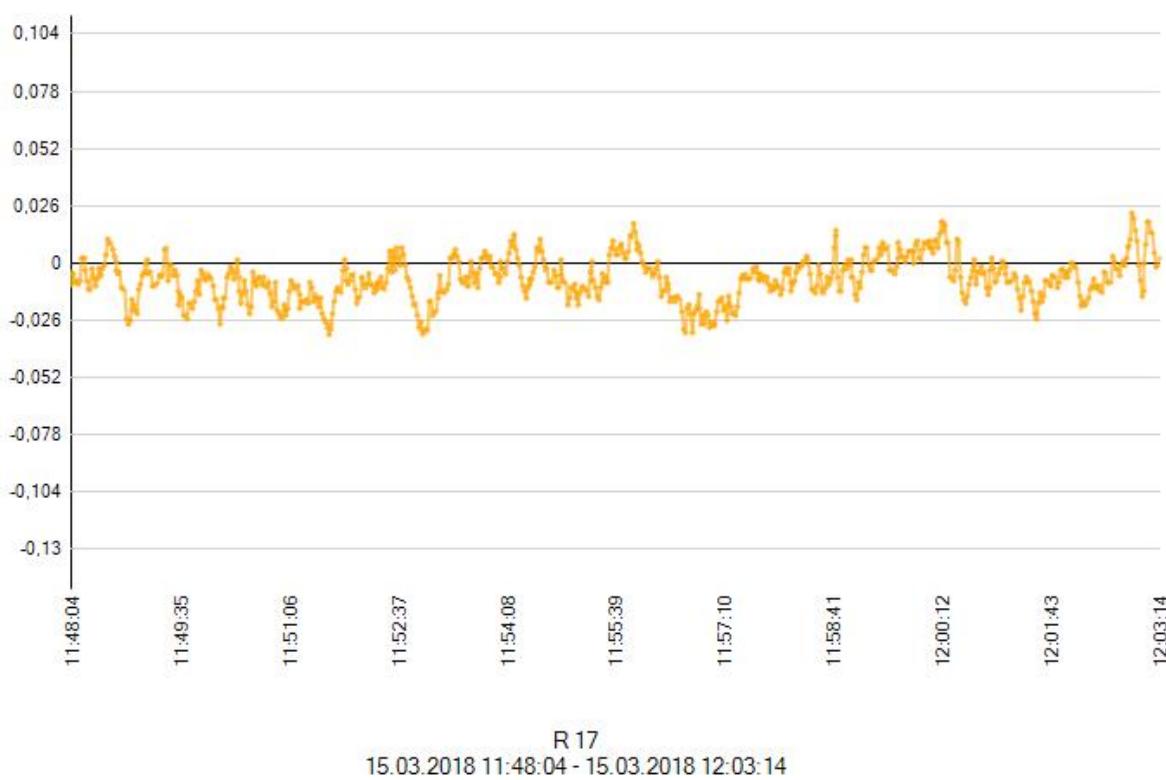
Mean = 0,004 m Std. Dev. = 0,006 m Min. = -0,009 m Max. = 0,018 m



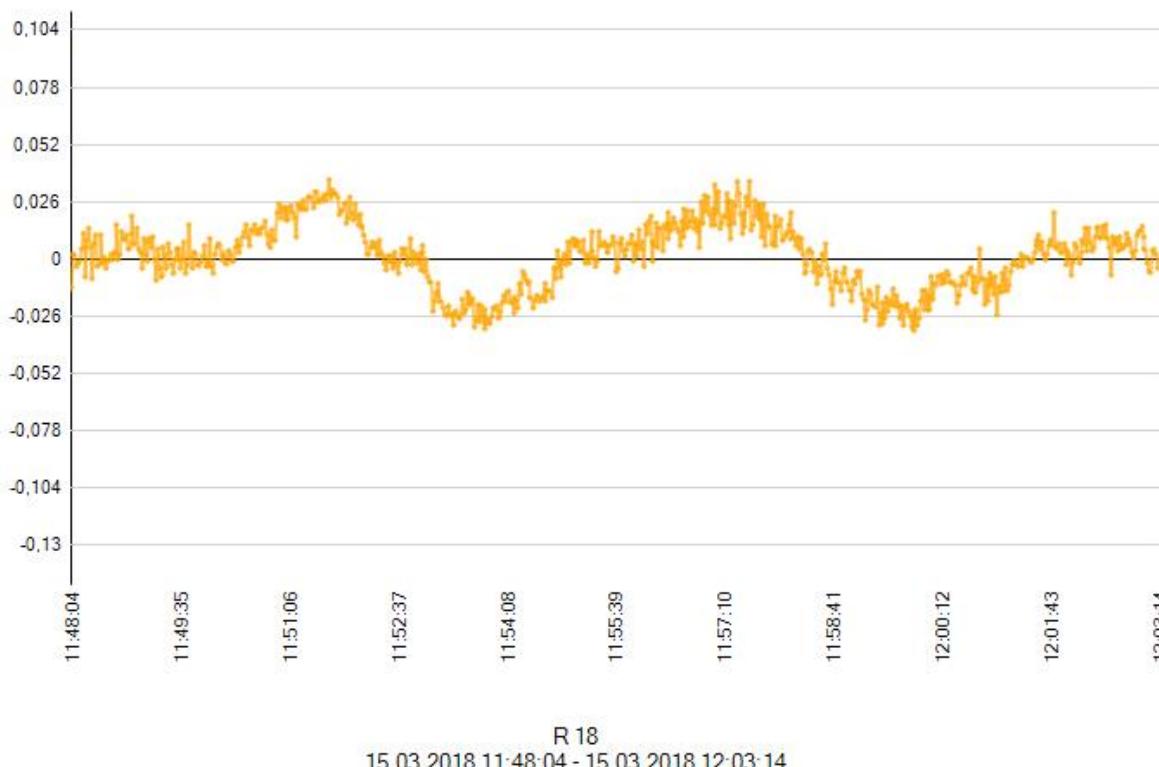
Mean = -0,003 m Std. Dev. = 0,007 m Min. = -0,021 m Max. = 0,016 m



Mean = -0,007 m Std. Dev. = 0,010 m Min. = -0,033 m Max. = 0,023 m

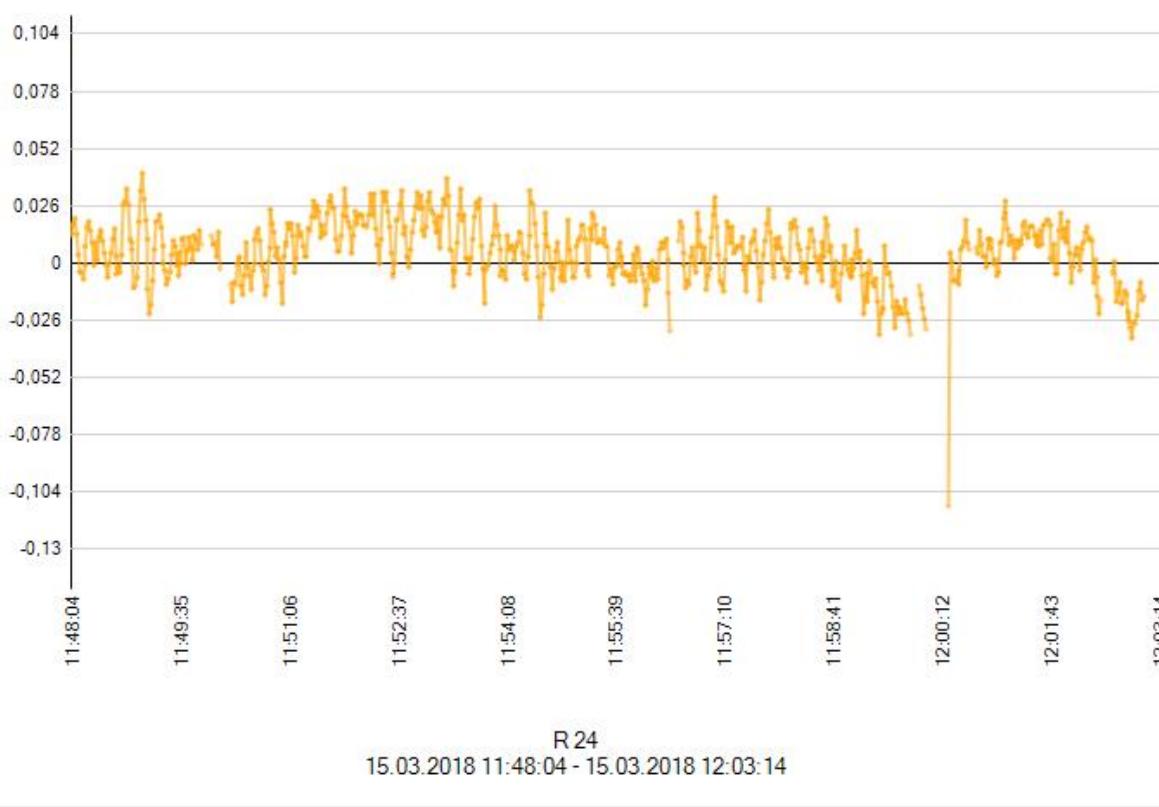


Mean = 0,001 m Std. Dev. = 0,014 m Min. = -0,032 m Max. = 0,036 m



R 18
15.03.2018 11:48:04 - 15.03.2018 12:03:14

Mean = 0,005 m Std. Dev. = 0,013 m Min. = -0,110 m Max. = 0,040 m



R 24
15.03.2018 11:48:04 - 15.03.2018 12:03:14

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 - BL4-2018 (13:18:58-13:34:09) (S9)

Baseline observation: LYRS --- BL4-2018 (B9)
 Processed: 23.03.2018 15:35:34
 Solution type: Fixed
 Frequency used: Dual Frequency (L1, L2)
 Horizontal precision: 0,016 m
 Vertical precision: 0,045 m
 RMS: 0,002 m
 Maximum PDOP: 2,902
 Ephemeris used: Broadcast
 Antenna model: Trimble Calibration
 Processing start time: 15.03.2018 13:18:58 (Local: UTC+1hr)
 Processing stop time: 15.03.2018 13:34:09 (Local: UTC+1hr)
 Processing duration: 12:15:11 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:	BL4-2018				
Grid		Local		Global	
Easting	524181,018 m	Latitude	N78°14'47,39443"	Latitude	N78°14'47,39443"
Northing	8686098,890 m	Longitude	E16°03'48,33774"	Longitude	E16°03'48,33774"
Elevation	571,859 m	Height	571,859 m	Height	571,859 m

Vector					
9Ughjb[15132,880 m	NS Fwd Azimuth	82°15'39"	L	-5956,167 m
Bcfh]b[2161,322 m	Ellipsoid Dist.	15292,506 m	M	14078,428 m
9Yj Uhcb	76,178 m	<Y][\h	76,178 m	N	476,837 m

Standard Errors

Vector errors:

9Ughb[0,006 m	'BG 'ZK X'5n]a i h	0°00'00"	L	0,006 m
Bcfhjb[0,005 m	'9``]dgc]X 8]gh	0,006 m	M	0,007 m
9Yj Uhcb	0,023 m	<Y][\h	0,023 m	N	0,022 m

Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0,0000319213		
Y	0,0000274335	0,0000498811	
Z	0,0000731815	0,0000911176	0,0005014717

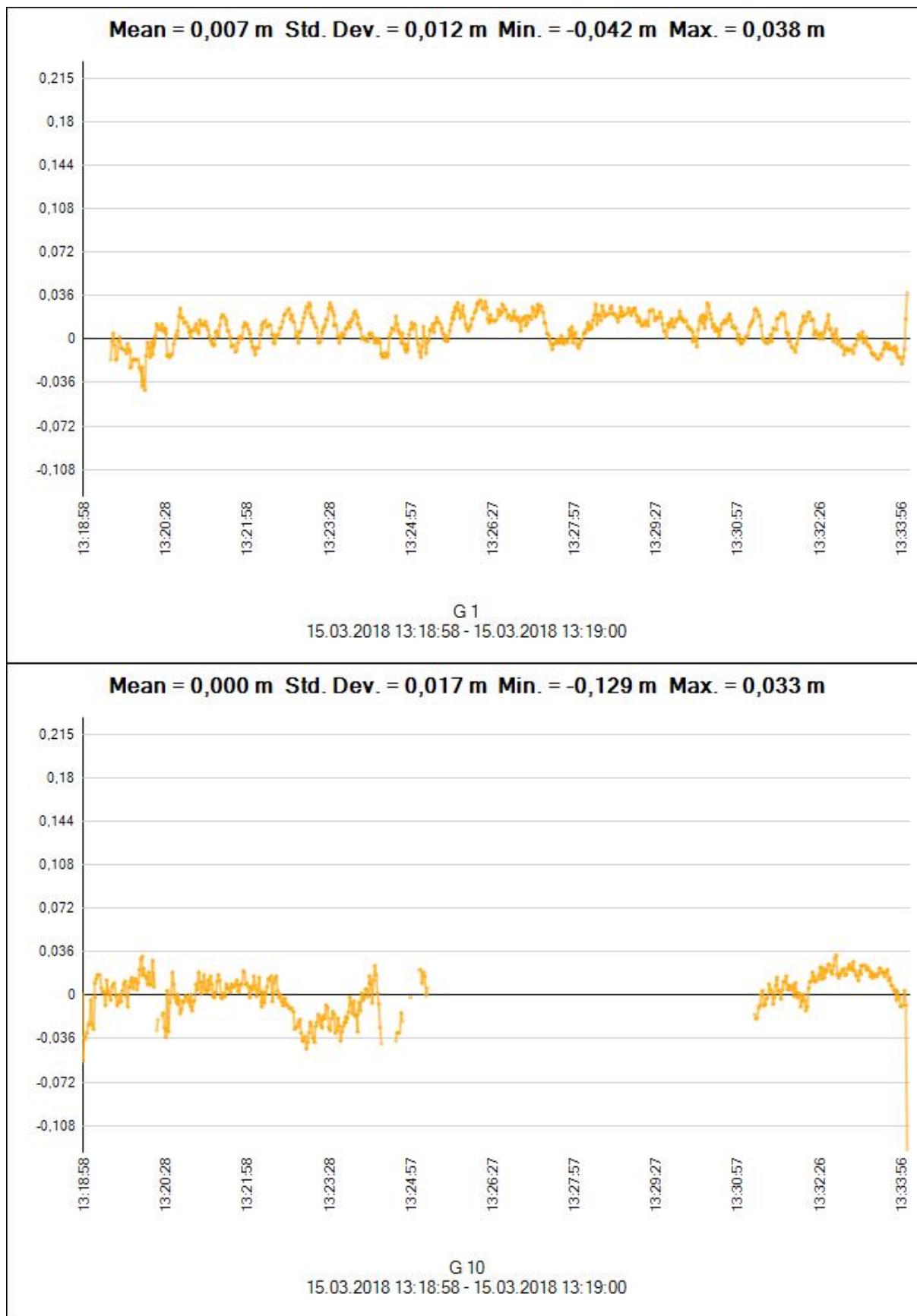
Occupations

	From	To
Point ID:	LYRS	BL4-2018
Data file:	C:\Users\lth842\Documents\Trimble Business Center\Unnamed\lyrs0740.18o	C:\Users\lth842\Documents\Trimble Business Center\Unnamed\4625074D.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	0,920 m
Antenna method:	Bottom of antenna mount	Bottom of antenna mount

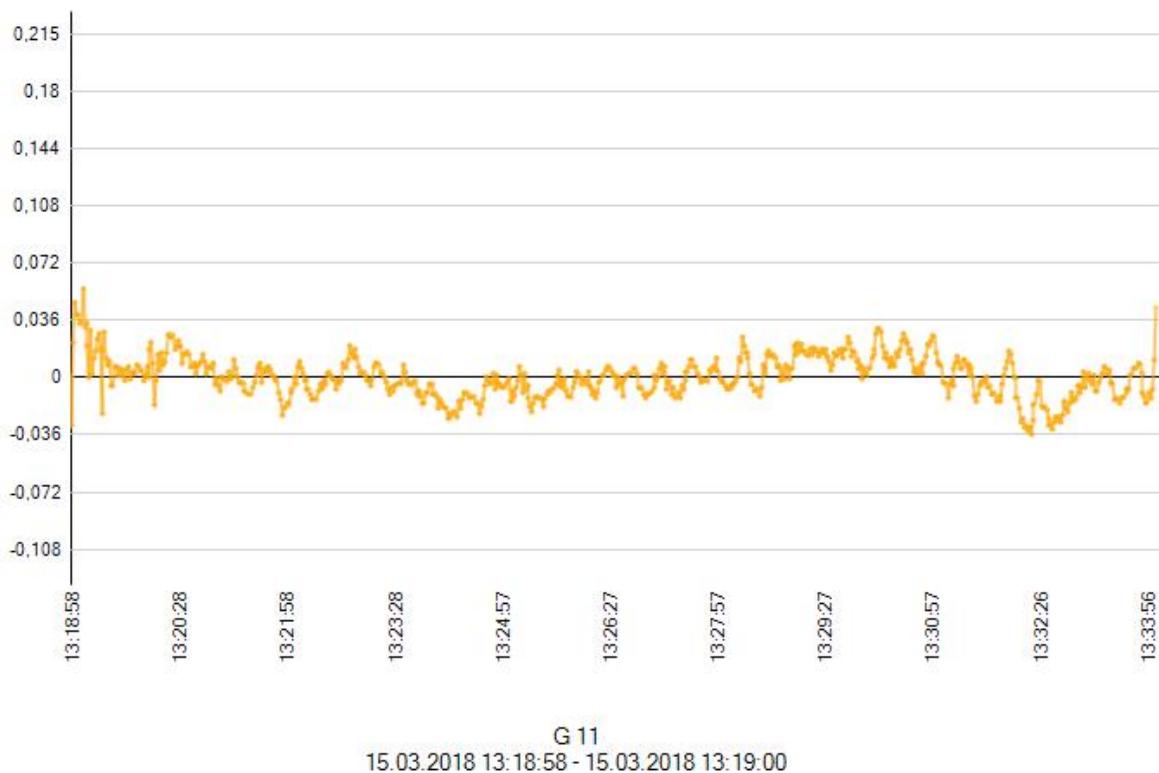
Tracking Summary

SV	15.03.2018 13:18:58	Duration: 00:15:11	Major interval: 00:01:00	15.03.2018 13:34:09
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 1	L1 L2			
R 2	L1 L2			
R 8	L1 L2			
R 9	L1 L2			
R 10	L1 L2			
R 11	L1 L2			
R 17	L1 L2			
R 18	L1 L2			
R 19	L1 L2			

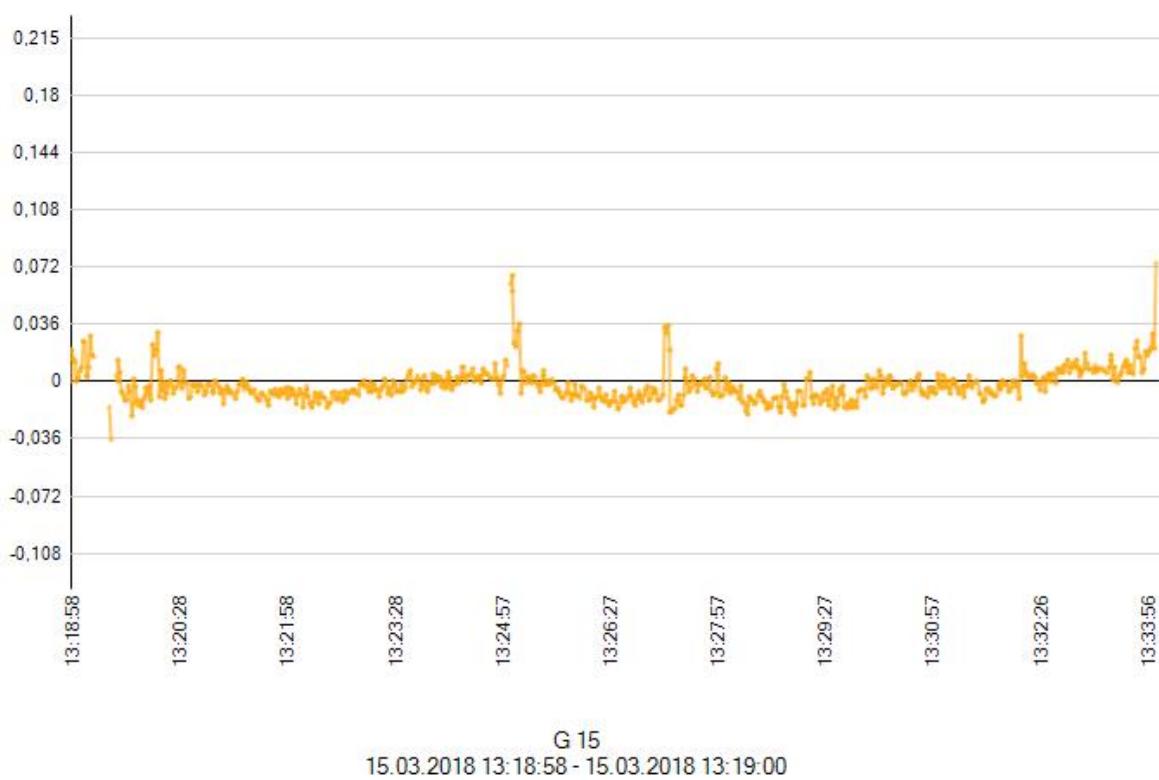
Residuals



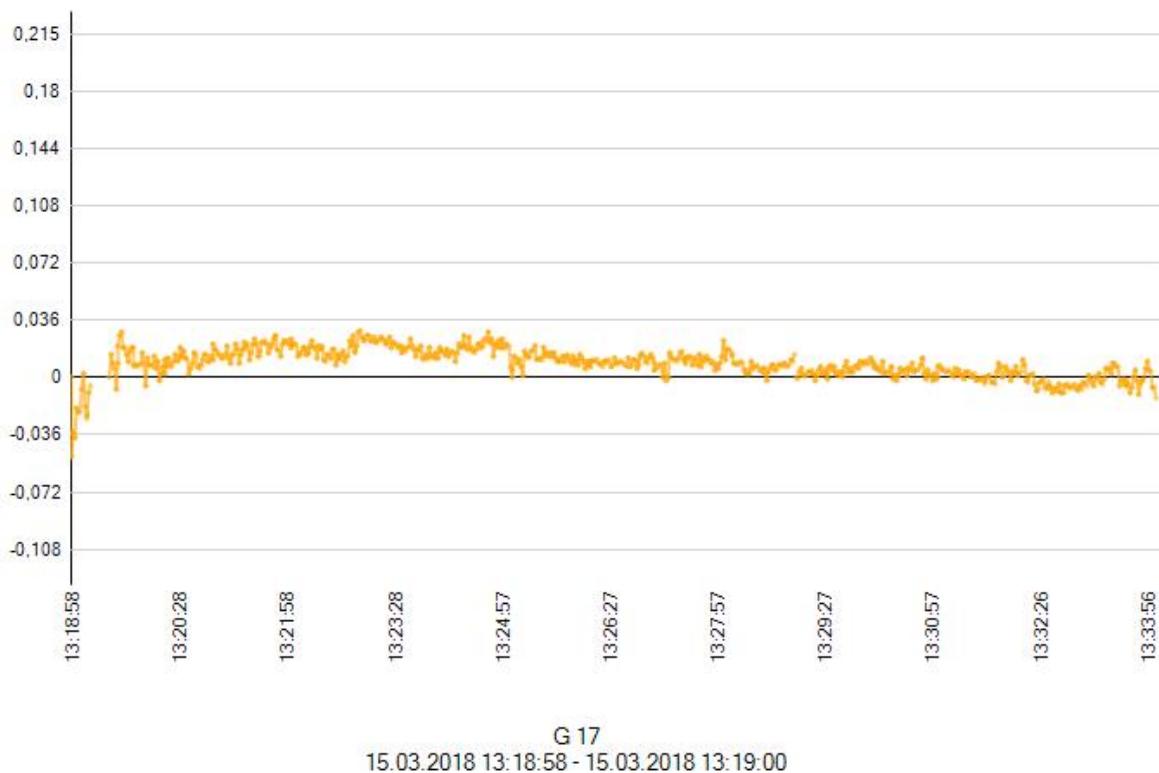
Mean = 0,001 m Std. Dev. = 0,012 m Min. = -0,035 m Max. = 0,056 m



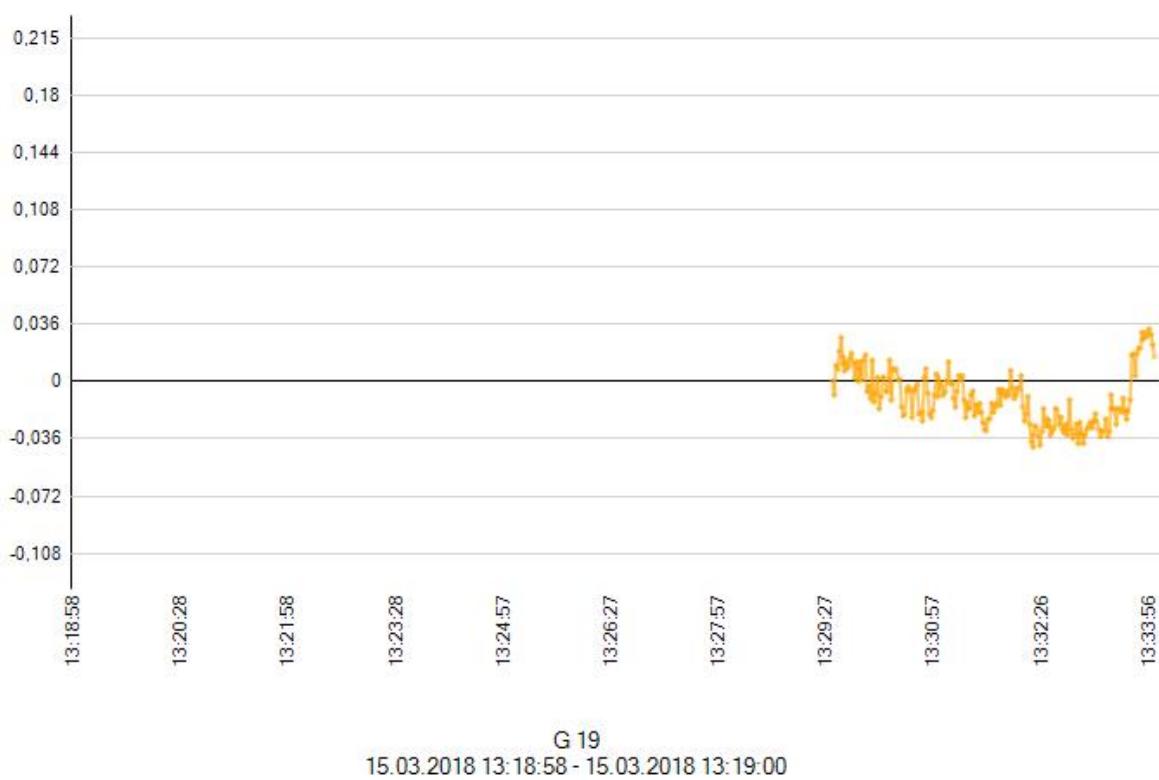
Mean = -0,002 m Std. Dev. = 0,010 m Min. = -0,037 m Max. = 0,074 m



Mean = 0,009 m Std. Dev. = 0,009 m Min. = -0,049 m Max. = 0,029 m



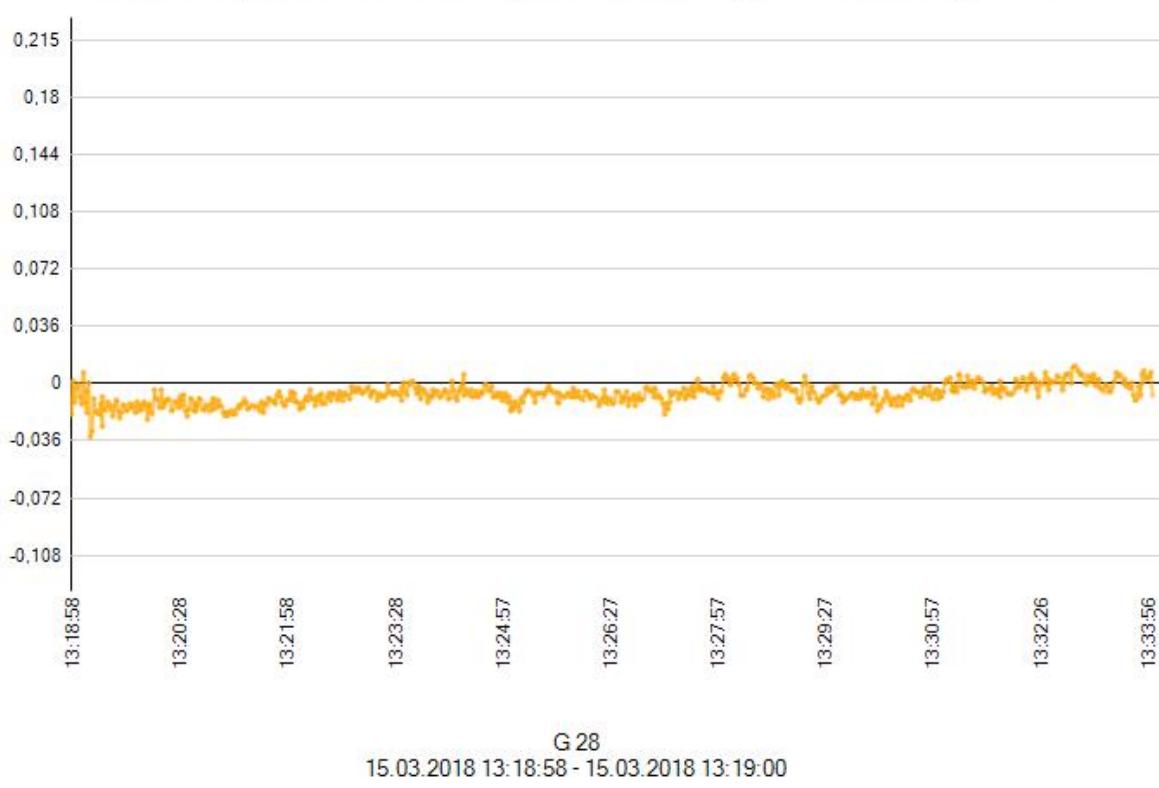
Mean = -0,010 m Std. Dev. = 0,016 m Min. = -0,041 m Max. = 0,033 m



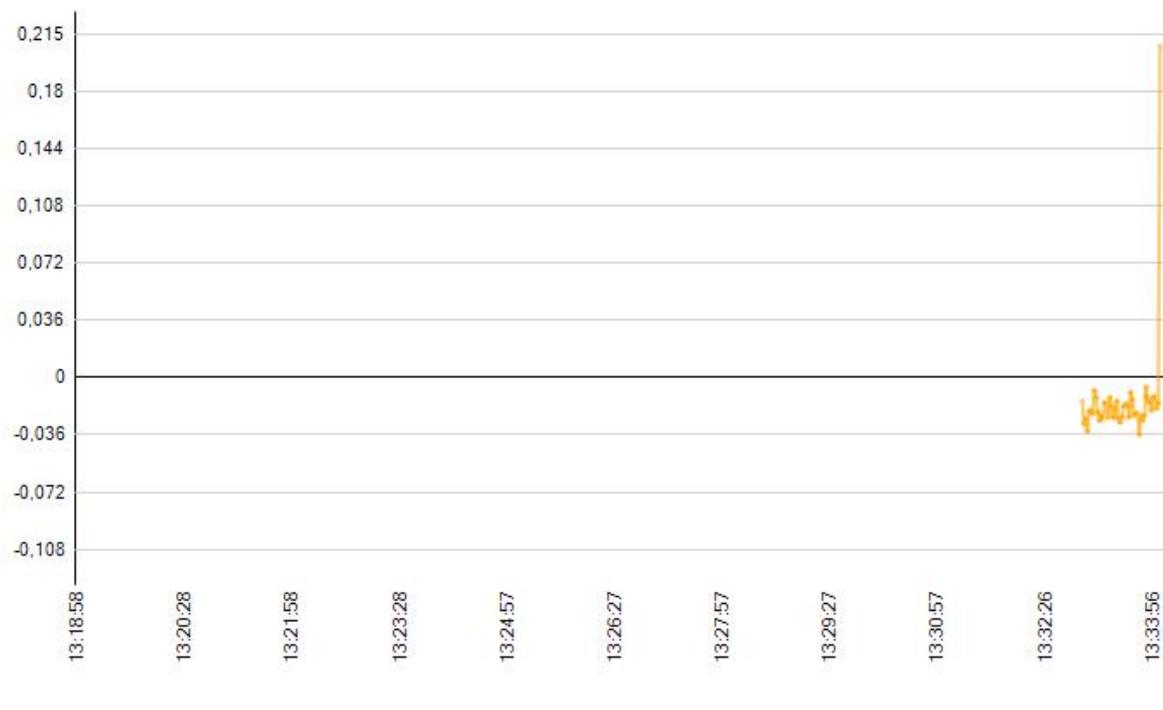
Mean = -0,001 m Std. Dev. = 0,006 m Min. = -0,033 m Max. = 0,033 m



Mean = -0,006 m Std. Dev. = 0,006 m Min. = -0,033 m Max. = 0,015 m



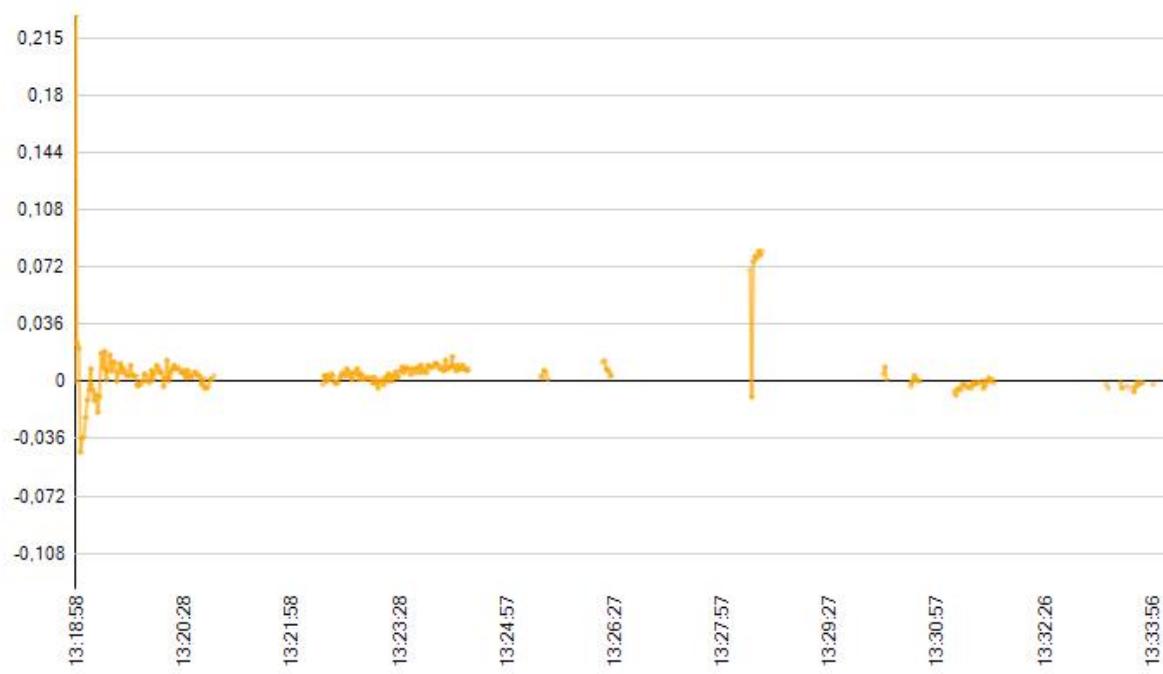
Mean = -0,016 m Std. Dev. = 0,028 m Min. = -0,035 m Max. = 0,208 m



G 32

15.03.2018 13:18:58 - 15.03.2018 13:19:00

Mean = 0,005 m Std. Dev. = 0,018 m Min. = -0,044 m Max. = 0,230 m



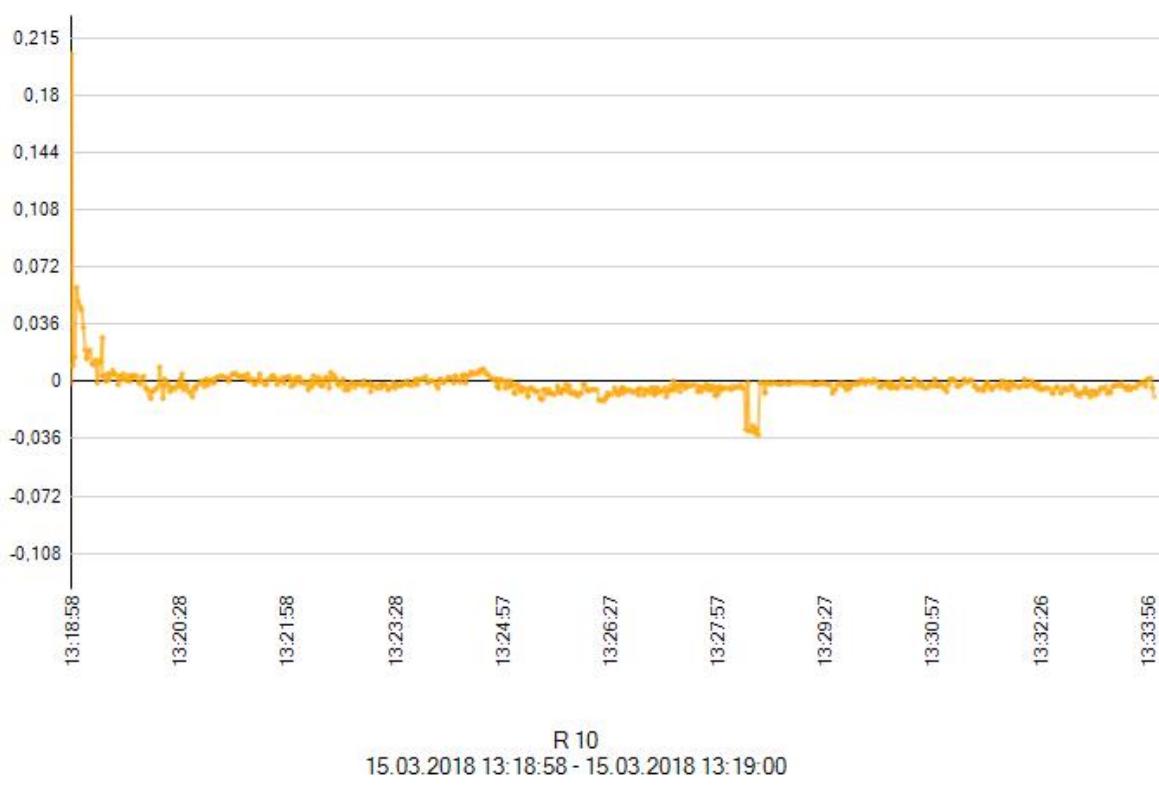
R 1

15.03.2018 13:18:58 - 15.03.2018 13:19:00

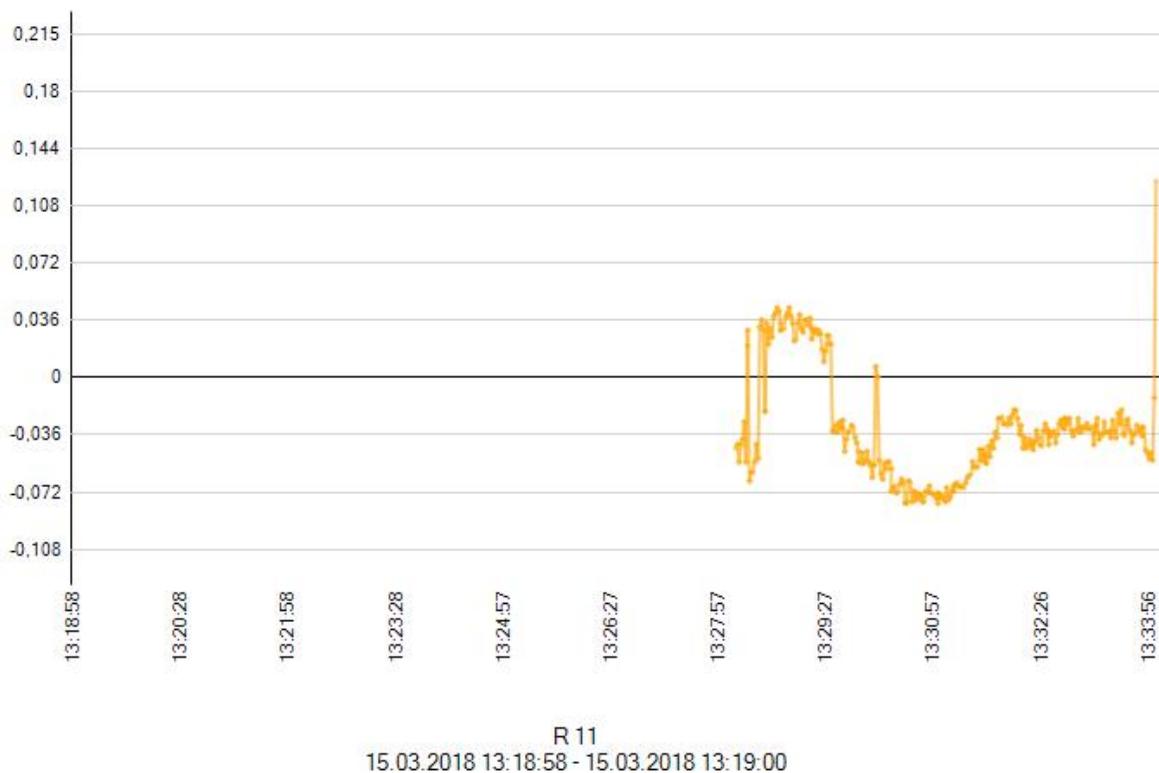
Mean = -0,018 m Std. Dev. = 0,020 m Min. = -0,068 m Max. = 0,093 m



Mean = -0,001 m Std. Dev. = 0,009 m Min. = -0,033 m Max. = 0,205 m



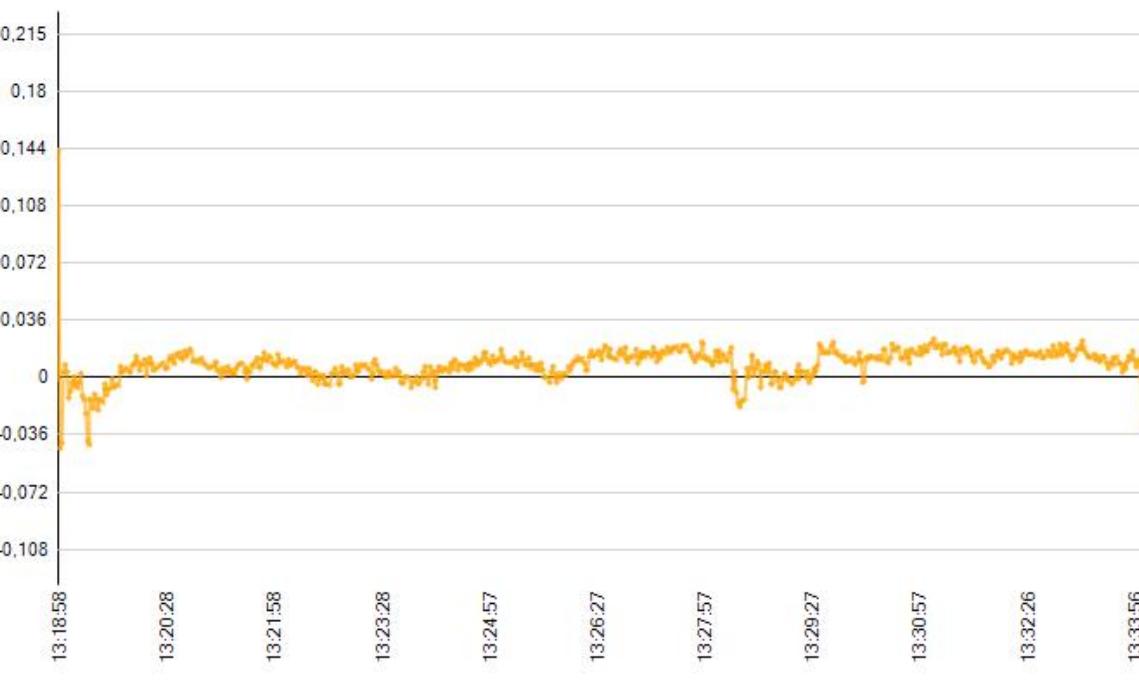
Mean = -0,030 m Std. Dev. = 0,034 m Min. = -0,079 m Max. = 0,123 m



Mean = -0,014 m Std. Dev. = 0,028 m Min. = -0,066 m Max. = 0,151 m



Mean = 0,008 m Std. Dev. = 0,010 m Min. = -0,044 m Max. = 0,143 m



R 18
15.03.2018 13:18:58 - 15.03.2018 13:19:00

Mean = -0,002 m Std. Dev. = 0,011 m Min. = -0,060 m Max. = 0,222 m



R 19
15.03.2018 13:18:58 - 15.03.2018 13:19:00

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 - BL5-2017 (13:47:30-14:04:26) (S2)

Baseline observation: LYRS --- BL5-2017 (B2)
 Processed: 23.03.2018 15:35:44
 Solution type: Fixed
 Frequency used: Dual Frequency (L1, L2)
 Horizontal precision: 0,019 m
 Vertical precision: 0,027 m
 RMS: 0,002 m
 Maximum PDOP: 1,750
 Ephemeris used: Broadcast
 Antenna model: Trimble Calibration
 Processing start time: 15.03.2018 13:47:30 (Local: UTC+1hr)
 Processing stop time: 15.03.2018 14:04:26 (Local: UTC+1hr)
 Processing duration: 12:16:56 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				
Grid		Local		Global	
Easting	524644,296 m	Latitude	N78°14'48,14747"	Latitude	N78°14'48,14747"
Northing	8686130,739 m	Longitude	E16°05'01,76035"	Longitude	E16°05'01,76035"
Elevation	629,737 m	Height	629,737 m	Height	629,737 m

Vector					
9Ughjb[15596,158 m	NS Fwd Azimuth	82°23'04"	L	-6095,282 m
Bcfh]b[2193,171 m	Ellipsoid Dist.	15755,852 m	M	14521,232 m
9Yj Uhcb	134,056 m	<Y][\h	134,056 m	N	538,259 m

Standard Errors

Vector errors:

9Ughb[0,004 m	'BG 'ZK X'5n]a i h	0°00'00"	L	0,008 m
Bcfh]b[0,008 m	'9``]dgc]X 8]gh	0,004 m	M	0,005 m
9`Yj Uhc[0,014 m	<Y][\h	0,014 m	N	0,013 m

Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0,0000676432		
Y	0,0000192360	0,0000212318	
Z	0,0000349735	0,0000190676	0,0001731219

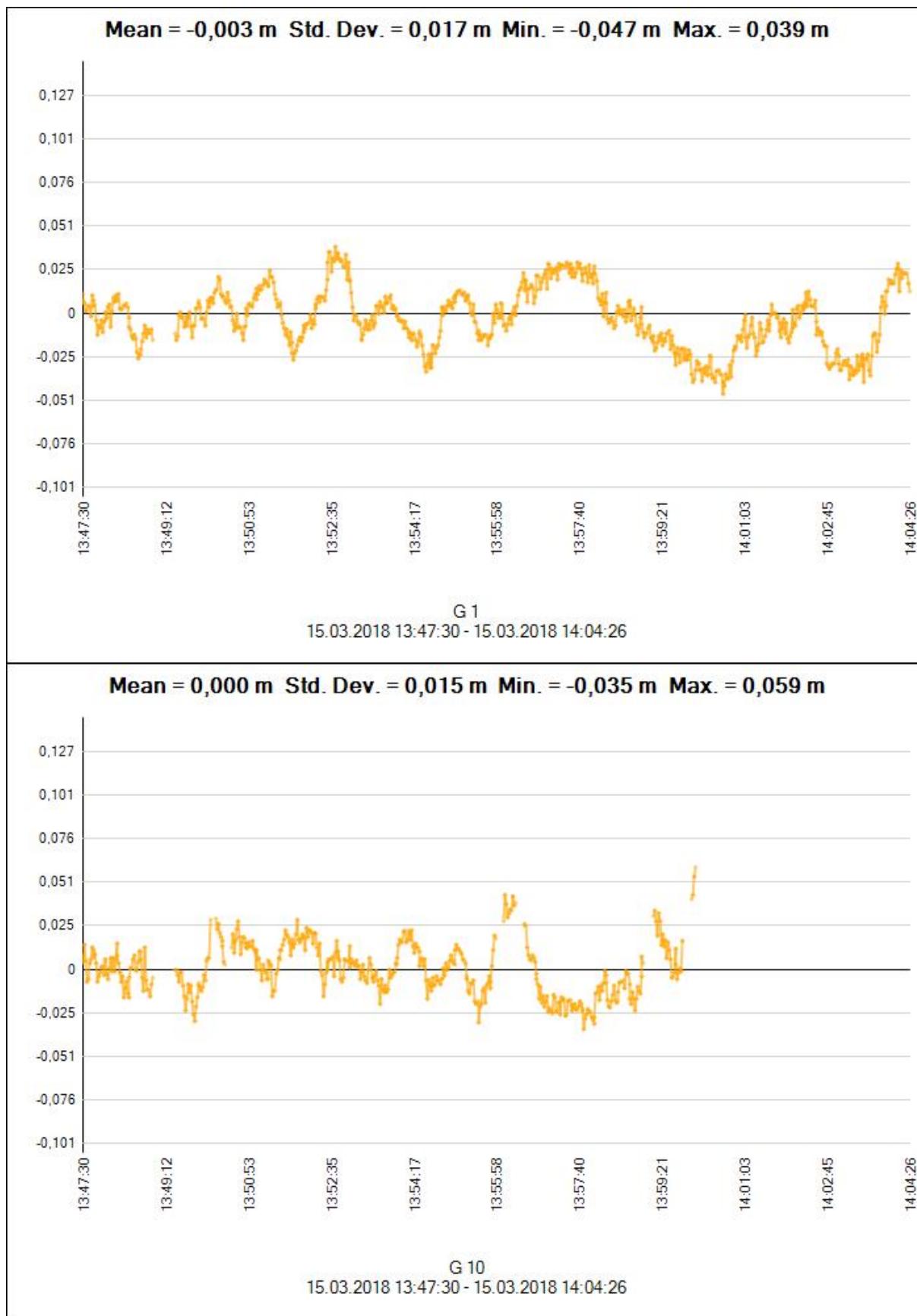
Occupations

	From	To
Point ID:	LYRS	BL5-2017
Data file:	C:\Users\lth842\Documents\Trimble Business Center\Unnamed\lyrs0740.18o	C:\Users\lth842\Documents\Trimble Business Center\Unnamed\4625074F.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	1,320 m
Antenna method:	Bottom of antenna mount	Bottom of antenna mount

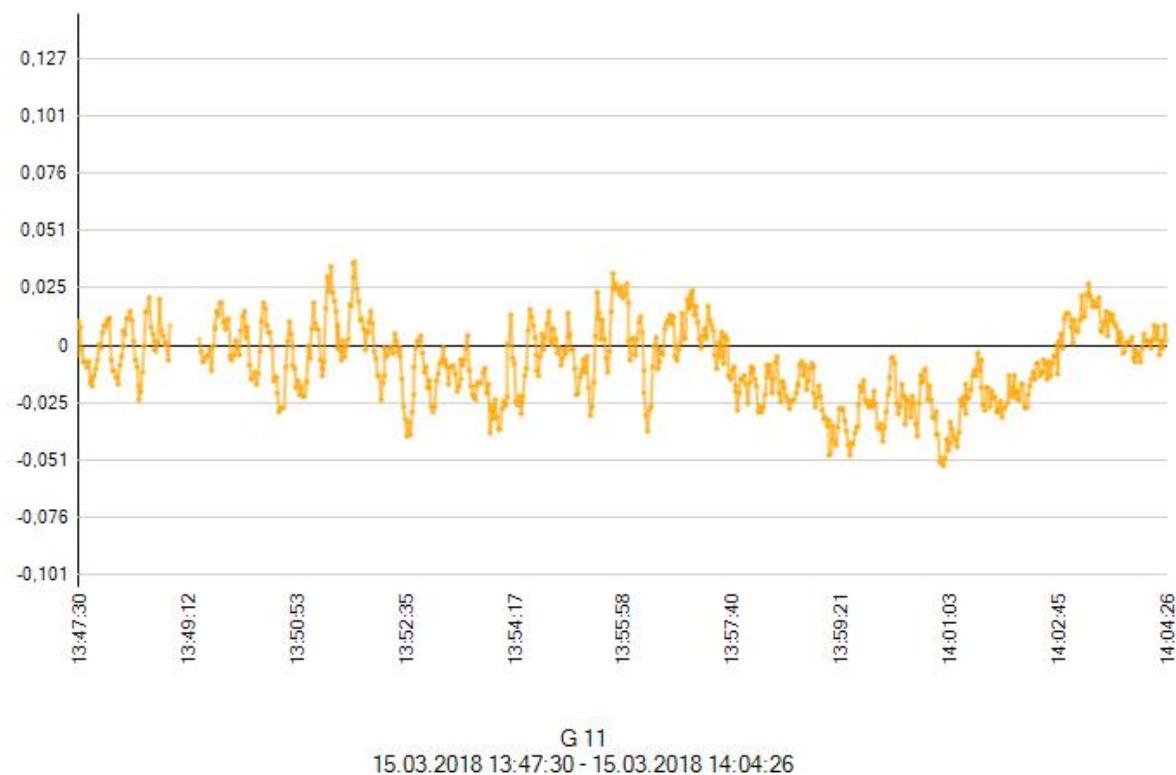
Tracking Summary

SV	15.03.2018 13:47:30	Duration: 00:16:56 Major interval: 00:01:00	15.03.2018 14:04:26
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 24	L1 L2		
G 28	L1 L2		
G 32	L1 L2		
R 1	L1 L2		
R 2	L1 L2		
R 9	L1 L2		
R 10	L1 L2		
R 11	L1 L2		
R 18	L1 L2		
R 19	L1 L2		

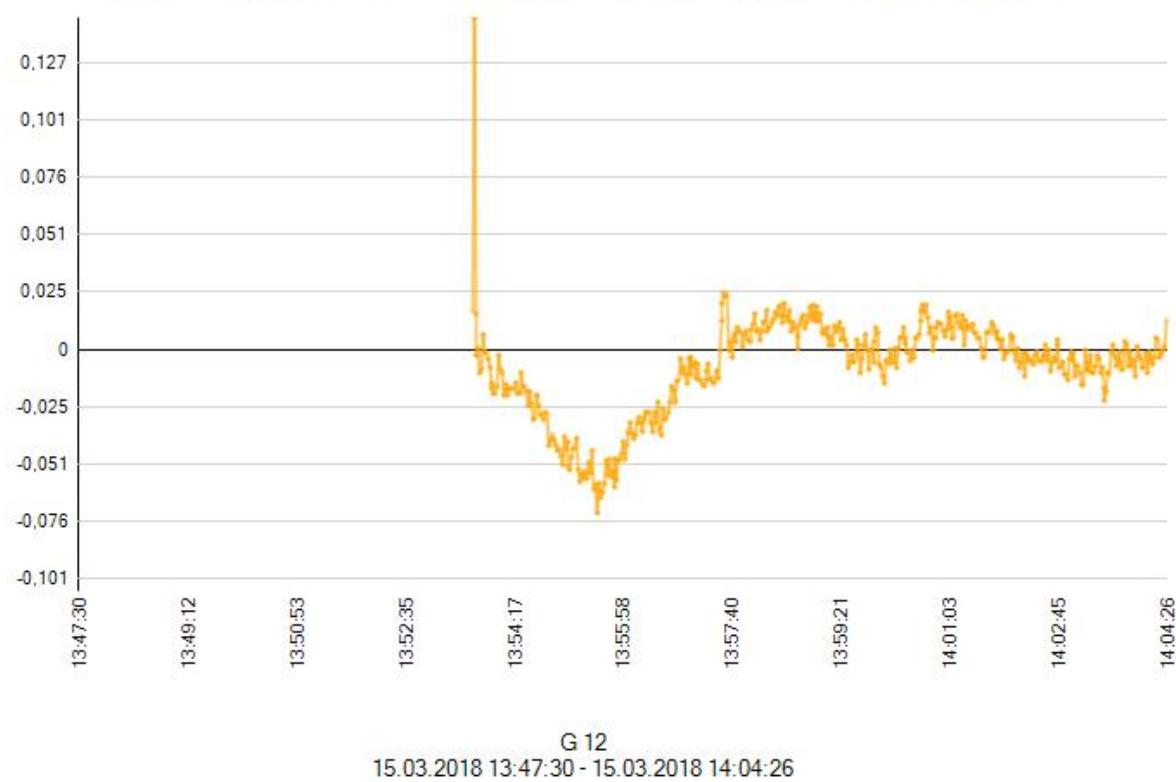
Residuals



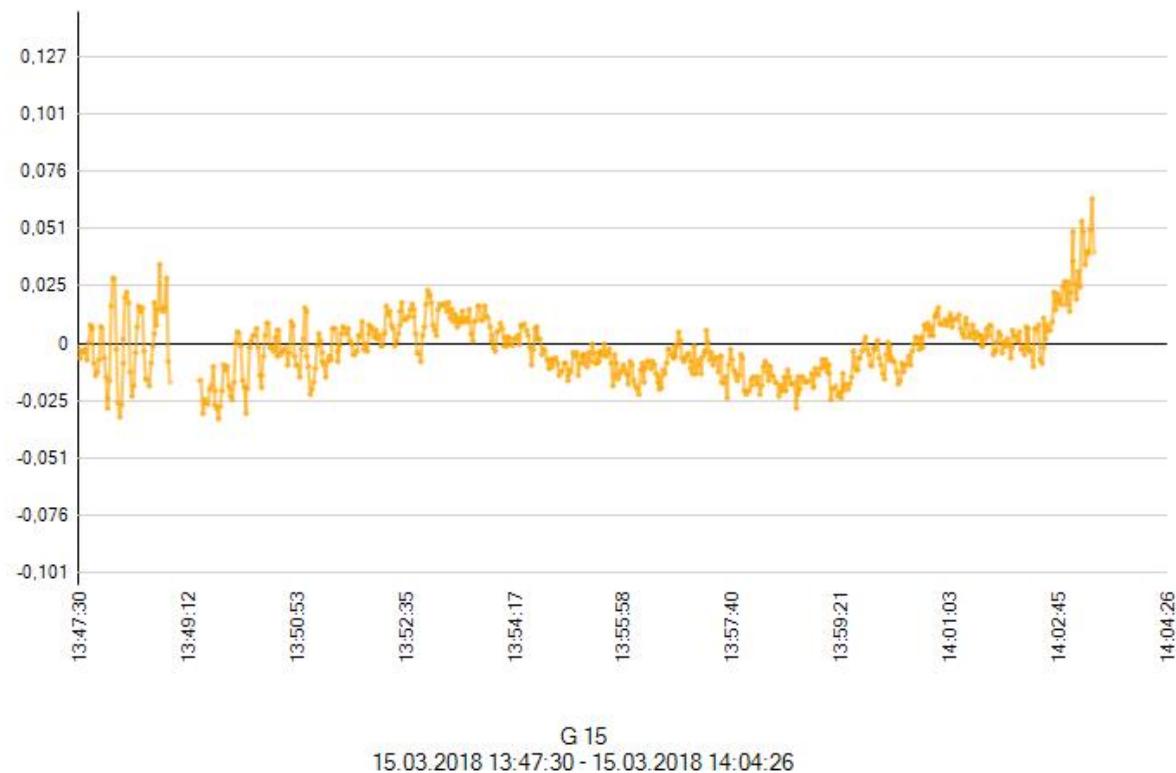
Mean = -0,008 m Std. Dev. = 0,016 m Min. = -0,053 m Max. = 0,037 m



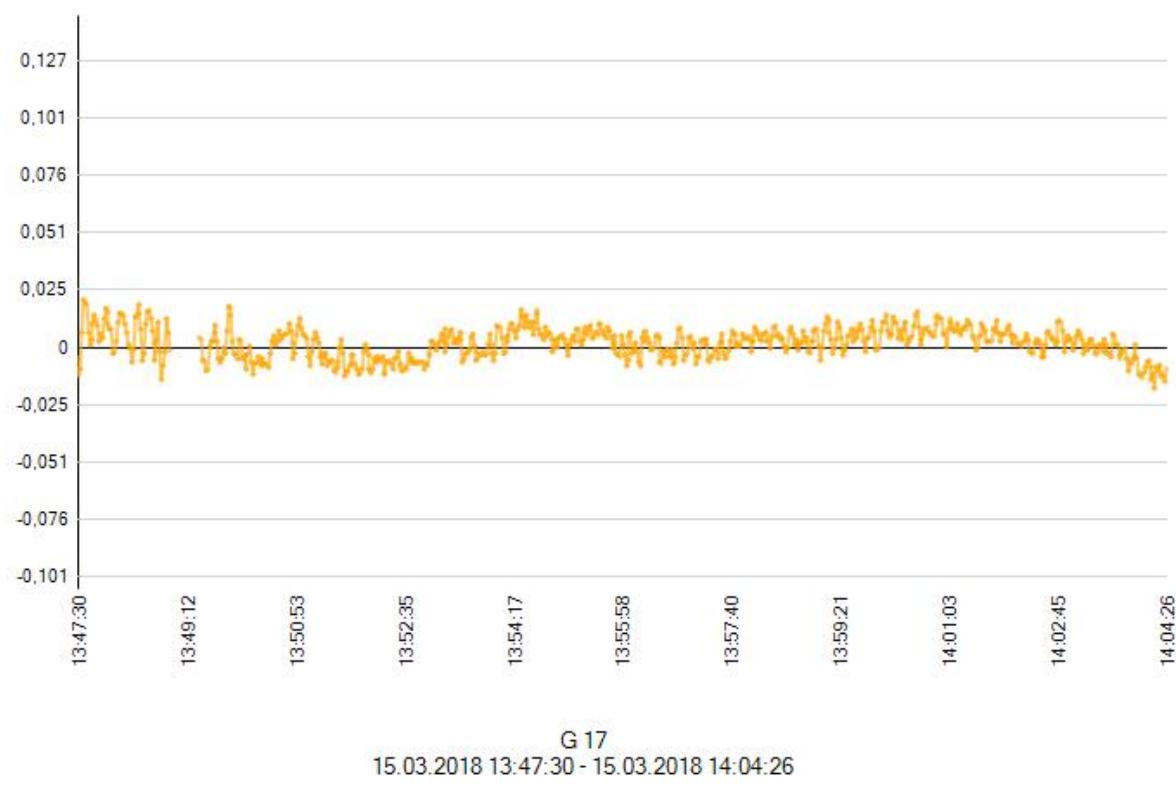
Mean = -0,008 m Std. Dev. = 0,020 m Min. = -0,072 m Max. = 0,147 m



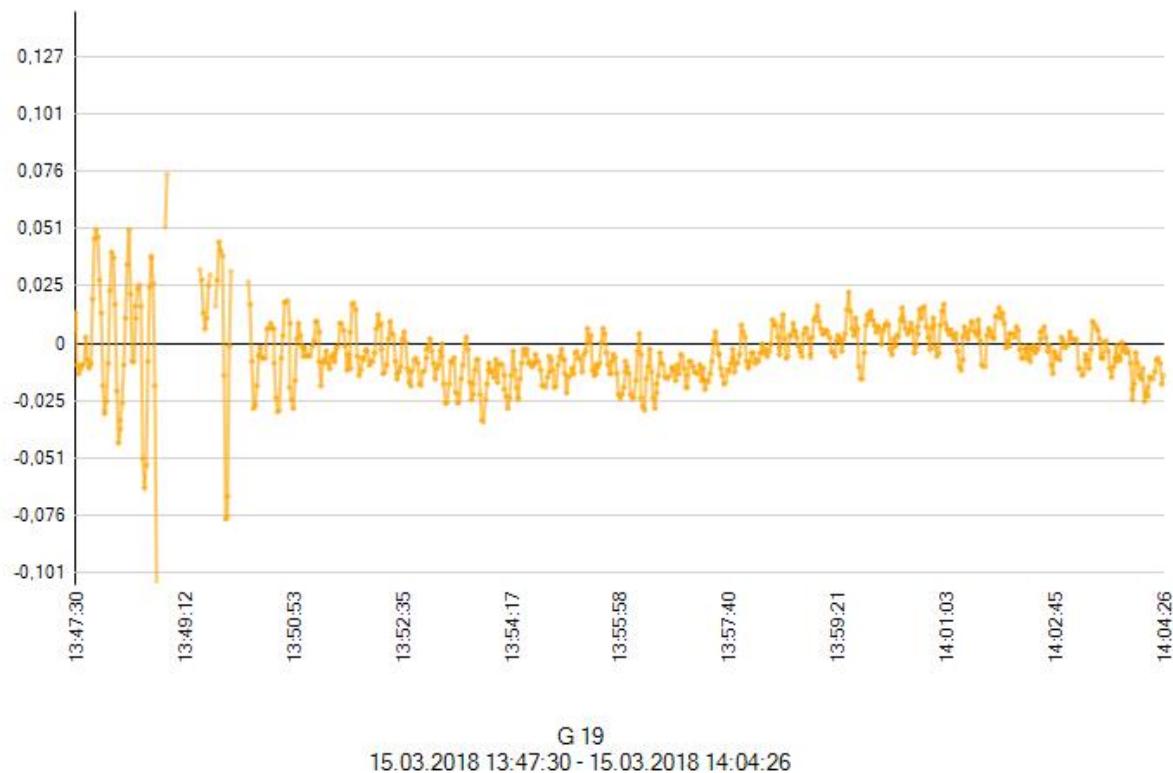
Mean = -0,002 m Std. Dev. = 0,013 m Min. = -0,033 m Max. = 0,064 m



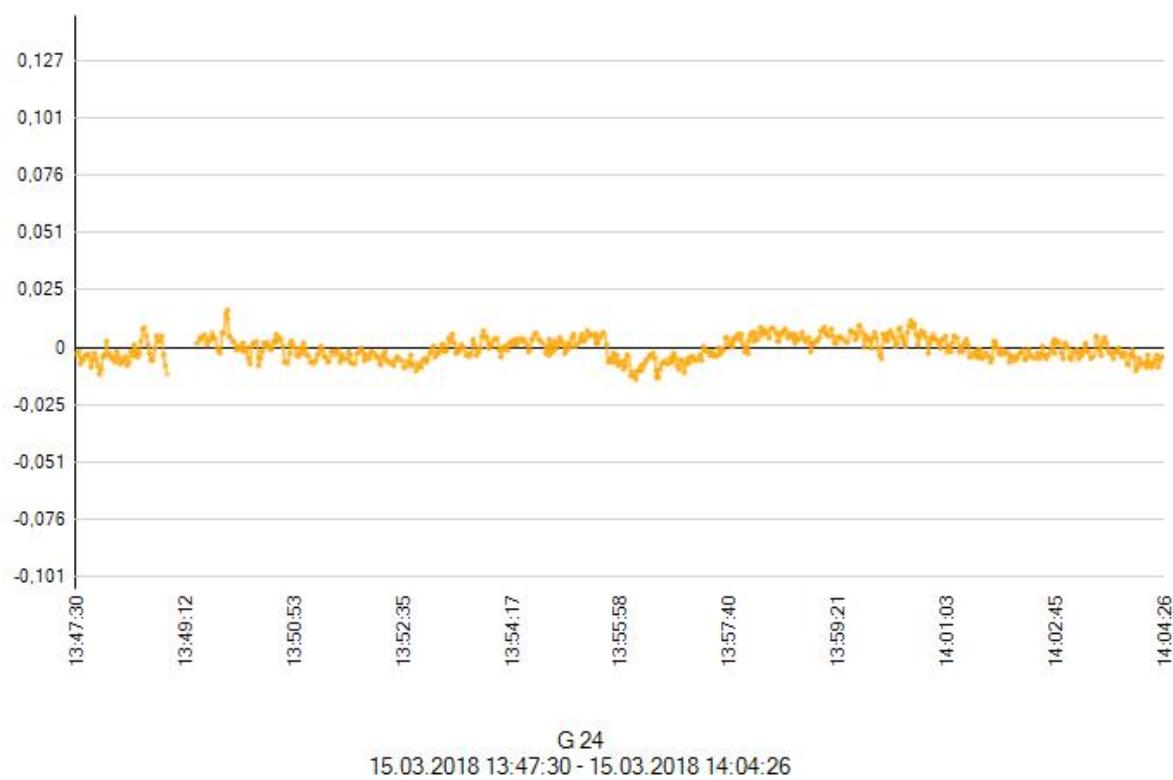
Mean = 0,002 m Std. Dev. = 0,006 m Min. = -0,018 m Max. = 0,021 m



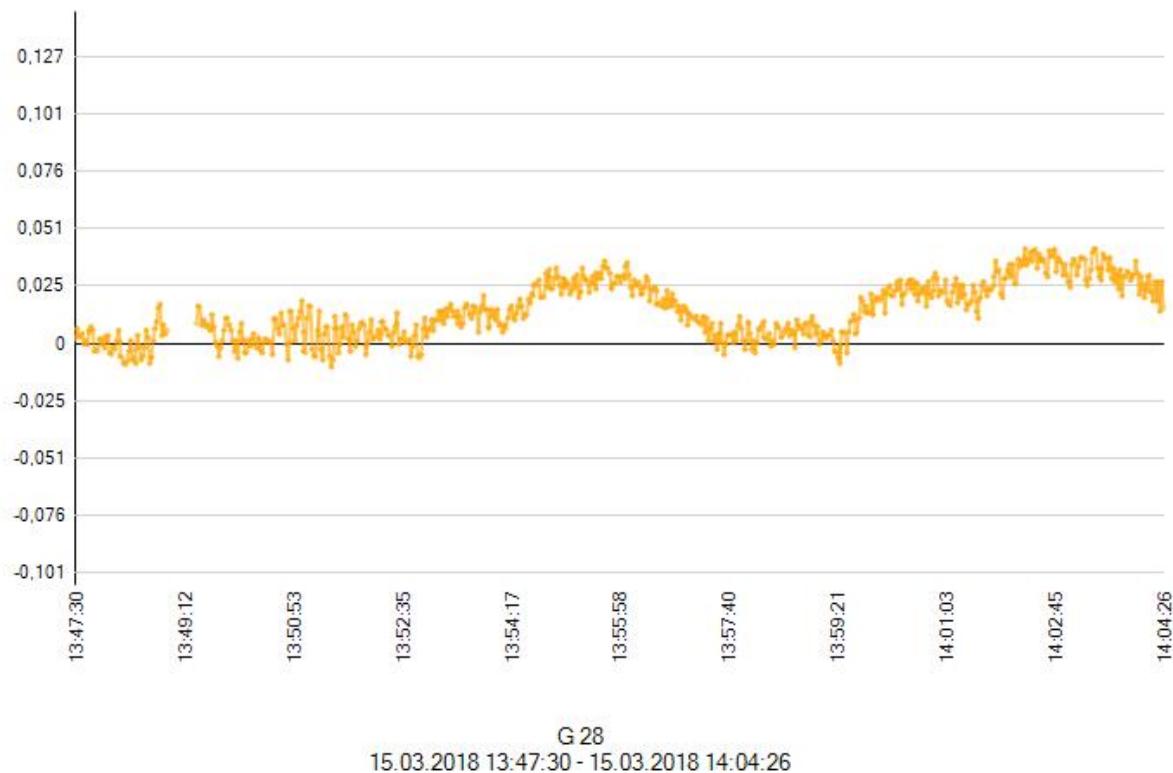
Mean = -0,004 m Std. Dev. = 0,014 m Min. = -0,106 m Max. = 0,075 m



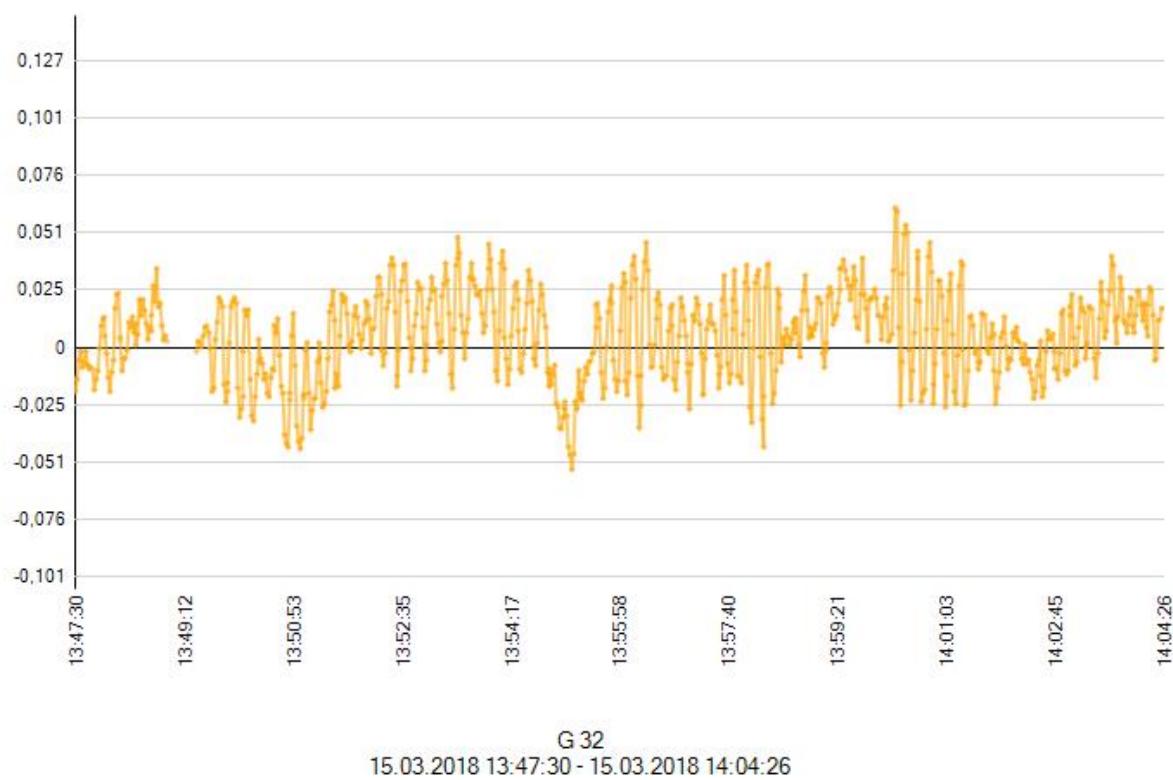
Mean = -0,001 m Std. Dev. = 0,005 m Min. = -0,014 m Max. = 0,017 m



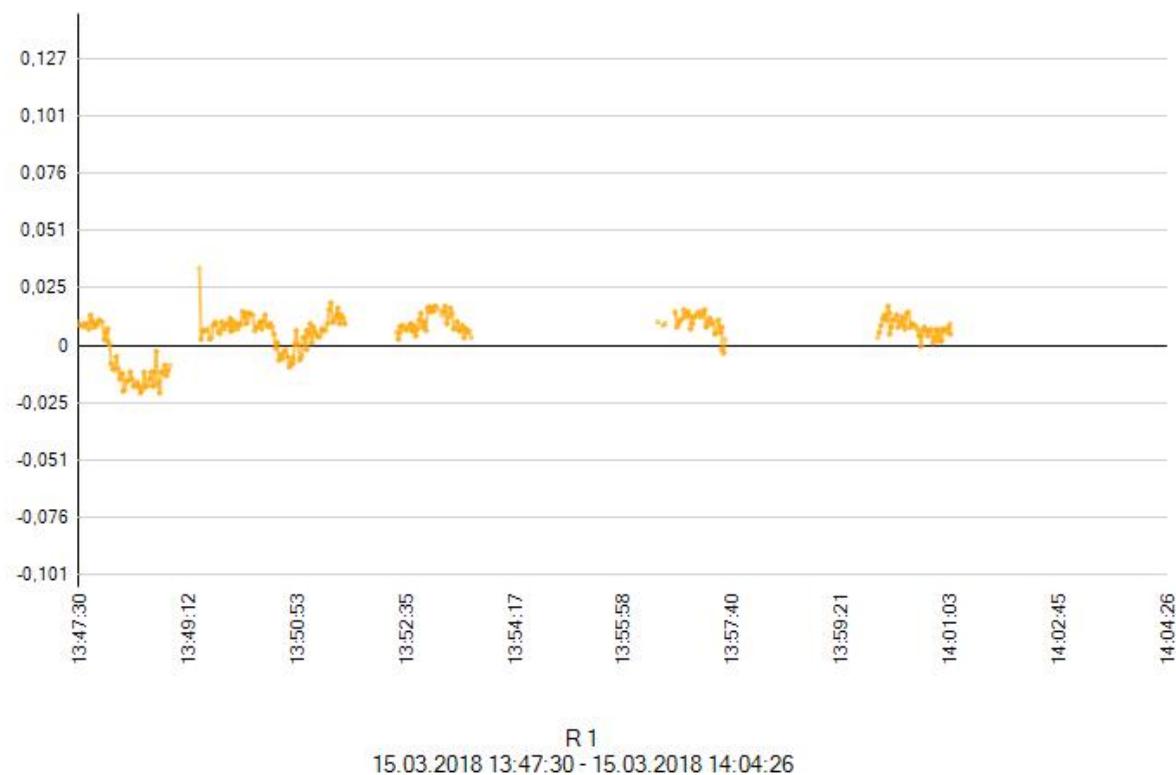
Mean = 0,014 m Std. Dev. = 0,012 m Min. = -0,011 m Max. = 0,042 m



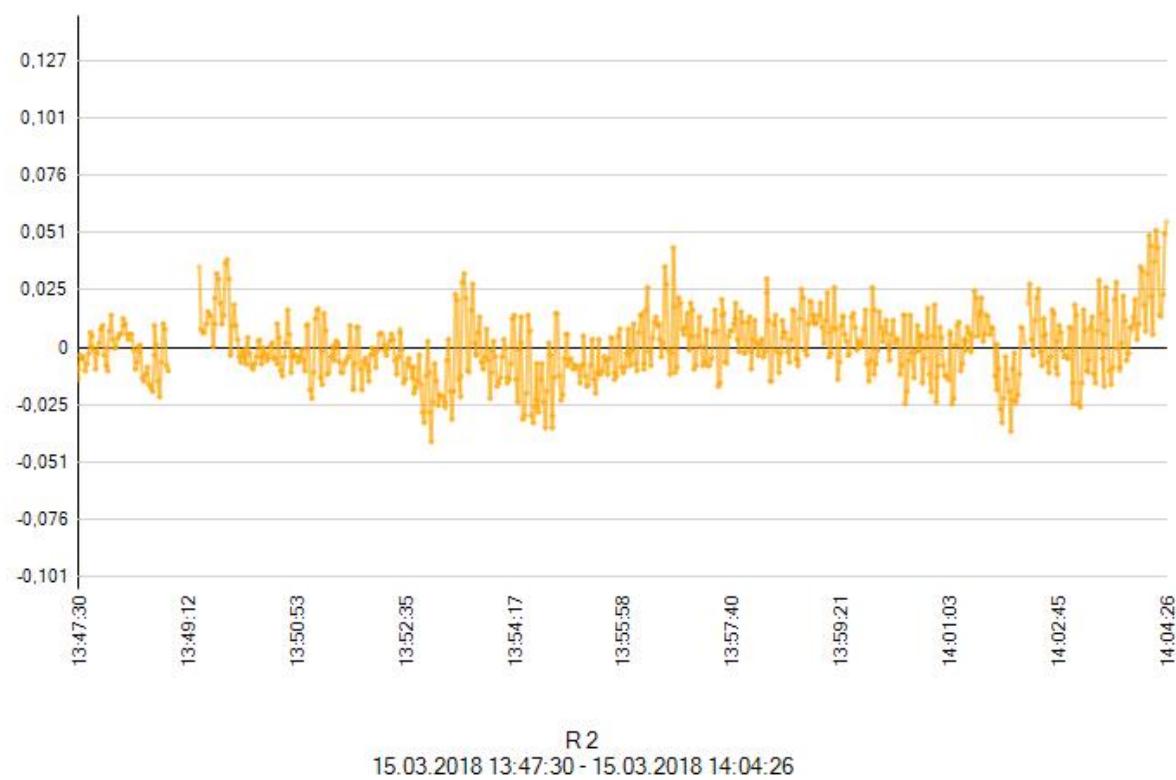
Mean = 0,005 m Std. Dev. = 0,018 m Min. = -0,054 m Max. = 0,062 m



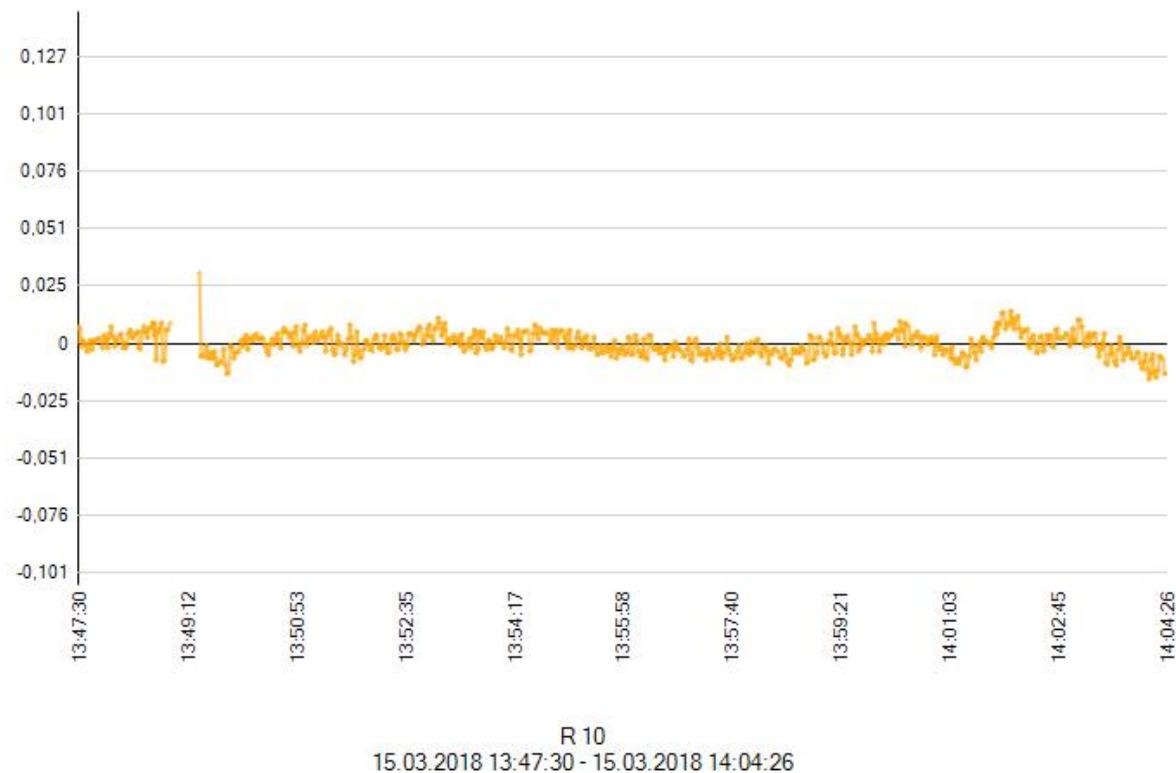
Mean = 0,005 m Std. Dev. = 0,009 m Min. = -0,021 m Max. = 0,034 m



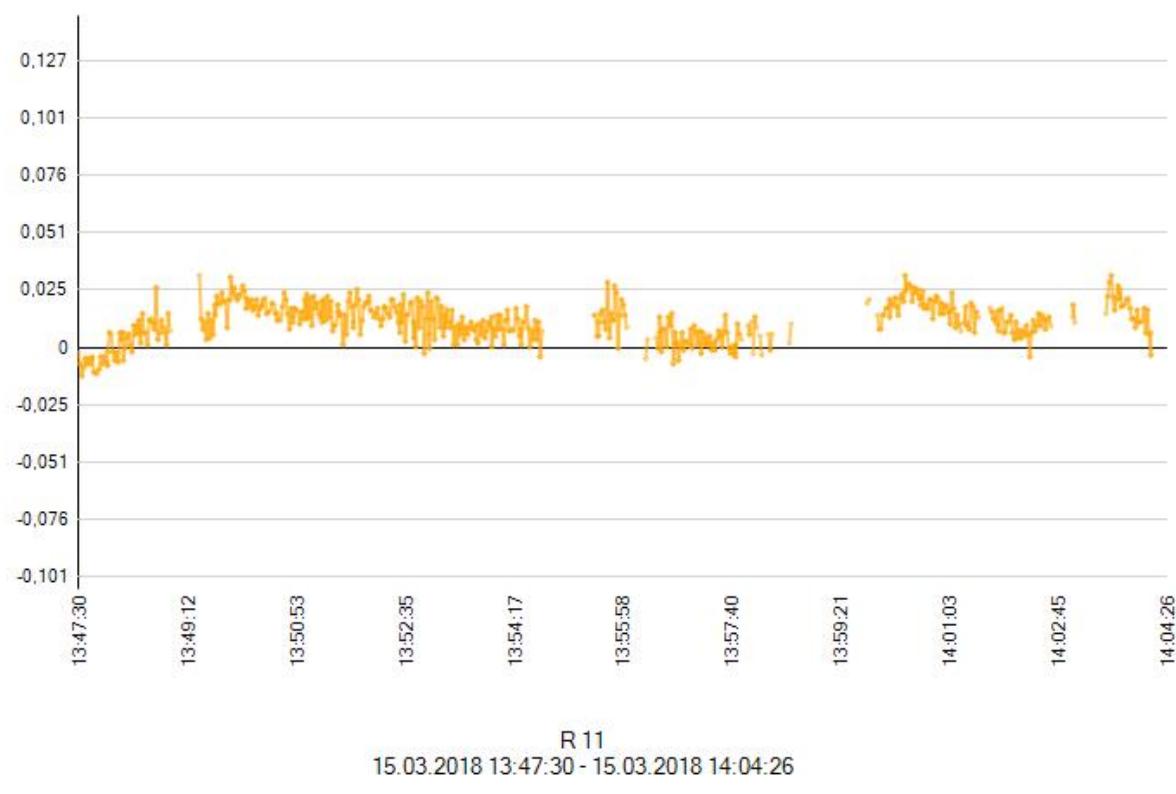
Mean = 0,000 m Std. Dev. = 0,013 m Min. = -0,042 m Max. = 0,056 m



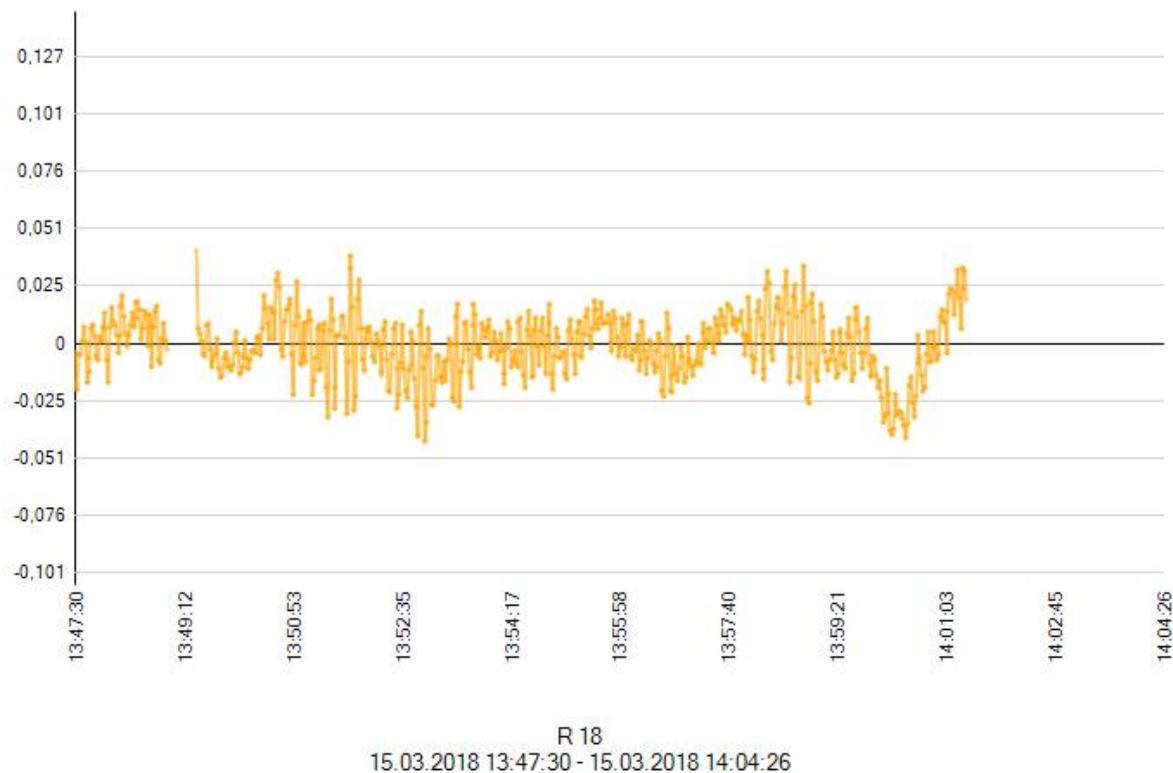
Mean = 0,000 m Std. Dev. = 0,005 m Min. = -0,016 m Max. = 0,031 m



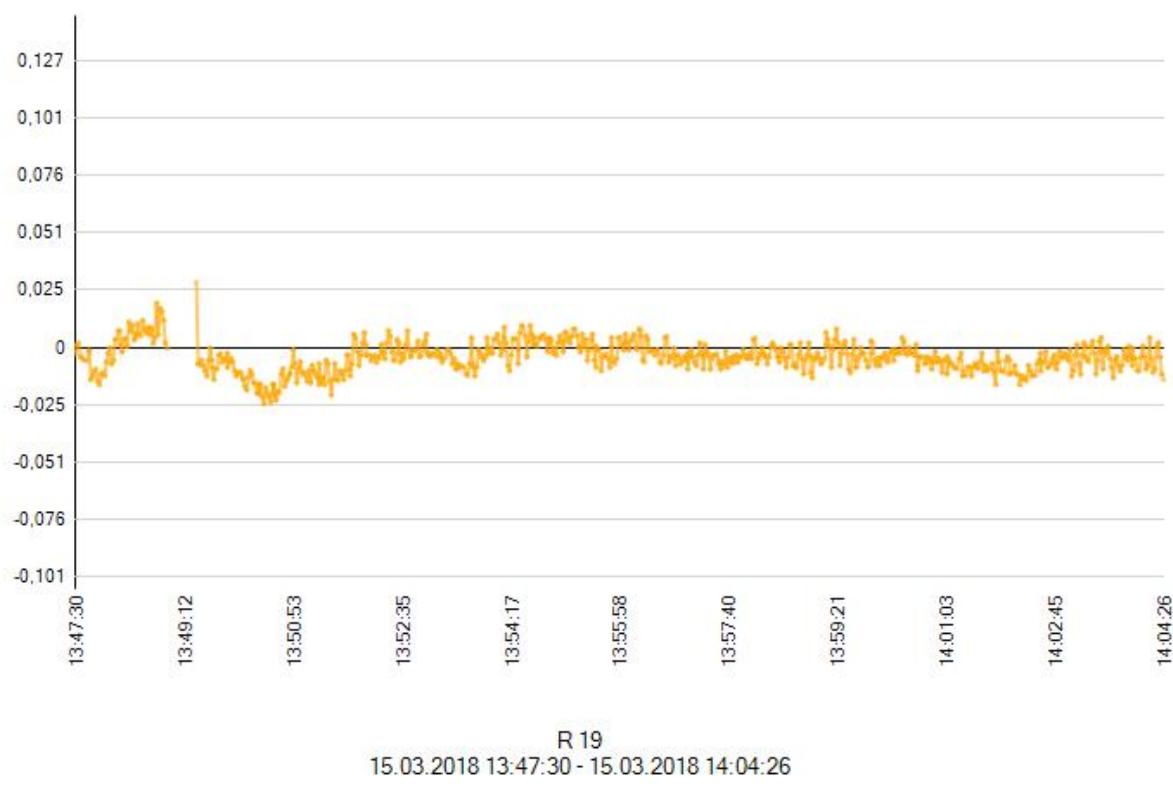
Mean = 0,010 m Std. Dev. = 0,008 m Min. = -0,012 m Max. = 0,032 m



Mean = -0,001 m Std. Dev. = 0,013 m Min. = -0,043 m Max. = 0,041 m



Mean = -0,004 m Std. Dev. = 0,006 m Min. = -0,025 m Max. = 0,029 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 - T6-2018 (15:07:35-15:22:40) (S4)

Baseline observation: LYRS --- T6-2018 (B4)
 Processed: 23.03.2018 15:35:53
 Solution type: Fixed
 Frequency used: Dual Frequency (L1, L2)
 Horizontal precision: 0,009 m
 Vertical precision: 0,036 m
 RMS: 0,002 m
 Maximum PDOP: 1,943
 Ephemeris used: Broadcast
 Antenna model: Trimble Calibration
 Processing start time: 15.03.2018 15:07:35 (Local: UTC+1hr)
 Processing stop time: 15.03.2018 15:22:40 (Local: UTC+1hr)
 Processing duration: 12:15:05 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:	T6-2018				
Grid		Local		Global	
Easting	526246,574 m	Latitude	N78°15'04,69053"	Latitude	N78°15'04,69053"
Northing	8686674,332 m	Longitude	E16°09'17,07068"	Longitude	E16°09'17,07068"
Elevation	561,892 m	Height	561,892 m	Height	561,892 m

Vector					
9Ughjb[17198,436 m	NS Fwd Azimuth	81°20'51"	L	-7039,028 m
Bcfh]b[2736,764 m	Ellipsoid Dist.	17421,721 m	M	15927,669 m
9Yj Uhcb	66,210 m	<Y][\h	66,210 m	N	576,333 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	0,018 m	<Y][\h	0,018 m	N	0,018 m

Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0,0000139908		
Y	-0,0000003455	0,0000082704	
Z	0,0000310915	0,0000042489	0,0003314432

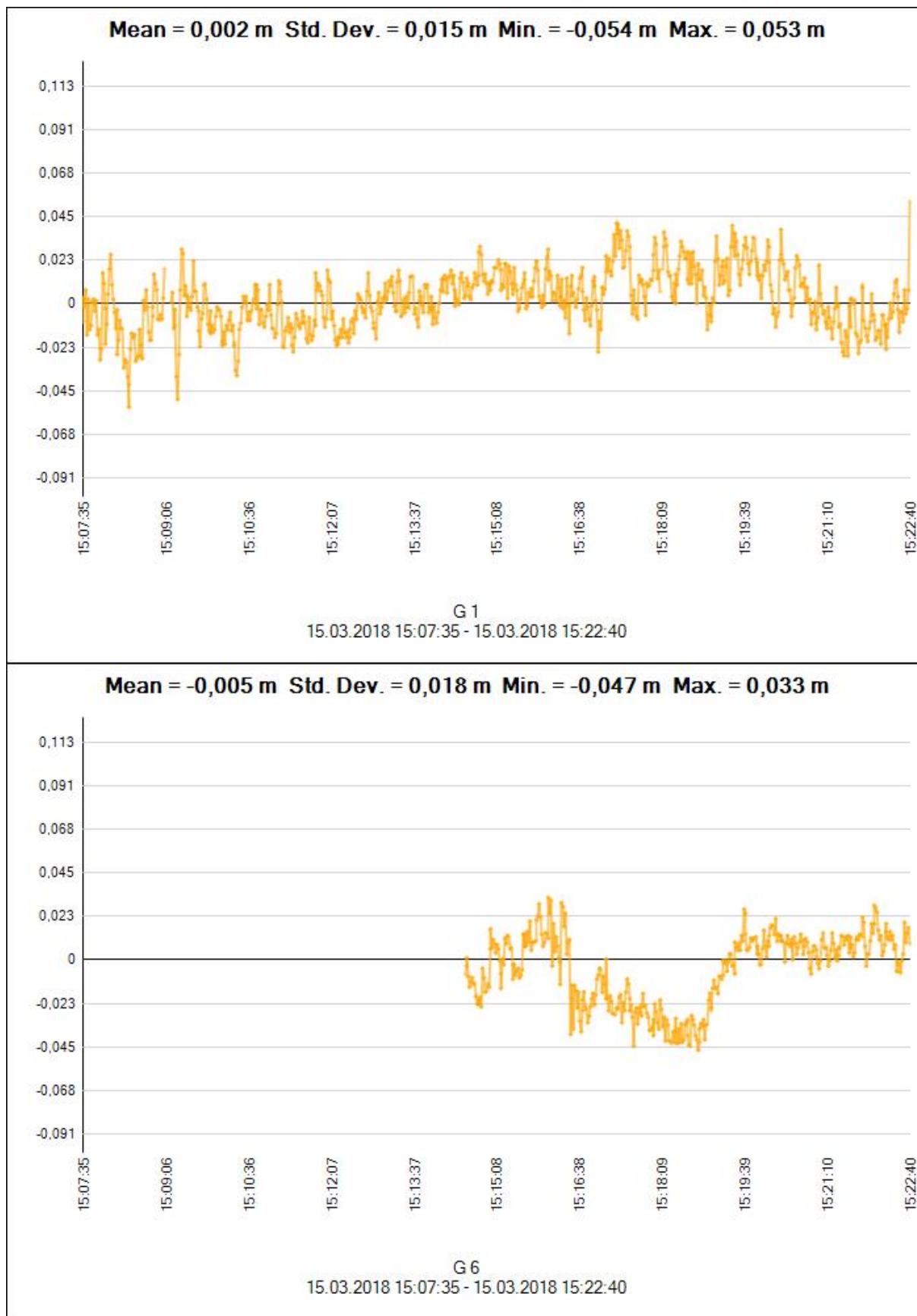
Occupations

	From	To
Point ID:	LYRS	T6-2018
Data file:	C:\Users\lth842\Documents\Trimble Business Center\Unnamed\lyrs0740.18o	C:\Users\lth842\Documents\Trimble Business Center\Unnamed\46250741.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	1,950 m
Antenna method:	Bottom of antenna mount	Bottom of antenna mount

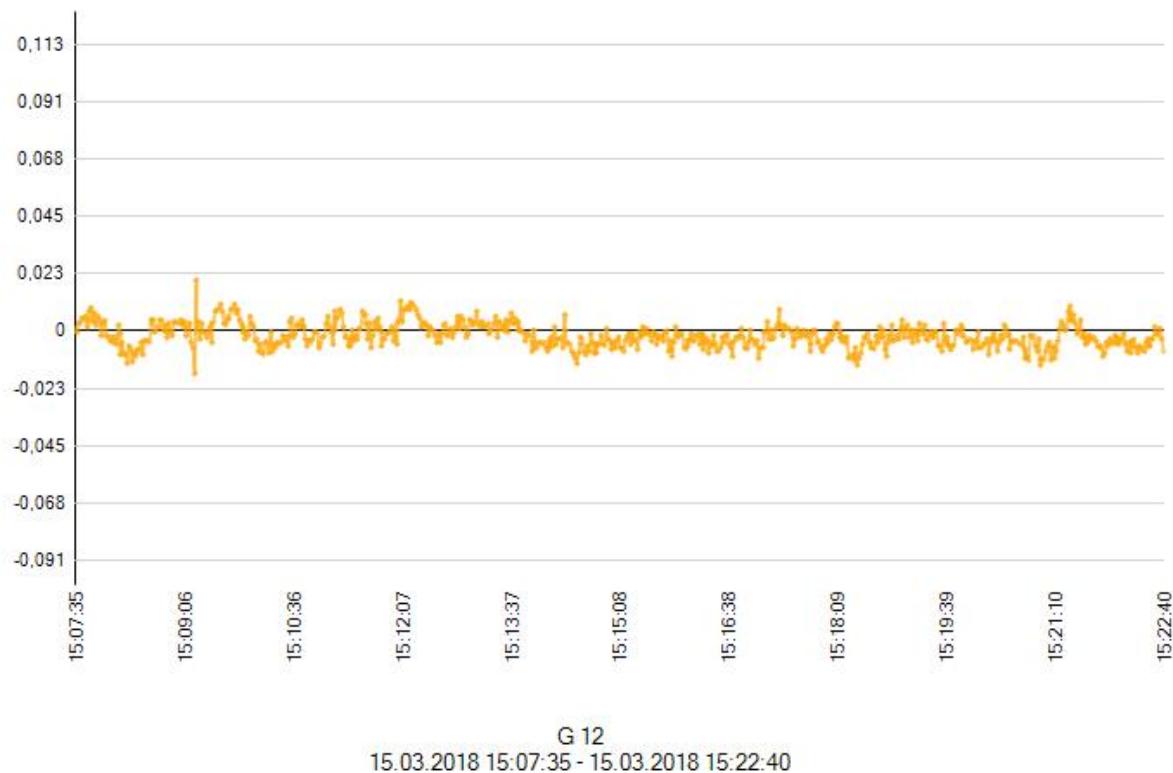
Tracking Summary

SV	15.03.2018 15:07:35	Duration: 00:15:05	Major interval: 00:01:00	15.03.2018 15:22:40
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 1	L1 L2	—		
R 2	L1 L2			
R 3	L1 L2			
R 10	L1 L2			
R 11	L1 L2	—	—	—
R 12	L1	—		
R 19	L1 L2			
R 20	L1 L2			

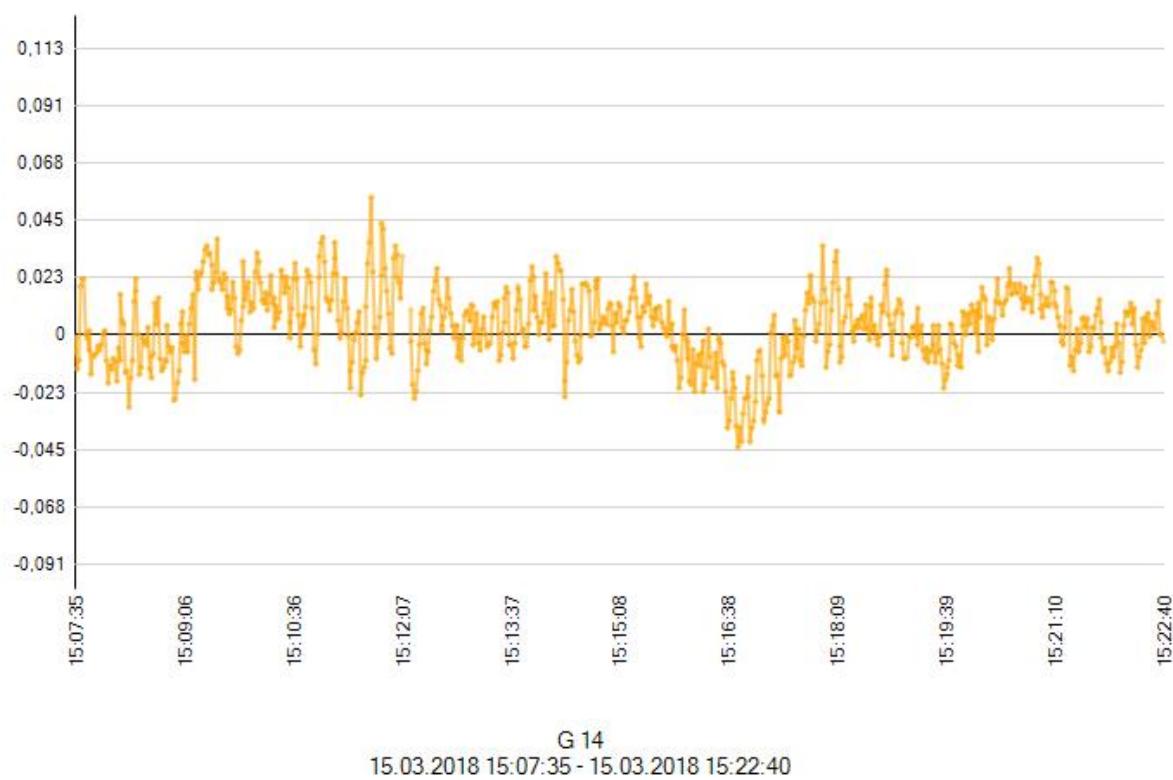
Residuals



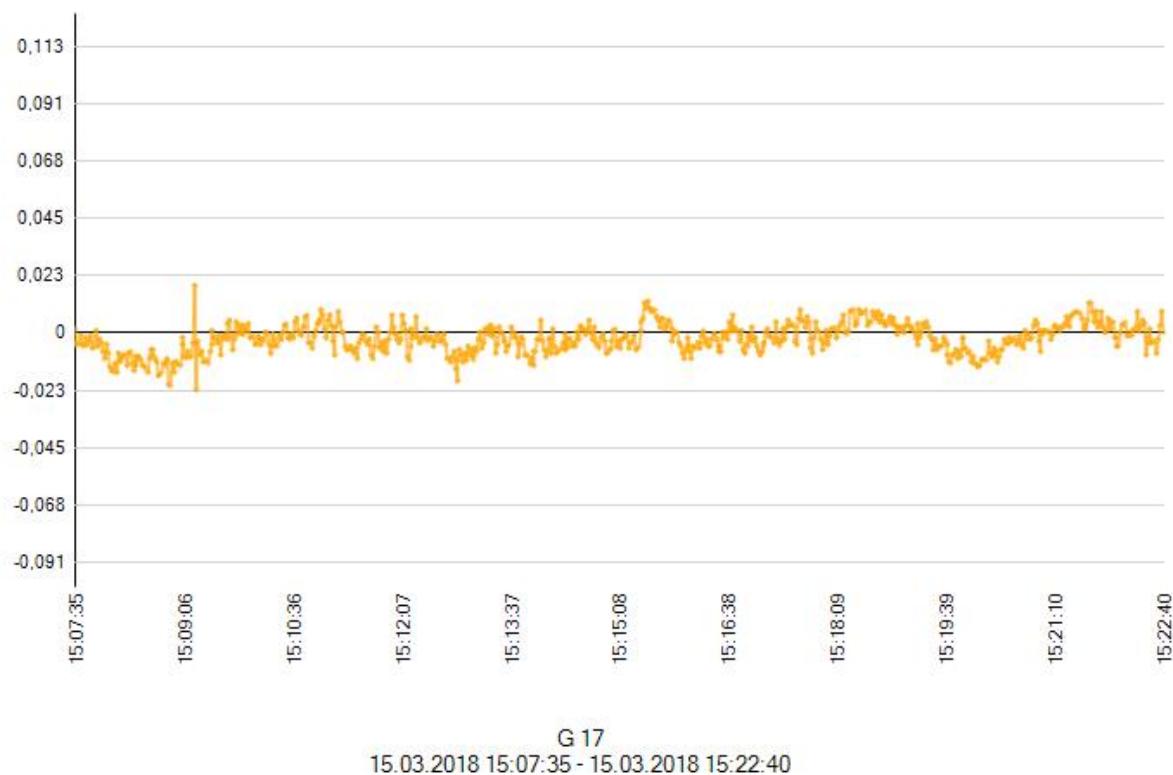
Mean = -0,002 m Std. Dev. = 0,004 m Min. = -0,017 m Max. = 0,020 m



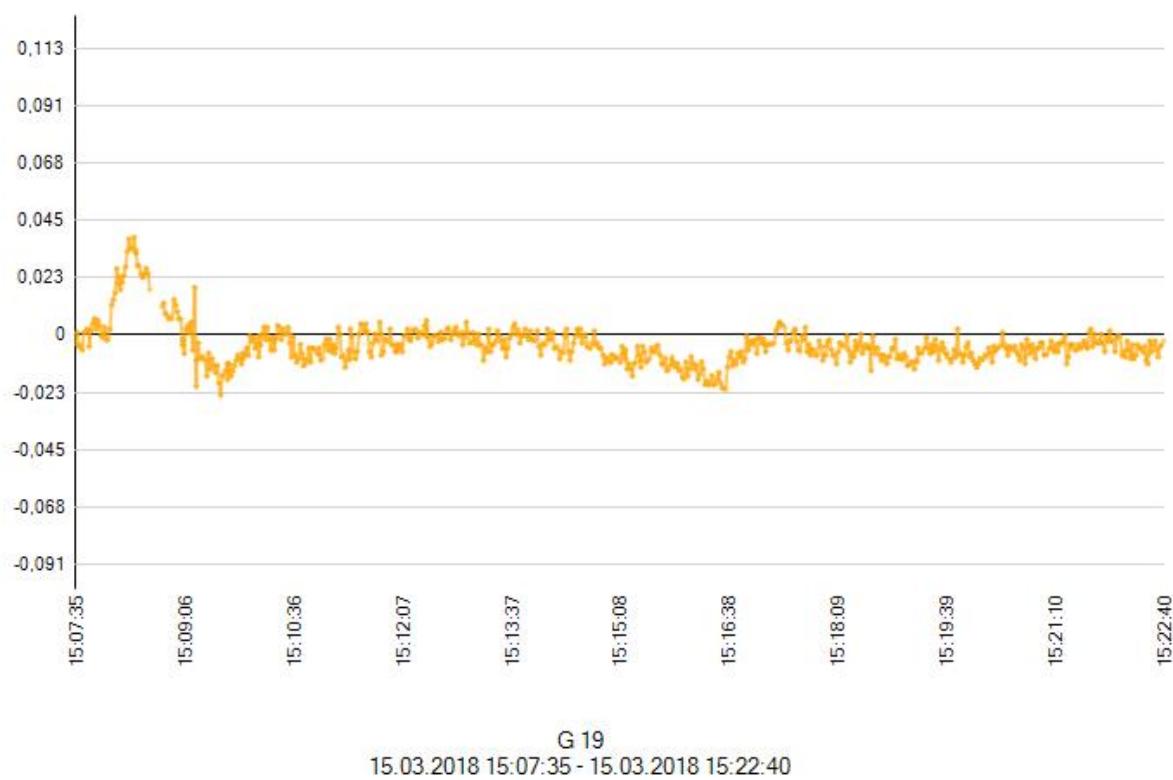
Mean = 0,004 m Std. Dev. = 0,014 m Min. = -0,044 m Max. = 0,055 m



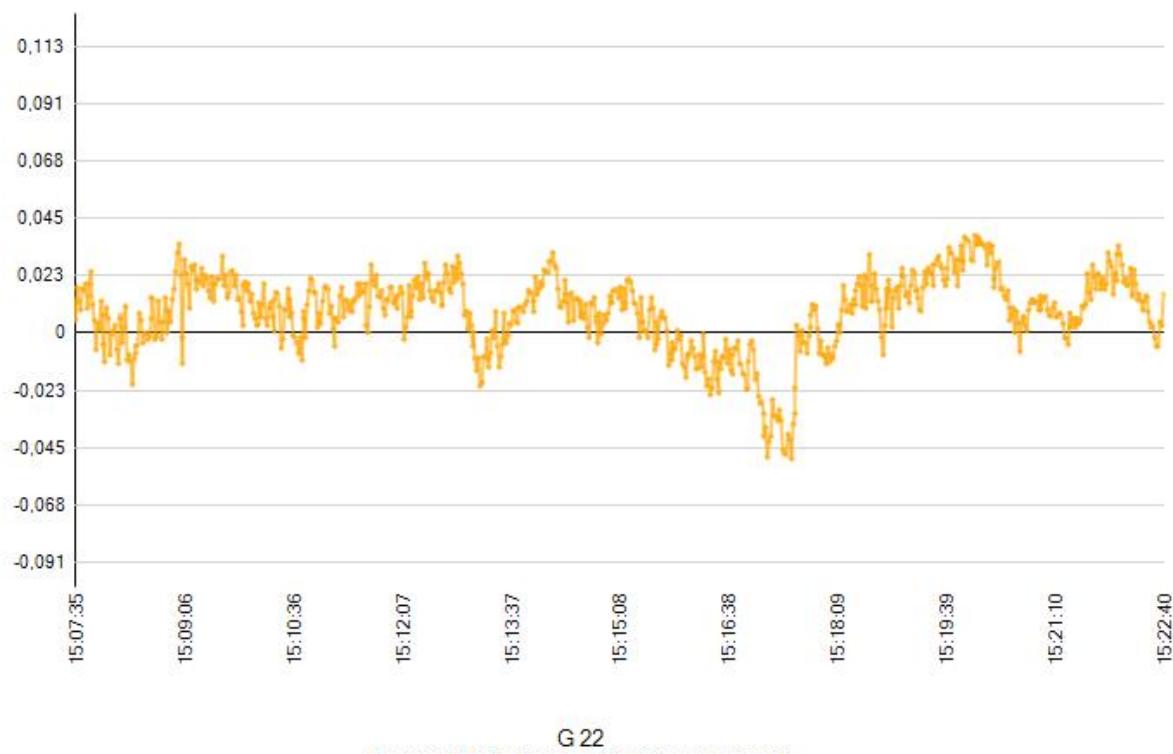
Mean = -0,002 m Std. Dev. = 0,006 m Min. = -0,022 m Max. = 0,019 m



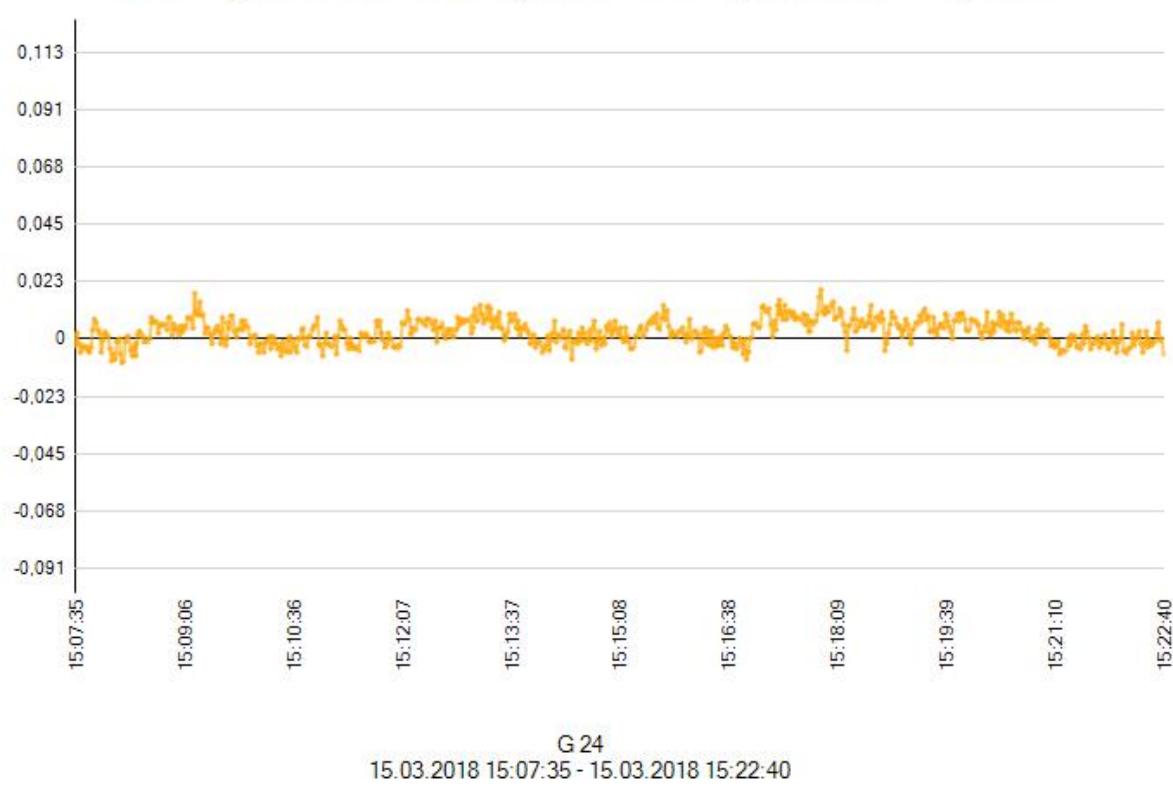
Mean = -0,004 m Std. Dev. = 0,008 m Min. = -0,024 m Max. = 0,039 m



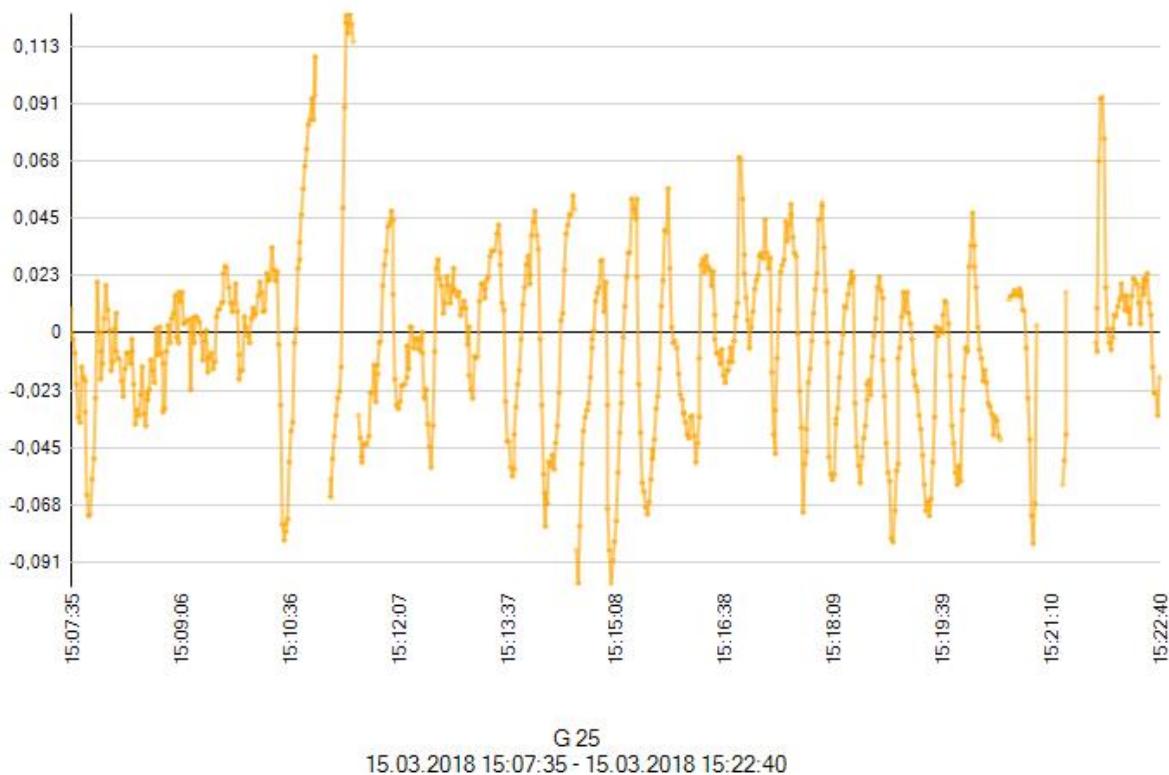
Mean = 0,008 m Std. Dev. = 0,015 m Min. = -0,050 m Max. = 0,039 m



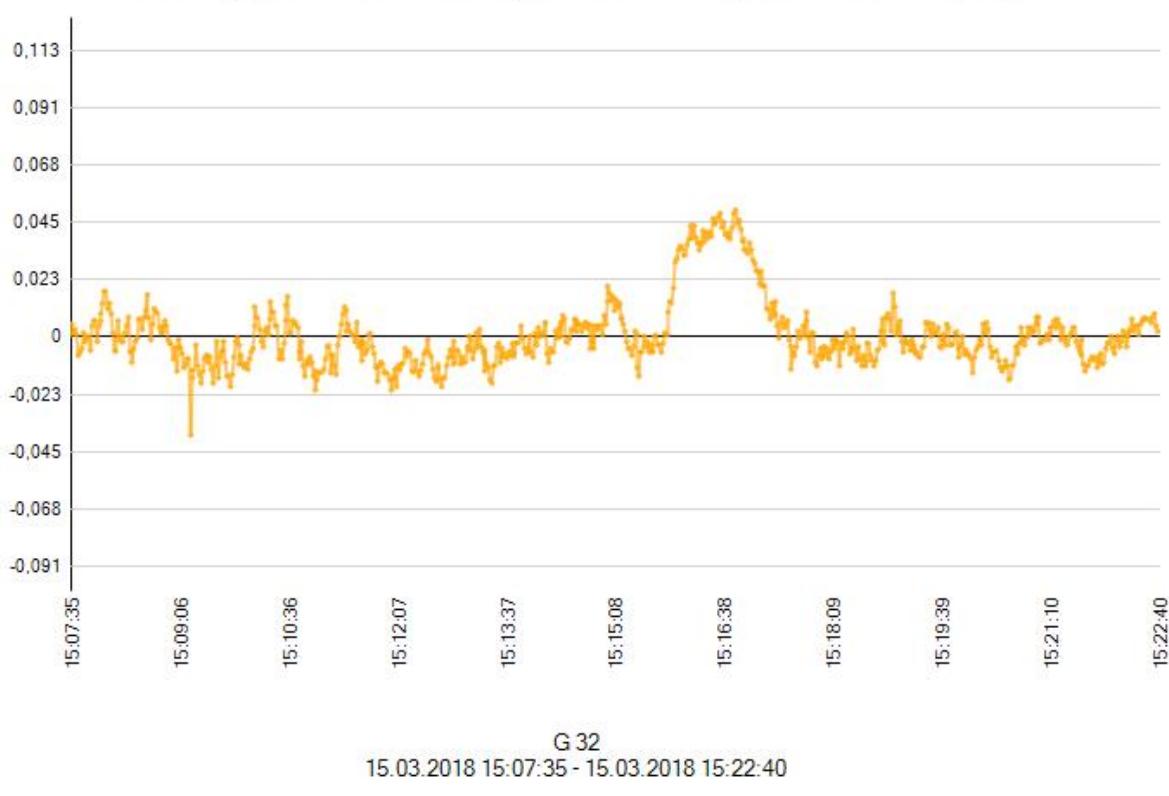
Mean = 0,003 m Std. Dev. = 0,005 m Min. = -0,010 m Max. = 0,020 m



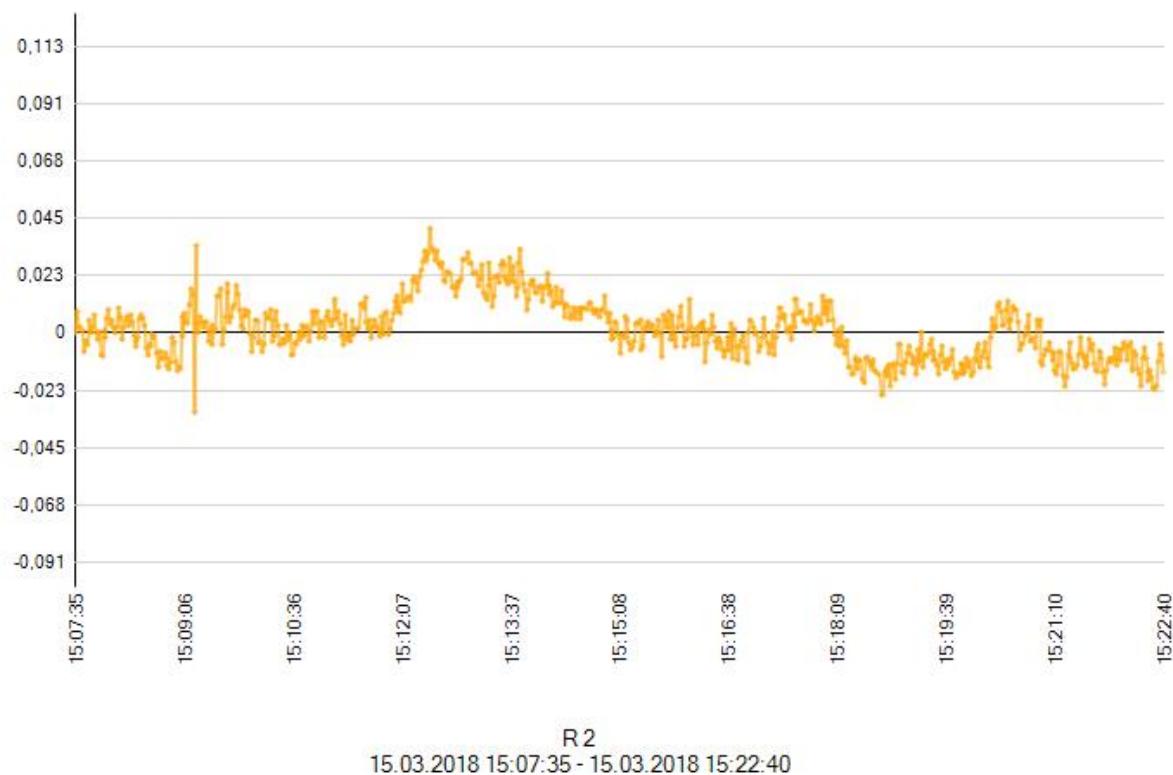
Mean = -0,004 m Std. Dev. = 0,035 m Min. = -0,100 m Max. = 0,127 m



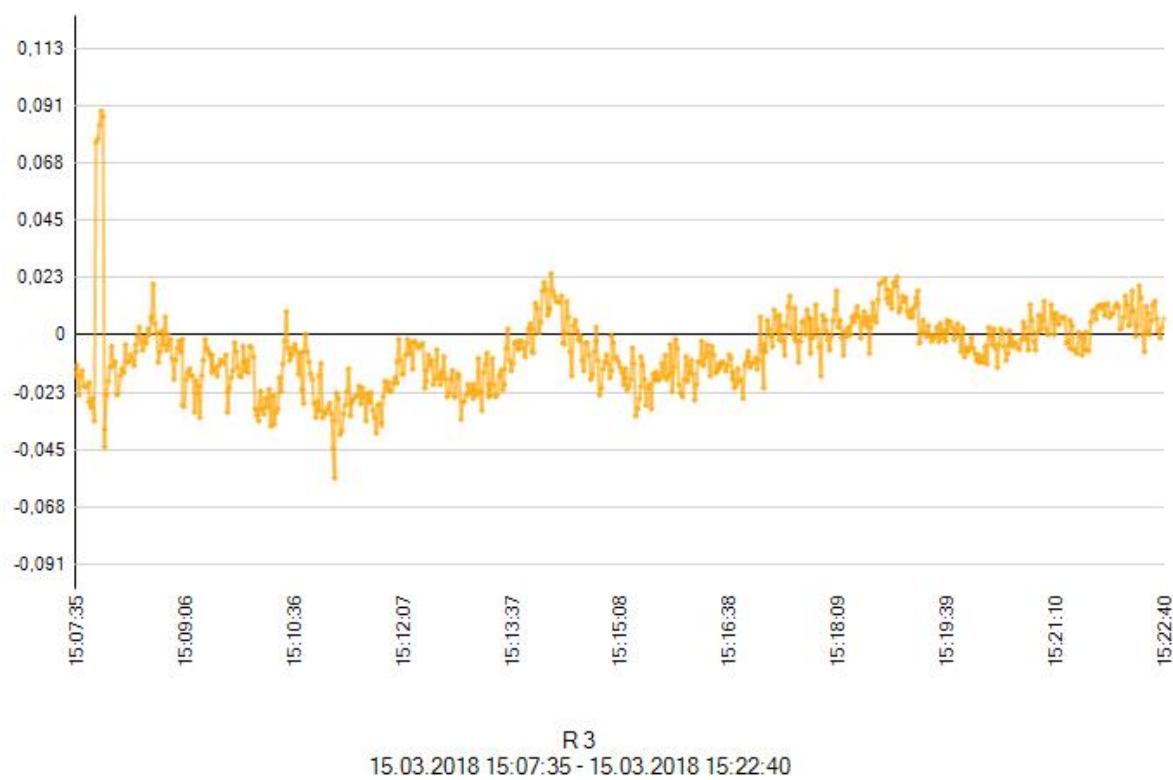
Mean = 0,001 m Std. Dev. = 0,013 m Min. = -0,039 m Max. = 0,050 m



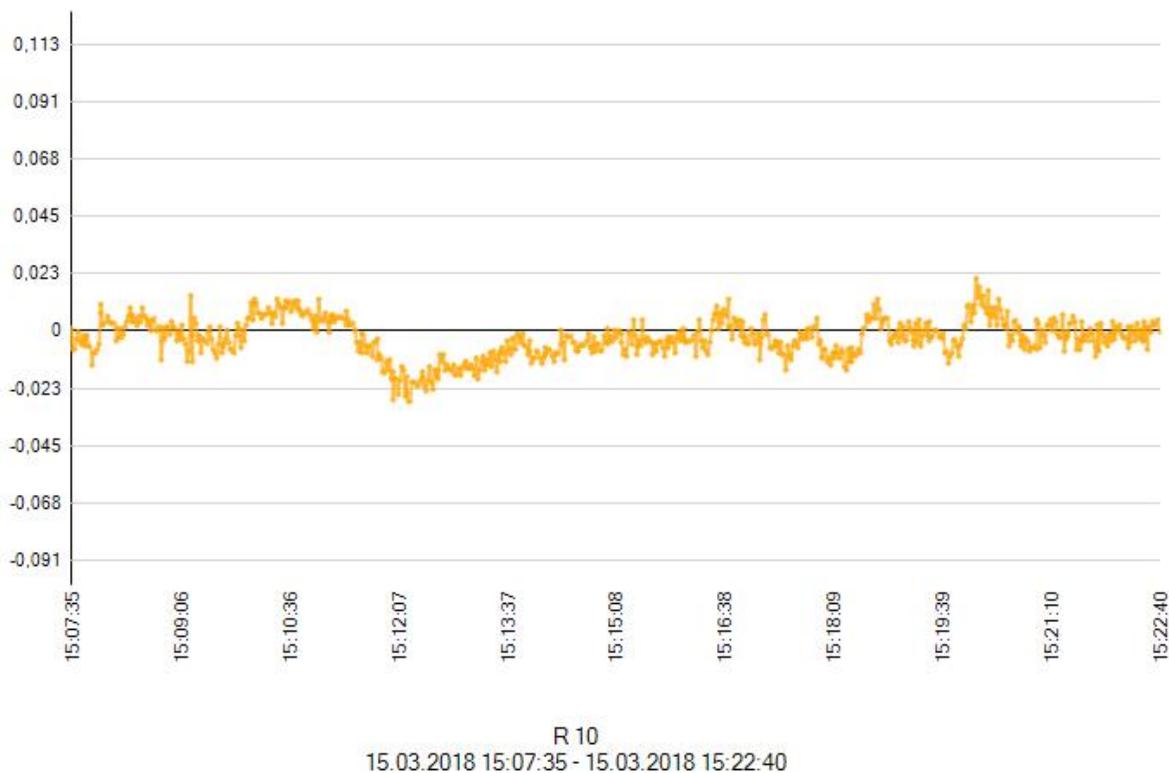
Mean = 0,002 m Std. Dev. = 0,011 m Min. = -0,031 m Max. = 0,041 m



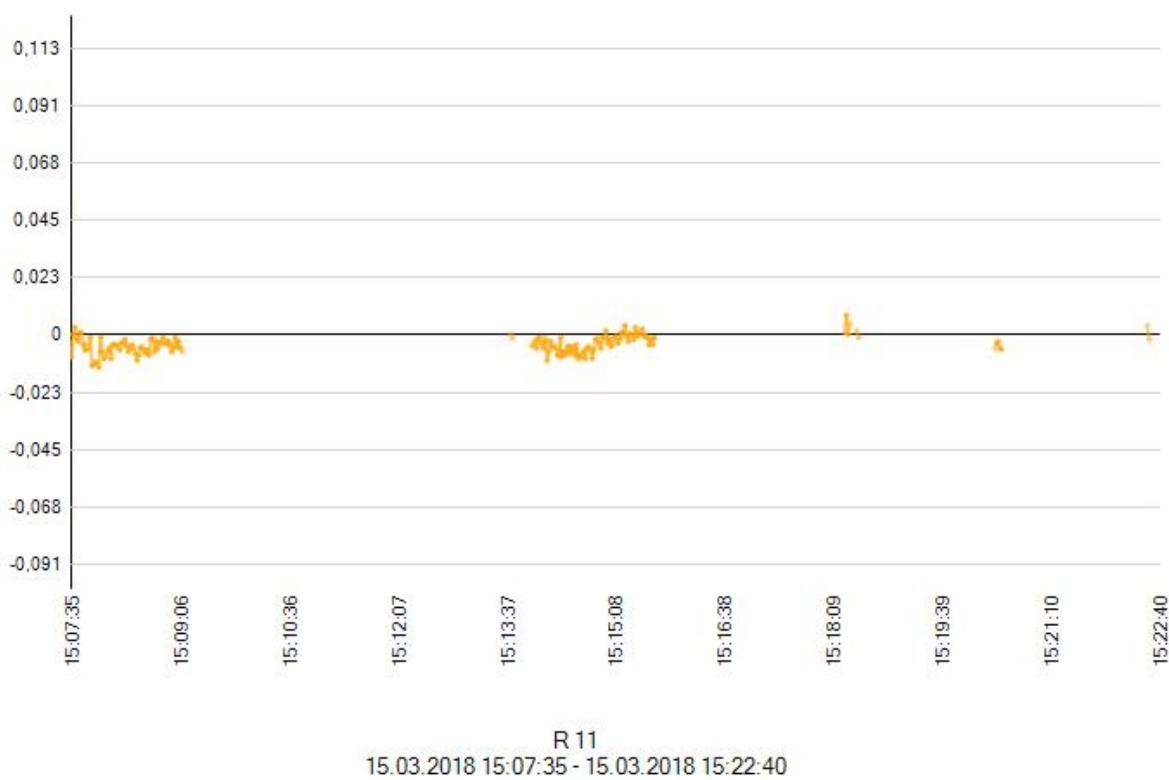
Mean = -0,006 m Std. Dev. = 0,015 m Min. = -0,056 m Max. = 0,089 m



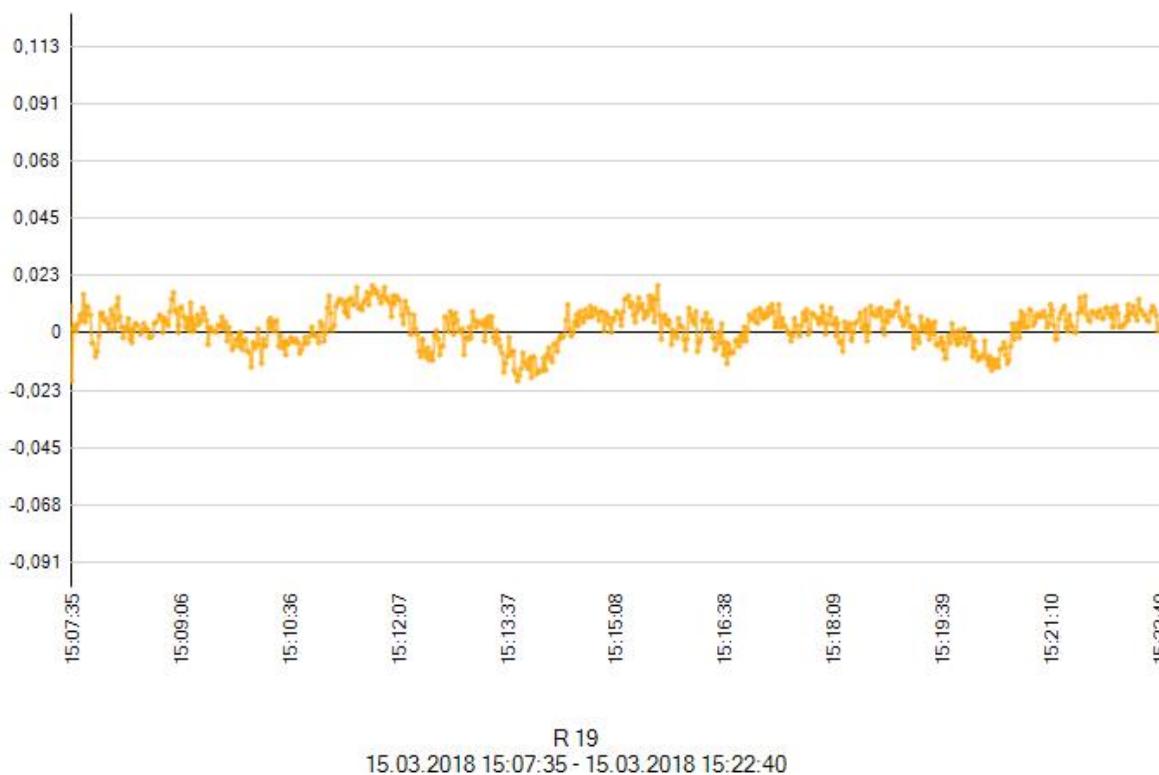
Mean = -0,003 m Std. Dev. = 0,007 m Min. = -0,028 m Max. = 0,021 m



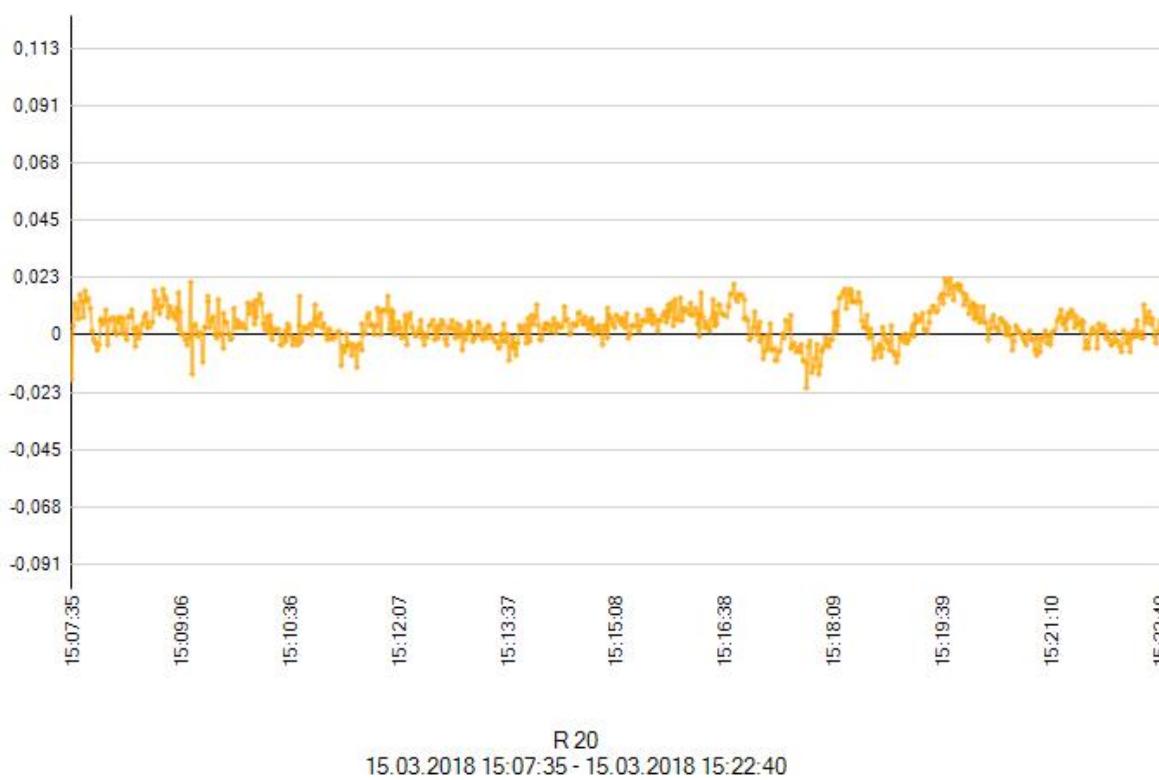
Mean = -0,003 m Std. Dev. = 0,003 m Min. = -0,013 m Max. = 0,008 m



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



Mean = 0,003 m Std. Dev. = 0,006 m Min. = -0,021 m Max. = 0,022 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 - T5-2018 (14:41:28-14:56:53) (S3)

Baseline observation: LYRS --- T5-2018 (B3)
 Processed: 23.03.2018 15:36:02
 Solution type: Fixed
 Frequency used: Dual Frequency (L1, L2)
 Horizontal precision: 0,013 m
 Vertical precision: 0,064 m
 RMS: 0,002 m
 Maximum PDOP: 4,992
 Ephemeris used: Broadcast
 Antenna model: Trimble Calibration
 Processing start time: 15.03.2018 14:41:28 (Local: UTC+1hr)
 Processing stop time: 15.03.2018 14:56:53 (Local: UTC+1hr)
 Processing duration: 12:15:25 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:	T5-2018				
Grid		Local		Global	
Easting	526690,761 m	Latitude	N78°15'12,89926"	Latitude	N78°15'12,89926"
Northing	8686937,702 m	Longitude	E16°10'28,24121"	Longitude	E16°10'28,24121"
Elevation	535,258 m	Height	535,258 m	Height	535,258 m

Vector					
9Ughjb[17642,623 m	NS Fwd Azimuth	80°44'17"	L	-7408,804 m
Bcfh]b[3000,134 m	Ellipsoid Dist.	17902,977 m	M	16288,545 m
9Yj Uhcb	39,576 m	<Y][\h	39,576 m	N	602,093 m

Standard Errors

Vector errors:

9Ughb[0,005 m	'BG 'ZK X'5n]a i h	0°00'00"	L	0,007 m
Bcfh]b[0,005 m	'9``]dgc]X 8]gh	0,005 m	M	0,004 m
9`Yj Uhcb	0,032 m	<Y][\h	0,032 m	N	0,032 m

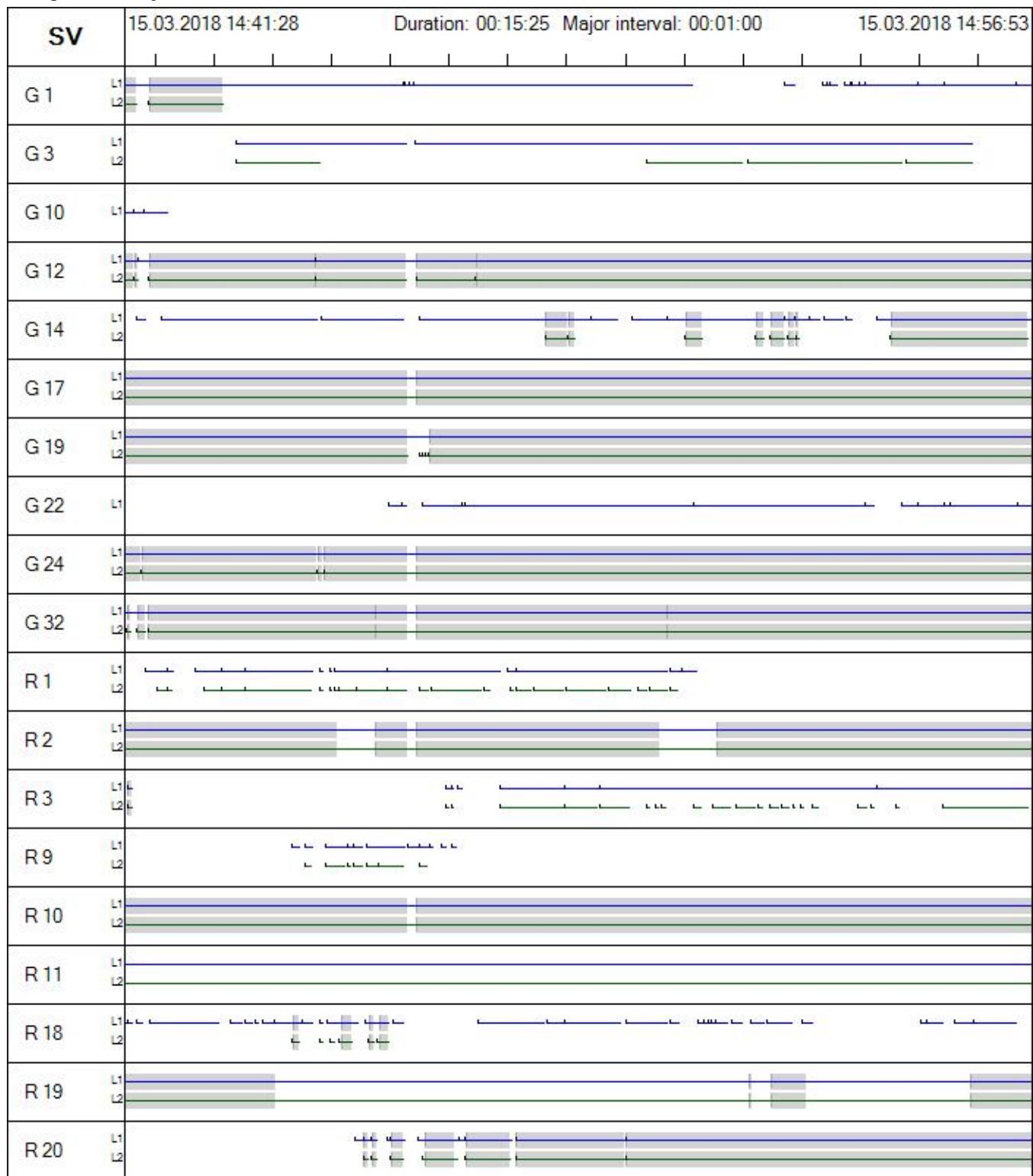
Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0,0000474585		
Y	-0,0000043700	0,0000174252	
Z	0,0001527021	-0,0000312127	0,0010354921

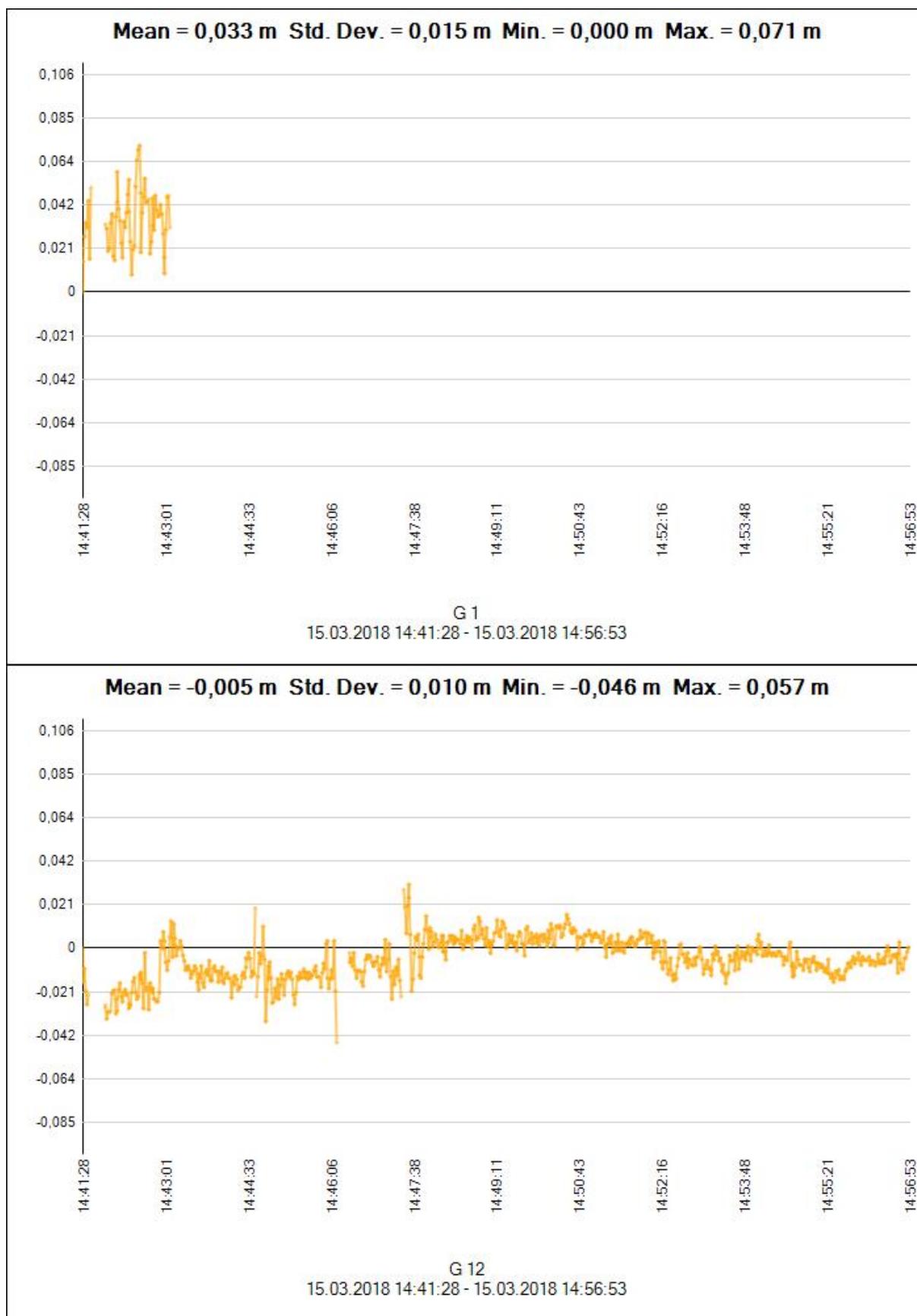
Occupations

	From	To
Point ID:	LYRS	T5-2018
Data file:	C:\Users\lth842\Documents\Trimble Business Center\Unnamed\lyrs0740.18o	C:\Users\lth842\Documents\Trimble Business Center\Unnamed\4625074H.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	0,450 m
Antenna method:	Bottom of antenna mount	Bottom of antenna mount

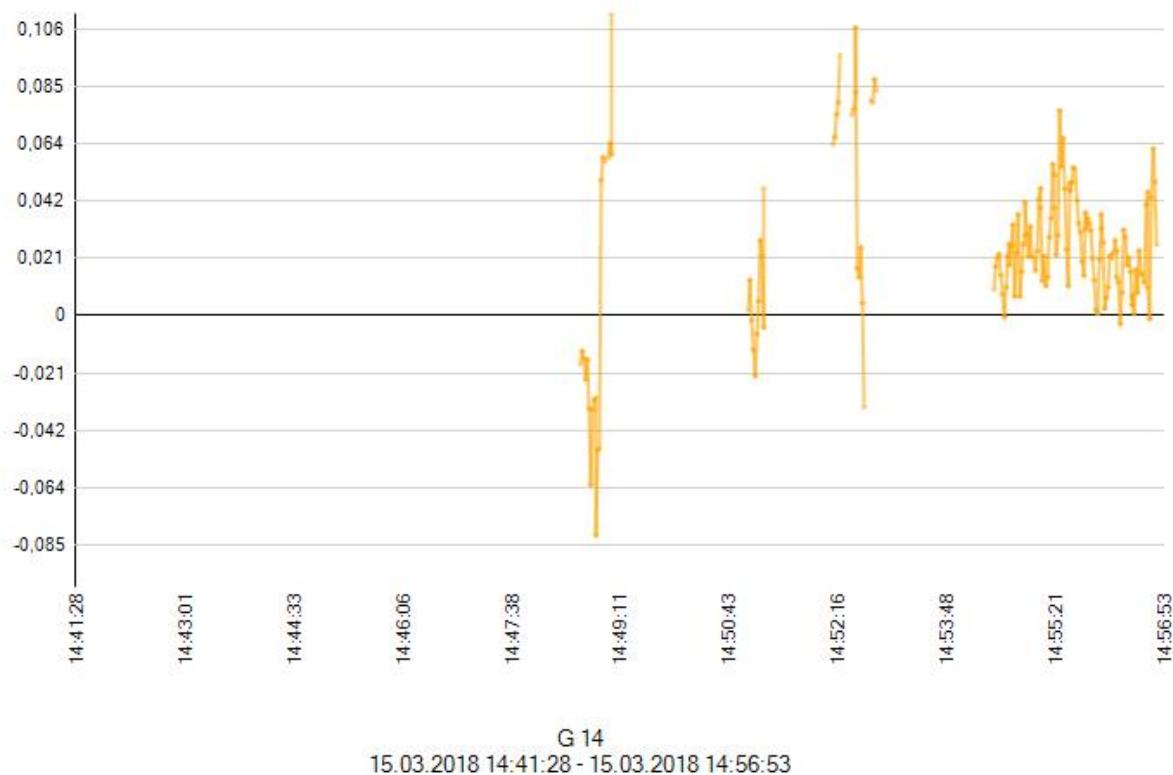
Tracking Summary



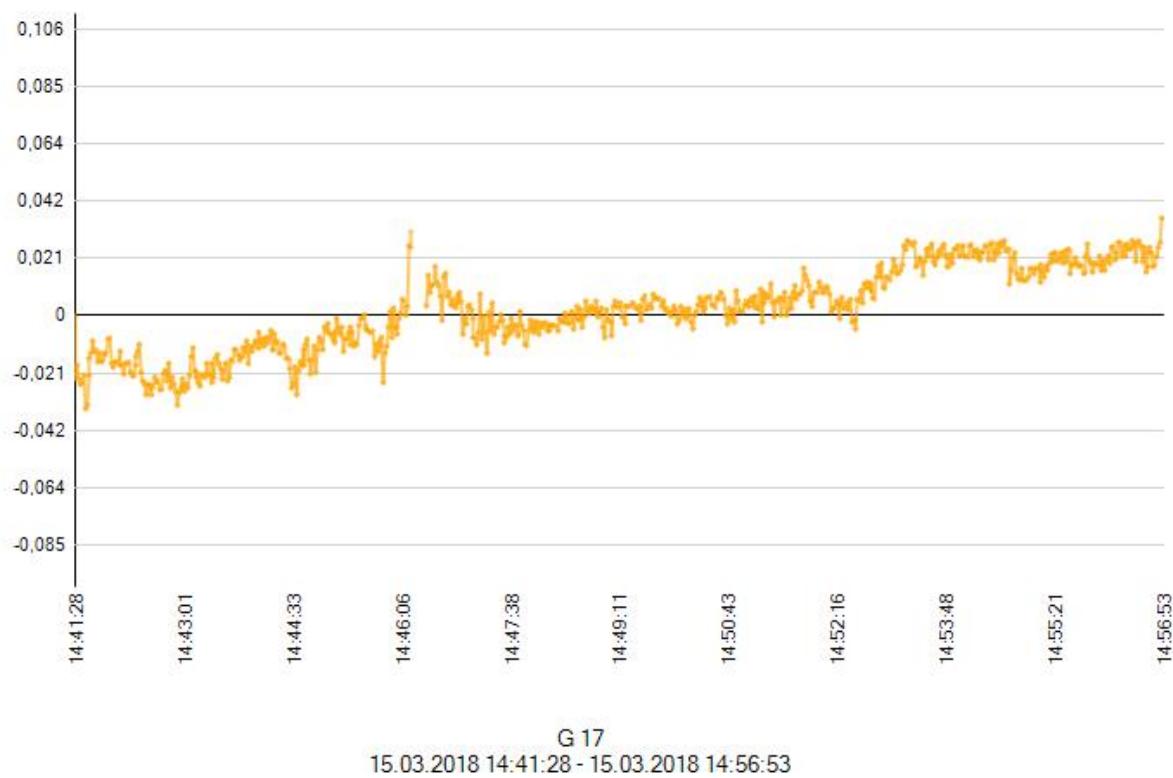
Residuals



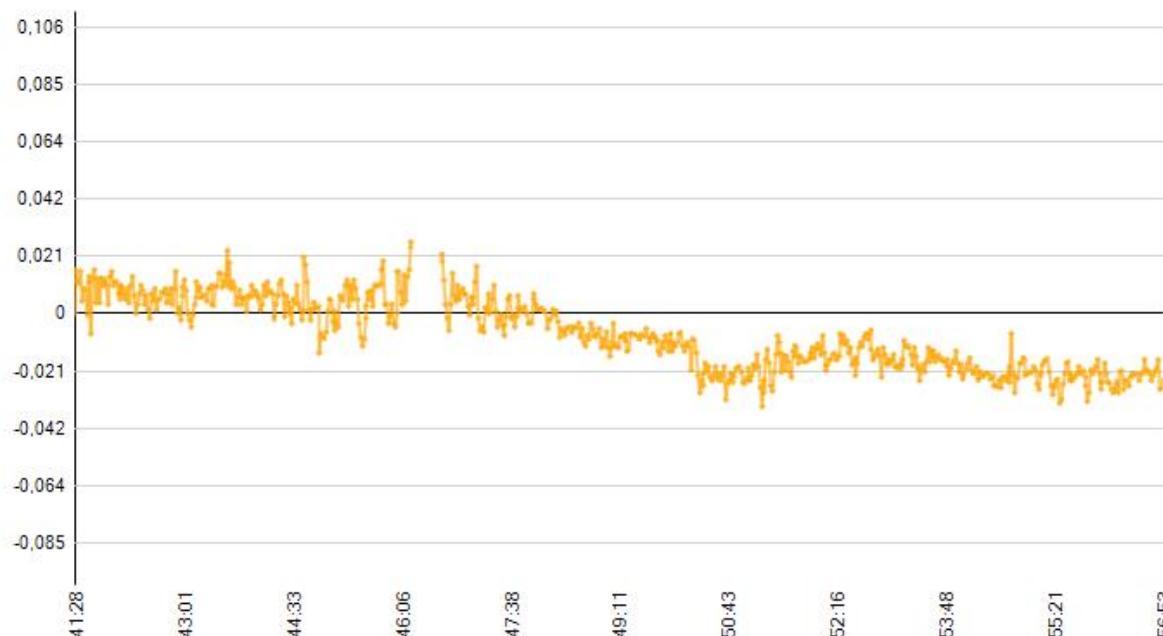
Mean = 0,022 m Std. Dev. = 0,030 m Min. = -0,081 m Max. = 0,112 m



Mean = 0,002 m Std. Dev. = 0,015 m Min. = -0,034 m Max. = 0,036 m



Mean = -0,008 m Std. Dev. = 0,013 m Min. = -0,034 m Max. = 0,026 m



G 19

15.03.2018 14:41:28 - 15.03.2018 14:56:53

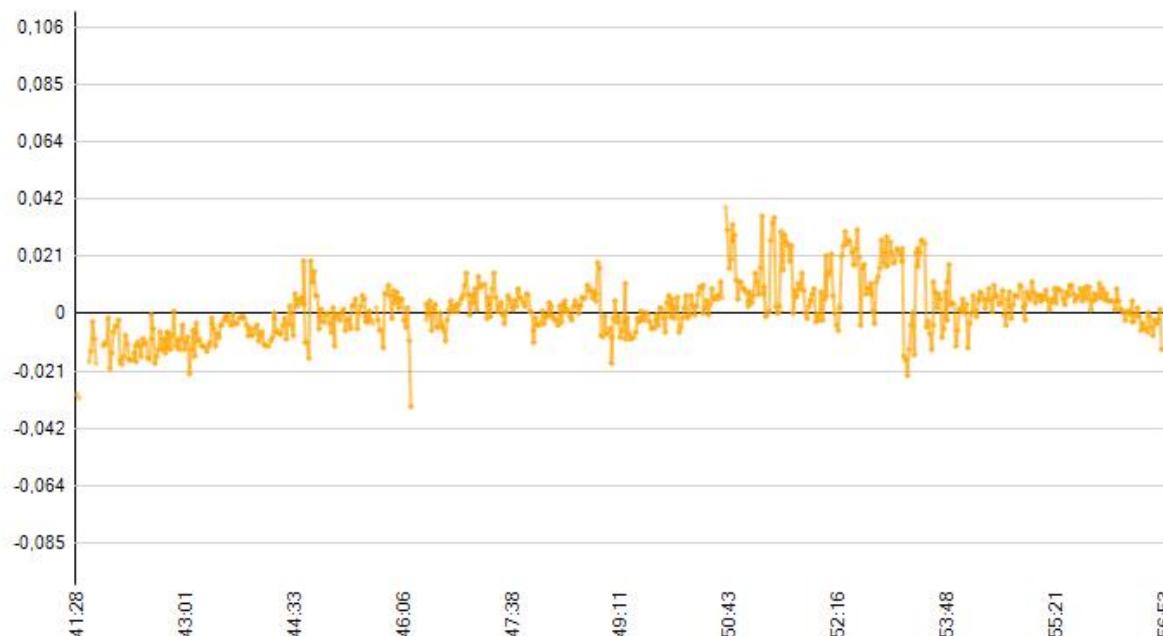
Mean = 0,003 m Std. Dev. = 0,009 m Min. = -0,026 m Max. = 0,031 m



G 24

15.03.2018 14:41:28 - 15.03.2018 14:56:53

Mean = 0,002 m Std. Dev. = 0,010 m Min. = -0,035 m Max. = 0,039 m



G 32

15.03.2018 14:41:28 - 15.03.2018 14:56:53

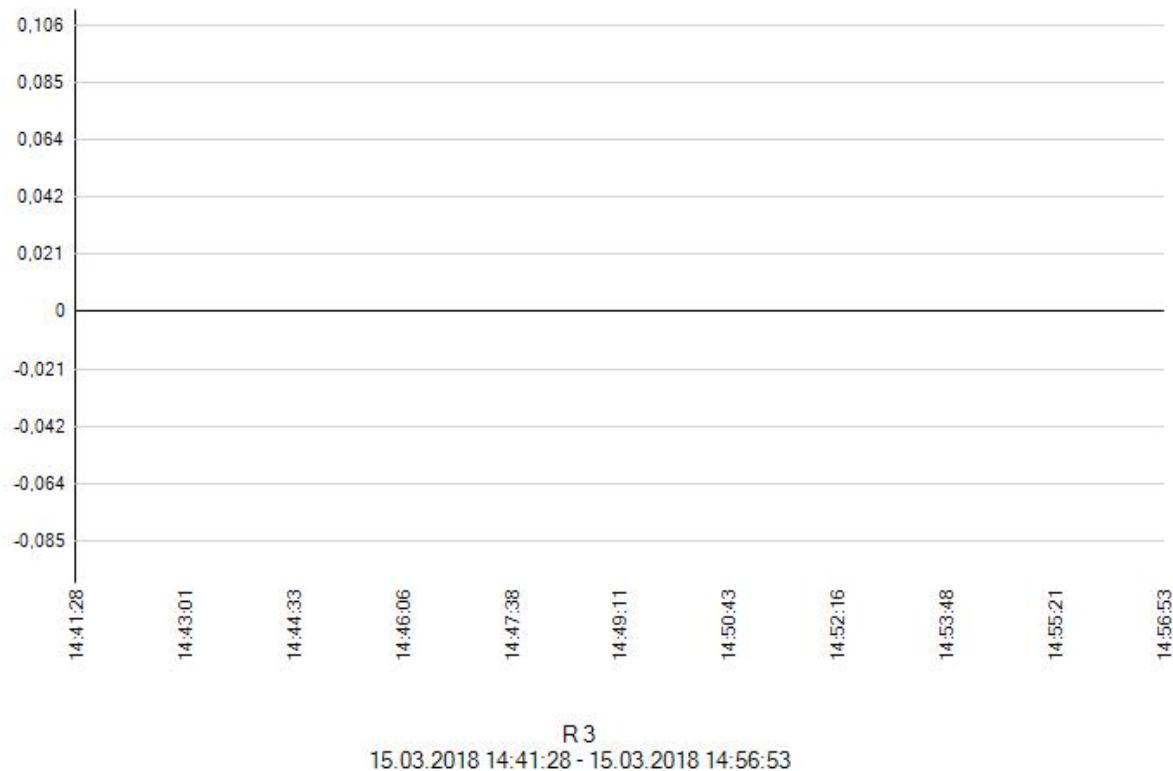
Mean = -0,003 m Std. Dev. = 0,007 m Min. = -0,028 m Max. = 0,040 m



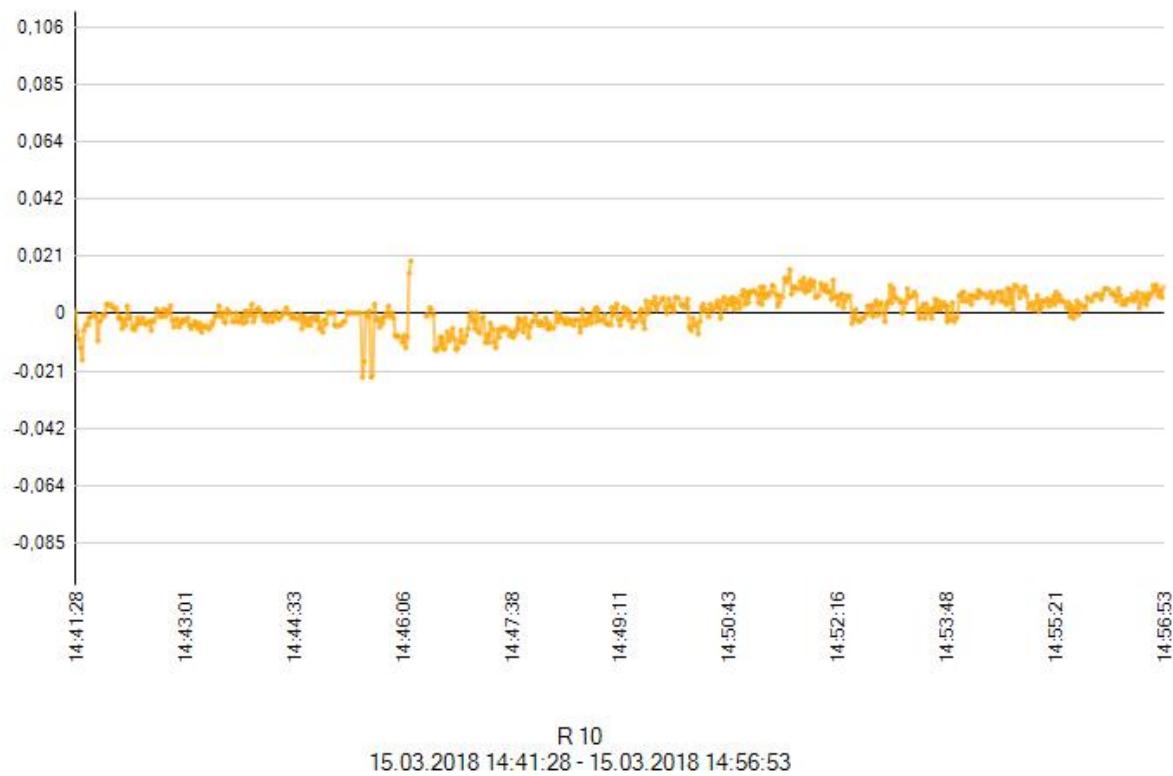
R 2

15.03.2018 14:41:28 - 15.03.2018 14:56:53

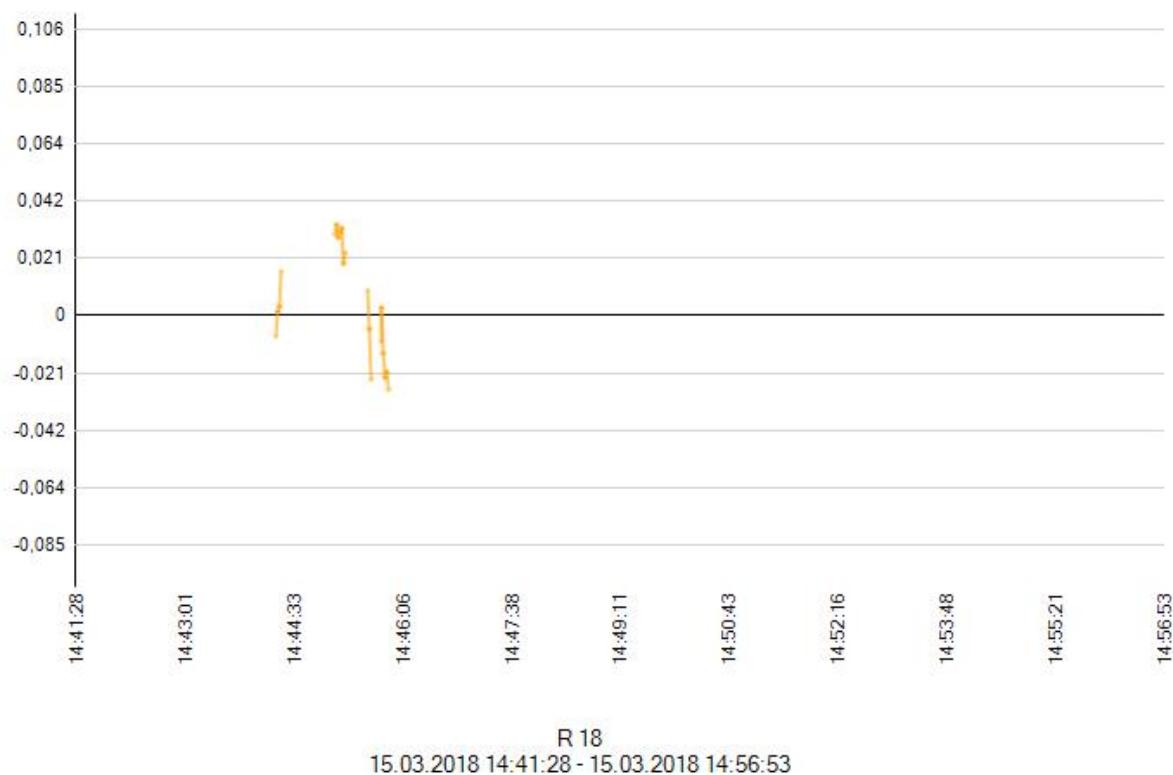
Mean = -0,035 m Std. Dev. = 0,002 m Min. = -0,037 m Max. = -0,033 m



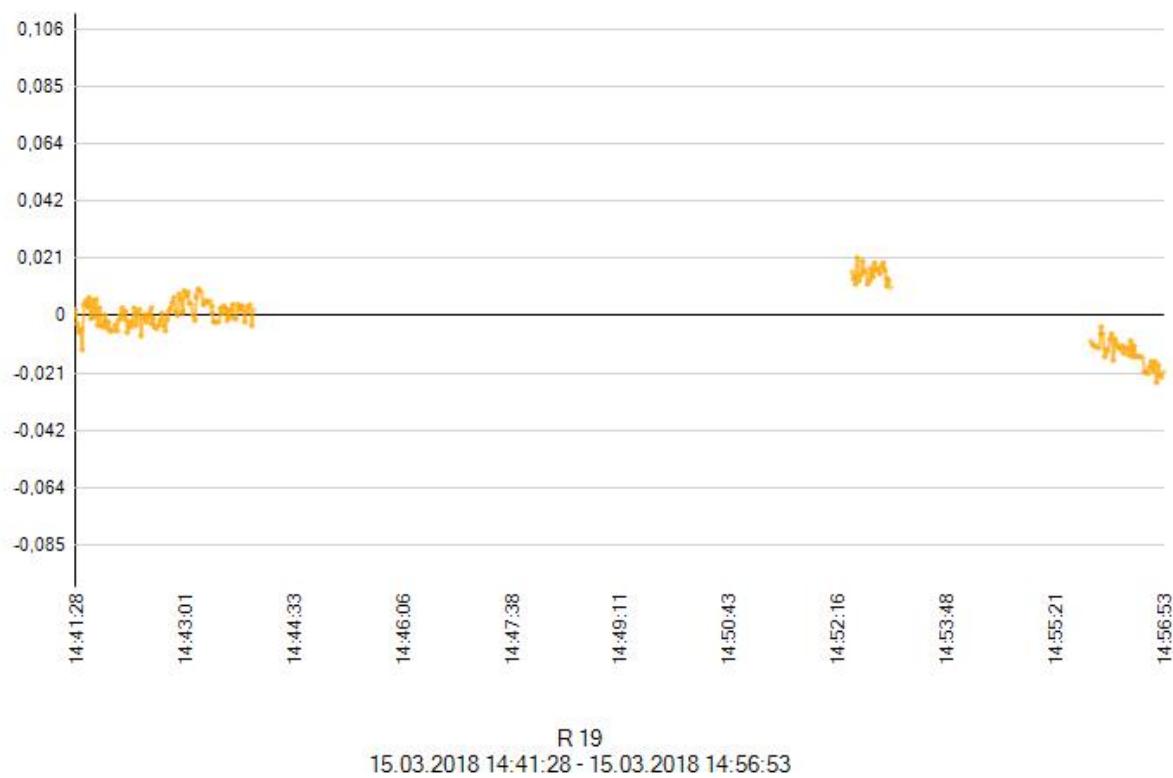
Mean = 0,001 m Std. Dev. = 0,005 m Min. = -0,023 m Max. = 0,020 m

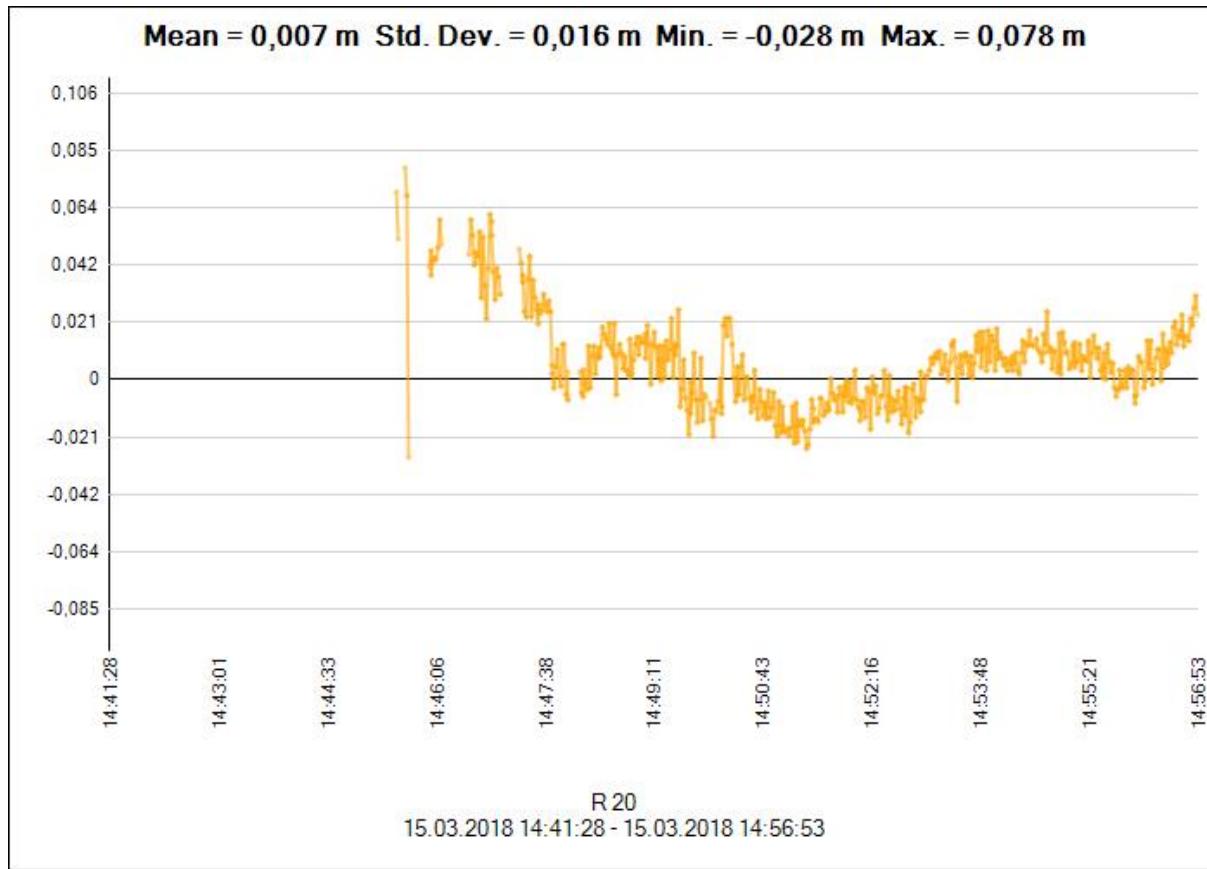


Mean = 0,005 m Std. Dev. = 0,020 m Min. = -0,028 m Max. = 0,033 m



Mean = -0,001 m Std. Dev. = 0,010 m Min. = -0,024 m Max. = 0,022 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 - T2-2016 (14:14:31-14:30:12) (S1)

Baseline observation:	LYRS --- T2-2016 (B1)
Processed:	23.03.2018 15:36:12
Solution type:	Fixed
Frequency used:	Dual Frequency (L1, L2)
Horizontal precision:	0,009 m
Vertical precision:	0,023 m
RMS:	0,002 m
Maximum PDOP:	1,451
Ephemeris used:	Broadcast
Antenna model:	Trimble Calibration
Processing start time:	15.03.2018 14:14:31 (Local: UTC+1hr)
Processing stop time:	15.03.2018 14:30:12 (Local: UTC+1hr)
Processing duration:	12:15:41 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:	T2-2016				
Grid		Local		Global	
Easting	527951,547 m	Latitude	N78°15'24,42379"	Latitude	N78°15'24,42379"
Northing	8687320,958 m	Longitude	E16°13'49,18729"	Longitude	E16°13'49,18729"
Elevation	396,091 m	Height	396,091 m	Height	396,091 m

Vector					
9Ughjb[18903,409 m	NS Fwd Azimuth	80°14'29"	L	-8126,148 m
Bcfh]b[3383,390 m	Ellipsoid Dist.	19211,404 m	M	17401,573 m
9Yj Uhcb	-99,591 m	<Y][\h	-99,591 m	N	538,597 m

Standard Errors

Vector errors:

9Ughb[0,004 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	0,004 m
9`Yj Uhcb	0,012 m	<Y][\h	0,012 m	N	0,012 m

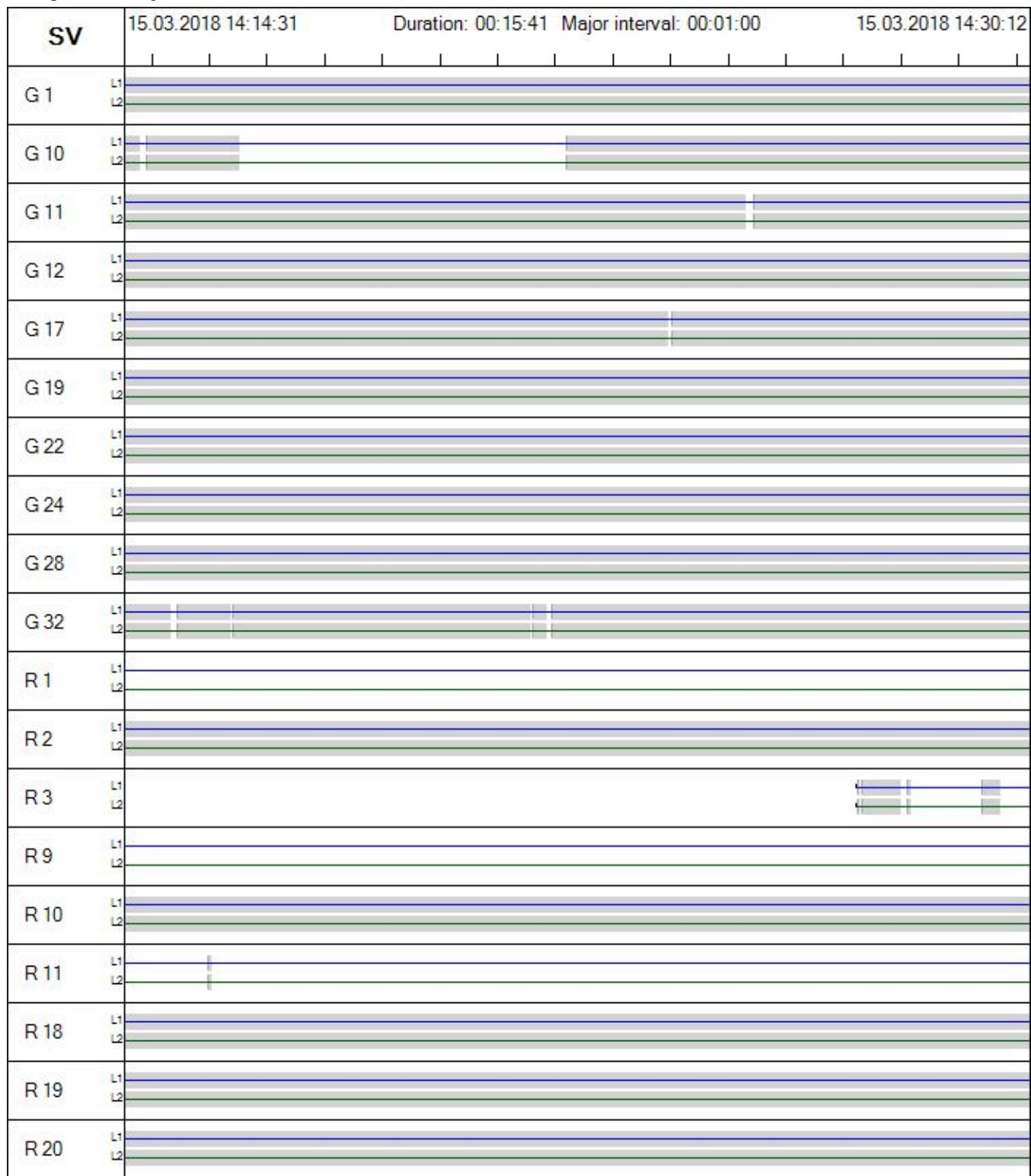
Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0,0000104020		
Y	-0,0000010521	0,0000135514	
Z	0,0000029968	-0,0000009990	0,0001385039

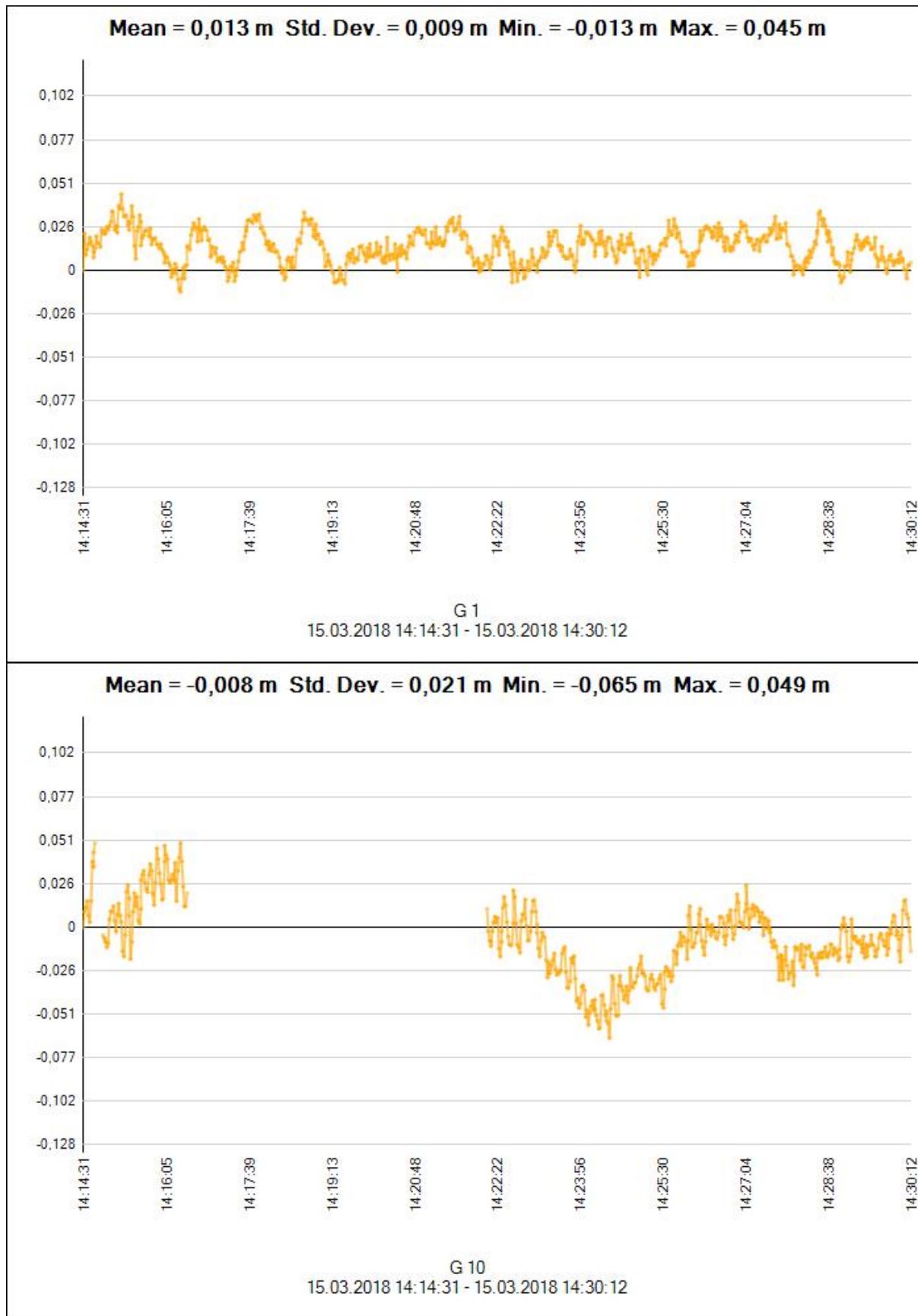
Occupations

	From	To
Point ID:	LYRS	T2-2016
Data file:	C:\Users\lth842\Documents\Trimble Business Center\Unnamed\lyrs0740.18o	C:\Users\lth842\Documents\Trimble Business Center\Unnamed\4625074G.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	1,340 m
Antenna method:	Bottom of antenna mount	Bottom of antenna mount

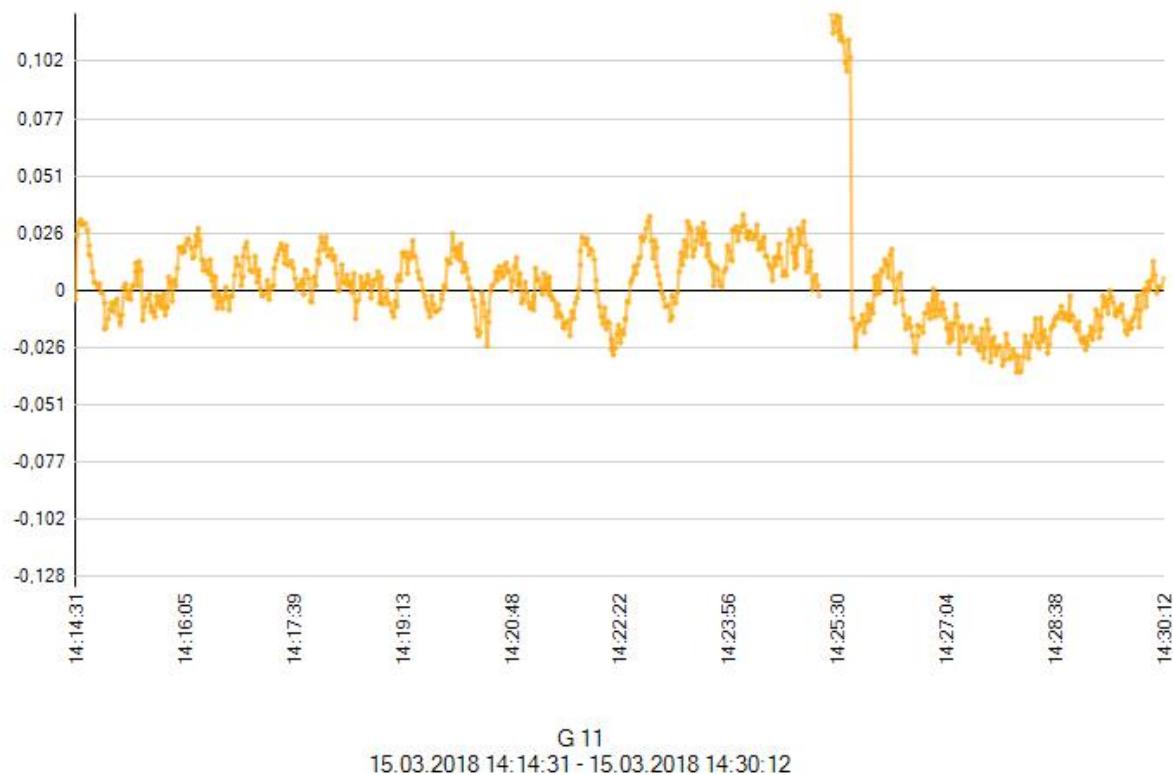
Tracking Summary



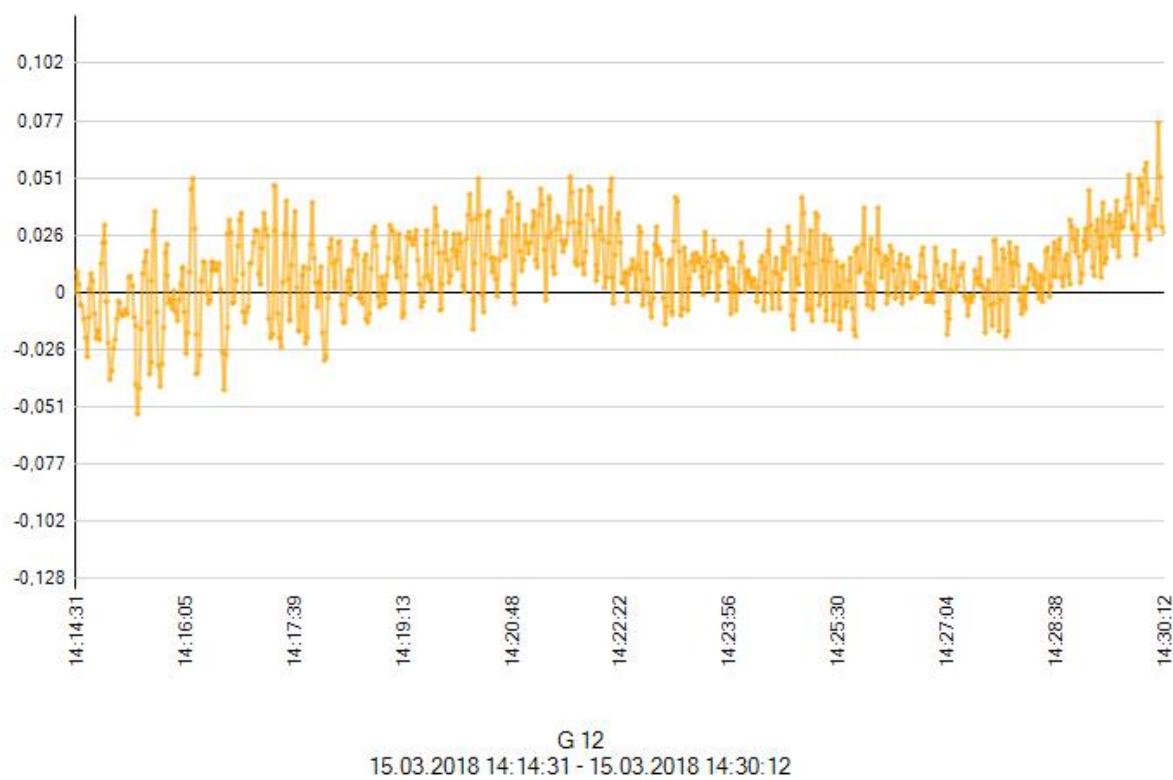
Residuals



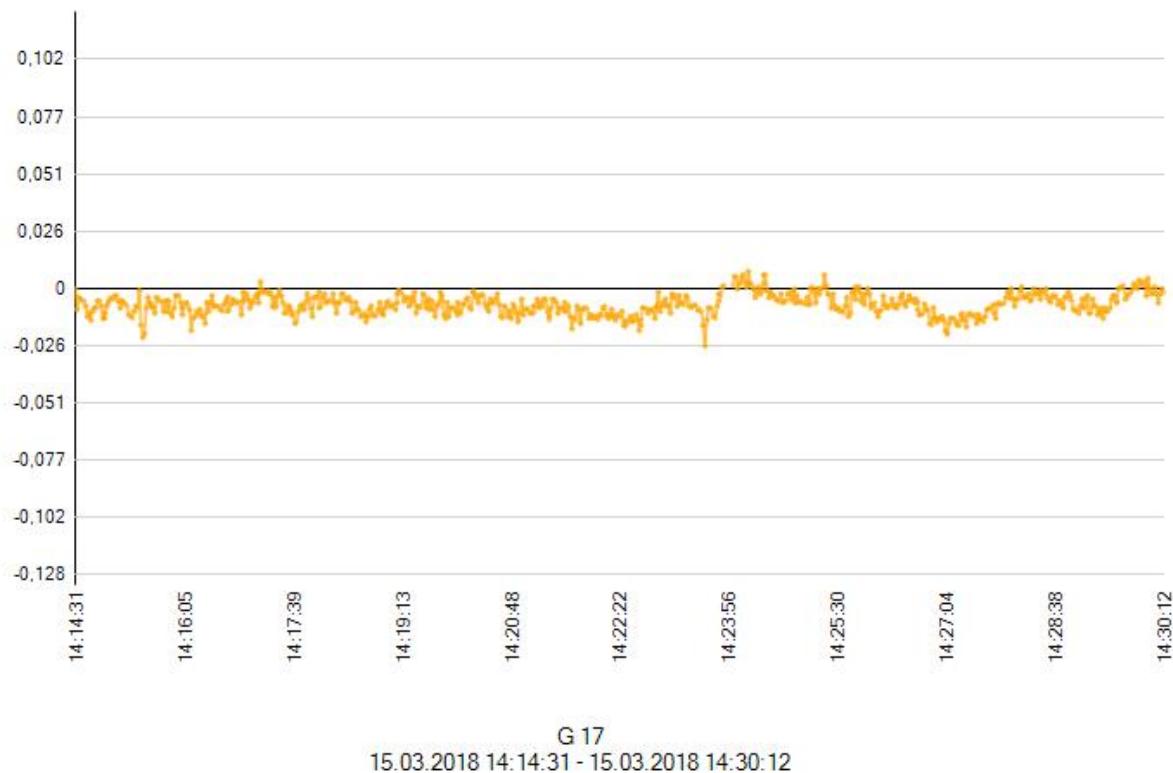
Mean = 0,002 m Std. Dev. = 0,021 m Min. = -0,037 m Max. = 0,124 m



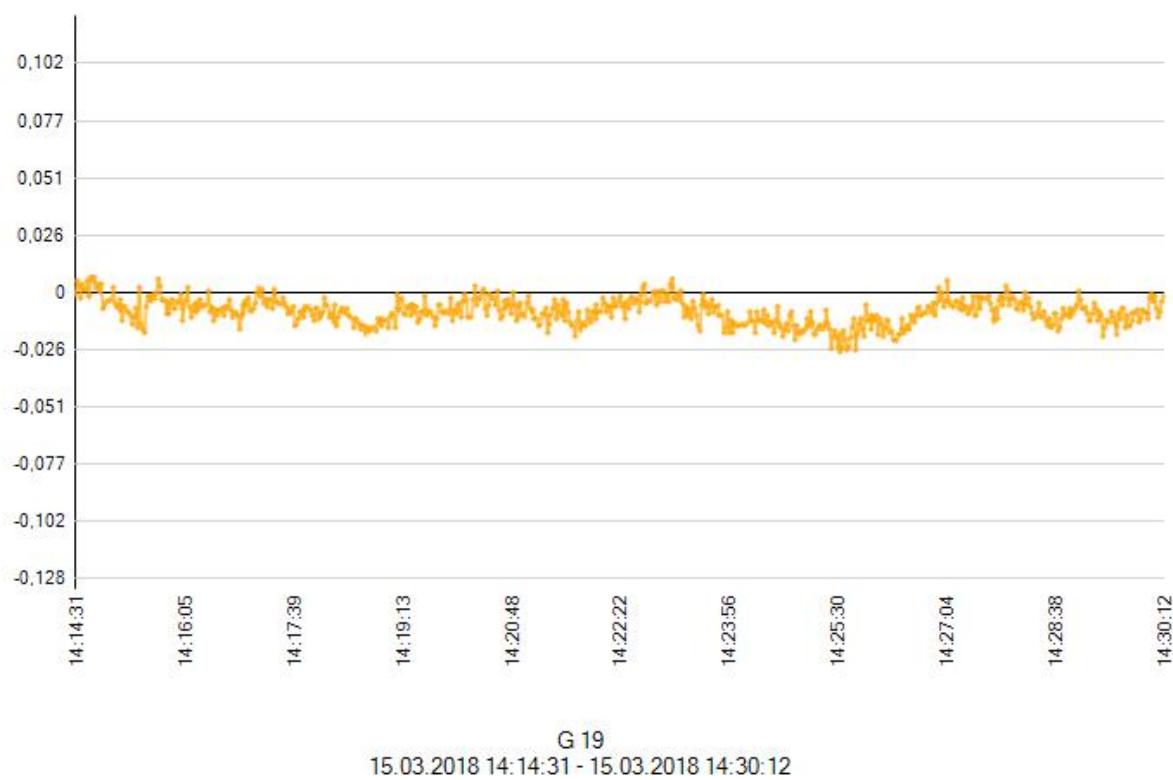
Mean = 0,010 m Std. Dev. = 0,017 m Min. = -0,054 m Max. = 0,075 m



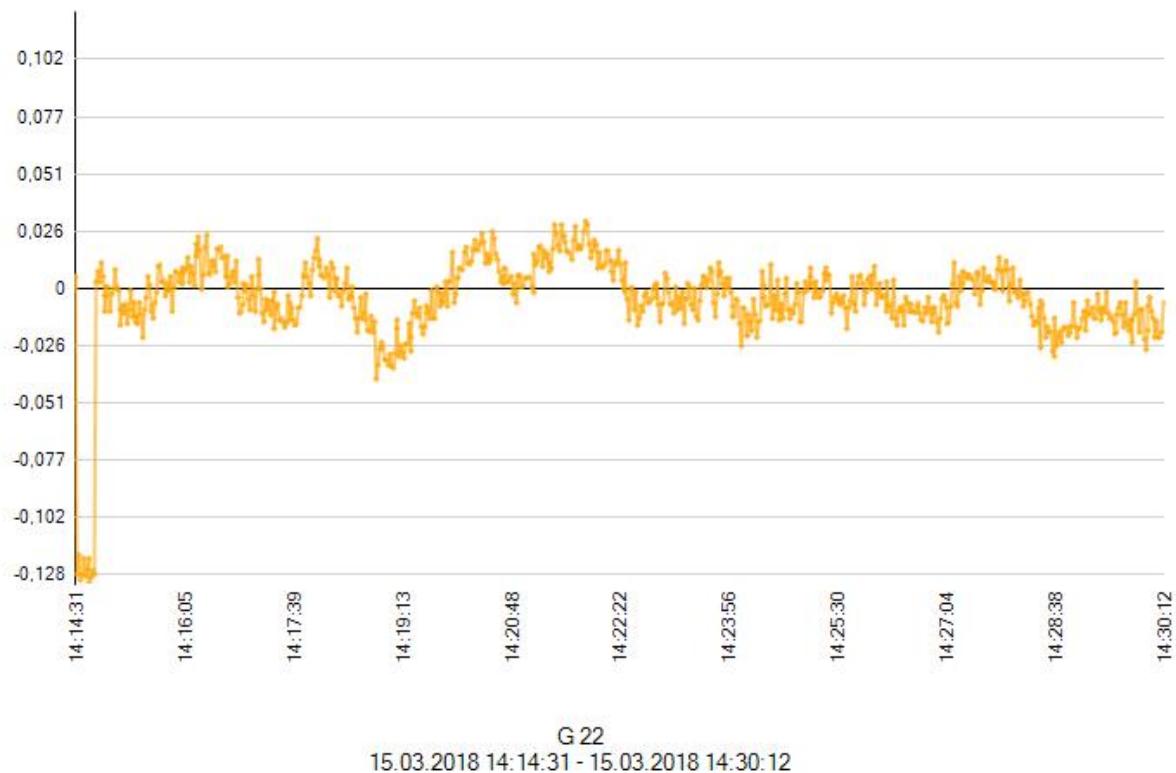
Mean = -0,007 m Std. Dev. = 0,005 m Min. = -0,025 m Max. = 0,008 m



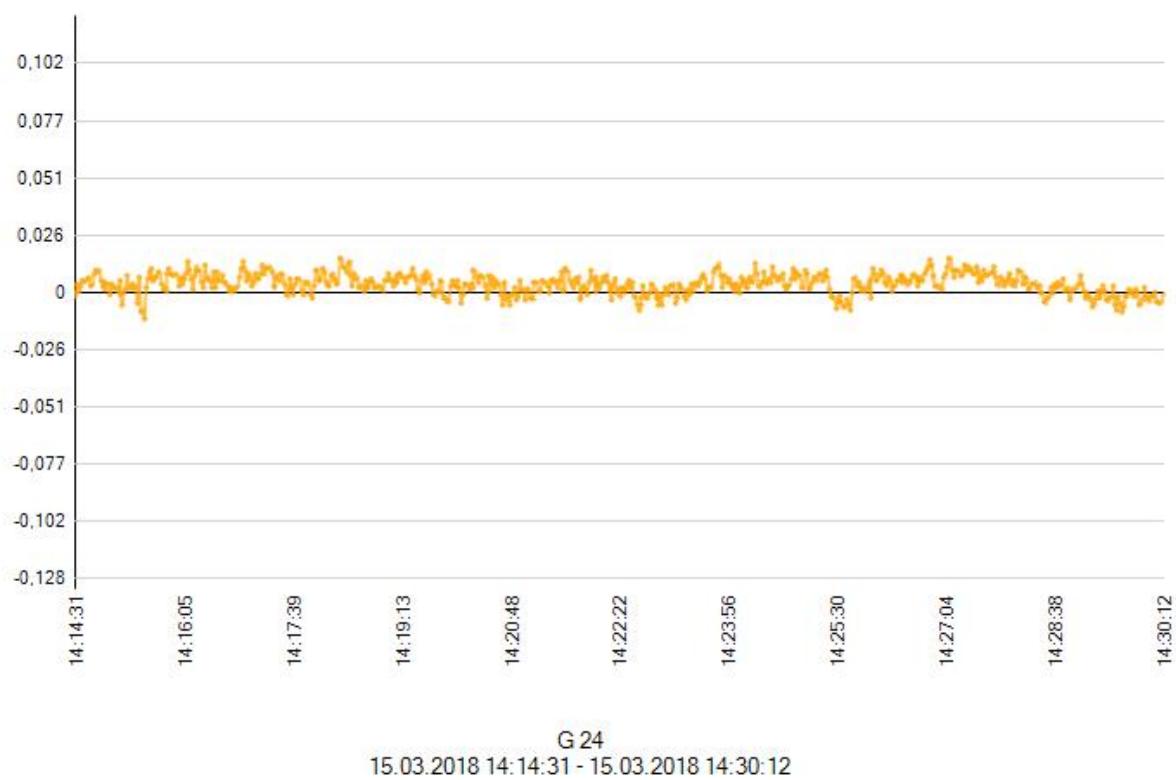
Mean = -0,008 m Std. Dev. = 0,006 m Min. = -0,026 m Max. = 0,007 m



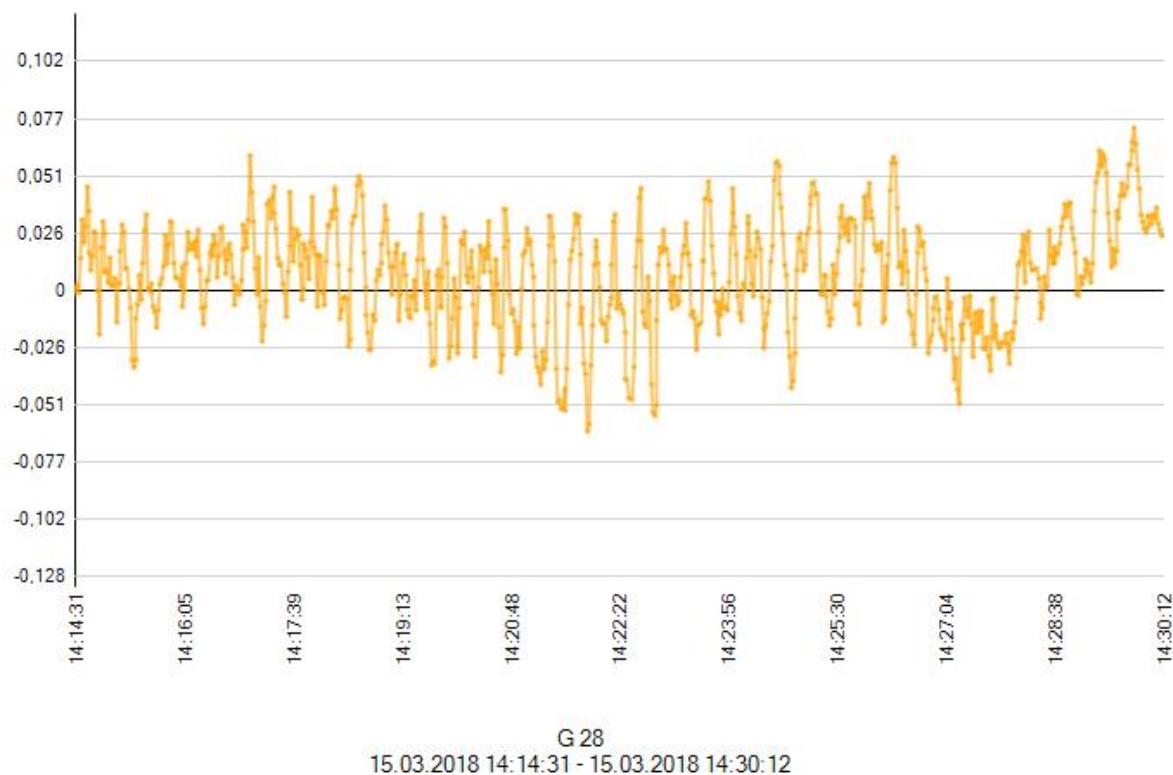
Mean = -0,005 m Std. Dev. = 0,020 m Min. = -0,132 m Max. = 0,030 m



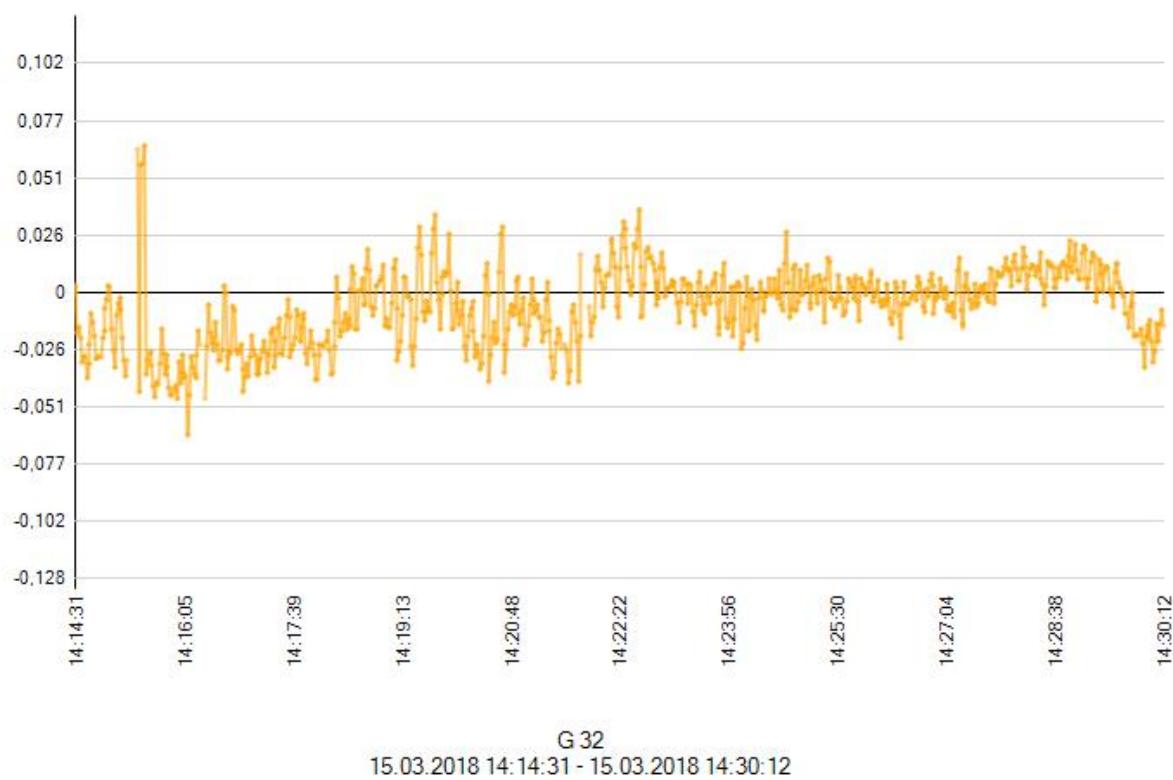
Mean = 0,004 m Std. Dev. = 0,004 m Min. = -0,012 m Max. = 0,016 m



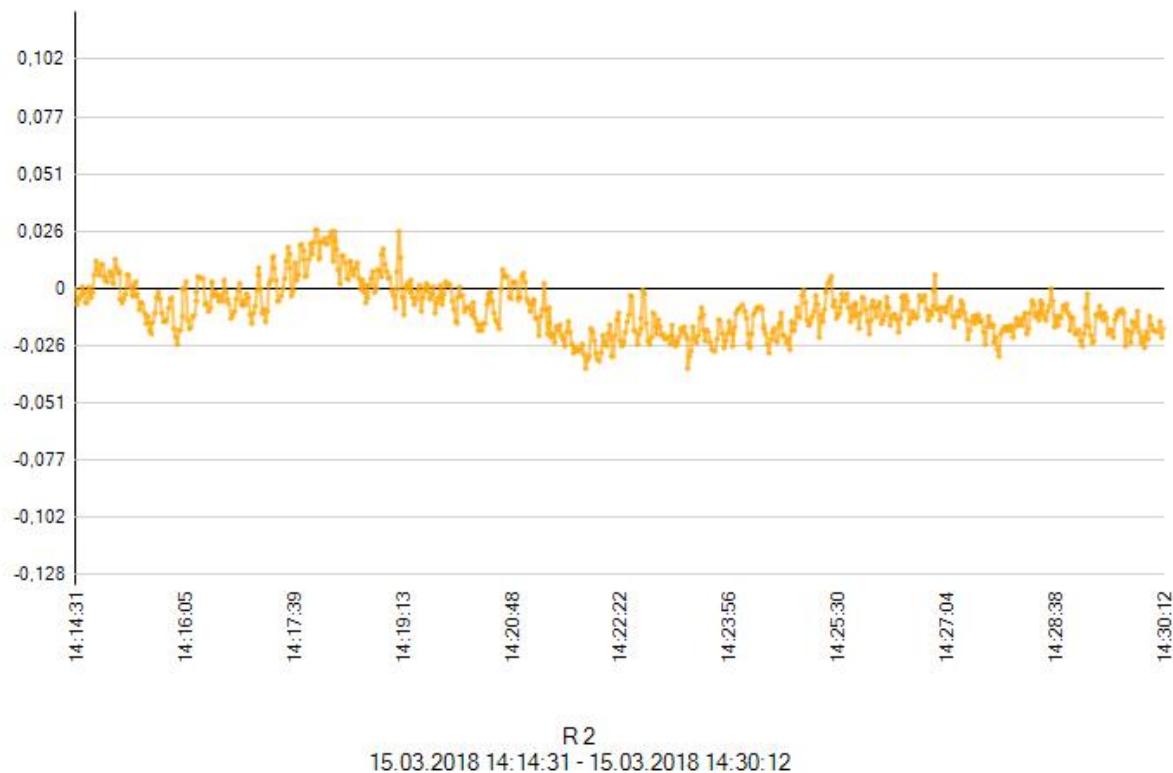
Mean = 0,008 m Std. Dev. = 0,023 m Min. = -0,062 m Max. = 0,072 m



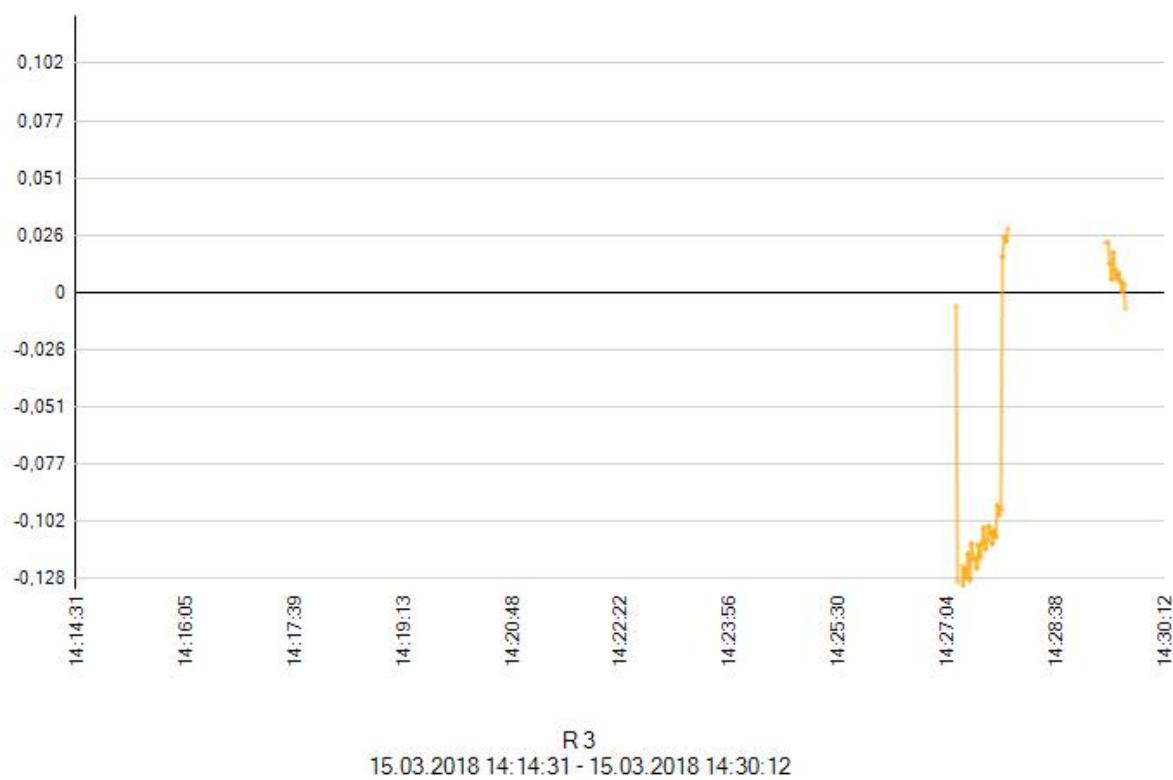
Mean = -0,006 m Std. Dev. = 0,016 m Min. = -0,063 m Max. = 0,066 m



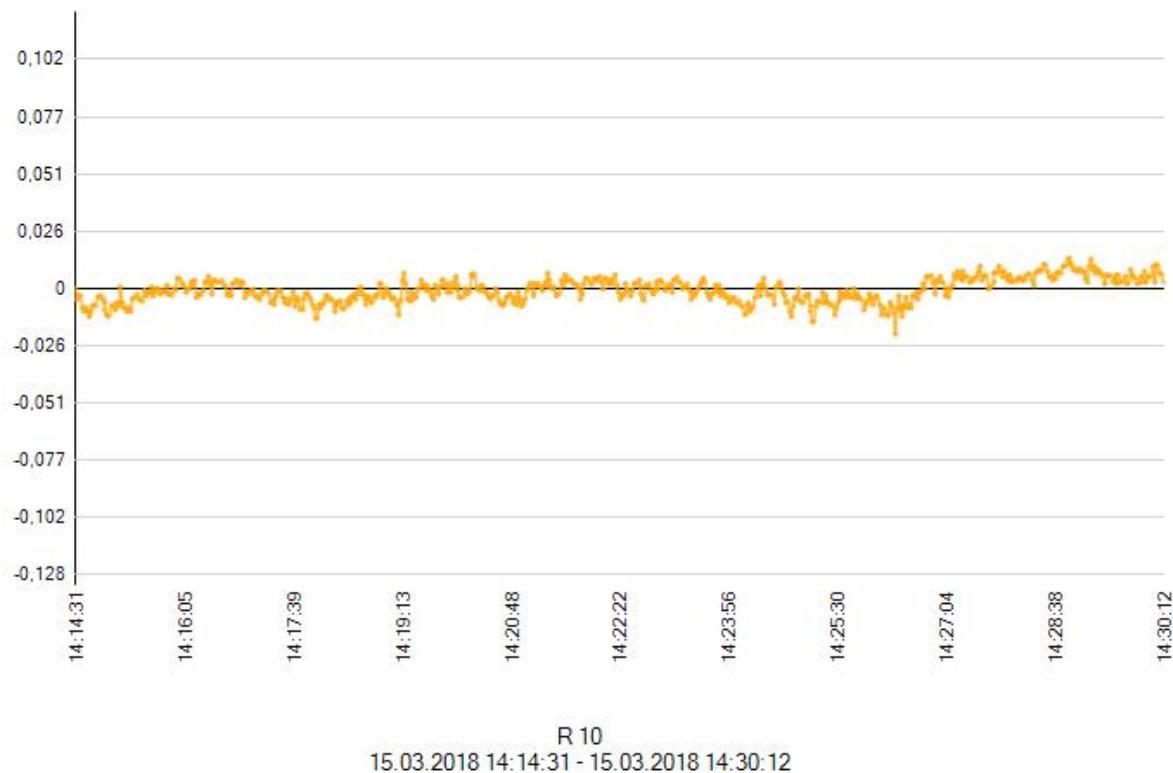
Mean = -0,009 m Std. Dev. = 0,011 m Min. = -0,036 m Max. = 0,027 m



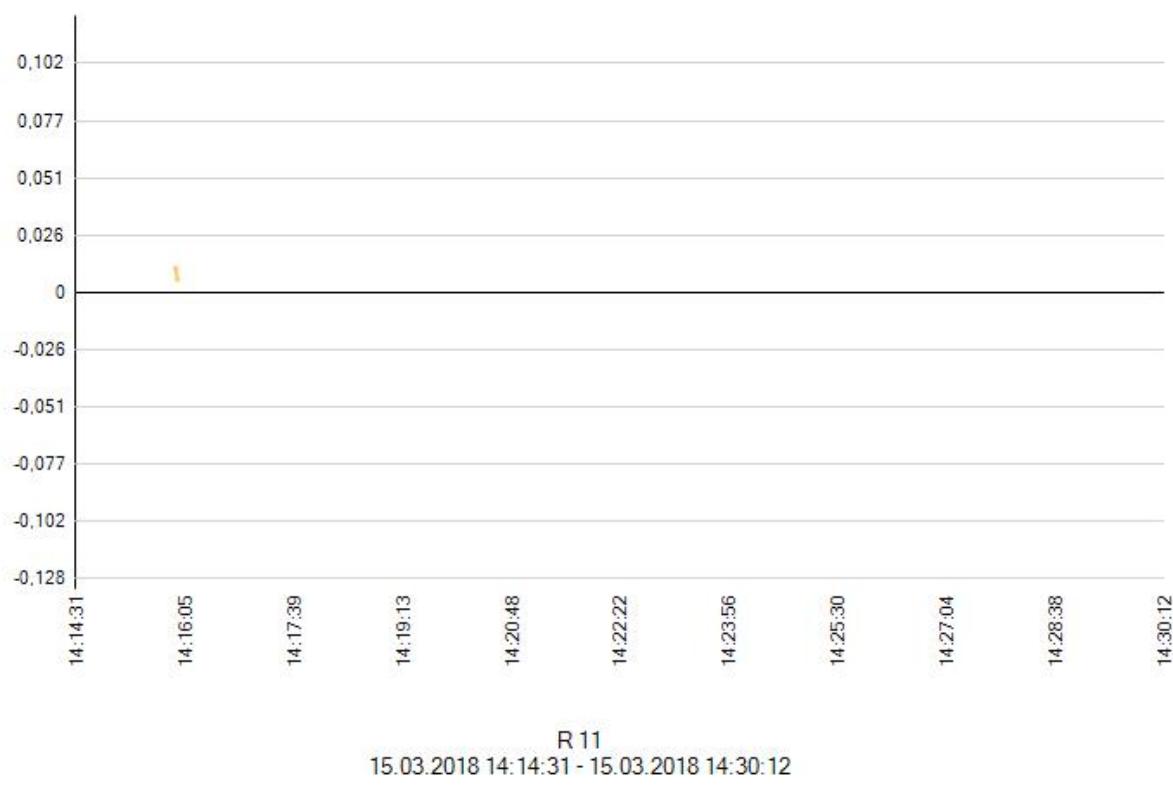
Mean = -0,061 m Std. Dev. = 0,063 m Min. = -0,132 m Max. = 0,034 m



Mean = -0,001 m Std. Dev. = 0,005 m Min. = -0,020 m Max. = 0,014 m



Mean = 0,009 m Std. Dev. = 0,003 m Min. = 0,006 m Max. = 0,011 m

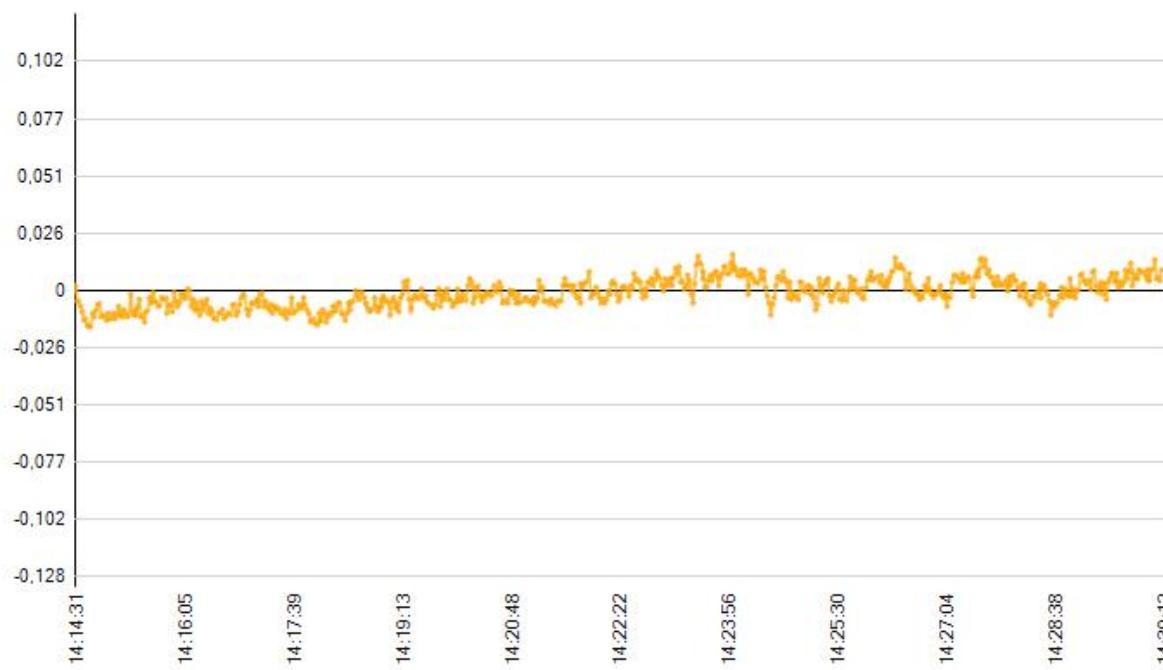


Mean = 0,017 m Std. Dev. = 0,019 m Min. = -0,028 m Max. = 0,083 m

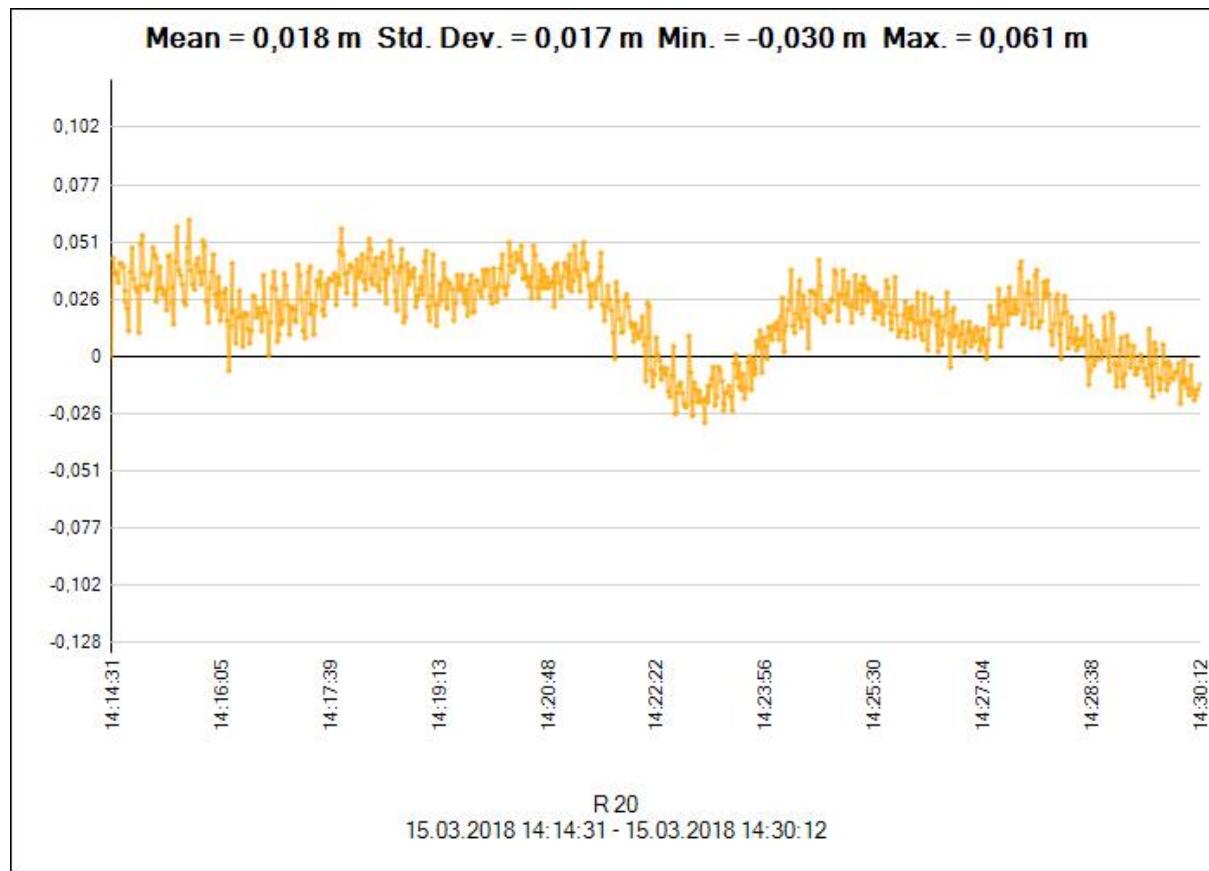


R 18
15.03.2018 14:14:31 - 15.03.2018 14:30:12

Mean = -0,001 m Std. Dev. = 0,006 m Min. = -0,017 m Max. = 0,016 m



R 19
15.03.2018 14:14:31 - 15.03.2018 14:30:12



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