



Project file data		Coordinate System	
Name:		Name:	World wide/UTM
Size:		Datum:	WGS 1984
Modified:		Zone:	44 North
Time zone:		Geoid:	EGM96 (Global)
Reference number:		Vertical datum:	
Description:		Calibrated site:	
Comment 1:			
Comment 2:			
Comment 3:			

Baseline Processing Report

Processing Summary

Observation	From	To	Solution Type	H. Prec.	V. Prec.	Geodetic	Ellipsoid	ΔHeight
A-1 --- BOUNDARY-A (B1)	A-1	BOUNDARY-A	Fixed	0.008	0.044	306°52'53"	1549.890	-5.888

Acceptance Summary

Processed	Passed	Flag		Fail	
1	1	0		0	

A-1 - BOUNDARY-A (Invalid leap seconds-Invalid leap seconds) (S1)

Baseline observation:	A-1 --- BOUNDARY-A (B1)
Processed:	Invalid leap seconds
Solution type:	Fixed
Frequency used:	Dual Frequency (L1, L2)
Horizontal precision:	0.008 m
Vertical precision:	0.044 m
RMS:	0.023 m
Maximum PDOP:	2.818
Ephemeris used:	Broadcast
Antenna model:	NGS Absolute
Processing start time:	Invalid leap seconds (Local: UTC+5hr)
Processing stop time:	Invalid leap seconds (Local: UTC+5hr)
Processing duration:	00:49:40
Processing interval:	20 seconds

Vector Components (Mark to Mark)

From:	A-1				
	Grid		Local		Global
Easting	276430.824 m		Latitude	N20°08'55.91971"	
Northing	2229392.931 m		Longitude	E78°51'39.95094"	
Elevation	223.957 m		Height	156.210 m	

To:		BOUNDARY-A			
Grid		Local		Global	
Easting	275202.896 m	Latitude	N20°09'26.16636"	Latitude	N20°09'26.16636"
Northing	2230339.195 m	Longitude	E78°50'57.26011"	Longitude	E78°50'57.26011"
Elevation	218.028 m	Height	150.322 m	Height	150.322 m

Vector					
ΔEasting	-1227.928 m	NS Fwd Azimuth	306°52'53"	ΔX	1153.398 m
ΔNorthing	946.264 m	Ellipsoid Dist.	1549.890 m	ΔY	-559.486 m
ΔElevation	-5.929 m	ΔHeight	-5.888 m	ΔZ	871.182 m

Standard Errors

Vector errors:					
σ ΔEasting	0.003 m	σ NS fwd Azimuth	0°00'00"	σ ΔX	0.005 m
σ ΔNorthing	0.003 m	σ Ellipsoid Dist.	0.003 m	σ ΔY	0.021 m
σ ΔElevation	0.022 m	σ ΔHeight	0.022 m	σ ΔZ	0.008 m

Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0000279132		
Y	0.0000899239	0.0004352032	
Z	0.0000313302	0.0001439352	0.0000591192

Occupations

	From	To
Point ID:	A-1	BOUNDARY-A
Data file:	C:\Users\del\Documents\Trimble Business	C:\Users\del\Documents\Trimble Business
Receiver type:	R8s LT	R8s LT
Receiver serial number:	5912R91946	5912R91953
Antenna type:	R8s Internal	R8s Internal
Antenna serial number:	12R91946	12R91953
Antenna height (measured):	2.000 m	2.000 m
Antenna method:	Bottom of antenna mount	Bottom of antenna mount

A-1 - BOUNDARY-B (Invalid leap seconds-Invalid leap seconds) (S2)

Baseline observation:	A-1 --- BOUNDARY-B (B2)
Processed:	Invalid leap seconds
Solution type:	Fixed
Frequency used:	Dual Frequency (L1, L2)
Horizontal precision:	0.005 m
Vertical precision:	0.017 m
RMS:	0.022 m
Maximum PDOP:	1.545
Ephemeris used:	Broadcast
Antenna model:	NGS Absolute
Processing start time:	Invalid leap seconds (Local: UTC+5hr)
Processing stop time:	Invalid leap seconds (Local: UTC+5hr)
Processing duration:	00:45:40
Processing interval:	20 seconds

Vector Components (Mark to Mark)

From:	A-1				
	Grid		Local		Global
Easting	276430.824 m	Latitude	N20°08'55.91971"	Latitude	N20°08'55.91971"
Northing	2229392.931 m	Longitude	E78°51'39.95094"	Longitude	E78°51'39.95094"
Elevation	223.957 m	Height	156.210 m	Height	156.210 m

To:	BOUNDARY-B				
	Grid		Local		Global
Easting	278796.958 m	Latitude	N20°09'33.58331"	Latitude	N20°09'33.58331"
Northing	2230521.203 m	Longitude	E78°53'00.90762"	Longitude	E78°53'00.90762"
Elevation	208.863 m	Height	141.147 m	Height	141.147 m

Vector					
ΔEasting	2366.134 m	NS Fwd Azimuth	63°46'08"	ΔX	-2386.604 m
ΔNorthing	1128.272 m	Ellipsoid Dist.	2620.818 m	ΔY	48.301 m
ΔElevation	-15.094 m	ΔHeight	-15.063 m	ΔZ	1082.137 m

Standard Errors

Vector errors:					
σ ΔEasting	0.002 m	σ NS fwd Azimuth	0°00'00"	σ ΔX	0.003 m
σ ΔNorthing	0.002 m	σ Ellipsoid Dist.	0.002 m	σ ΔY	0.008 m
σ ΔElevation	0.009 m	σ ΔHeight	0.009 m	σ ΔZ	0.004 m

Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0000062613		
Y	0.0000127445	0.0000610250	
Z	0.0000062165	0.0000267148	0.0000154628



Project file data		Coordinate System	
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Modified:		Zone:	44 North
Time zone:		Geoid:	EGM96 (Global)
Reference number:		Vertical datum:	
Description:		Calibrated site:	
Comment 1:			
Comment 2:			
Comment 3:			

Baseline Processing Report

Processing Summary

Observation	From	To	Solution Type	H. Prec.	V. Prec.	Geodetic	Ellipsoid	ΔHeight
A-1 --- BOUNDARY-C (B1)	A-1	BOUNDARY-C	Fixed	0.005	0.024	111°37'06"	2632.719	1.770

Acceptance Summary

Processed	Passed	Flag		Fail	
1	1	0		0	

A-1 - BOUNDARY-C (Invalid leap seconds-Invalid leap seconds) (S1)

Baseline observation:	A-1 --- BOUNDARY-C (B1)
Processed:	Invalid leap seconds
Solution type:	Fixed
Frequency used:	Dual Frequency (L1, L2)
Horizontal precision:	0.005 m
Vertical precision:	0.024 m
RMS:	0.016 m
Maximum PDOP:	1.686
Ephemeris used:	Broadcast
Antenna model:	NGS Absolute
Processing start time:	Invalid leap seconds (Local: UTC+5hr)
Processing stop time:	Invalid leap seconds (Local: UTC+5hr)
Processing duration:	00:45:40
Processing interval:	20 seconds

Vector Components (Mark to Mark)

From:	A-1				
	Grid		Local		Global
Easting	276430.824 m		Latitude	N20°08'55.91971"	
Northing	2229392.931 m		Longitude	E78°51'39.95094"	
Elevation	223.957 m		Height	156.210 m	

To:		BOUNDARY-C			
Grid		Local		Global	
Easting	278866.192 m	Latitude	N20°08'24.37275"	Latitude	N20°08'24.37275"
Northing	2228391.371 m	Longitude	E78°53'04.22409"	Longitude	E78°53'04.22409"
Elevation	225.775 m	Height	157.980 m	Height	157.980 m

Vector					
ΔEasting	2435.368 m	NS Fwd Azimuth	111°37'06"	ΔX	-2336.713 m
ΔNorthing	-1001.560 m	Ellipsoid Dist.	2632.719 m	ΔY	801.799 m
ΔElevation	1.818 m	ΔHeight	1.770 m	ΔZ	-910.190 m

Standard Errors

Vector errors:					
σ ΔEasting	0.002 m	σ NS fwd Azimuth	0°00'00"	σ ΔX	0.003 m
σ ΔNorthing	0.002 m	σ Ellipsoid Dist.	0.002 m	σ ΔY	0.011 m
σ ΔElevation	0.012 m	σ ΔHeight	0.012 m	σ ΔZ	0.006 m

Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0000088309		
Y	0.0000247668	0.0001183495	
Z	0.0000121736	0.0000569689	0.0000313863

Occupations

	From	To
Point ID:	A-1	BOUNDARY-C
Data file:	C:\Users\del\Documents\Trimble Business	C:\Users\del\Documents\Trimble Business
Receiver type:	R8s LT	R8s LT
Receiver serial number:	5912R91946	5912R91953
Antenna type:	R8s Internal	R8s Internal
Antenna serial number:	12R91946	12R91953
Antenna height (measured):	2.000 m	2.000 m
Antenna method:	Bottom of antenna mount	Bottom of antenna mount



Project file data		Coordinate System	
Name:		Name:	World wide/UTM
Size:		Datum:	WGS 1984
Modified:	3/22/2018 2:34:52 PM (UTC:-6)	Zone:	44 North
Time zone:	Mountain Standard Time	Geoid:	EGM96 (Global)
Reference number:		Vertical datum:	
Description:		Calibrated site:	
Comment 1:			
Comment 2:			
Comment 3:			

Baseline Processing Report

Processing Summary

Observation	From	To	Solution Type	H. Prec.	V. Prec.	Geodetic	Ellipsoid	ΔHeight
A-1 --- BOUNDARY-D (B1)	A-1	BOUNDARY-D	Fixed	0.004	0.029	132°03'30"	1526.564	-8.290

Acceptance Summary

Processed	Passed	Flag		Fail	
1	1	0		0	

A-1 - BOUNDARY-D (Invalid leap seconds-Invalid leap seconds) (S1)

Baseline observation:	A-1 --- BOUNDARY-D (B1)
Processed:	Invalid leap seconds
Solution type:	Fixed
Frequency used:	Dual Frequency (L1, L2)
Horizontal precision:	0.004 m
Vertical precision:	0.029 m
RMS:	0.012 m
Maximum PDOP:	2.523
Ephemeris used:	Broadcast
Antenna model:	NGS Absolute
Processing start time:	Invalid leap seconds (Local: UTC+5hr)
Processing stop time:	Invalid leap seconds (Local: UTC+5hr)
Processing duration:	00:45:40
Processing interval:	20 seconds

Vector Components (Mark to Mark)

From:	A-1				
	Grid		Local		Global
Easting	276430.824 m		Latitude	N20°08'55.91971"	
Northing	2229392.931 m		Longitude	E78°51'39.95094"	
Elevation	223.957 m		Height	156.210 m	

To:		BOUNDARY-D			
Grid		Local		Global	
Easting	277551.238 m	Latitude	N20°08'22.66430"	Latitude	N20°08'22.66430"
Northing	2228355.593 m	Longitude	E78°52'18.97661"	Longitude	E78°52'18.97661"
Elevation	215.710 m	Height	147.920 m	Height	147.920 m

Vector					
ΔEasting	1120.414 m	NS Fwd Azimuth	132°03'30"	ΔX	-1045.577 m
ΔNorthing	-1037.338 m	Ellipsoid Dist.	1526.564 m	ΔY	556.789 m
ΔElevation	-8.247 m	ΔHeight	-8.290 m	ΔZ	-962.981 m

Standard Errors

Vector errors:					
σ ΔEasting	0.002 m	σ NS fwd Azimuth	0°00'00"	σ ΔX	0.003 m
σ ΔNorthing	0.002 m	σ Ellipsoid Dist.	0.002 m	σ ΔY	0.014 m
σ ΔElevation	0.015 m	σ ΔHeight	0.015 m	σ ΔZ	0.005 m

Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0000104112		
Y	0.0000366094	0.0001908281	
Z	0.0000125482	0.0000645856	0.0000249021

Occupations

	From	To
Point ID:	A-1	BOUNDARY-D
Data file:	C:\Users\del\Documents\Trimble Business	C:\Users\del\Documents\Trimble Business
Receiver type:	R8s LT	R8s LT
Receiver serial number:	5912R91946	5912R91953
Antenna type:	R8s Internal	R8s Internal
Antenna serial number:	12R91946	12R91953
Antenna height (measured):	2.000 m	2.000 m
Antenna method:	Bottom of antenna mount	Bottom of antenna mount



Project file data		Coordinate System	
Name:		Name:	World wide/UTM
Size:		Datum:	WGS 1984
Modified:	3/22/2018 2:34:52 PM (UTC:-6)	Zone:	44 North
Time zone:	Mountain Standard Time	Geoid:	EGM96 (Global)
Reference number:		Vertical datum:	
Description:		Calibrated site:	
Comment 1:			
Comment 2:			
Comment 3:			

Baseline Processing Report

Processing Summary

Observation	From	To	Solution Type	H. Prec.	V. Prec.	Geodetic	Ellipsoid	ΔHeight
A-1 --- BOUNDARY-E (B1)	A-1	BOUNDARY-E	Fixed	0.006	0.013	263°27'27"	1248.824	-5.577
A-1 --- BOUNDARY-B (B2)	A-1	BOUNDARY-B	Fixed	0.005	0.017	63°46'08"	2620.818	-15.063

Acceptance Summary

Processed	Passed	Flag		Fail	
2	2	0		0	

A-1 - BOUNDARY-E (Invalid leap seconds-Invalid leap seconds) (S1)

Baseline observation:	A-1 --- BOUNDARY-E (B1)
Processed:	Invalid leap seconds
Solution type:	Fixed
Frequency used:	Dual Frequency (L1, L2)
Horizontal precision:	0.006 m
Vertical precision:	0.013 m
RMS:	0.011 m
Maximum PDOP:	2.049
Ephemeris used:	Broadcast
Antenna model:	NGS Absolute
Processing start time:	Invalid leap seconds (Local: UTC+5hr)
Processing stop time:	Invalid leap seconds (Local: UTC+5hr)
Processing duration:	00:45:40
Processing interval:	20 seconds

Vector Components (Mark to Mark)

From:	A-1				
Grid		Local		Global	
Easting	276430.824 m	Latitude	N20°08'55.91971"	Latitude	N20°08'55.91971"
Northing	2229392.931 m	Longitude	E78°51'39.95094"	Longitude	E78°51'39.95094"
Elevation	223.957 m	Height	156.210 m	Height	156.210 m

To:		BOUNDARY-E			
Grid		Local		Global	
Easting	275188.131 m	Latitude	N20°08'51.29115"	Latitude	N20°08'51.29115"
Northing	2229266.583 m	Longitude	E78°50'57.22955"	Longitude	E78°50'57.22955"
Elevation	218.378 m	Height	150.633 m	Height	150.633 m

Vector					
ΔEasting	-1242.694 m	NS Fwd Azimuth	263°27'27"	ΔX	1225.783 m
ΔNorthing	-126.348 m	Ellipsoid Dist.	1248.824 m	ΔY	-196.851 m
ΔElevation	-5.579 m	ΔHeight	-5.577 m	ΔZ	-135.550 m

Standard Errors

Vector errors:					
σ ΔEasting	0.002 m	σ NS fwd Azimuth	0°00'00"	σ ΔX	0.002 m
σ ΔNorthing	0.002 m	σ Ellipsoid Dist.	0.002 m	σ ΔY	0.006 m
σ ΔElevation	0.006 m	σ ΔHeight	0.006 m	σ ΔZ	0.003 m

Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0000061815		
Y	0.0000041063	0.0000349492	
Z	0.0000014722	0.0000133771	0.0000113113

Occupations

	From	To
Point ID:	A-1	BOUNDARY-E
Data file:	C:\Users\del\Documents\Trimble Business	C:\Users\del\Documents\Trimble Business
Receiver type:	R8s LT	R8s LT
Receiver serial number:	5912R91946	5912R91953
Antenna type:	R8s Internal	R8s Internal
Antenna serial number:	12R91946	12R91953
Antenna height (measured):	2.000 m	2.000 m
Antenna method:	Bottom of antenna mount	Bottom of antenna mount

Project file data		Coordinate System	
Name:		Name:	World wide/UTM
Size:		Datum:	WGS 1984
Modified:	3/22/2018 2:34:52 PM (UTC:-6)	Zone:	44 North
Time zone:	Mountain Standard Time	Geoid:	EGM96 (Global)
Reference number:		Vertical datum:	
Description:		Calibrated site:	
Comment 1:			
Comment 2:			
Comment 3:			

Baseline Processing Report

Processing Summary

Observation	From	To	Solution Type	H. Prec.	V. Prec.	Geodetic	Ellipsoid	ΔHeight
A-1 --- MAK-01 (B1)	A-1	MAK-01	Fixed	0.004	0.006	94°34'16"	1591.075	-11.084
A-1 --- MAK-04 (B2)	A-1	MAK-04	Fixed	0.013	0.023	74°09'28"	2067.083	-14.015

Acceptance Summary

Processed	Passed	Flag	Fail
2	2	0	0

A-1 - MAK-01 (Invalid leap seconds-Invalid leap seconds) (S1)

Baseline observation:	A-1 --- MAK-01 (B1)
Processed:	Invalid leap seconds
Solution type:	Fixed
Frequency used:	Dual Frequency (L1, L2)
Horizontal precision:	0.004 m
Vertical precision:	0.006 m
RMS:	0.009 m
Maximum PDOP:	1.515
Ephemeris used:	Broadcast
Antenna model:	NGS Absolute
Processing start time:	Invalid leap seconds (Local: UTC+5hr)
Processing stop time:	Invalid leap seconds (Local: UTC+5hr)
Processing duration:	00:05:02
Processing interval:	1 second

Vector Components (Mark to Mark)

From:	A-1				
	Grid		Local		Global
Easting	276430.824 m		Latitude	N20°08'55.91971"	
Northing	2229392.931 m		Longitude	E78°51'39.95094"	
Elevation	223.957 m		Height	156.210 m	

To:		MAK-01			
Grid		Local		Global	
Easting	278015.414 m	Latitude	N20°08'51.79387"	Latitude	N20°08'51.79387"
Northing	2229245.704 m	Longitude	E78°52'34.56307"	Longitude	E78°52'34.56307"
Elevation	212.885 m	Height	145.126 m	Height	145.126 m

Vector					
ΔEasting	1584.590 m	NS Fwd Azimuth	94°34'16"	ΔX	-1549.779 m
ΔNorthing	-147.227 m	Ellipsoid Dist.	1591.075 m	ΔY	338.871 m
ΔElevation	-11.072 m	ΔHeight	-11.084 m	ΔZ	-122.933 m

Standard Errors

Vector errors:					
σ ΔEasting	0.002 m	σ NS fwd Azimuth	0°00'00"	σ ΔX	0.002 m
σ ΔNorthing	0.001 m	σ Ellipsoid Dist.	0.002 m	σ ΔY	0.003 m
σ ΔElevation	0.003 m	σ ΔHeight	0.003 m	σ ΔZ	0.002 m

Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0000027076		
Y	0.0000008693	0.0000086706	
Z	0.0000001118	0.0000022095	0.0000027633

Occupations

	From	To
Point ID:	A-1	MAK-01
Data file:	C:\Users\del\Documents\Trimble Business	C:\Users\del\Documents\Trimble Business
Receiver type:	R8s LT	R8s LT
Receiver serial number:	5912R91946	5912R91953
Antenna type:	R8s Internal	R8s Internal
Antenna serial number:	12R91946	12R91953
Antenna height (measured):	2.000 m	2.000 m
Antenna method:	Bottom of antenna mount	Bottom of antenna mount

A-1 - MAK-02 (Invalid leap seconds-Invalid leap seconds) (S2)

Baseline observation:	A-1 --- MAK-02 (B2)
Processed:	Invalid leap seconds
Solution type:	Fixed
Frequency used:	Dual Frequency (L1, L2)
Horizontal precision:	0.004 m
Vertical precision:	0.009 m
RMS:	0.011 m
Maximum PDOP:	2.721
Ephemeris used:	Broadcast
Antenna model:	NGS Absolute
Processing start time:	Invalid leap seconds (Local: UTC+5hr)
Processing stop time:	Invalid leap seconds (Local: UTC+5hr)
Processing duration:	00:05:02
Processing interval:	1 second

Vector Components (Mark to Mark)

From:	A-1				
	Grid		Local		Global
Easting	276430.824 m	Latitude	N20°08'55.91971"	Latitude	N20°08'55.91971"
Northing	2229392.931 m	Longitude	E78°51'39.95094"	Longitude	E78°51'39.95094"
Elevation	223.957 m	Height	156.210 m	Height	156.210 m

To:	MAK-02				
	Grid		Local		Global
Easting	276245.719 m	Latitude	N20°08'54.05841"	Latitude	N20°08'54.05841"
Northing	2229338.058 m	Longitude	E78°51'33.60331"	Longitude	E78°51'33.60331"
Elevation	219.676 m	Height	151.928 m	Height	151.928 m

Vector					
ΔEasting	-185.105 m	NS Fwd Azimuth	252°45'03"	ΔX	183.907 m
ΔNorthing	-54.873 m	Ellipsoid Dist.	193.025 m	ΔY	-20.216 m
ΔElevation	-4.281 m	ΔHeight	-4.282 m	ΔZ	-55.212 m

Standard Errors

Vector errors:					
σ ΔEasting	0.002 m	σ NS fwd Azimuth	0°00'02"	σ ΔX	0.002 m
σ ΔNorthing	0.001 m	σ Ellipsoid Dist.	0.002 m	σ ΔY	0.004 m
σ ΔElevation	0.004 m	σ ΔHeight	0.004 m	σ ΔZ	0.002 m

Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0000033223		
Y	0.0000037675	0.0000171095	
Z	0.0000010027	0.0000038835	0.0000028738

A-1 - MAK-03 (Invalid leap seconds-Invalid leap seconds) (S3)

Baseline observation:	A-1 --- MAK-03 (B3)
Processed:	Invalid leap seconds
Solution type:	Fixed
Frequency used:	Dual Frequency (L1, L2)
Horizontal precision:	0.004 m
Vertical precision:	0.008 m
RMS:	0.010 m
Maximum PDOP:	1.780
Ephemeris used:	Broadcast
Antenna model:	NGS Absolute
Processing start time:	Invalid leap seconds (Local: UTC+5hr)
Processing stop time:	Invalid leap seconds (Local: UTC+5hr)
Processing duration:	00:05:02
Processing interval:	1 second

Vector Components (Mark to Mark)

From:	A-1				
	Grid		Local		Global
Easting	276430.824 m	Latitude	N20°08'55.91971"	Latitude	N20°08'55.91971"
Northing	2229392.931 m	Longitude	E78°51'39.95094"	Longitude	E78°51'39.95094"
Elevation	223.957 m	Height	156.210 m	Height	156.210 m

To:	MAK-03				
	Grid		Local		Global
Easting	276927.663 m	Latitude	N20°08'41.76013"	Latitude	N20°08'41.76013"
Northing	2228950.986 m	Longitude	E78°51'57.24915"	Longitude	E78°51'57.24915"
Elevation	221.910 m	Height	154.144 m	Height	154.144 m

Vector					
ΔEasting	496.839 m	NS Fwd Azimuth	130°55'00"	ΔX	-464.326 m
ΔNorthing	-441.946 m	Ellipsoid Dist.	664.811 m	ΔY	242.285 m
ΔElevation	-2.047 m	ΔHeight	-2.066 m	ΔZ	-409.510 m

Standard Errors

Vector errors:					
σ ΔEasting	0.002 m	σ NS fwd Azimuth	0°00'01"	σ ΔX	0.002 m
σ ΔNorthing	0.002 m	σ Ellipsoid Dist.	0.002 m	σ ΔY	0.004 m
σ ΔElevation	0.004 m	σ ΔHeight	0.004 m	σ ΔZ	0.002 m

Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0000037227		
Y	0.0000032670	0.0000134037	
Z	0.0000010474	0.0000032326	0.0000033039

A-1 - MAK-04 (Invalid leap seconds-Invalid leap seconds) (S2)

Baseline observation:	A-1 --- MAK-04 (B2)
Processed:	Invalid leap seconds
Solution type:	Fixed
Frequency used:	Dual Frequency (L1, L2)
Horizontal precision:	0.013 m
Vertical precision:	0.023 m
RMS:	0.020 m
Maximum PDOP:	1.549
Ephemeris used:	Broadcast
Antenna model:	NGS Absolute
Processing start time:	Invalid leap seconds (Local: UTC+5hr)
Processing stop time:	Invalid leap seconds (Local: UTC+5hr)
Processing duration:	00:05:01
Processing interval:	1 second

Vector Components (Mark to Mark)

From:	A-1				
	Grid		Local		Global
Easting	276430.824 m	Latitude	N20°08'55.91971"	Latitude	N20°08'55.91971"
Northing	2229392.931 m	Longitude	E78°51'39.95094"	Longitude	E78°51'39.95094"
Elevation	223.957 m	Height	156.210 m	Height	156.210 m

To:	MAK-04				
	Grid		Local		Global
Easting	278426.912 m	Latitude	N20°09'14.26592"	Latitude	N20°09'14.26592"
Northing	2229931.706 m	Longitude	E78°52'48.42720"	Longitude	E78°52'48.42720"
Elevation	209.931 m	Height	142.195 m	Height	142.195 m

Vector					
ΔEasting	1996.088 m	NS Fwd Azimuth	74°09'28"	ΔX	-1991.306 m
ΔNorthing	538.775 m	Ellipsoid Dist.	2067.083 m	ΔY	180.240 m
ΔElevation	-14.026 m	ΔHeight	-14.015 m	ΔZ	524.826 m

Standard Errors

Vector errors:					
σ ΔEasting	0.005 m	σ NS fwd Azimuth	0°00'00"	σ ΔX	0.005 m
σ ΔNorthing	0.004 m	σ Ellipsoid Dist.	0.005 m	σ ΔY	0.011 m
σ ΔElevation	0.012 m	σ ΔHeight	0.012 m	σ ΔZ	0.005 m

Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0000298691		
Y	0.0000092233	0.0001225204	
Z	0.0000007792	0.0000343435	0.0000271530

Project file data		Coordinate System	
Name:		Name:	World wide/UTM
Size:		Datum:	WGS 1984
Modified:	3/22/2018 2:34:52 PM (UTC:-6)	Zone:	44 North
Time zone:	Mountain Standard Time	Geoid:	EGM96 (Global)
Reference number:		Vertical datum:	
Description:		Calibrated site:	
Comment 1:			
Comment 2:			
Comment 3:			

Baseline Processing Report

Processing Summary

Observation	From	To	Solution Type	H. Prec.	V. Prec.	Geodetic	Ellipsoid	ΔHeight
A-1 --- MAK-05 (B1)	A-1	MAK-05	Fixed	0.007	0.017	290°39'40"	944.743	-8.734
A-1 --- MAK-02 (B2)	A-1	MAK-02	Fixed	0.004	0.009	252°45'03"	193.025	-4.282
A-1 --- MAK-03 (B3)	A-1	MAK-03	Fixed	0.004	0.008	130°55'00"	664.811	-2.066

Acceptance Summary

Processed	Passed	Flag	Fail
3	3	0	0

A-1 - MAK-05 (Invalid leap seconds-Invalid leap seconds) (S1)

Baseline observation:	A-1 --- MAK-05 (B1)
Processed:	Invalid leap seconds
Solution type:	Fixed
Frequency used:	Dual Frequency (L1, L2)
Horizontal precision:	0.007 m
Vertical precision:	0.017 m
RMS:	0.015 m
Maximum PDOP:	2.750
Ephemeris used:	Broadcast
Antenna model:	NGS Absolute
Processing start time:	Invalid leap seconds (Local: UTC+5hr)
Processing stop time:	Invalid leap seconds (Local: UTC+5hr)
Processing duration:	00:05:01
Processing interval:	1 second

Vector Components (Mark to Mark)

From:	A-1				
Grid		Local		Global	
Easting	276430.824 m	Latitude	N20°08'55.91971"	Latitude	N20°08'55.91971"
Northing	2229392.931 m	Longitude	E78°51'39.95094"	Longitude	E78°51'39.95094"
Elevation	223.957 m	Height	156.210 m	Height	156.210 m

To:		MAK-05			
Grid		Local		Global	
Easting	275551.012 m	Latitude	N20°09'06.75882"	Latitude	N20°09'06.75882"
Northing	2229737.696 m	Longitude	E78°51'09.51152"	Longitude	E78°51'09.51152"
Elevation	215.206 m	Height	147.476 m	Height	147.476 m

Vector					
ΔEasting	-879.813 m	NS Fwd Azimuth	290°39'40"	ΔX	843.568 m
ΔNorthing	344.764 m	Ellipsoid Dist.	944.743 m	ΔY	-291.552 m
ΔElevation	-8.751 m	ΔHeight	-8.734 m	ΔZ	309.918 m

Standard Errors

Vector errors:					
σ ΔEasting	0.003 m	σ NS fwd Azimuth	0°00'01"	σ ΔX	0.003 m
σ ΔNorthing	0.002 m	σ Ellipsoid Dist.	0.003 m	σ ΔY	0.008 m
σ ΔElevation	0.008 m	σ ΔHeight	0.008 m	σ ΔZ	0.003 m

Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0000109488		
Y	0.0000143285	0.0000635444	
Z	0.0000038976	0.0000167250	0.0000096290

Occupations

	From	To
Point ID:	A-1	MAK-05
Data file:	C:\Users\del\Documents\Trimble Business	C:\Users\del\Documents\Trimble Business
Receiver type:	R8s LT	R8s LT
Receiver serial number:	5912R91946	5912R91953
Antenna type:	R8s Internal	R8s Internal
Antenna serial number:	12R91946	12R91953
Antenna height (measured):	2.000 m	2.000 m
Antenna method:	Bottom of antenna mount	Bottom of antenna mount

A-1 - MAK-06 (Invalid leap seconds-Invalid leap seconds) (S2)

Baseline observation:	A-1 --- MAK-06 (B2)
Processed:	Invalid leap seconds
Solution type:	Fixed
Frequency used:	Dual Frequency (L1, L2)
Horizontal precision:	0.004 m
Vertical precision:	0.008 m
RMS:	0.016 m
Maximum PDOP:	3.220
Ephemeris used:	Broadcast
Antenna model:	NGS Absolute
Processing start time:	Invalid leap seconds (Local: UTC+5hr)
Processing stop time:	Invalid leap seconds (Local: UTC+5hr)
Processing duration:	00:16:00
Processing interval:	1 second

Vector Components (Mark to Mark)

From:	A-1				
	Grid		Local		Global
Easting	276430.824 m	Latitude	N20°08'55.91971"	Latitude	N20°08'55.91971"
Northing	2229392.931 m	Longitude	E78°51'39.95094"	Longitude	E78°51'39.95094"
Elevation	223.957 m	Height	156.210 m	Height	156.210 m

To:	MAK-06				
	Grid		Local		Global
Easting	277321.344 m	Latitude	N20°09'03.47192"	Latitude	N20°09'03.47192"
Northing	2229613.809 m	Longitude	E78°52'10.50839"	Longitude	E78°52'10.50839"
Elevation	225.206 m	Height	157.463 m	Height	157.463 m

Vector					
ΔEasting	890.520 m	NS Fwd Azimuth	75°19'58"	ΔX	-885.959 m
ΔNorthing	220.878 m	Ellipsoid Dist.	917.306 m	ΔY	94.034 m
ΔElevation	1.249 m	ΔHeight	1.253 m	ΔZ	218.466 m

Standard Errors

Vector errors:					
σ ΔEasting	0.002 m	σ NS fwd Azimuth	0°00'00"	σ ΔX	0.002 m
σ ΔNorthing	0.002 m	σ Ellipsoid Dist.	0.002 m	σ ΔY	0.004 m
σ ΔElevation	0.004 m	σ ΔHeight	0.004 m	σ ΔZ	0.002 m

Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0000039889		
Y	0.0000036218	0.0000147103	
Z	0.0000016688	0.0000059088	0.0000051863

Project file data		Coordinate System	
Name:		Name:	World wide/UTM
Size:		Datum:	WGS 1984
Modified:	3/22/2018 2:34:52 PM (UTC:-6)	Zone:	44 North
Time zone:	Mountain Standard Time	Geoid:	EGM96 (Global)
Reference number:		Vertical datum:	
Description:		Calibrated site:	
Comment 1:			
Comment 2:			
Comment 3:			

Baseline Processing Report

Processing Summary

Observation	From	To	Solution Type	H. Prec.	V. Prec.	Geodetic	Ellipsoid	ΔHeight
A-1 --- MAK-07 (B1)	A-1	MAK-07	Fixed	0.006	0.009	18°02'26"	716.744	4.021
A-1 --- MAK-06 (B2)	A-1	MAK-06	Fixed	0.004	0.008	75°19'58"	917.306	1.253

Acceptance Summary

Processed	Passed	Flag	Fail
2	2	0	0

A-1 - MAK-07 (Invalid leap seconds-Invalid leap seconds) (S1)

Baseline observation:	A-1 --- MAK-07 (B1)
Processed:	Invalid leap seconds
Solution type:	Fixed
Frequency used:	Dual Frequency (L1, L2)
Horizontal precision:	0.006 m
Vertical precision:	0.009 m
RMS:	0.023 m
Maximum PDOP:	3.357
Ephemeris used:	Broadcast
Antenna model:	NGS Absolute
Processing start time:	Invalid leap seconds (Local: UTC+5hr)
Processing stop time:	Invalid leap seconds (Local: UTC+5hr)
Processing duration:	00:16:00
Processing interval:	1 second

Vector Components (Mark to Mark)

From:	A-1				
	Grid		Local		Global
Easting	276430.824 m		Latitude	N20°08'55.91971"	
Northing	2229392.931 m		Longitude	E78°51'39.95094"	
Elevation	223.957 m		Height	156.210 m	

To:		MAK-07			
Grid		Local		Global	
Easting	276661.594 m	Latitude	N20°09'18.08124"	Latitude	N20°09'18.08124"
Northing	2230071.673 m	Longitude	E78°51'47.59449"	Longitude	E78°51'47.59449"
Elevation	227.955 m	Height	160.231 m	Height	160.231 m

Vector					
ΔEasting	230.769 m	NS Fwd Azimuth	18°02'26"	ΔX	-262.424 m
ΔNorthing	678.742 m	Ellipsoid Dist.	716.744 m	ΔY	-183.786 m
ΔElevation	3.998 m	ΔHeight	4.021 m	ΔZ	641.186 m

Standard Errors

Vector errors:					
σ ΔEasting	0.002 m	σ NS fwd Azimuth	0°00'01"	σ ΔX	0.002 m
σ ΔNorthing	0.002 m	σ Ellipsoid Dist.	0.002 m	σ ΔY	0.004 m
σ ΔElevation	0.005 m	σ ΔHeight	0.005 m	σ ΔZ	0.003 m

Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0000050582		
Y	0.0000029511	0.0000165666	
Z	0.0000019501	0.0000082143	0.0000101800

Occupations

	From	To
Point ID:	A-1	MAK-07
Data file:	C:\Users\del\Documents\Trimble Business	C:\Users\del\Documents\Trimble Business
Receiver type:	R8s LT	R8s LT
Receiver serial number:	5912R91946	5912R91953
Antenna type:	R8s Internal	R8s Internal
Antenna serial number:	12R91946	12R91953
Antenna height (measured):	2.000 m	2.000 m
Antenna method:	Bottom of antenna mount	Bottom of antenna mount