



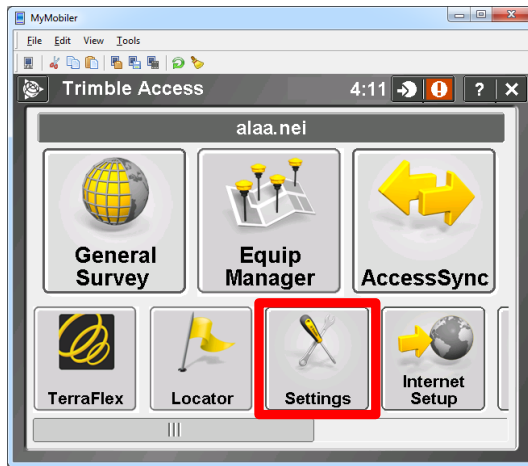
Set RTX – RTK Offset

RTX broadcasts in ITRF 2008 (current epoch) and receiver transforms to 2005 epoch

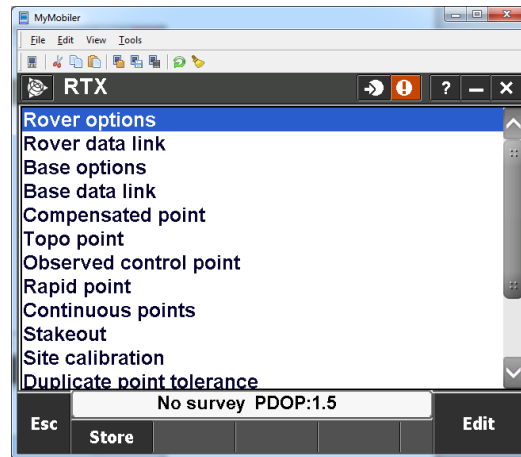
- If customer wants to work in a Trimble Access project using the state plane NAD83 datum, they have 2 options:
 - o Use the RTX to RTK offset
 - Requires you to shoot in a point with RTK and RTX before you can shoot in and apply the offset
 - This may not be the best option for some customers since they may not be using RTK in this particular setup
 - o Use a Site calibration
 - You **must** have control data (in terms of NAD83(some epoch)) loaded in your project beforehand
 - Perform a site calibration
- A 3rd option would be to work in the same datum as the RTX corrections
 - o Work will need to be performed before going out into the field.
 - o Convert the project data to ITRF2008 before loading onto a data collector, then when you use RTX there would be no transformation.
 - o Use the HTDP tool from NGS to transform the coordinates
 - http://www.ngs.noaa.gov/TOOLS/program_descriptions.html#HTDP

In this paper we will be describing RTX to RTK offset in easy steps

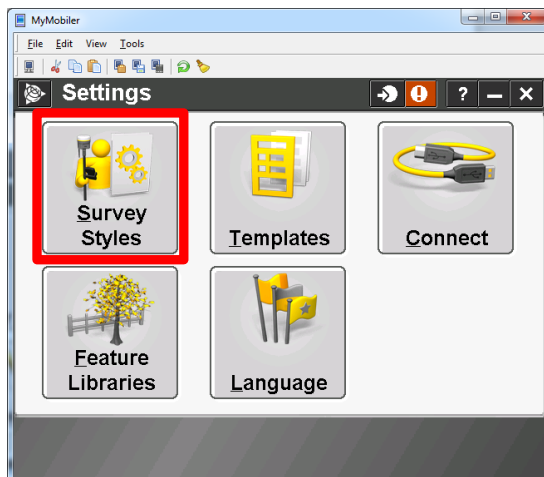
Click on Settings



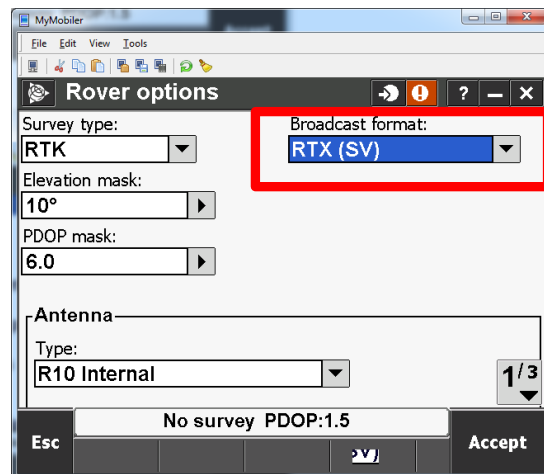
Rover option



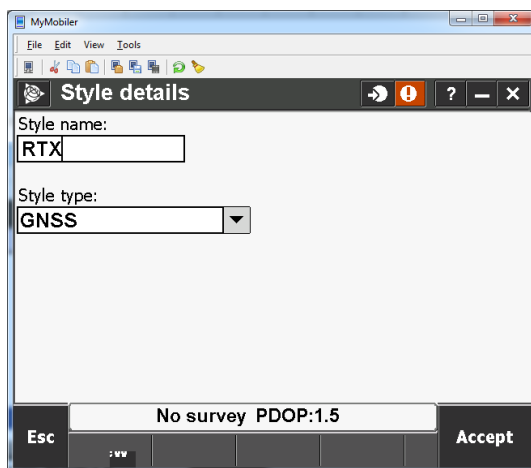
Click on Survey Styles



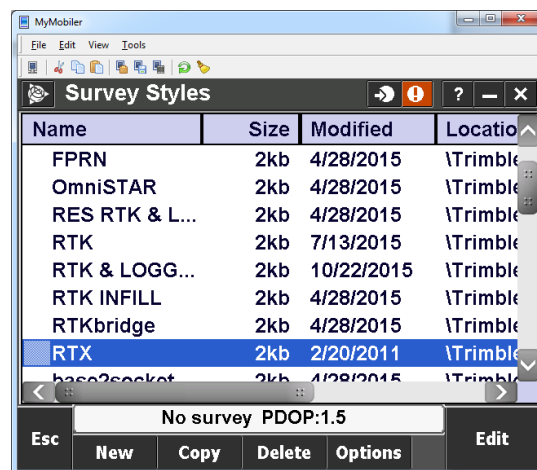
Change Broadcast format RTX (SV)



Create new Style and name it RTX



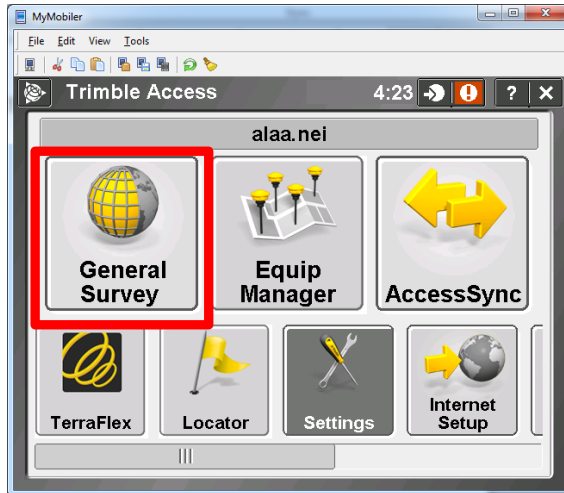
Select your antenna type, accept and store



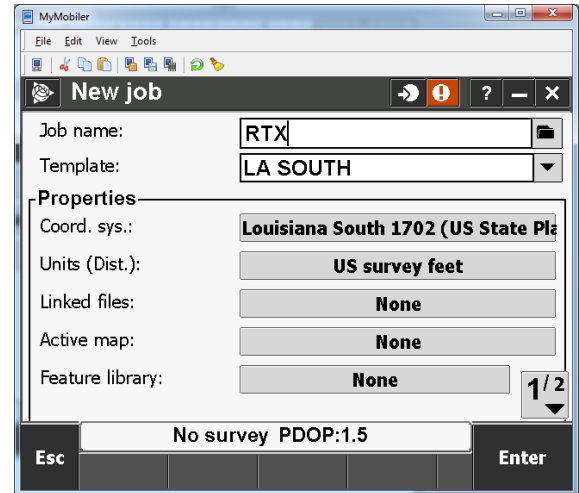


ALABAMA | ARKANSAS | FLORIDA | GEORGIA | LOUISIANA | MISSISSIPPI | TENNESSEE

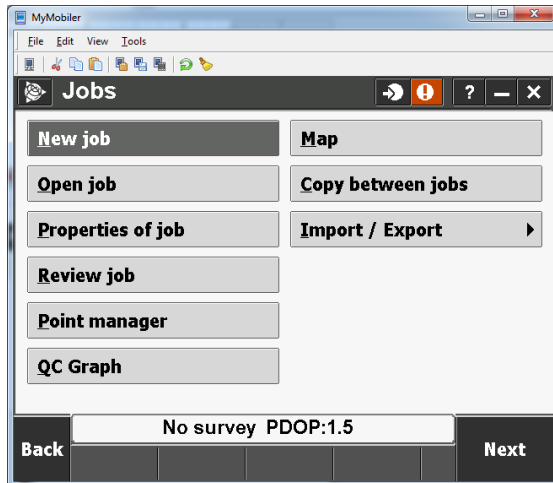
General Survey



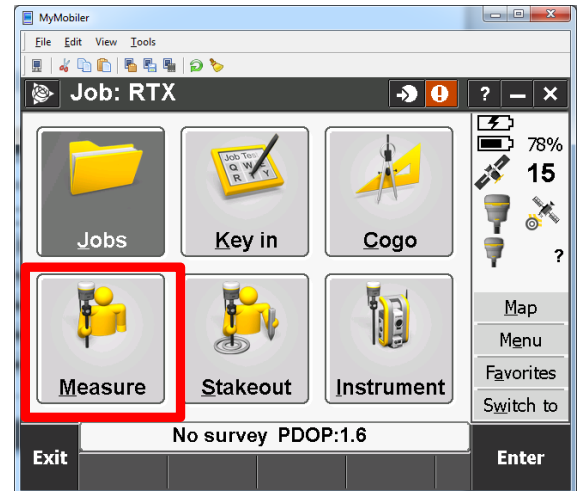
Give it a name and select parameters



Start new job



Measure



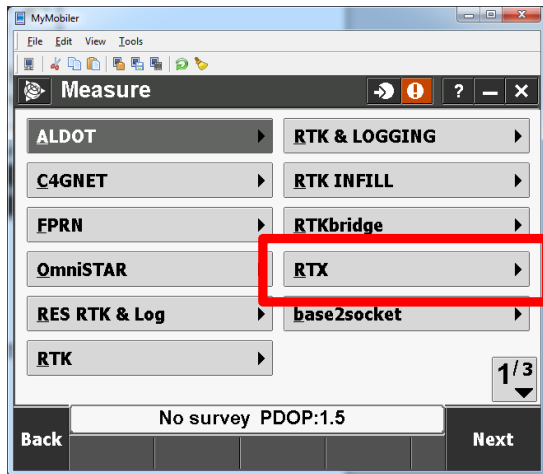
neigps.com

200 Toledo Drive, Lafayette, LA 70506

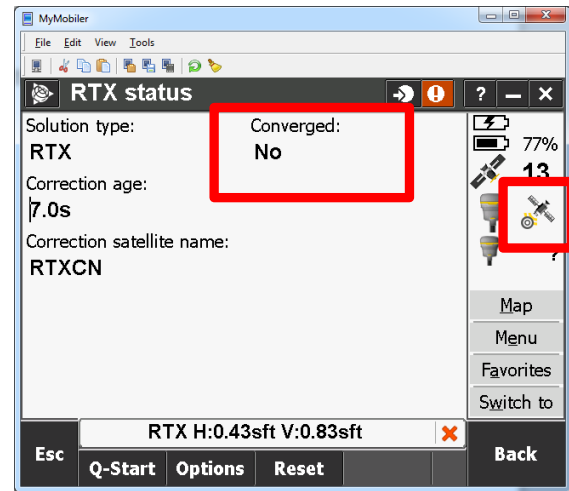
P: 337.237.1413 | F: 337.237.1417 | TOLL FREE: 800.949.1446

N 30° 13' 45" W 92° 03' 33"

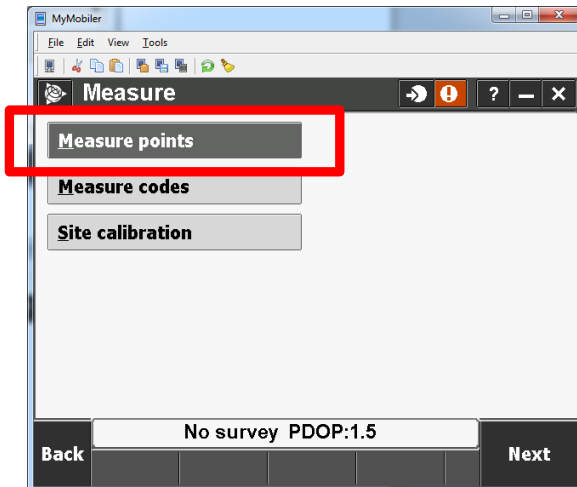
Select RTX survey style



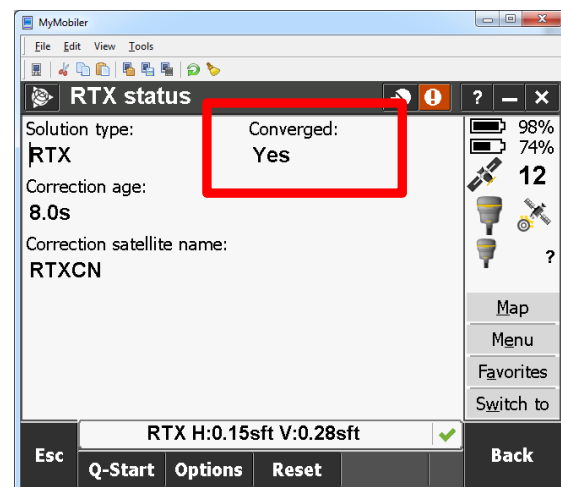
Click on Satellite to check status



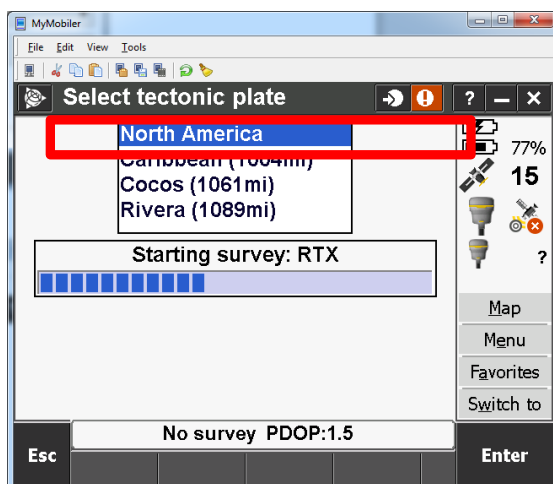
Measure points



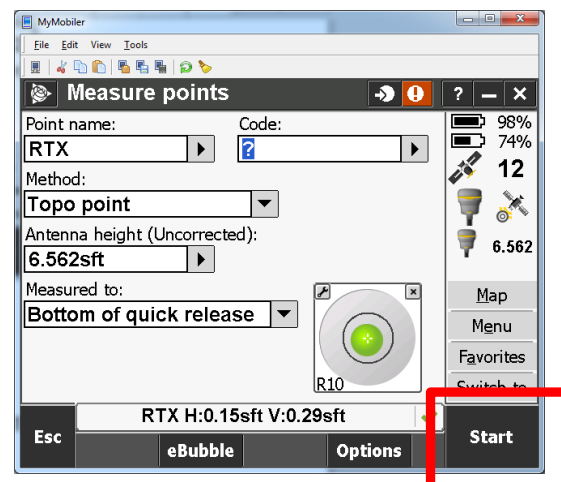
After 30 minutes it will converge



Select tectonic plate

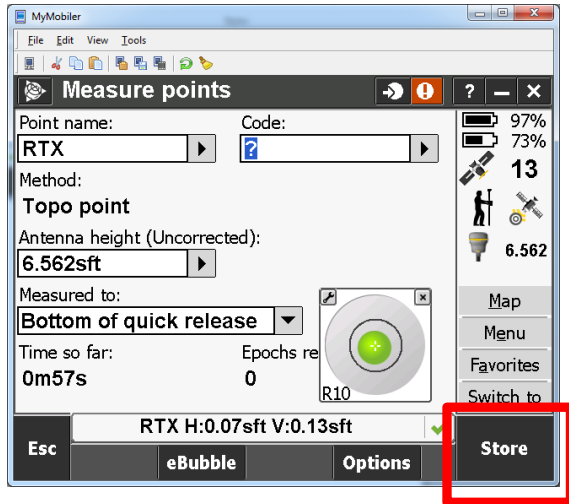


Start Measuring

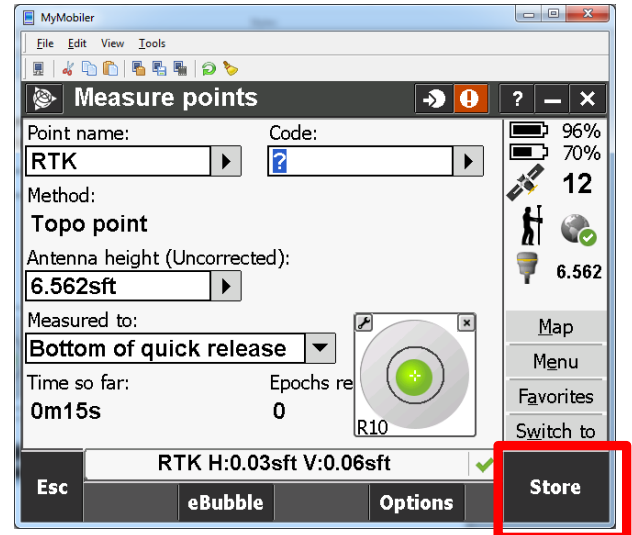




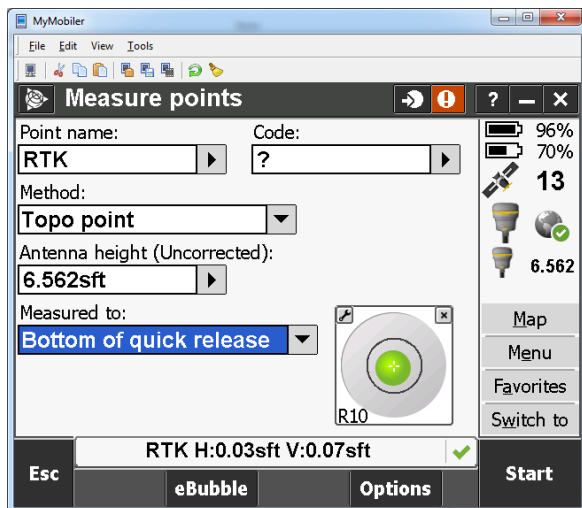
Store RTX point



Store the RTK point

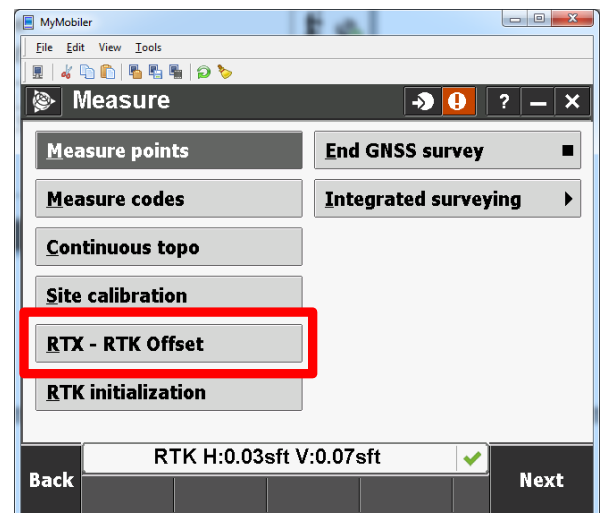


Start measuring an RTK point

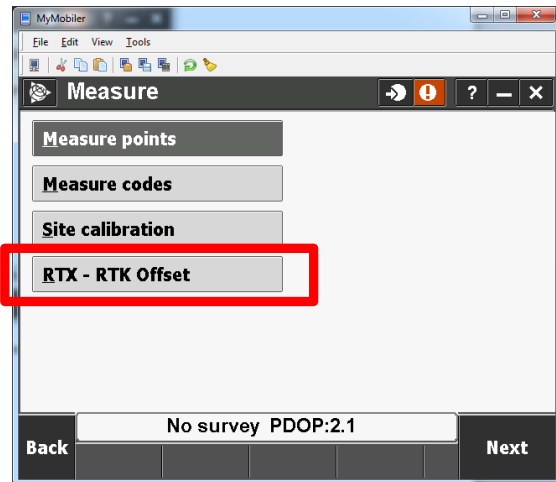


Once you have at least one RTX point and One RTK shot you can do RTX – RTK offset or Site Calibration.

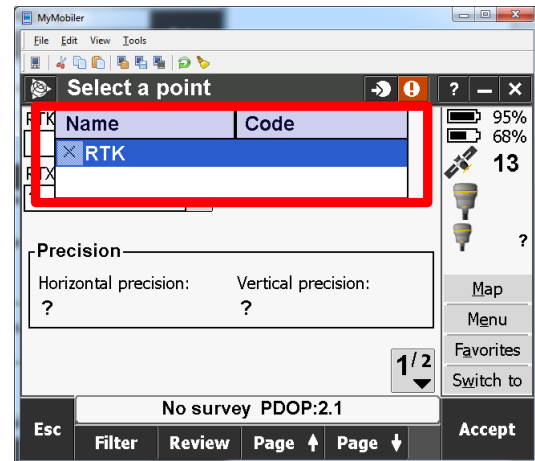
From the RTK measure menu you will see the options below



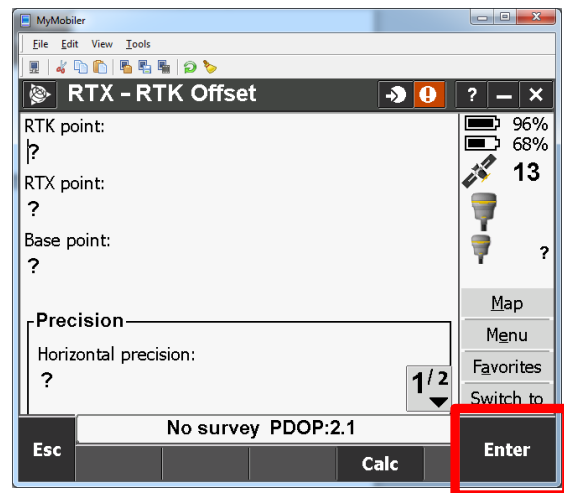
From the RTX measure menu select



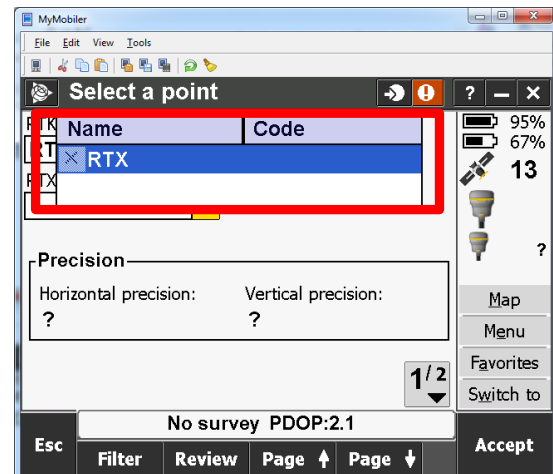
Select your RTK shot (Labeled RTK)



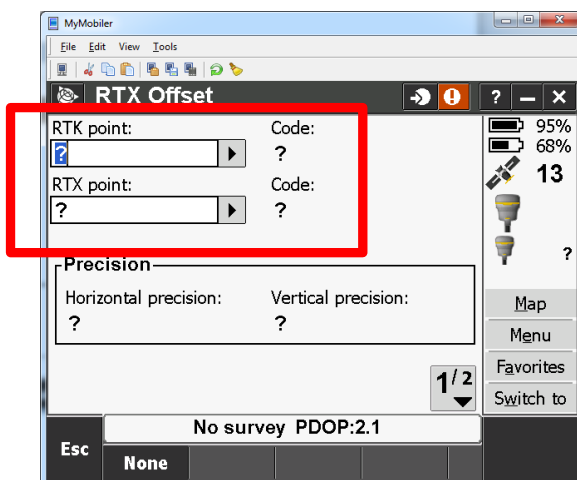
RTX – RTX Offset



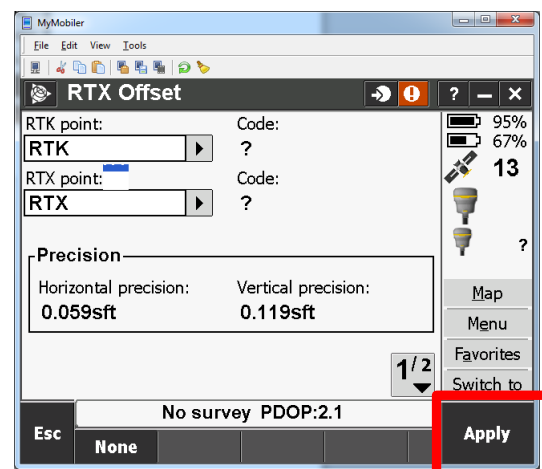
Select RTX shot (Labeled RTK)



Hit Calc to select the RTX and RTK shots

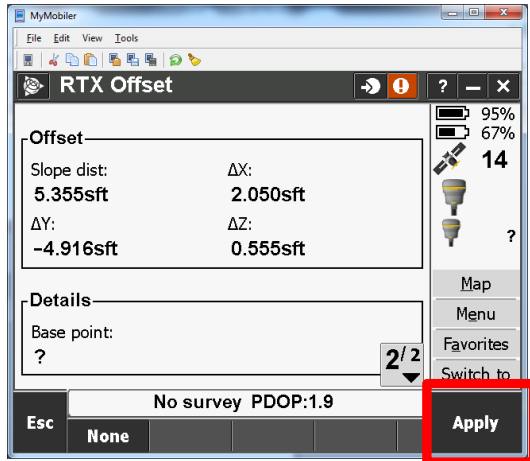


You will see that the H and V precision has been calculated





And your offset has been measured



Click apply to apply the offset then hit enter to confirm the changes

