



## Route Map with JMapCreator OneAdvisor 800

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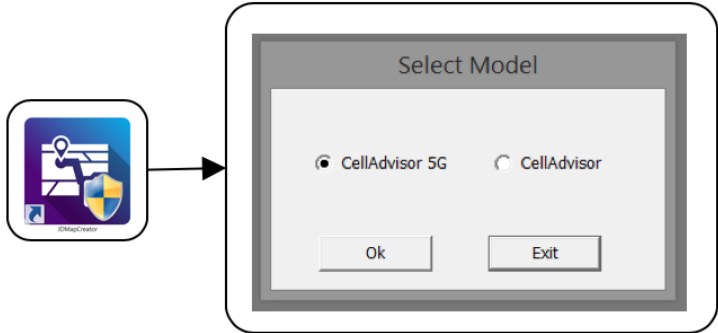
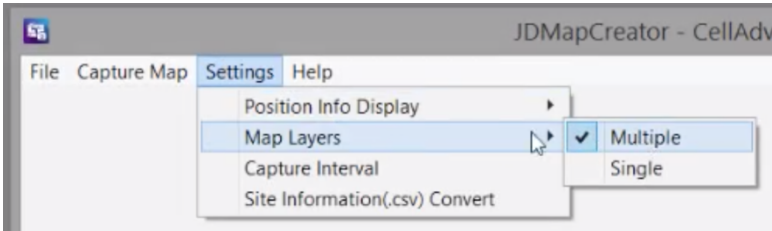
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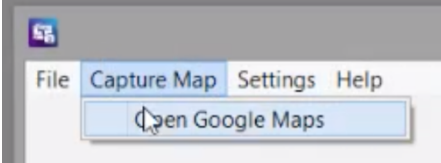
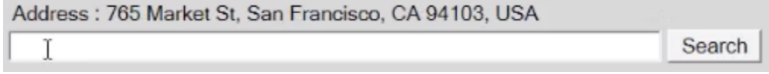
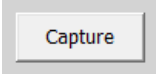
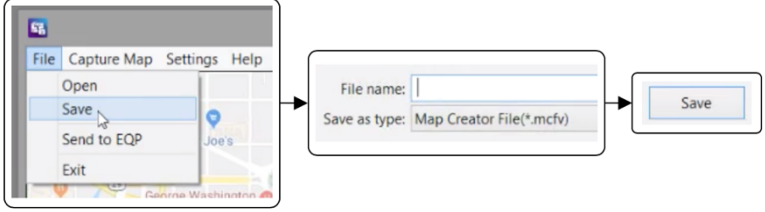
# 1. Route Map

The following procedure describes the steps to perform Route Map with the ONA.

## 1.1 Maps with JMapCreator

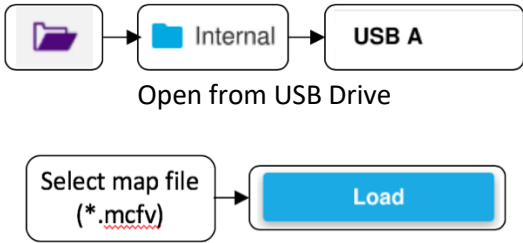
The following procedure describes the steps to create maps for Route Map with the ONA.

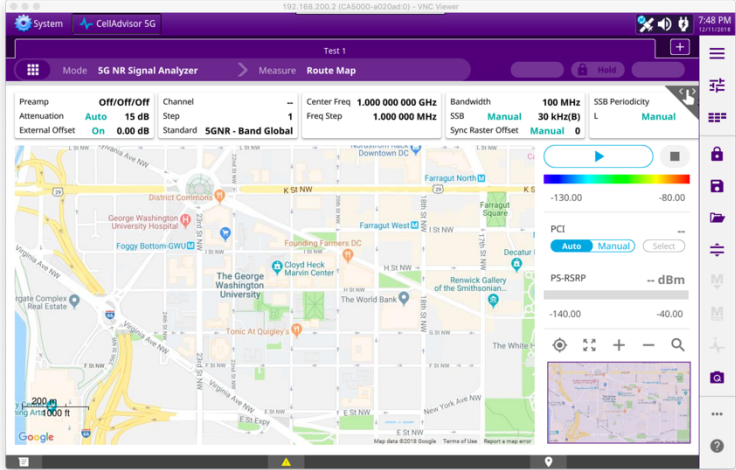

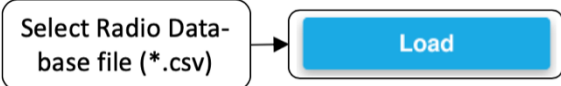
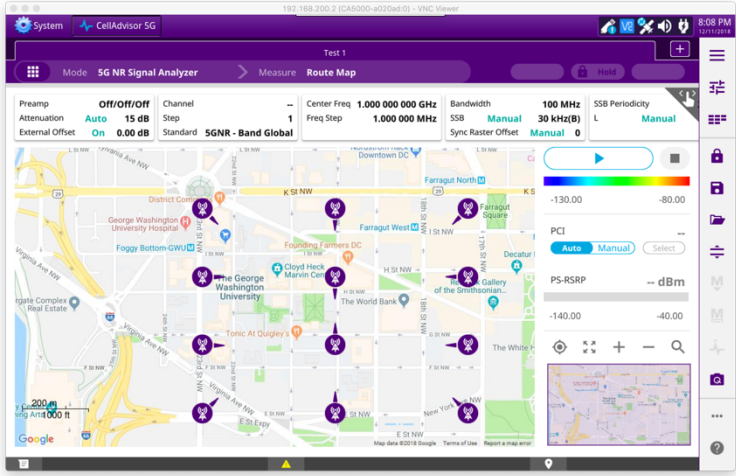


Step	Action	Description
1	Open JMapCreator	<p>Run the application software JMapCreator* and select the CellAdvisor platform type, for example, [CellAdvisor 5G]:</p>  <p style="text-align: center;">JMapCreator &gt; CellAdvisor 5G</p> <p><i>*Note: JMapCreator is a free application software of Viavi Solutions' CellAdvisor instruments that can be downloaded at <a href="http://celladvisor.updatemyunit.net/">http://celladvisor.updatemyunit.net/</a> on the section CellAdvisor AppSW</i></p>
2	<p>Set the number of map layers to be created:</p> <ul style="list-style-type: none"> <li>- Select Settings</li> <li>- Select Map Layers</li> <li>- Select Single or Multiple</li> </ul>	<p>Configure the number of layers to be created on the map:</p> <ul style="list-style-type: none"> <li>a. Single, creates 1-layer map (no zooming)</li> <li>b. Multiple, creates 3-layer map (zooming available)</li> </ul>  <p style="text-align: center;">Multiple Map Layers</p>
3	<p>Create a geo-coordinates map.</p> <ul style="list-style-type: none"> <li>- Select Capture Map</li> </ul>	<p>To set a map with geo-coordinates select [Capture Map], [Open Google Maps], as follows:</p>

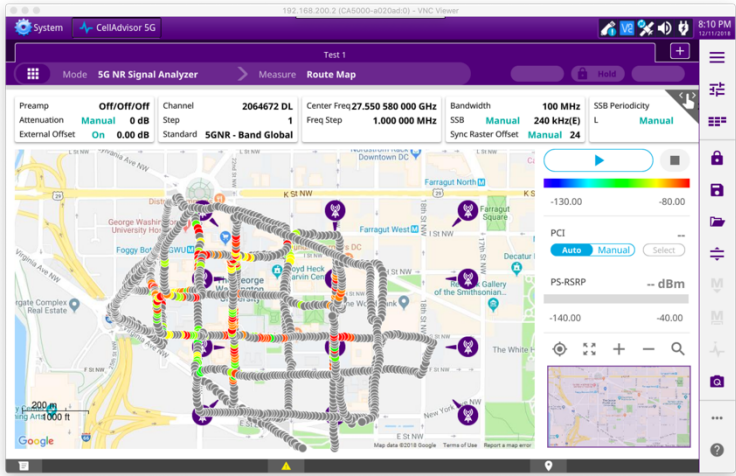

Step	Action	Description
	<ul style="list-style-type: none"> <li>- Select Open Google Maps</li> <li>- Enter the Address of interest</li> <li>- Select Search</li> <li>- Select Capture</li> </ul>	 <p>Capture Map &gt; Open Google Maps</p> <p>Search the location of the interest test area by entering the address in the [Address] field, as follows:</p>  <p>Search Address</p> <p>Once the test area has been located, select [Capture] to create the single or multi-layer map, as follows:</p>  <p>Map Capture</p>
4	<p>Save the created map into a USB memory:</p> <ul style="list-style-type: none"> <li>- Select File</li> <li>- Select Save</li> <li>- Enter the file name</li> <li>- Select Save button</li> </ul> <p><b>Note:</b> Make sure the map file (*.mcfv) is saved on a USB memory drive.</p>	<p>Save the map into a USB memory device:</p>  <p>File &gt; Save &gt; File Name &gt; Save</p>

### 1.1.1 Route Map Test

The following procedure describes the steps to perform 5G NR Route Map Test with the CellAdvisor 5G.

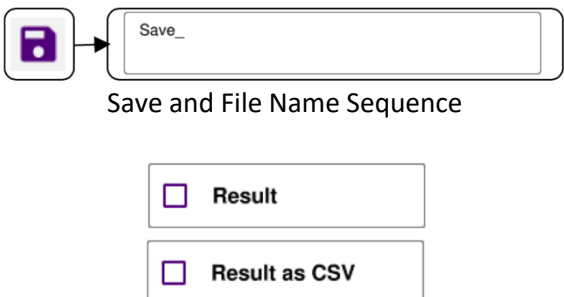
Step	Action	Description
1	<p>To set a measurement area map, select:</p> <ul style="list-style-type: none"> <li>- Create a map of the area of interest to test coverage using the JDMapCreator application (Section 2.4.1)</li> </ul>	 <p>Open from USB Drive</p> <p>Load Map Sequence</p>





Step	Action	Description
	<ul style="list-style-type: none"> <li>- Plug the USB memory device into the ONA USB port</li> <li>- Load the map by selecting the folder icon, select the internal icon, select the USB icon, select the map file, and select Load</li> </ul>	 <p style="text-align: center;"><b>5G NR Route Map</b></p>
2	<p>To include an overlay in the route map with the radio location's location, do the following:</p> <ul style="list-style-type: none"> <li>- In the radio data-base template file (*.csv) edit the information of each radio.</li> <li>- Save the radio data-base file (*.csv) in a USB device.</li> <li>- Plug the USB device with the radio data-base file (*.csv)</li> <li>- Select the open icon</li> <li>- Select the source location USB</li> <li>- Select the radio data-base file (*.csv)</li> <li>- Select "Load"</li> </ul>	<div style="text-align: center;">  <p>Open &gt; Internal &gt; USB</p>  <p>Select Radio Data-base &gt; Load</p> </div>  <p style="text-align: center;"><b>5G NR Route Map with Radio Location Overlay</b></p>
3	<p>Conduct Measurements</p> <ul style="list-style-type: none"> <li>- Select the setup icon and set plotting measurements based on GPS or Position</li> <li>- Select the Play icon</li> </ul>	<div style="text-align: center;">  <p>Select the Plot Setting</p>  </div>

Step	Action	Description
	<ul style="list-style-type: none"> <li>- Start the drive-test or walk-test</li> <li>- Select the pause icon to suspend taking measurements or stop icon to finish the measurement</li> </ul> <p><b>Notes:</b></p> <ol style="list-style-type: none"> <li>1. Measurements based on GPS plotting will be done automatically according to GPS coordinates. Make sure the GPS antenna is connected to the CellAdvisor 5G and is locked, the geo-coordinates will be displayed in the bottom right corner.</li> <li>2. Measurements based on Position will be done by tapping directly into the map</li> </ol>	<p style="text-align: center;">Select the Play Icon</p>  <p style="text-align: center;">5G NR Route Map Measurement Screen</p>  <p style="text-align: center;">Select the Pause or Stop Icon</p>

## 1.2 Save Measurements

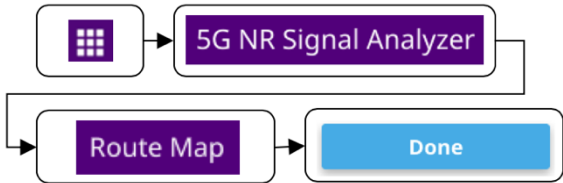
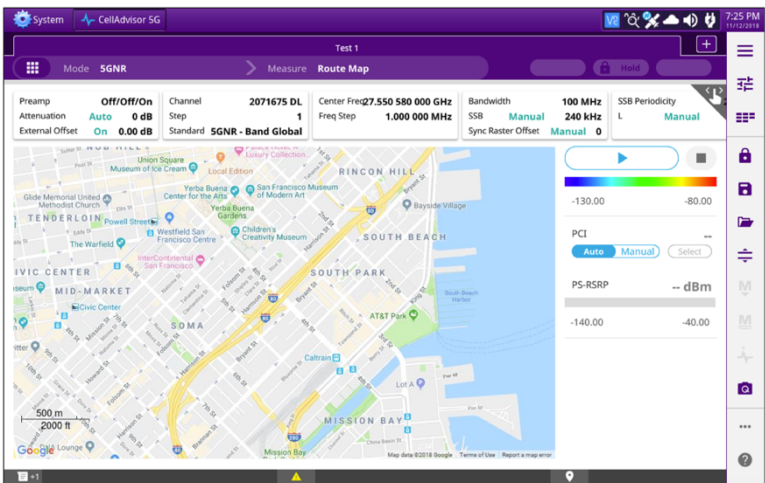
The following procedure describes the steps to save measurements with the CellAdvisor 5G.

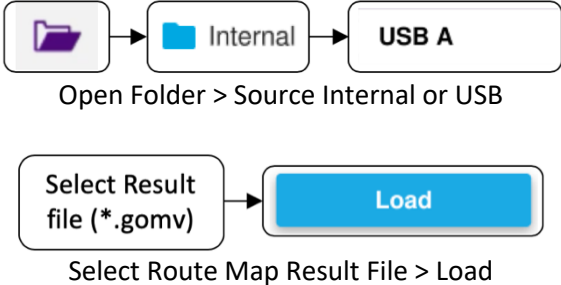
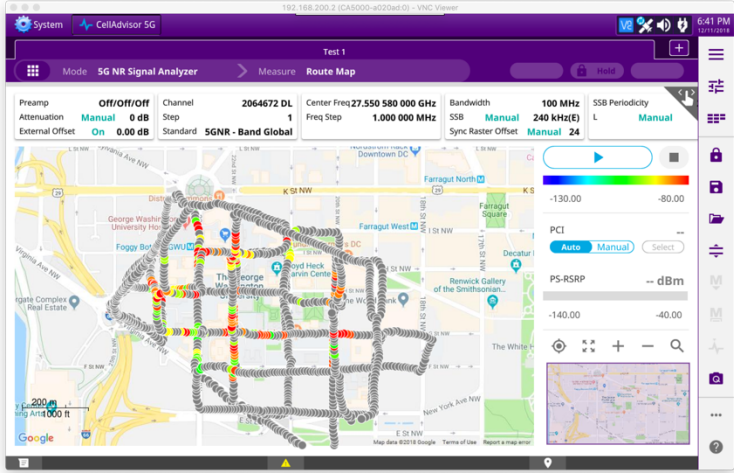
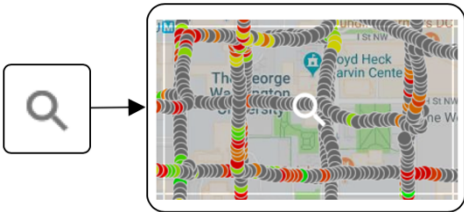
Step	Action	Description
1	<p>Saving measurements</p> <ul style="list-style-type: none"> <li>- Select the save icon and enter file name</li> <li>- Select the type of file to save: <ul style="list-style-type: none"> <li>o Result (to be replayed or post-processed by the CellAdvisor 5G)</li> </ul> </li> </ul>	 <p style="text-align: center;">Save and File Name Sequence</p>

Step	Action	Description
	<ul style="list-style-type: none"> <li>○ Result as CSV, to be post-processed by a PC application</li> <li>○ Screen, as a picture</li> <li>- Select the destination to save the file</li> <li>- Select "Save"</li> </ul>	<div style="text-align: center;">  <p>File Type as Result, Result as CSV or Screen</p>   <p>Select the destination either Internal or USB</p>  <p>Select Save</p> </div>

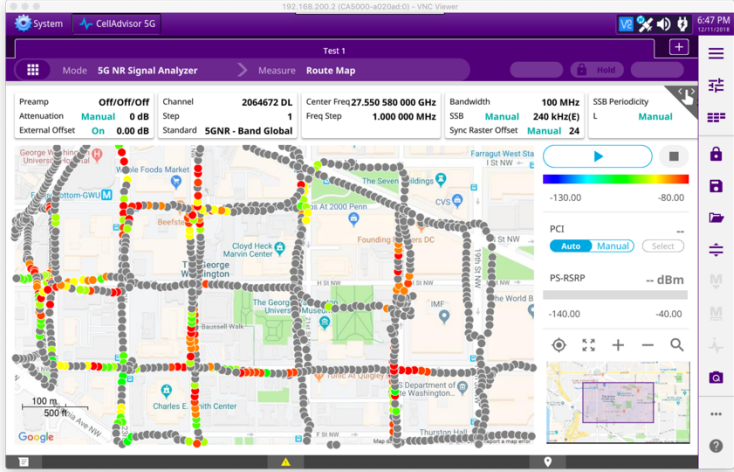
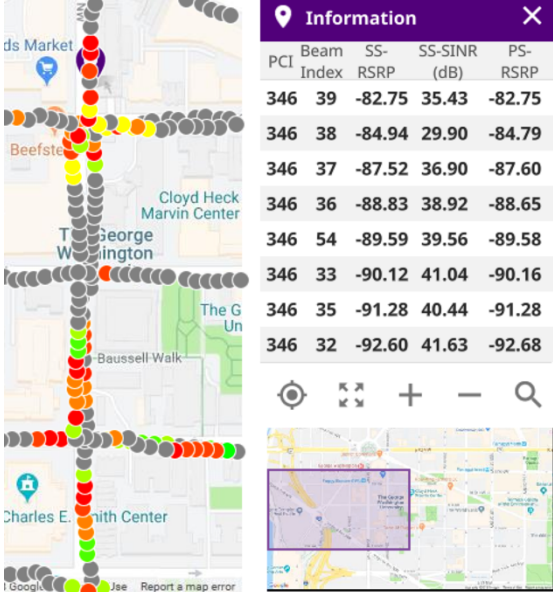

### 1.3 Post-Processing Route Map Data

The following procedure describes the steps to post-process the route map measurement data with the CellAdvisor 5G.

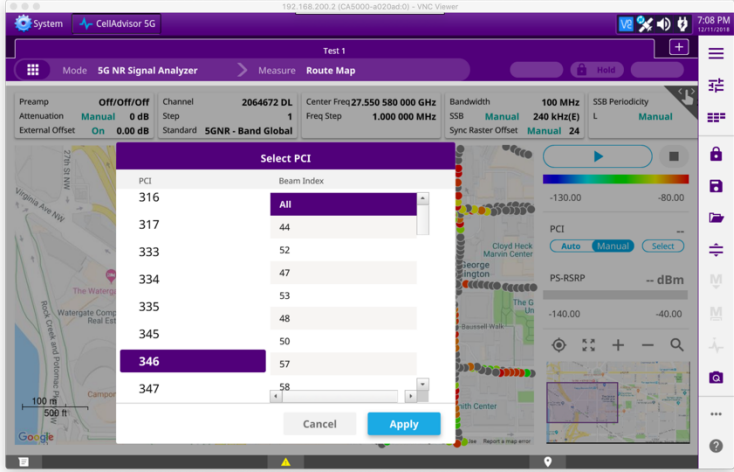
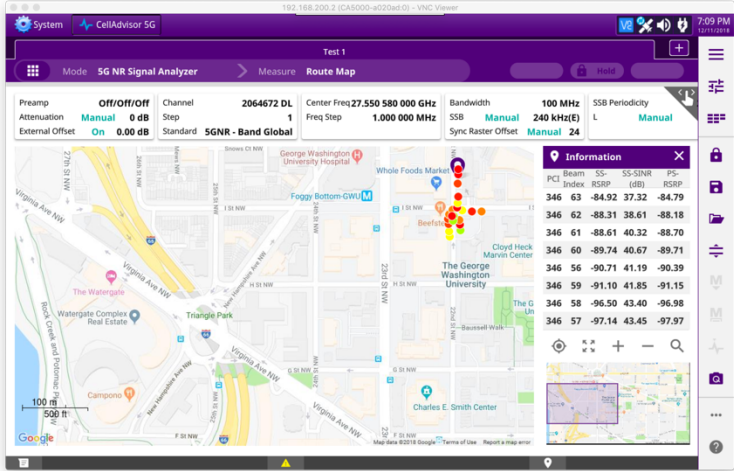

Step	Action	Description
1	Set the measurement mode to 5G NR Route Map: <ul style="list-style-type: none"> <li>- Select Measurement Mode icon</li> <li>- Select "5G NR Signal Analyzer"</li> <li>- Select "Route Map" icon</li> <li>- Select "Done"</li> </ul>	<div style="text-align: center;">  <p>5G NR Route Map Measurement Mode</p> </div>  <p>CellAdvisor 5G NR Route Map Mode</p>

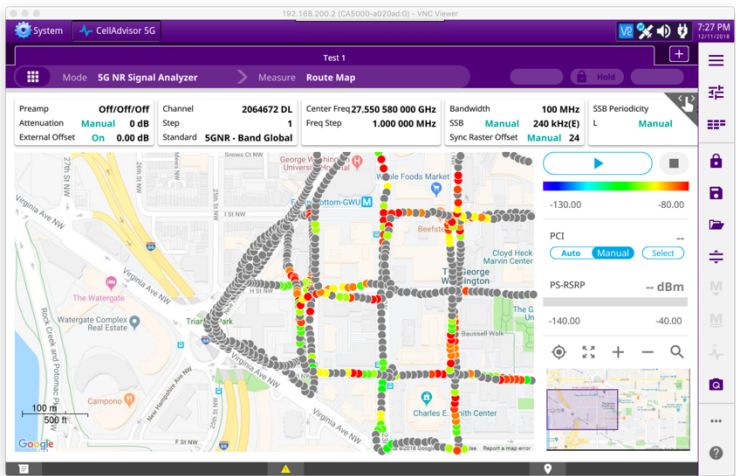

Step	Action	Description
2	<p>Open the Route Map Result file (*.gomv):</p> <ul style="list-style-type: none"> <li>- Select the Folder Icon</li> <li>- Select the source location, Internal or USB</li> <li>- Select the Route Map Result file (*.gomv)</li> <li>- Select "Load"</li> </ul>	 <p>Open Folder &gt; Source Internal or USB</p> <p>Select Route Map Result File &gt; Load</p>  <p>5G NR Route Map Result</p>
3	<p>Map navigation (zoom-in):</p> <ul style="list-style-type: none"> <li>- Select magnifier icon</li> <li>- Select the area of interest to zoom-in</li> </ul>	 <p>5G NR Route Map Zoom Area</p>



Step	Action	Description																																													
		 <p style="text-align: center;">5G NR Route Map Zoom-In</p>																																													
4	Beam information on data points: - Select any measurement point.	 <p style="text-align: center;">Result Data Beam Information</p> <table border="1" data-bbox="1003 821 1292 1178"> <thead> <tr> <th>PCI</th> <th>Beam Index</th> <th>SS-RSRP</th> <th>SS-SINR (dB)</th> <th>PS-RSRP</th> </tr> </thead> <tbody> <tr><td>346</td><td>39</td><td>-82.75</td><td>35.43</td><td>-82.75</td></tr> <tr><td>346</td><td>38</td><td>-84.94</td><td>29.90</td><td>-84.79</td></tr> <tr><td>346</td><td>37</td><td>-87.52</td><td>36.90</td><td>-87.60</td></tr> <tr><td>346</td><td>36</td><td>-88.83</td><td>38.92</td><td>-88.65</td></tr> <tr><td>346</td><td>54</td><td>-89.59</td><td>39.56</td><td>-89.58</td></tr> <tr><td>346</td><td>33</td><td>-90.12</td><td>41.04</td><td>-90.16</td></tr> <tr><td>346</td><td>35</td><td>-91.28</td><td>40.44</td><td>-91.28</td></tr> <tr><td>346</td><td>32</td><td>-92.60</td><td>41.63</td><td>-92.68</td></tr> </tbody> </table>	PCI	Beam Index	SS-RSRP	SS-SINR (dB)	PS-RSRP	346	39	-82.75	35.43	-82.75	346	38	-84.94	29.90	-84.79	346	37	-87.52	36.90	-87.60	346	36	-88.83	38.92	-88.65	346	54	-89.59	39.56	-89.58	346	33	-90.12	41.04	-90.16	346	35	-91.28	40.44	-91.28	346	32	-92.60	41.63	-92.68
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346	35	-91.28	40.44	-91.28																																											
346	32	-92.60	41.63	-92.68																																											
5	Filtering the Result data (PCI and beams): - If the beam information is displayed, select its close icon "X". - Select PCI to "Manual" - Select the "Select" button - Select the PCI and beam of interest - Select "Apply" button	 <p style="text-align: center;">PCI set to Manual &gt; Select</p>																																													

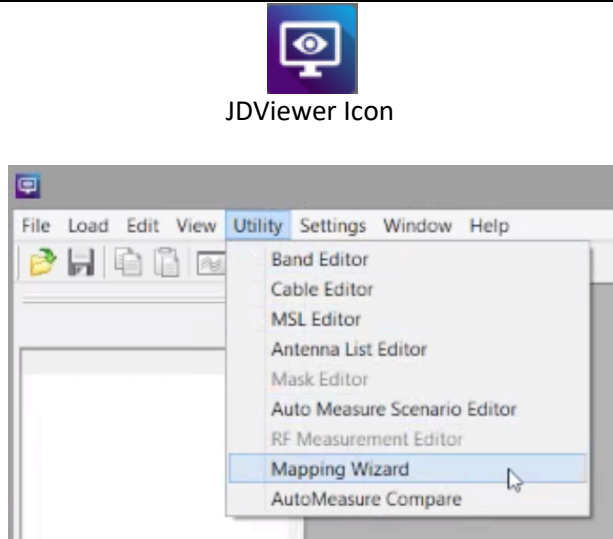


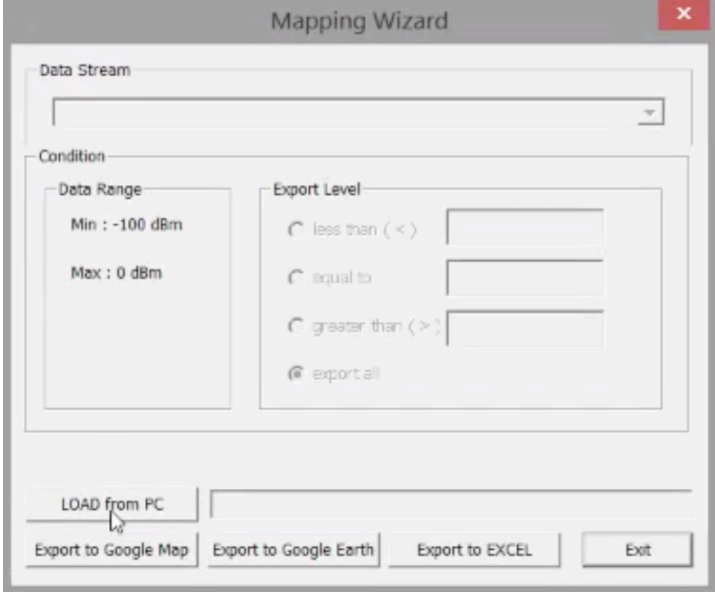

Step	Action	Description
		 <p>Select PCI and Beams to filter &gt; Apply</p>  <p>5G NR Route Map Filtered</p>
6	View all the Result data: <ul style="list-style-type: none"> <li>- Select the “Select” icon</li> <li>- Select “All”</li> <li>- Select “Apply”</li> </ul>	 <p>Select &gt; All PCI &gt; Apply</p>

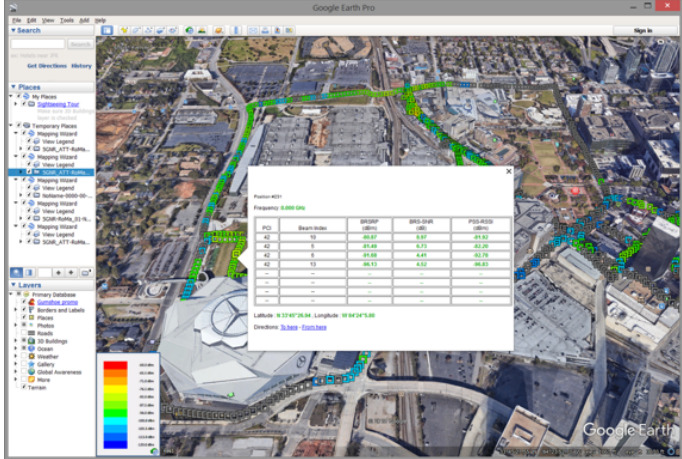
Step	Action	Description
		 <p>5G NR Route Map with all PCI data points</p>
7	Map navigation (zoom-out): - Select the icon with 4 outward arrows	

## 1.4 Exporting Route Map Data

The following procedure describes the steps to export the route map measurement data to google earth (\*.kml) or google map (\*.html) file formats.

Step	Action	Description
1	JDViewer Application: - Launch JDViewer application - Select Utility from the top menu - Select Mapping Wizard from the drop-down menu	 <p>JDViewer Icon</p> <p>Utility &gt; Mapping Wizard</p>

Step	Action	Description
2	<p>Load and Export Route Map Data:</p> <ul style="list-style-type: none"> <li>- Select LOAD from PC</li> <li>- Select the desired Route Map Data (*.gomv) file</li> <li>- Select Open</li> <li>- Select the type of file to be exported, Google earth (*.kml) or Google map (*.html)</li> <li>- Enter the file name for the export file</li> </ul>	 <p>Open Folder &gt; Source Internal or USB</p> <pre> graph LR     A[LOAD from PC] --&gt; B[Select Result file (*.gomv)]     B --&gt; C[Open]     </pre> <p>Select Route LOAD from PC &gt; Select Route Map Data file (*.gomv) &gt; Select Open</p> <pre> graph LR     D[Export to Google Map] --&gt; E[Enter File Name]     F[Export to Google Earth] --&gt; E     E --&gt; G[Save]     </pre> <p>Select the type to export the Route Map Data: Google Earth (*.kml) or Google Map (*.html), Enter the file name and select Save.</p>  <p>Google Map Route Map</p>

Step	Action	Description
		 <p data-bbox="873 730 1170 762">Google Earth Route Map</p>

## 2. Technical Support

Technical support is provided by:

- Phone: 1-844-GO-VIAVI (1-844-468-4284) options 3-2-3
- Email: [diagnostics.tac@viavisolutions.com](mailto:diagnostics.tac@viavisolutions.com)

Regularly new firmware updates for the OneAdvisor-800 are released and it is recommended to keep the instrument in the latest firmware to provide all the enhancements and bug fixes.

- For additional information of cell site test go to:  
<http://www.viavisolutions.com/en/products/network-test-and-certification/cell-site-test>