Above are data from three dialects of Yoruba and a closely related sister language Ebira. Develop an OT analysis of these data using the Agree framework of Bakovic. Are there any problems encountered? What about an analysis utilizing spans from McCarthy?

1. Ebira phonemes [+ATR] i u [-ATR] e o a

   - {e,o} and {e,a} do not co-occur in a word
     - oze road ohe house pillar
     - obo rope ṣọpọ mask
     - ece wine edọ antelope
     - ose wife ḋe world

   - possible mid and high vowel combinations
     - isu rat isu sickness
     - uye meat ọnọ cow
     - ukere door ọkọ work
     - okuku imaginary being ecku bone

   - low vowels
     - ayi measles ira fire
     - ako cup ọba vulture
     - aọ salt epa root
     - aje egg ọpa arrow

     ungrammatical: eCa, oCa, uCa, iCa

2. Yoruba phonemes [+ATR] i u [-ATR] e o a

<table>
<thead>
<tr>
<th>Standard</th>
<th>Ife</th>
<th>Ekiti</th>
</tr>
</thead>
<tbody>
<tr>
<td>ide</td>
<td>ide</td>
<td>ode</td>
</tr>
<tr>
<td>iyọ</td>
<td>iyọ</td>
<td>uyọ</td>
</tr>
<tr>
<td>igba</td>
<td>igba</td>
<td>ugbọ</td>
</tr>
<tr>
<td>igbo</td>
<td>igbo</td>
<td>ugbọ</td>
</tr>
<tr>
<td>ile</td>
<td>ile</td>
<td>ule</td>
</tr>
<tr>
<td>isu</td>
<td>isu</td>
<td>usu</td>
</tr>
<tr>
<td>-----------</td>
<td>-----------</td>
<td>-----------</td>
</tr>
<tr>
<td>etu</td>
<td>etu</td>
<td>etu</td>
</tr>
<tr>
<td>cbi</td>
<td>cbi</td>
<td>cbi</td>
</tr>
<tr>
<td>ewiri</td>
<td>ewiri</td>
<td>ewiri</td>
</tr>
<tr>
<td>eburu</td>
<td>eburu</td>
<td>eburu</td>
</tr>
<tr>
<td>egusi</td>
<td>egusi</td>
<td>egusi</td>
</tr>
<tr>
<td>eti</td>
<td>eti</td>
<td>eti</td>
</tr>
<tr>
<td>eku</td>
<td>eku</td>
<td>eku</td>
</tr>
<tr>
<td>erigi</td>
<td>erigi</td>
<td>erigi</td>
</tr>
<tr>
<td>ogiri</td>
<td>ogiri</td>
<td>ogiri</td>
</tr>
<tr>
<td>ebute</td>
<td>ebute</td>
<td>ebute</td>
</tr>
<tr>
<td>ewuro</td>
<td>euro</td>
<td>euro</td>
</tr>
<tr>
<td>oruko</td>
<td>oruko</td>
<td>oruko</td>
</tr>
<tr>
<td>odide</td>
<td>odide</td>
<td>odide</td>
</tr>
<tr>
<td>ewure</td>
<td>cure</td>
<td>cure</td>
</tr>
<tr>
<td>elubo</td>
<td>elubo</td>
<td>elubo</td>
</tr>
<tr>
<td>osupa</td>
<td>osupa</td>
<td>osupa</td>
</tr>
<tr>
<td>ewura</td>
<td>eura</td>
<td>eura</td>
</tr>
</tbody>
</table>