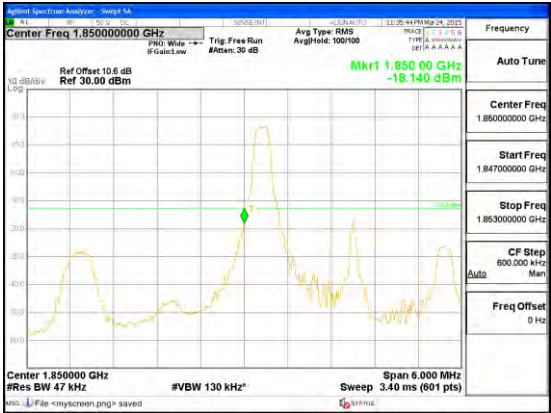
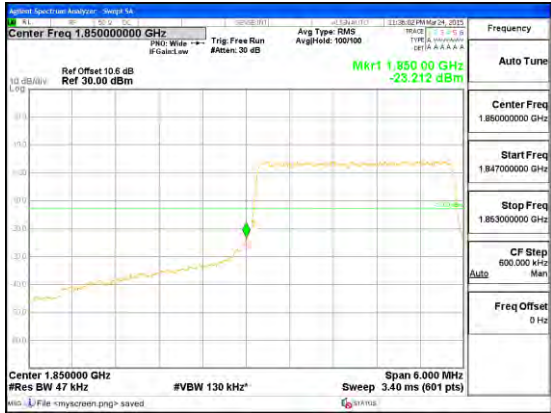
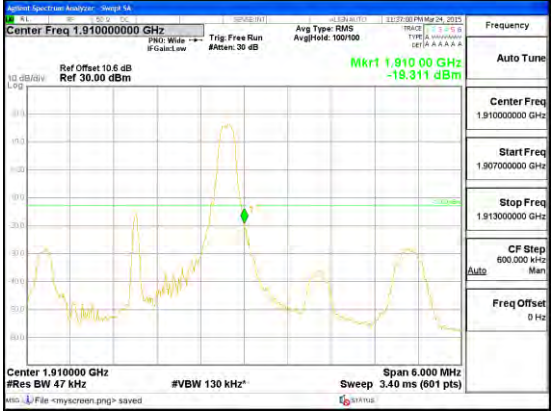

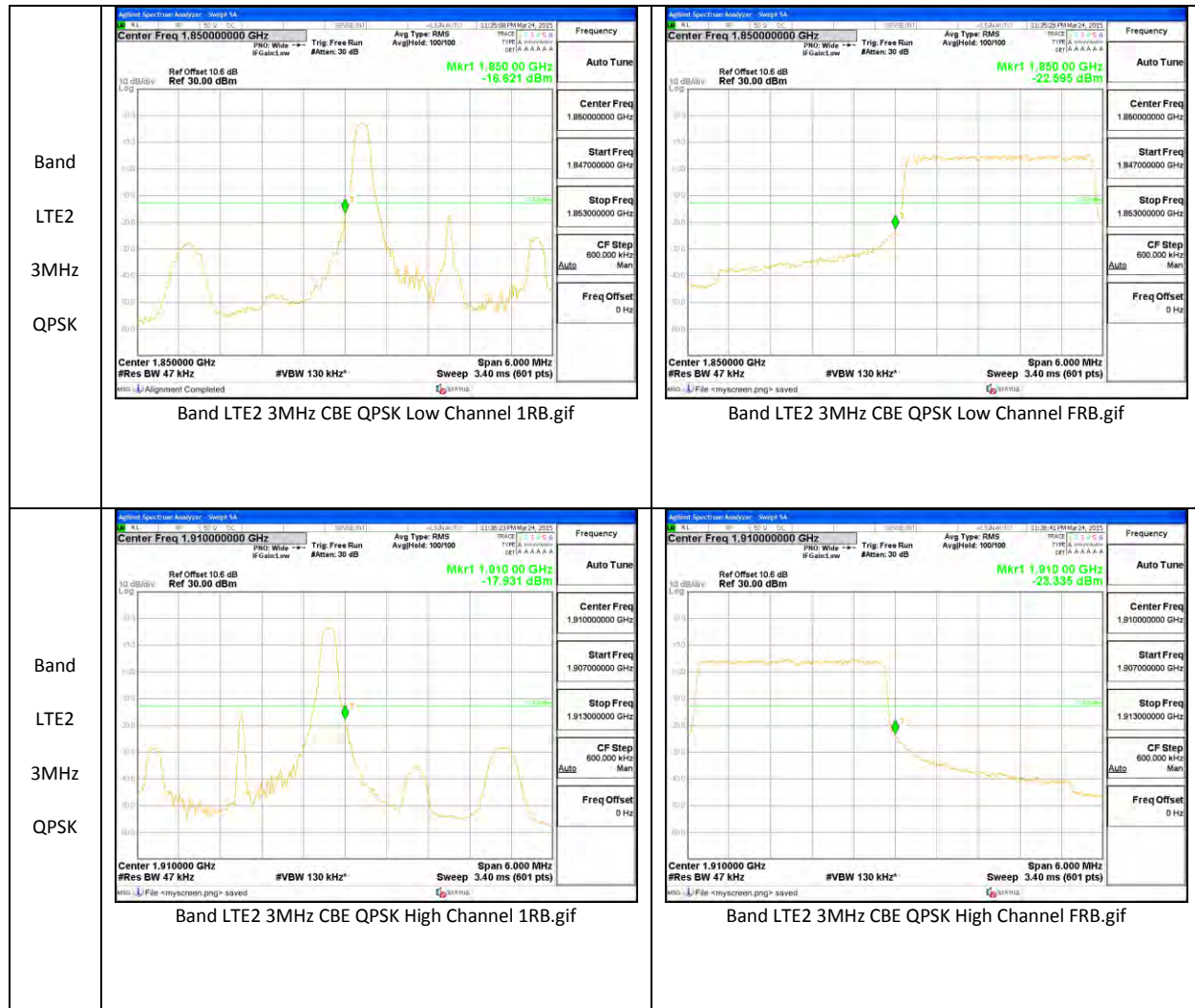
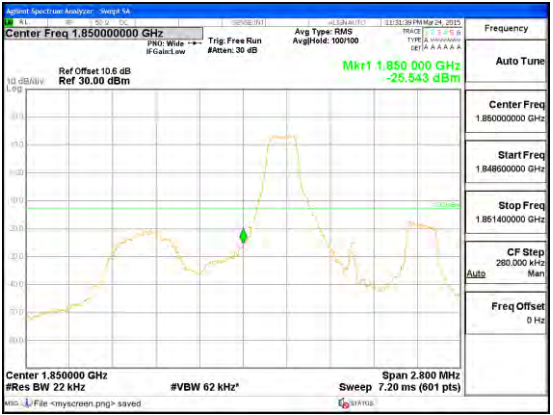
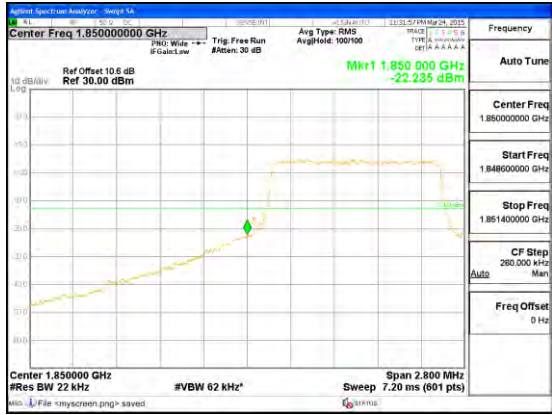
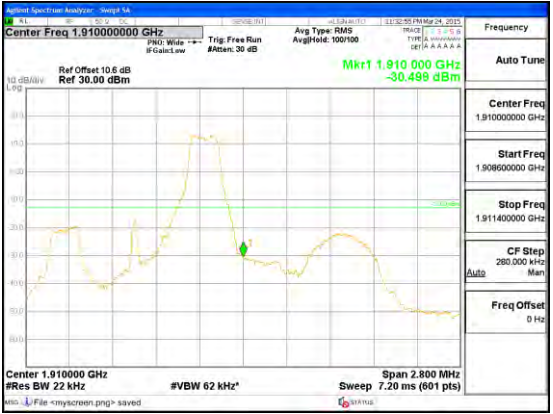
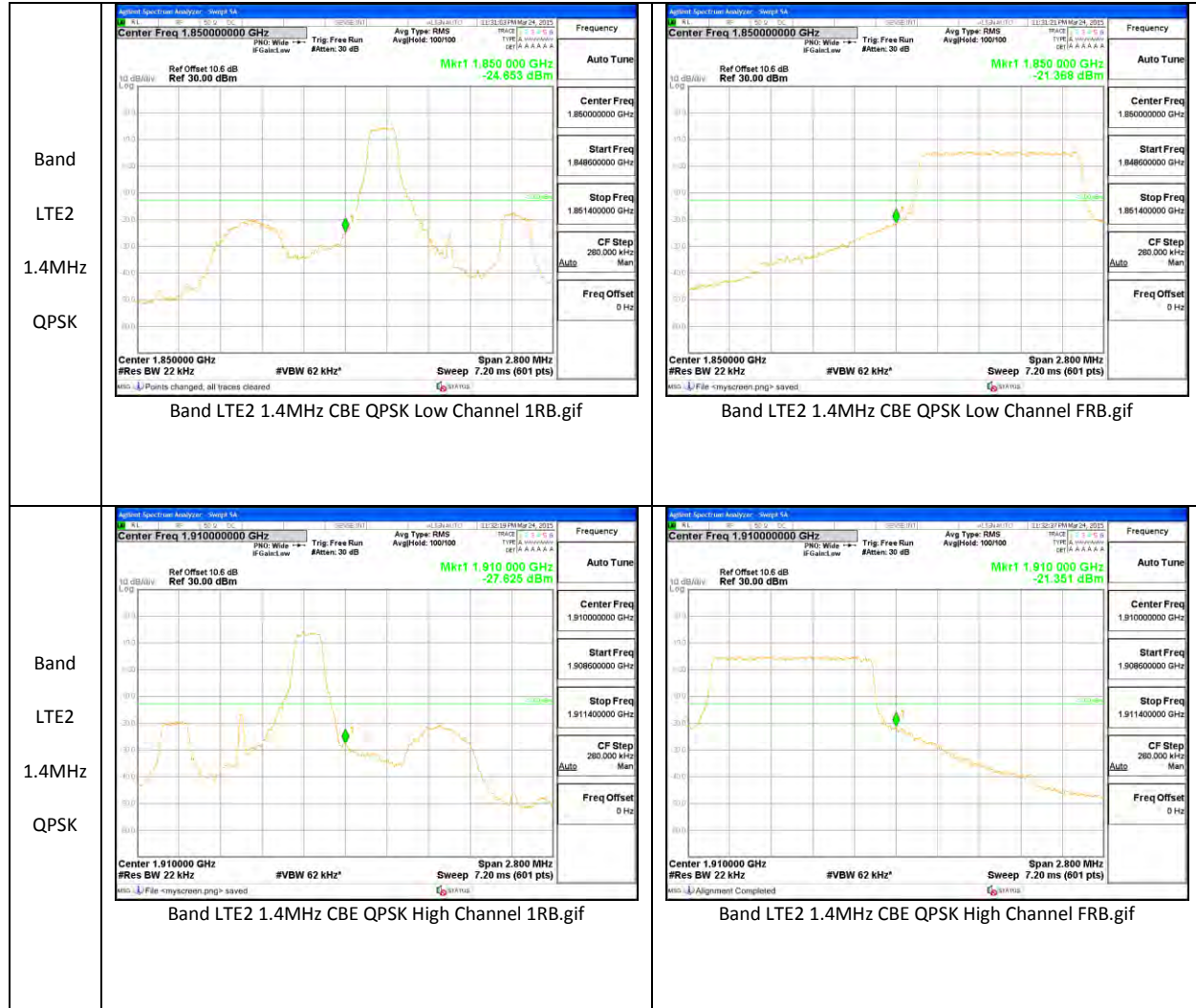


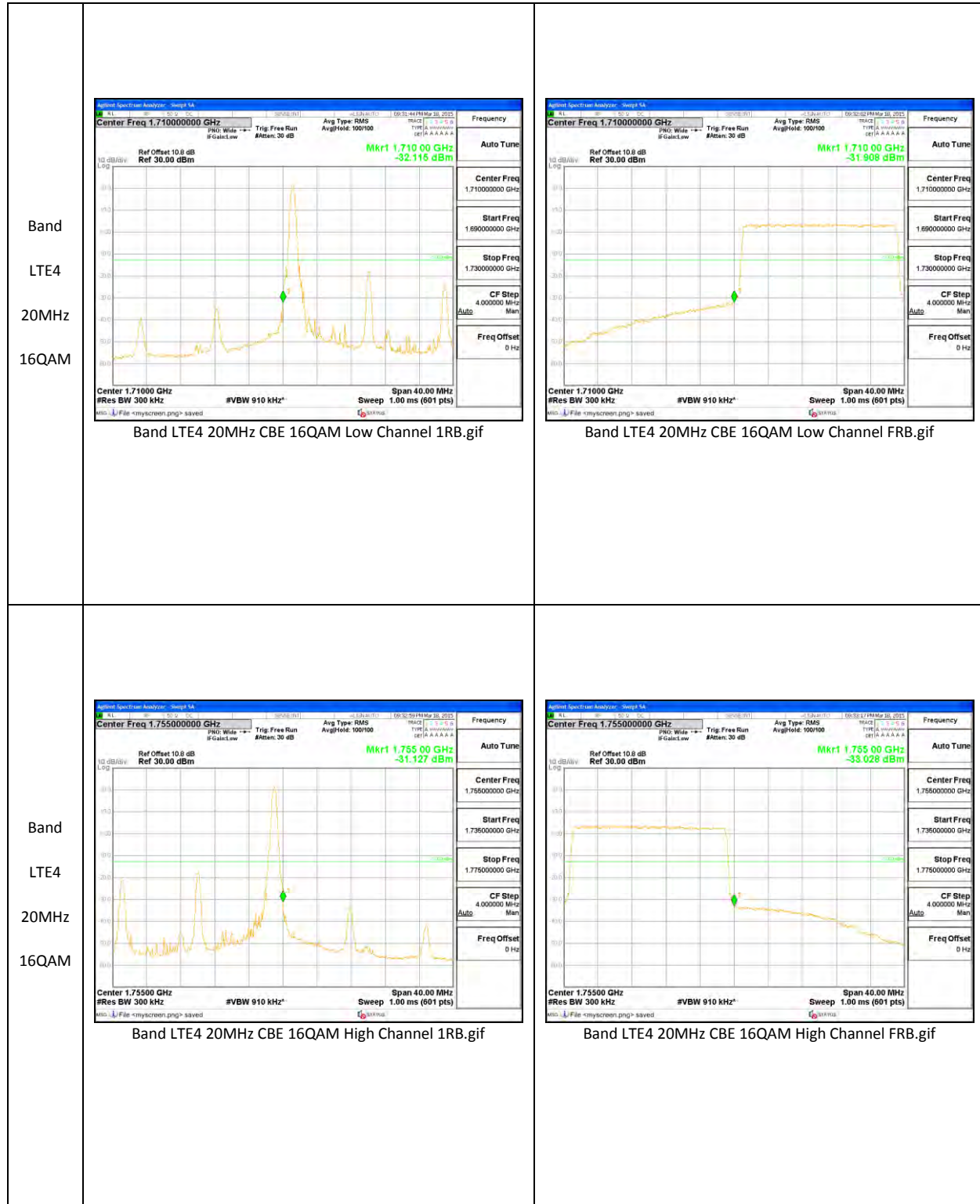
<p>Band LTE2 3MHz 16QAM</p>	 <p>Band LTE2 3MHz CBE 16QAM Low Channel 1RB.gif</p>	 <p>Band LTE2 3MHz CBE 16QAM Low Channel FRB.gif</p>
<p>Band LTE2 3MHz 16QAM</p>	 <p>Band LTE2 3MHz CBE 16QAM High Channel 1RB.gif</p>	 <p>Band LTE2 3MHz CBE 16QAM High Channel FRB.gif</p>

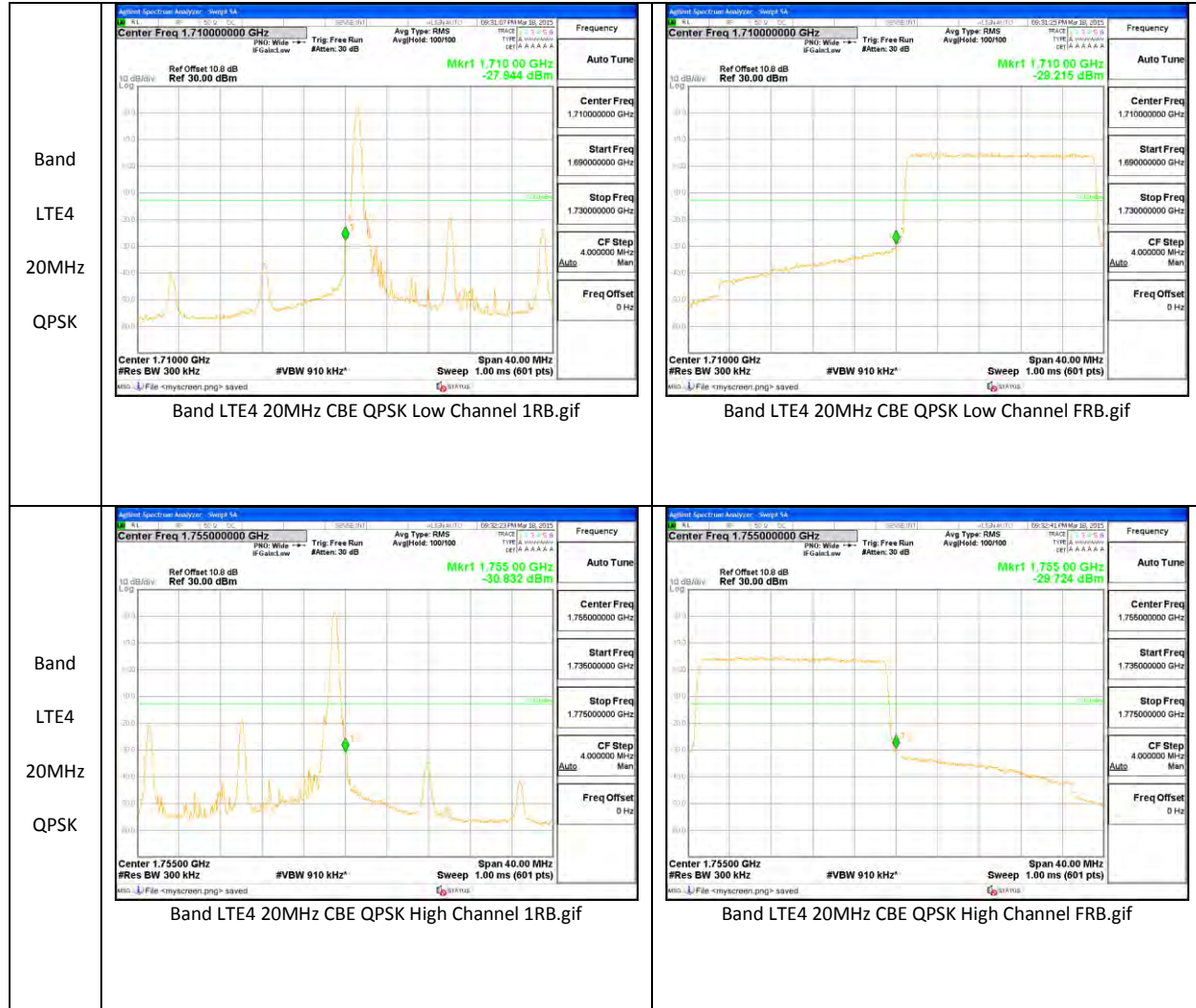


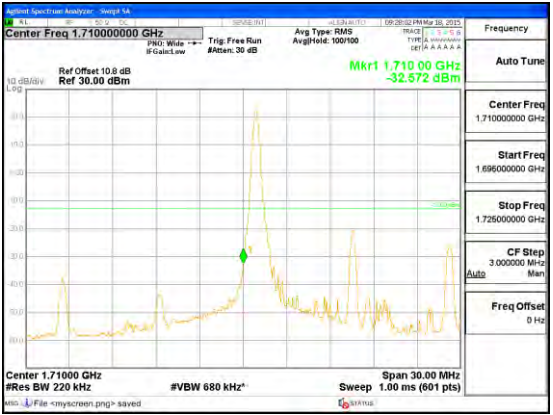

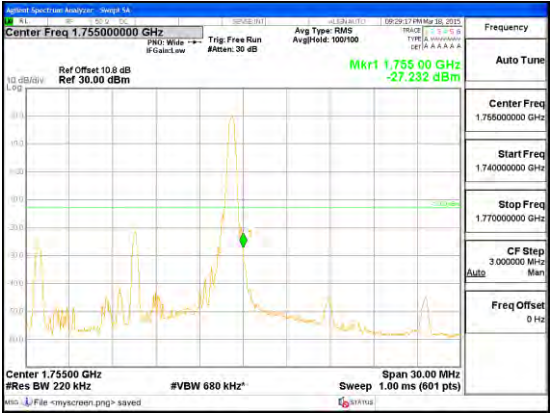

<p>Band LTE2 1.4MHz 16QAM</p>	 <p>Band LTE2 1.4MHz CBE 16QAM Low Channel 1RB.gif</p>	 <p>Band LTE2 1.4MHz CBE 16QAM Low Channel FRB.gif</p>
<p>Band LTE2 1.4MHz 16QAM</p>	 <p>Band LTE2 1.4MHz CBE 16QAM High Channel 1RB.gif</p>	 <p>Band LTE2 1.4MHz CBE 16QAM High Channel FRB.gif</p>



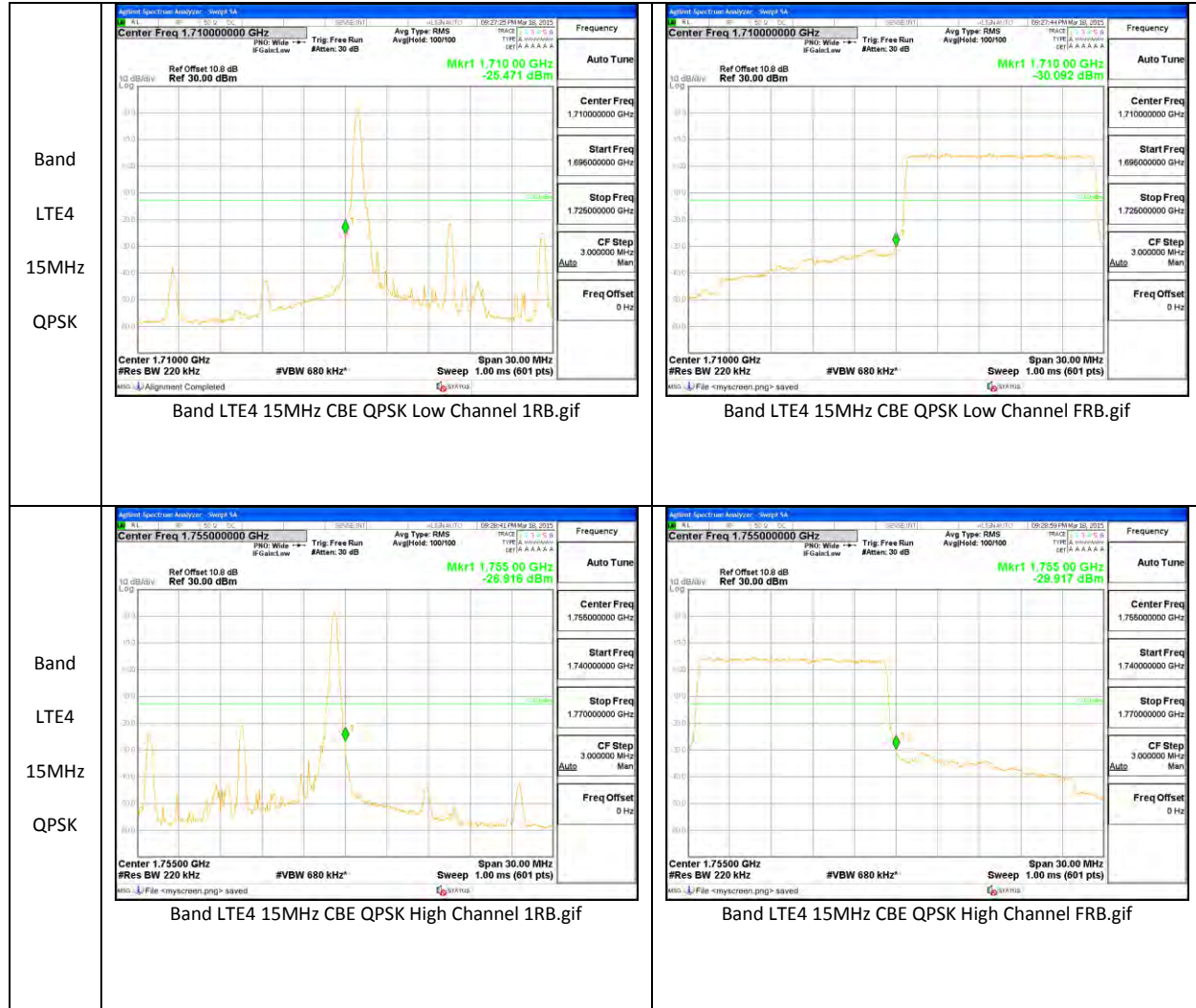
**LTE Band 4**

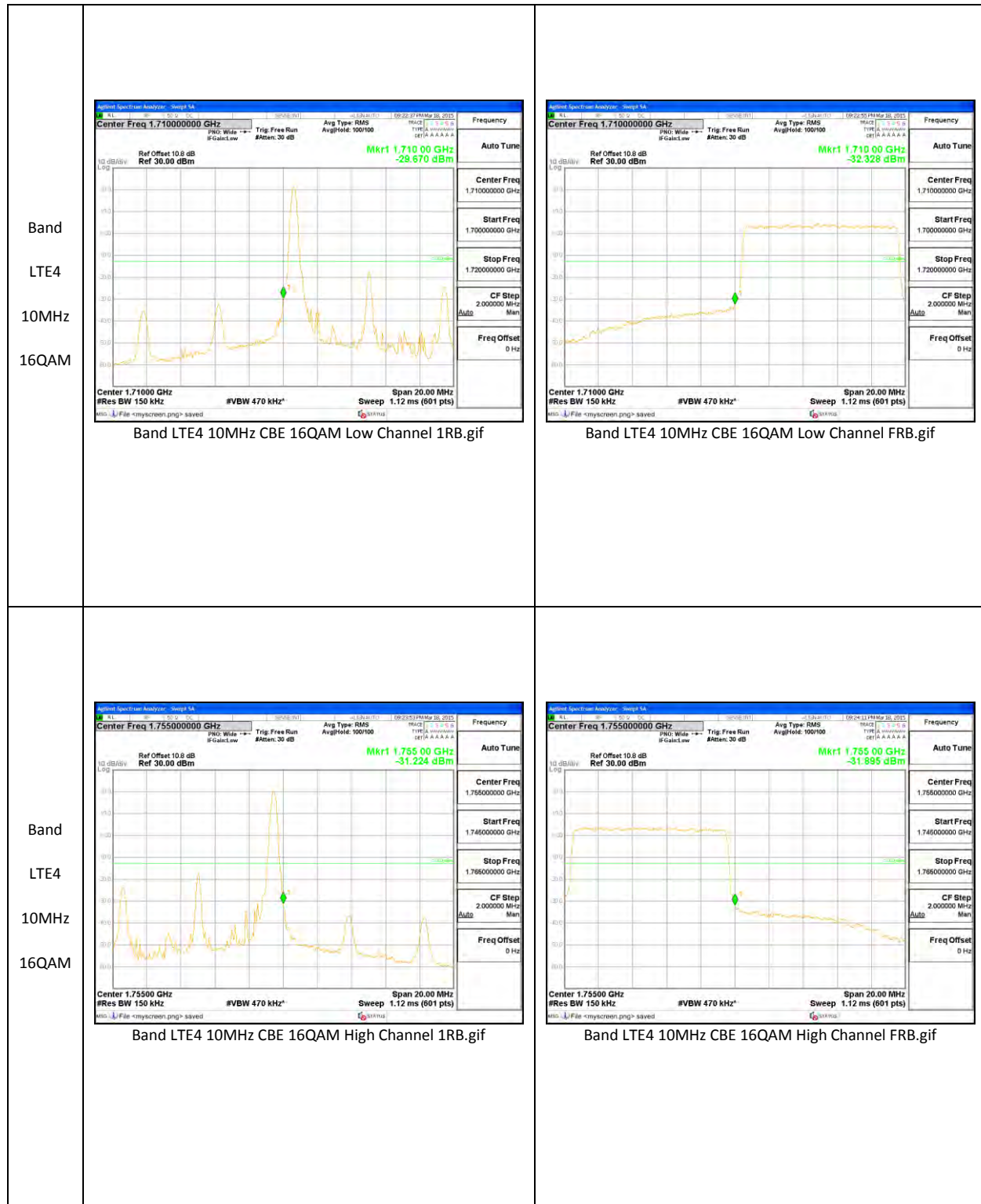


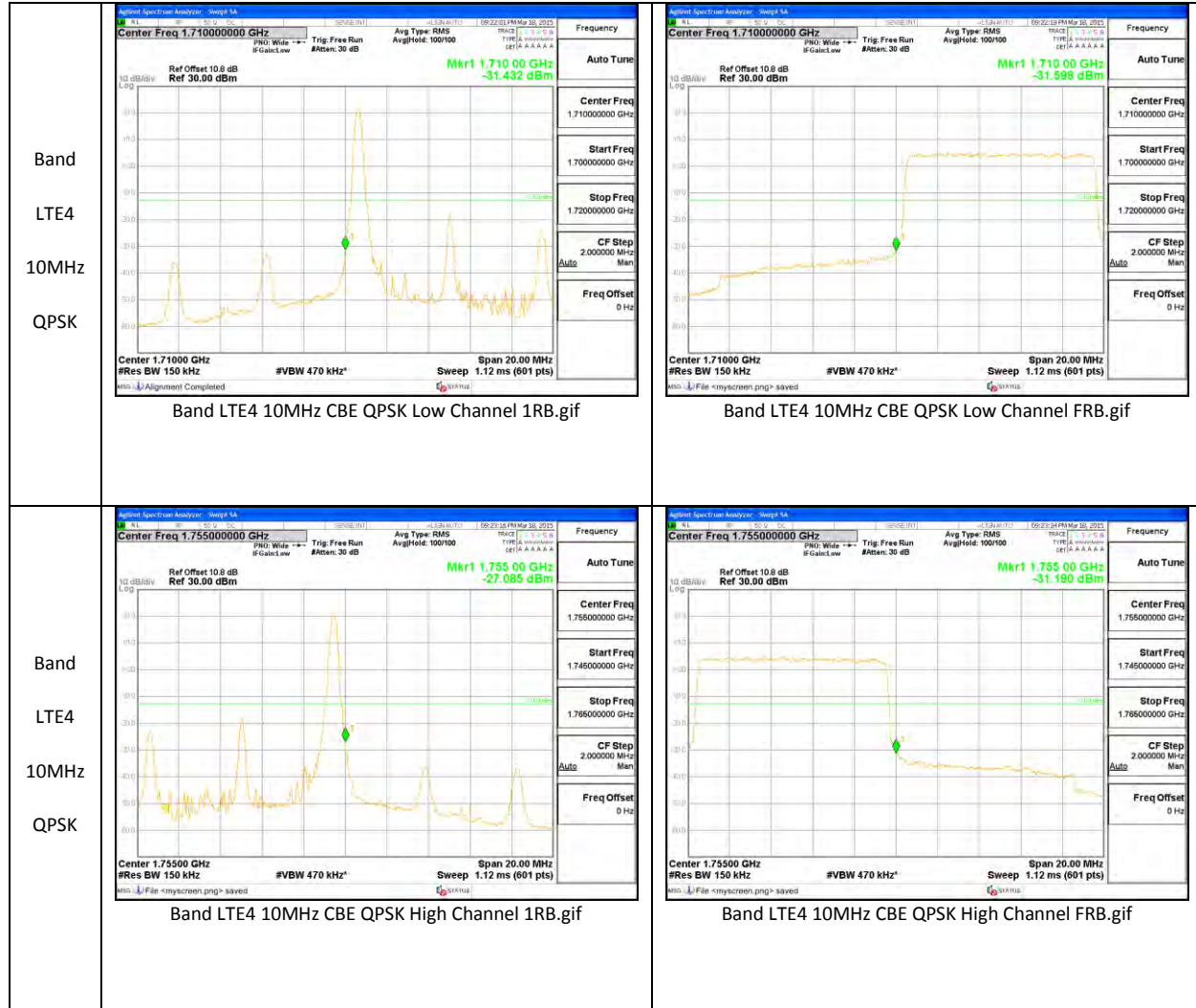


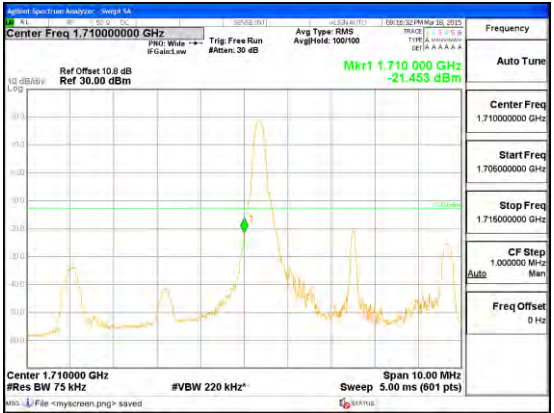

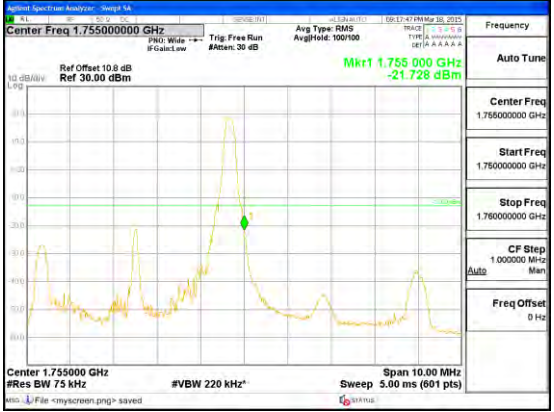

<p>Band LTE4 15MHz 16QAM</p>	 <p>Band LTE4 15MHz CBE 16QAM Low Channel 1RB.gif</p>	 <p>Band LTE4 15MHz CBE 16QAM Low Channel FRB.gif</p>
<p>Band LTE4 15MHz 16QAM</p>	 <p>Band LTE4 15MHz CBE 16QAM High Channel 1RB.gif</p>	 <p>Band LTE4 15MHz CBE 16QAM High Channel FRB.gif</p>

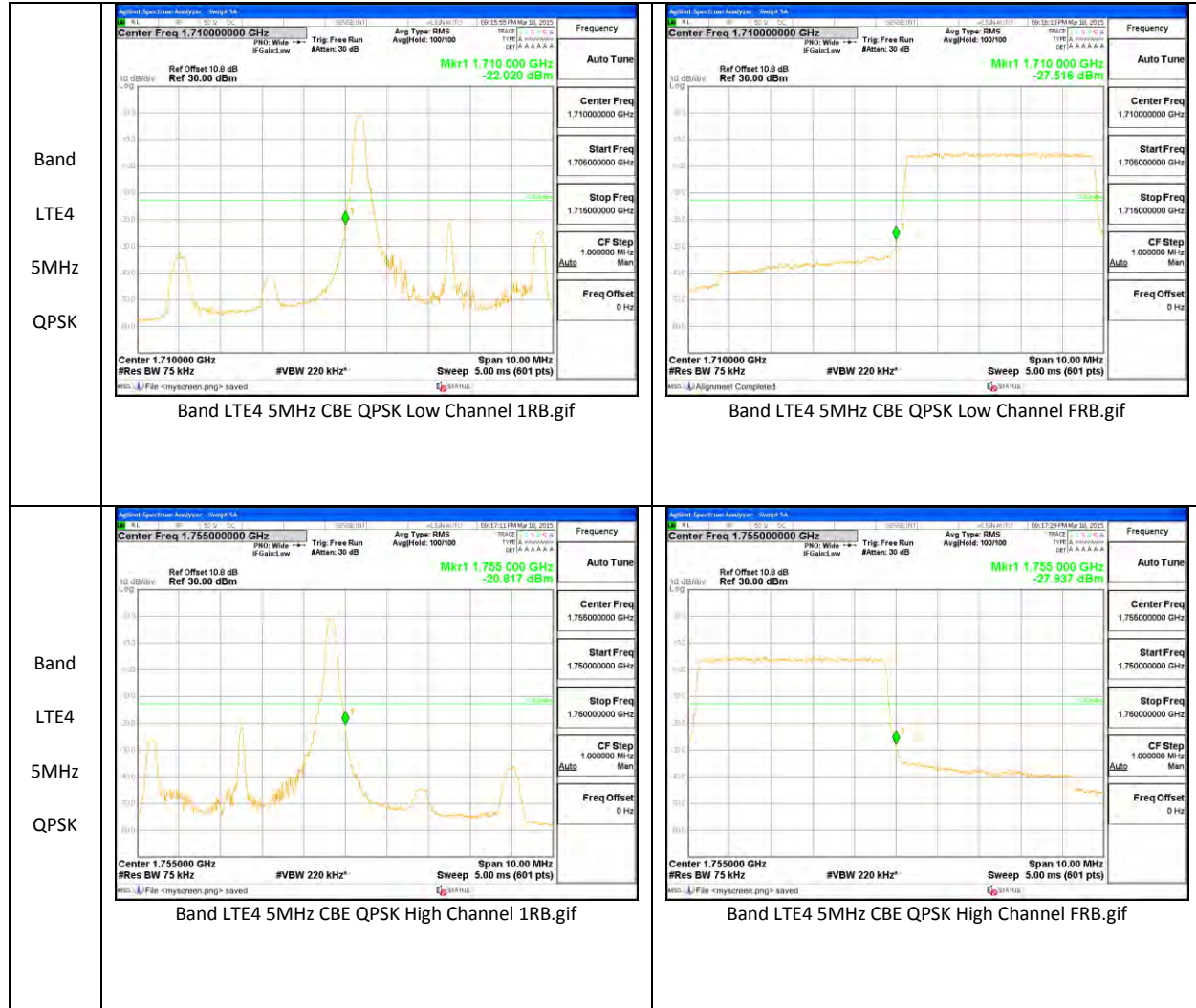


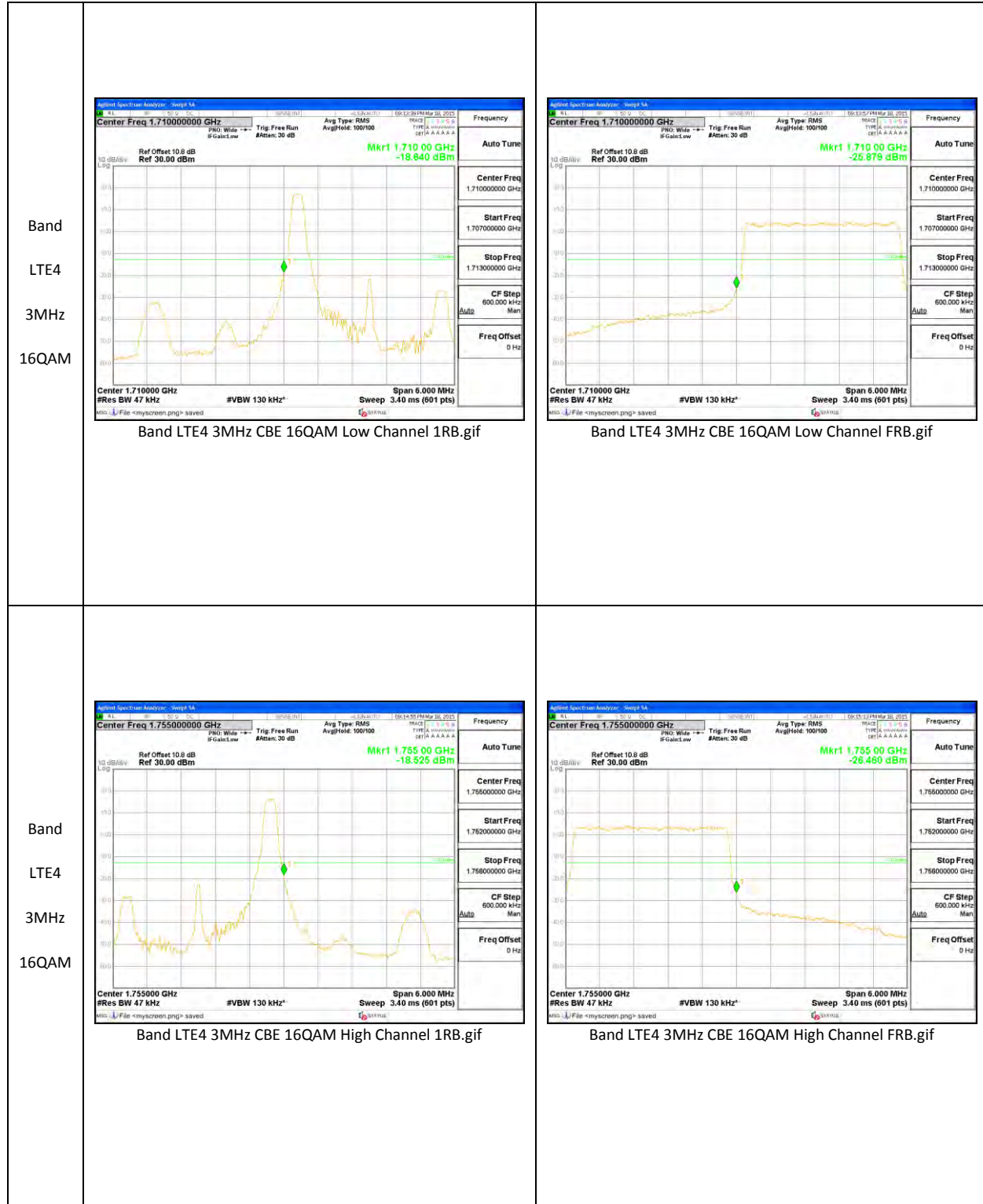


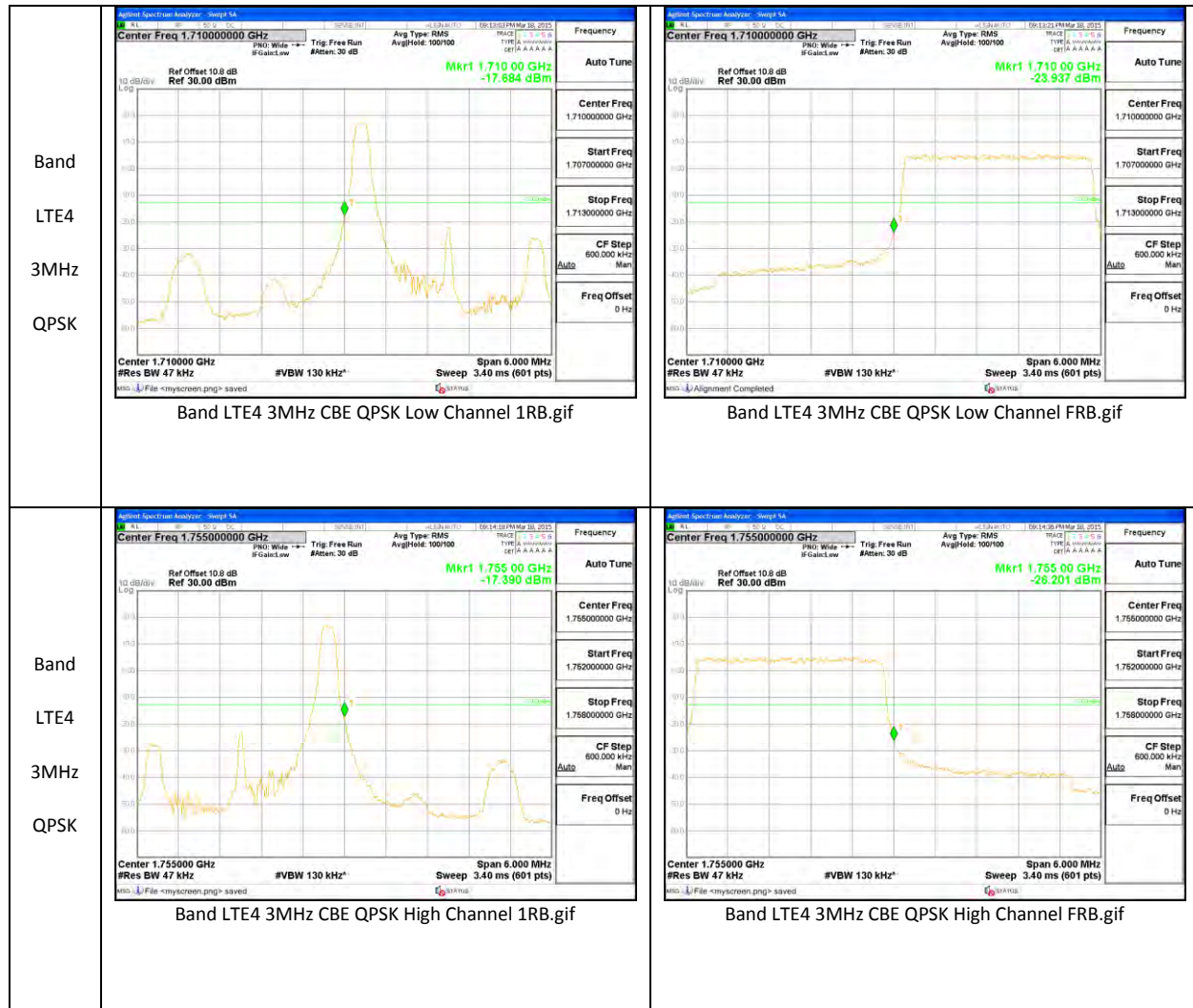


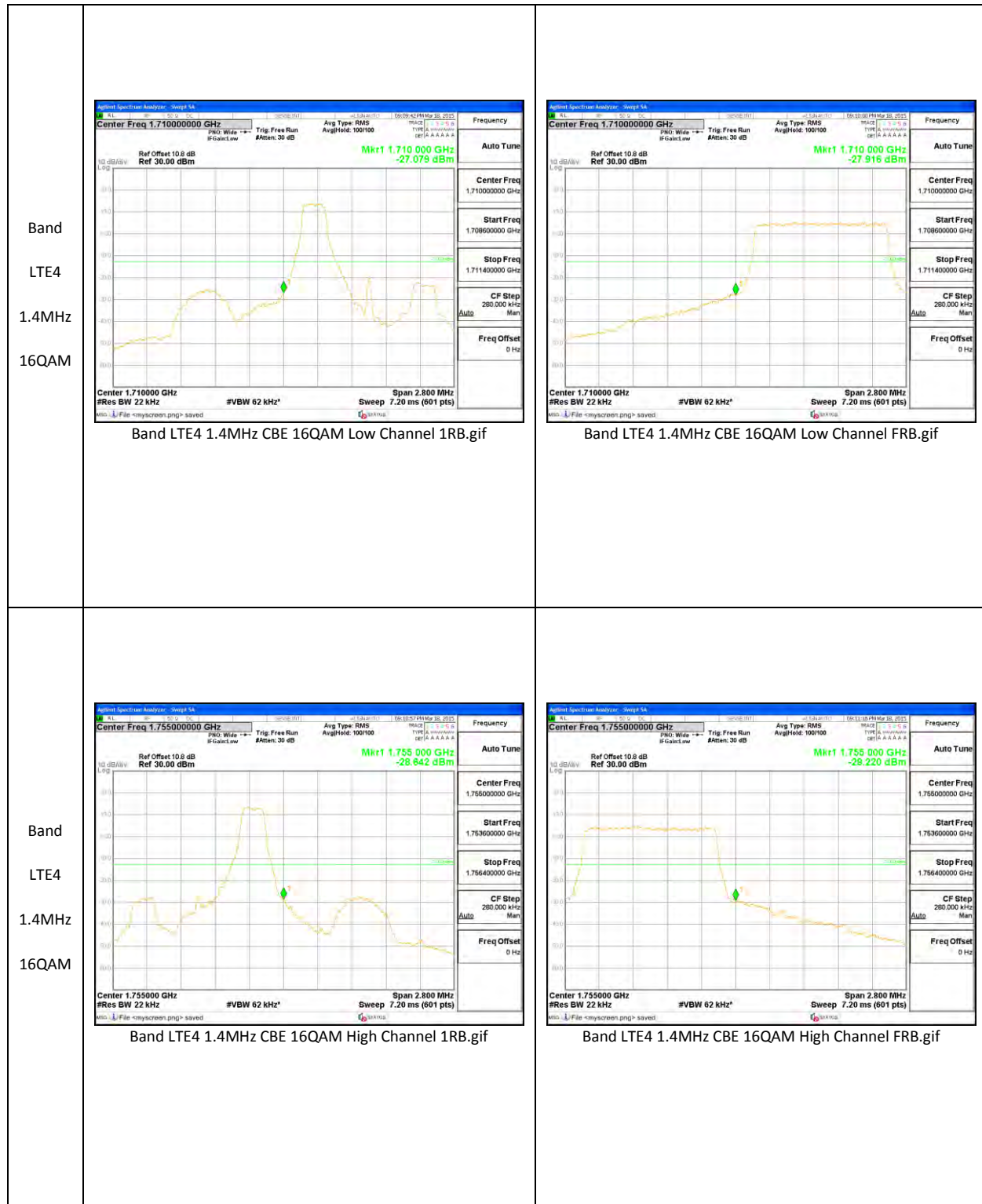


<p>Band LTE4 5MHz 16QAM</p>	 <p>Band LTE4 5MHz CBE 16QAM Low Channel 1RB.gif</p>	 <p>Band LTE4 5MHz CBE 16QAM Low Channel FRB.gif</p>
<p>Band LTE4 5MHz 16QAM</p>	 <p>Band LTE4 5MHz CBE 16QAM High Channel 1RB.gif</p>	 <p>Band LTE4 5MHz CBE 16QAM High Channel FRB.gif</p>

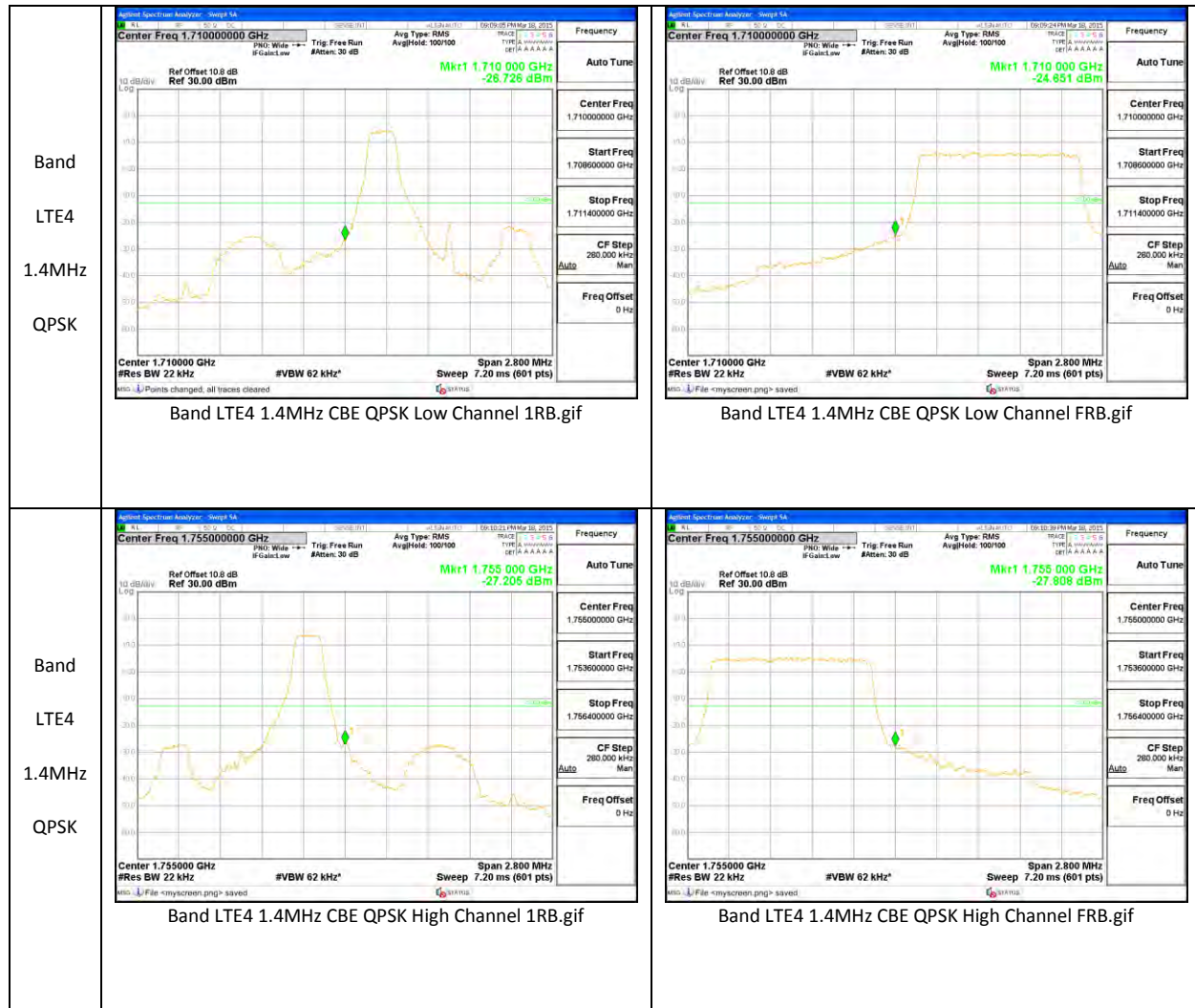




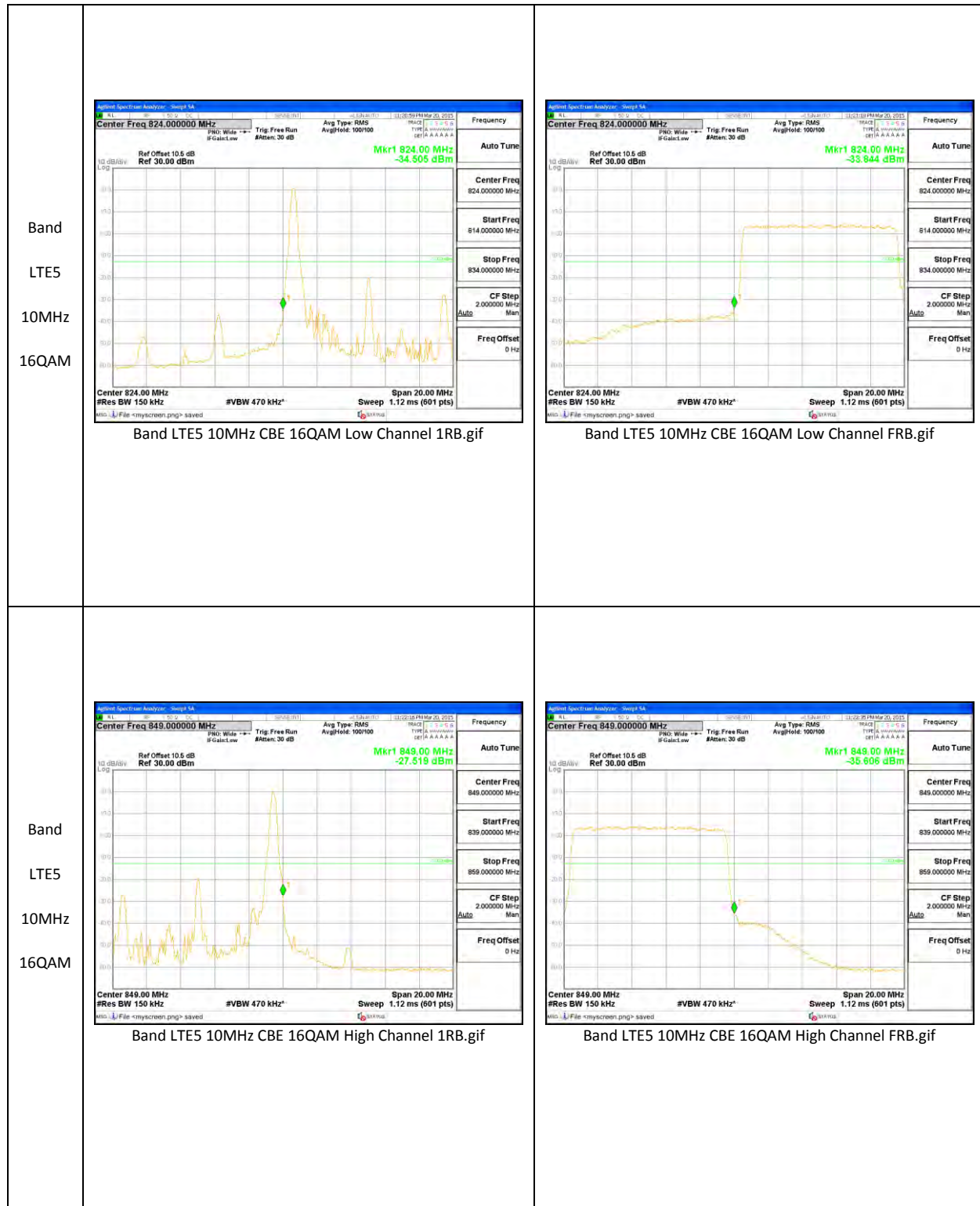


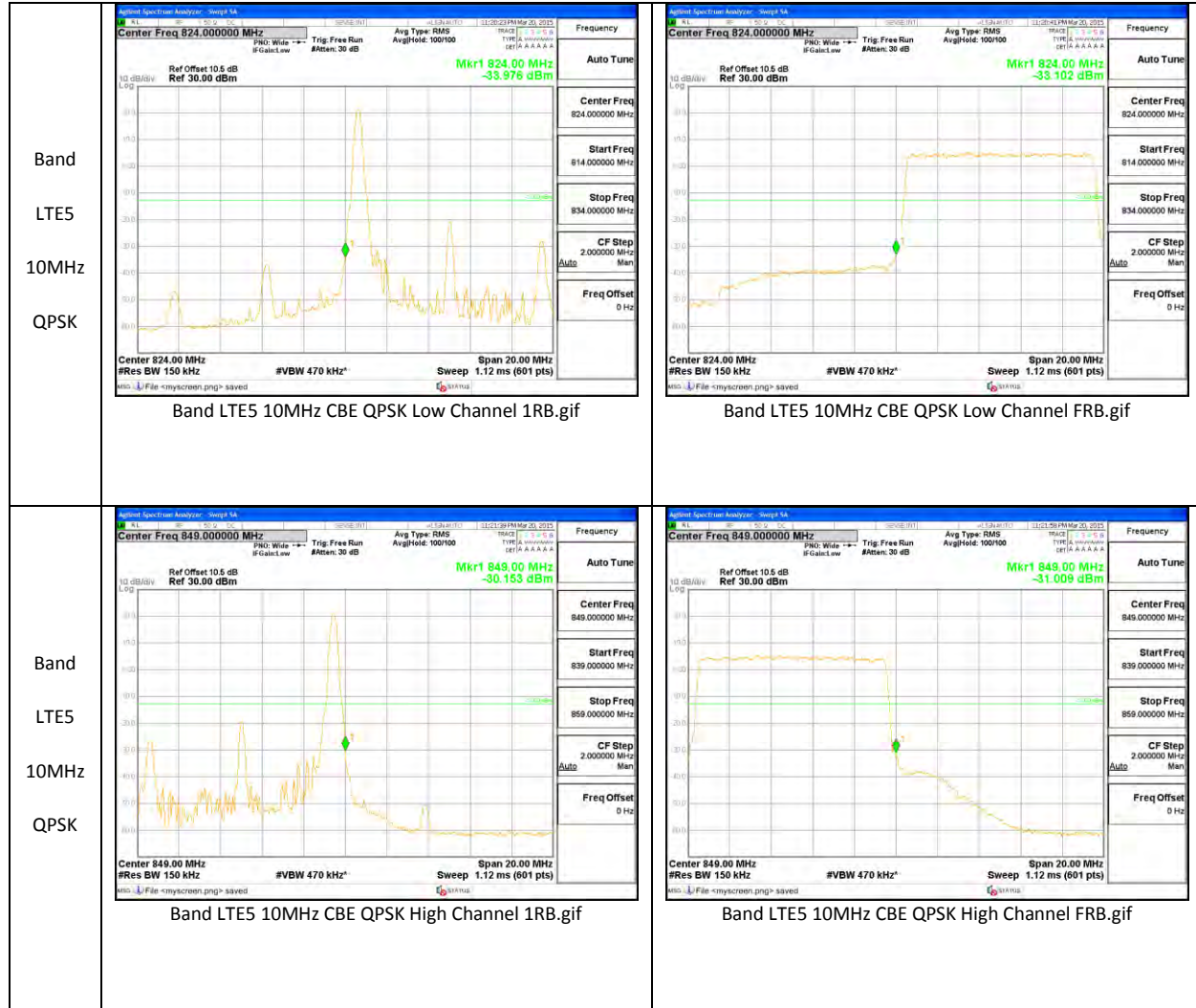


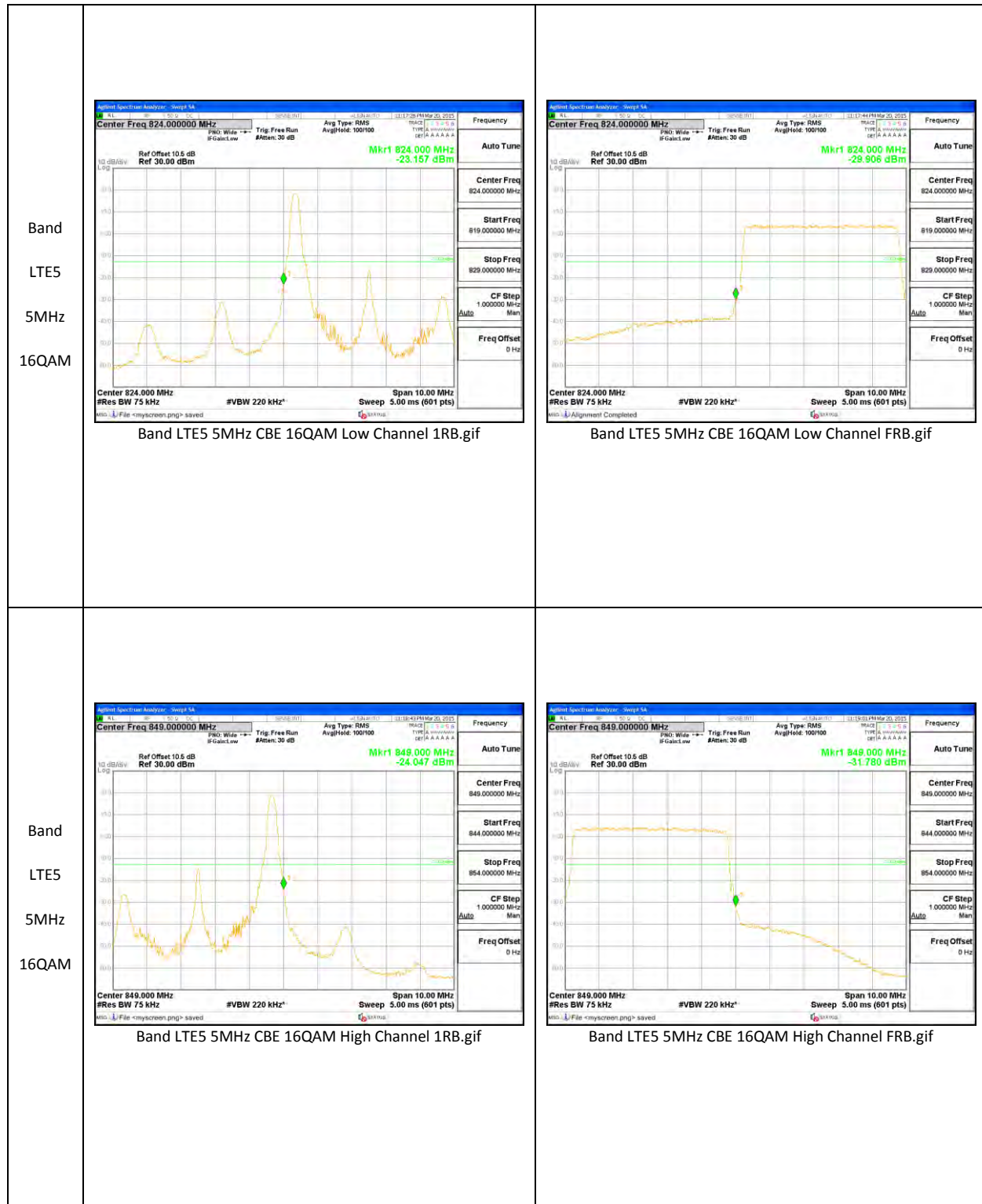


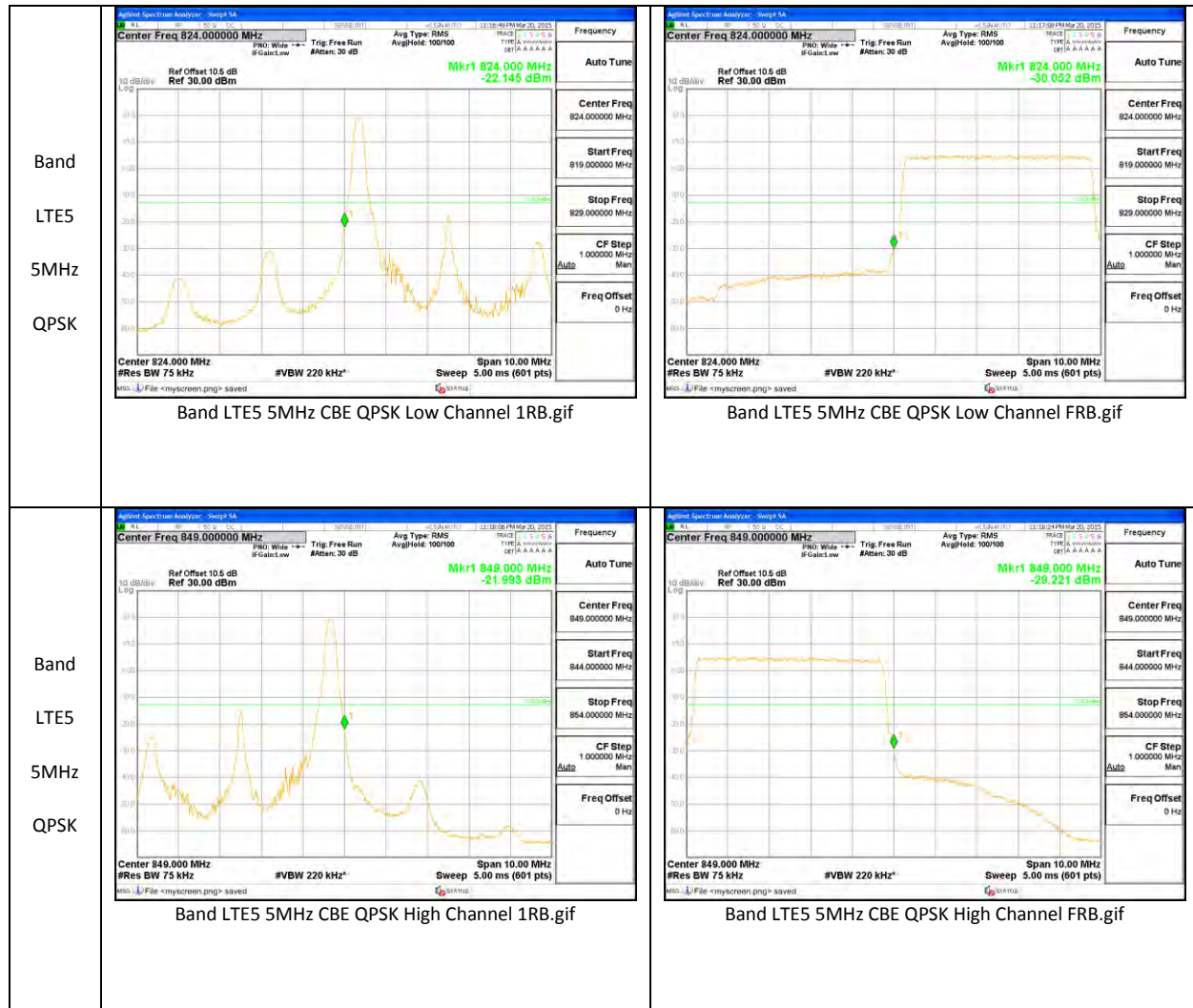


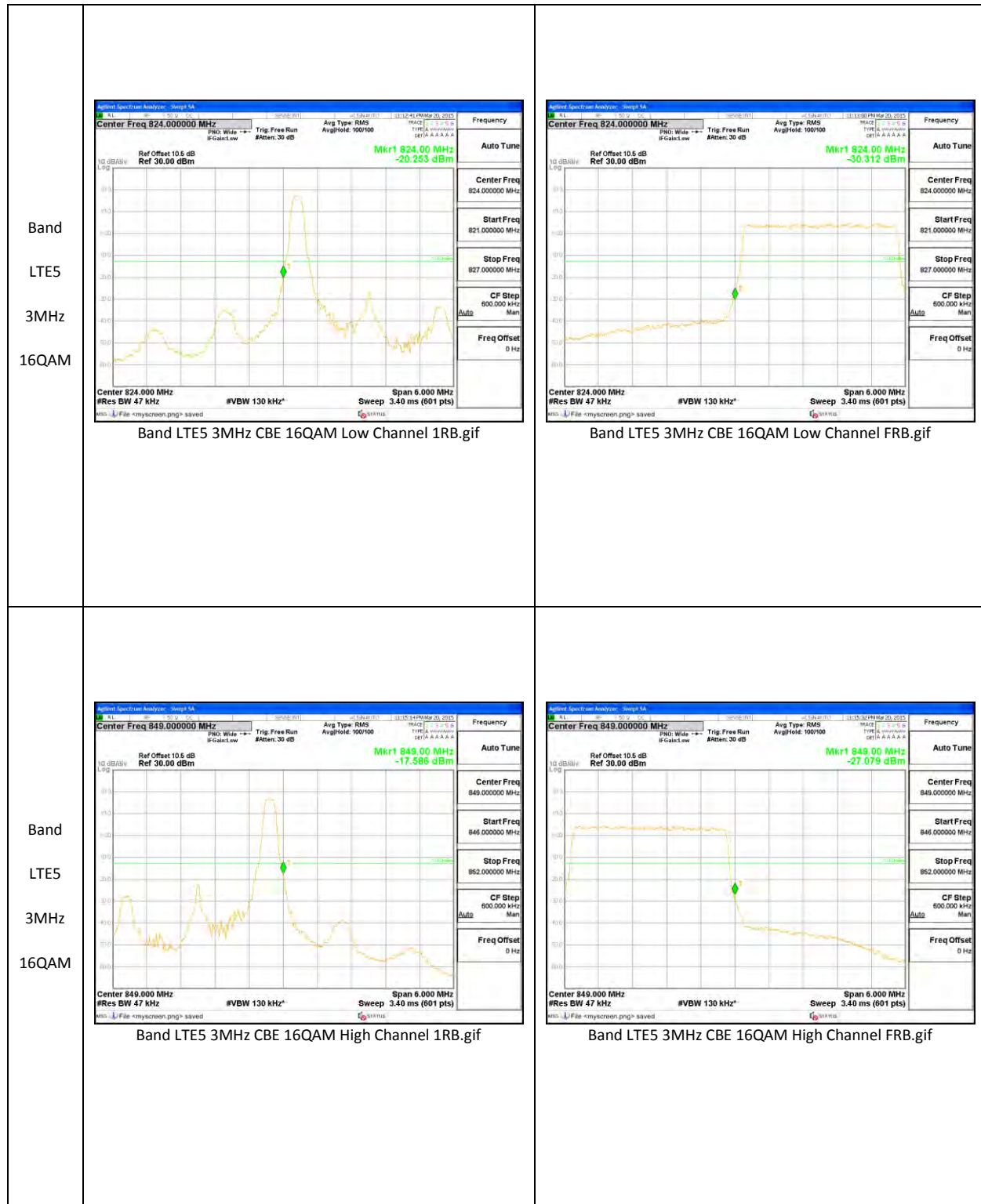
**LTE Band 5**

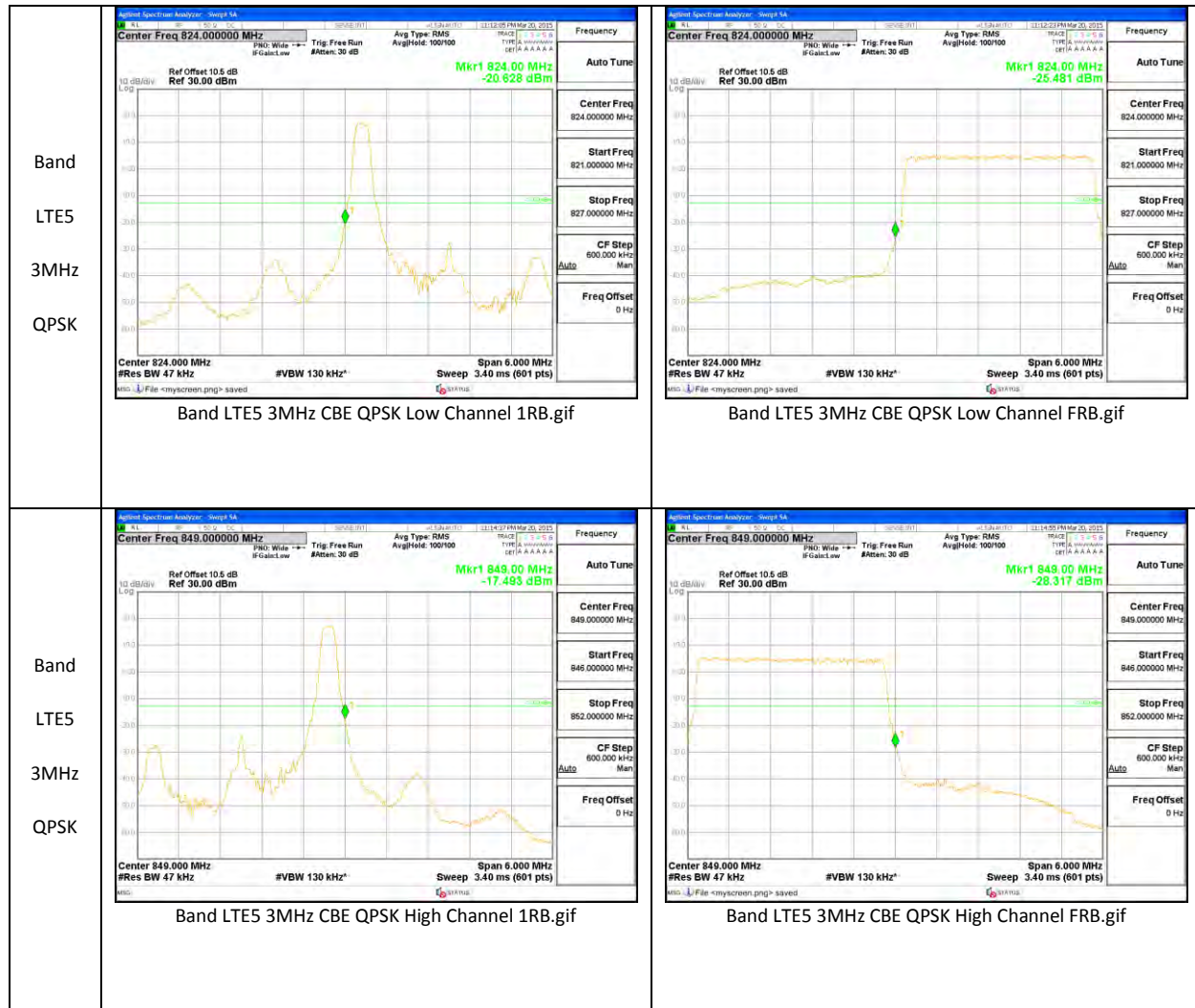


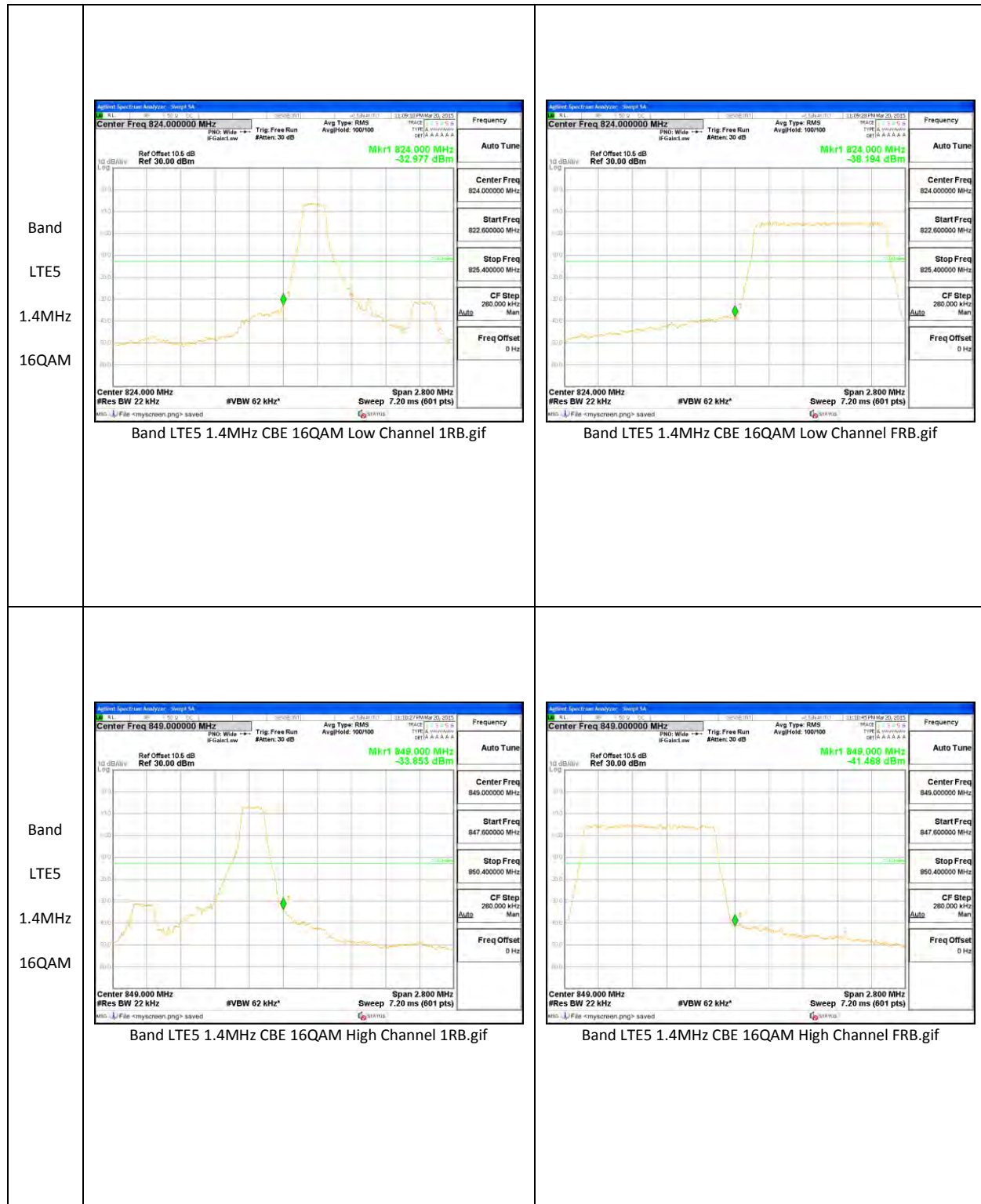




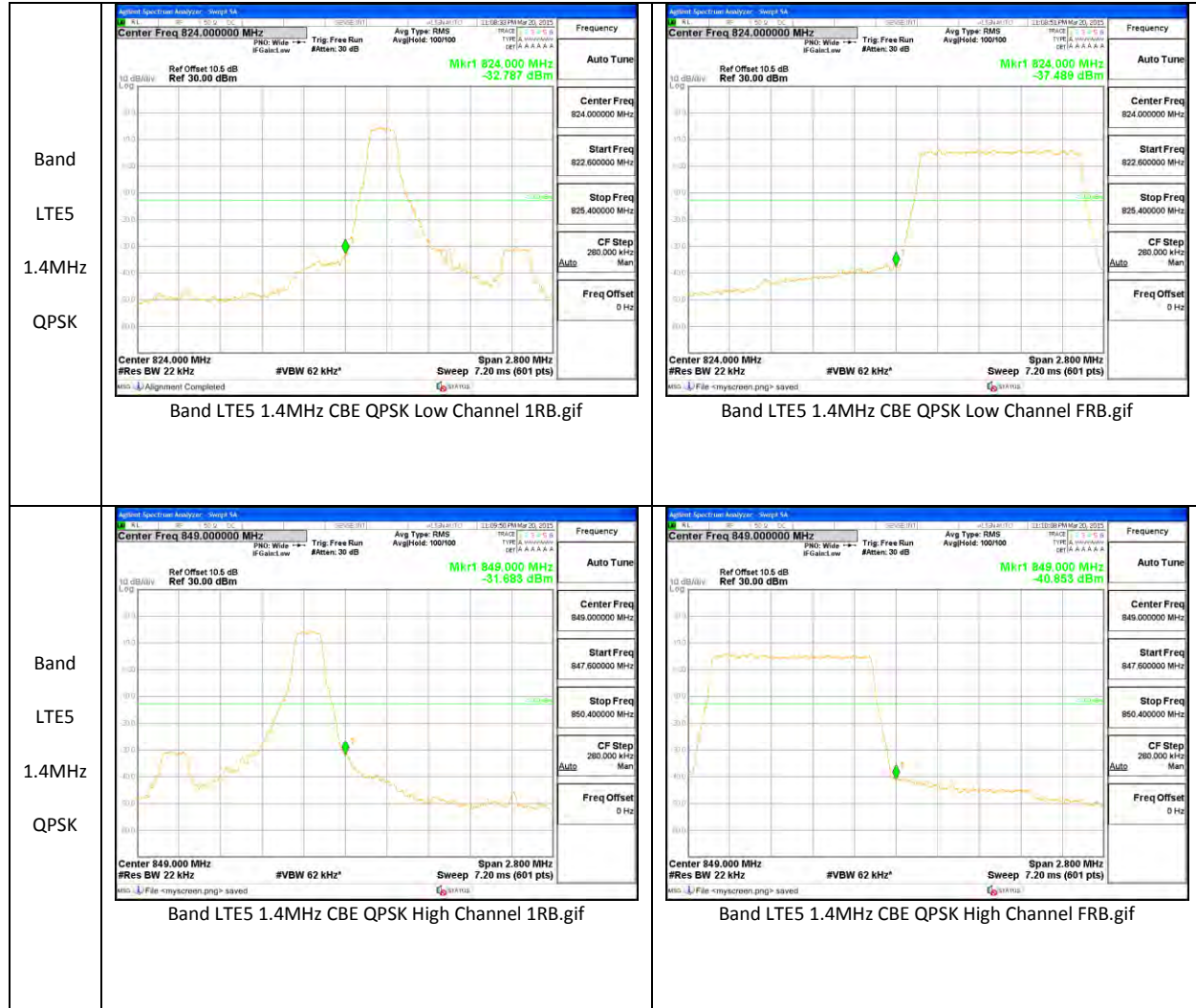




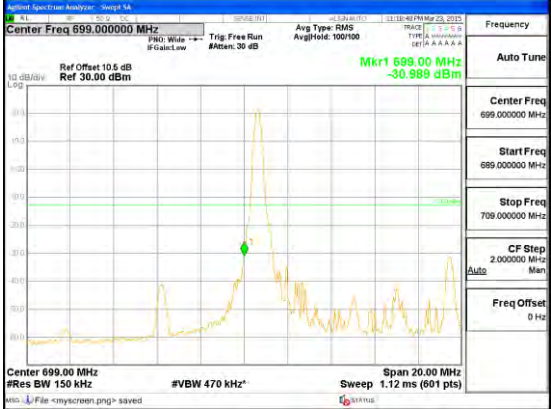

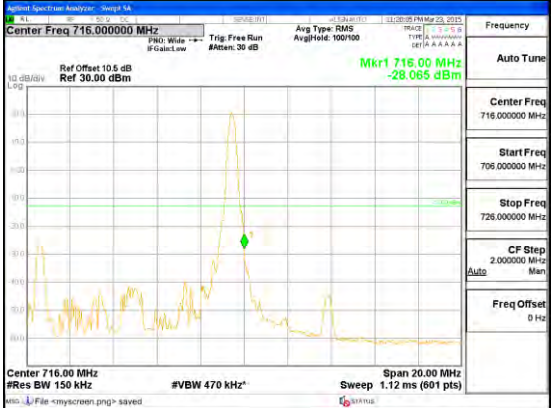



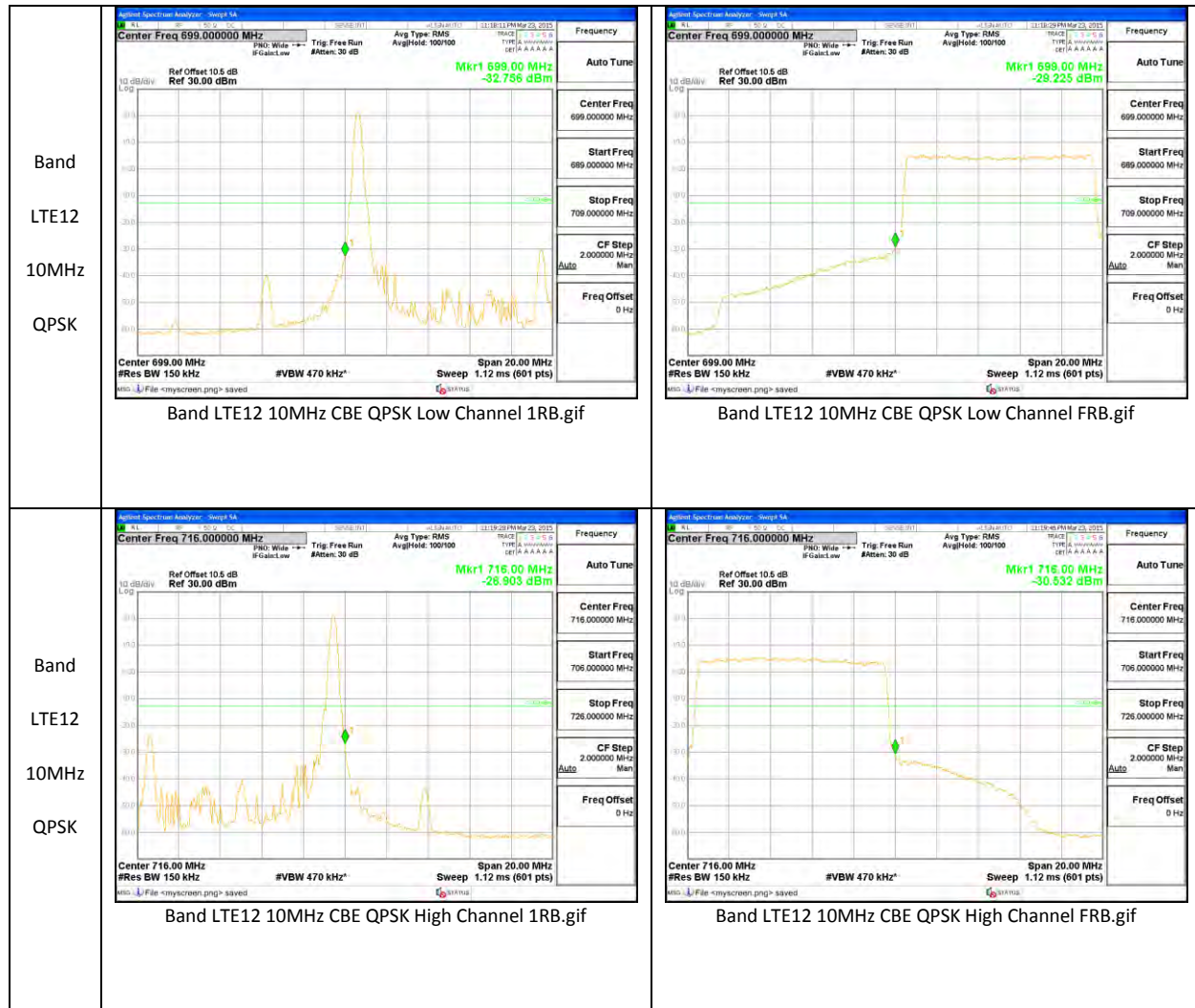


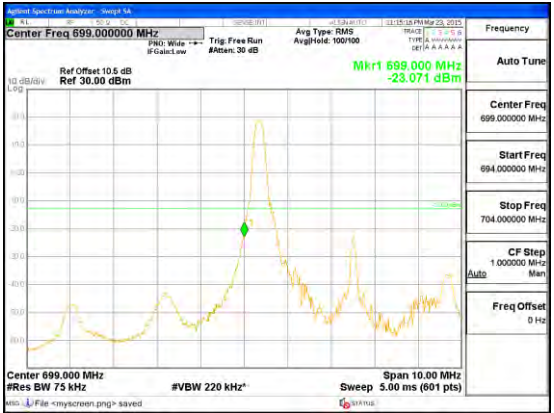

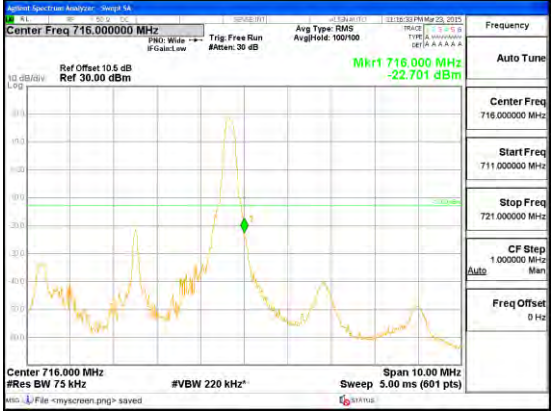



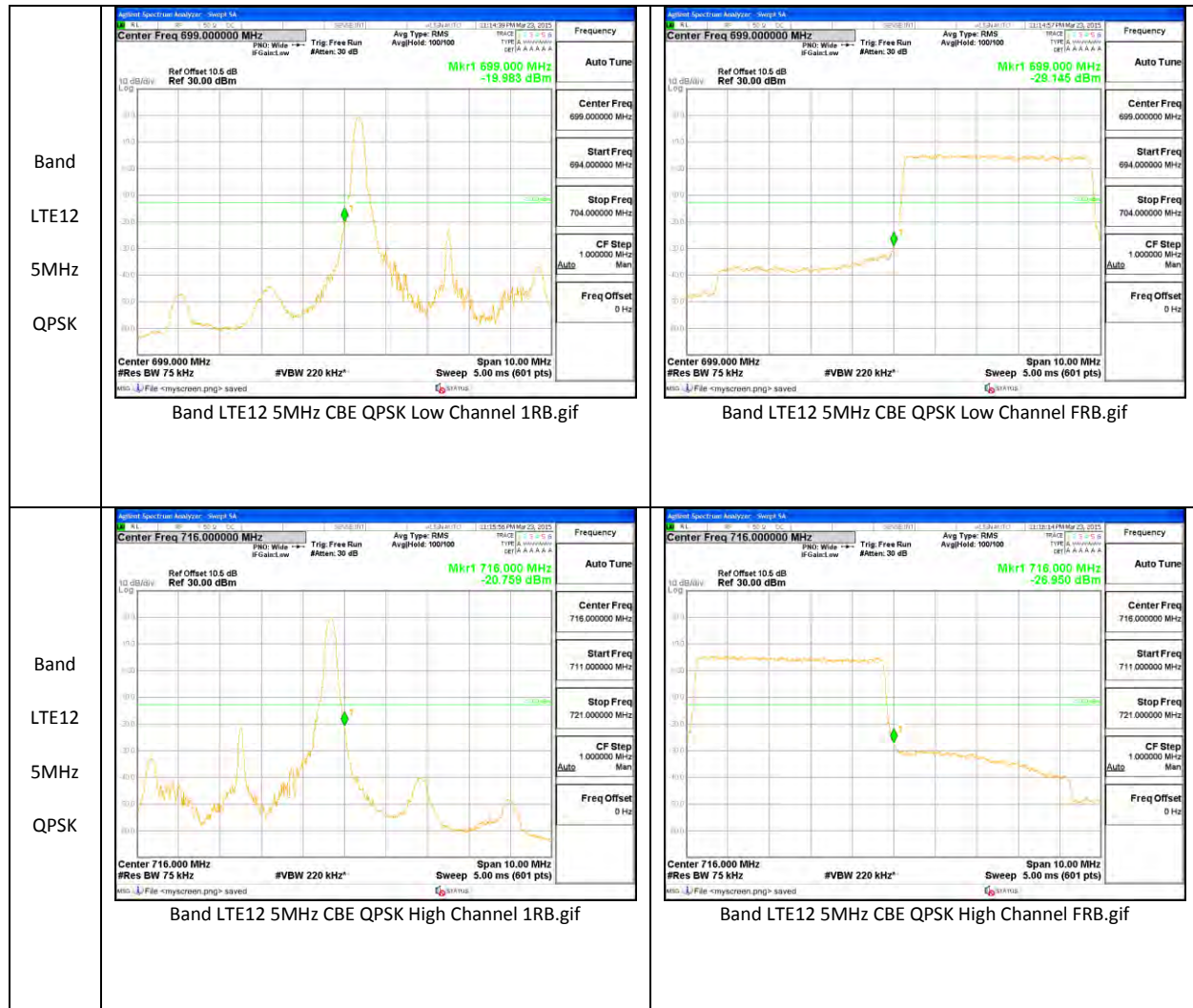


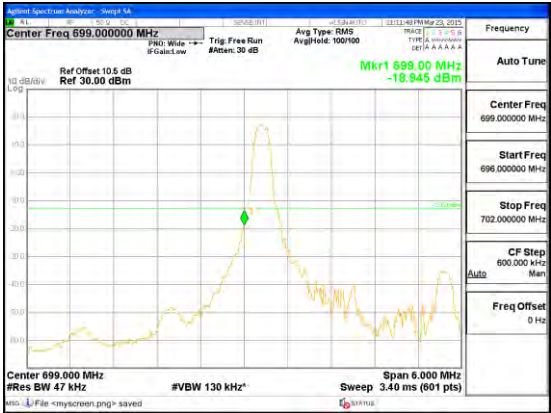

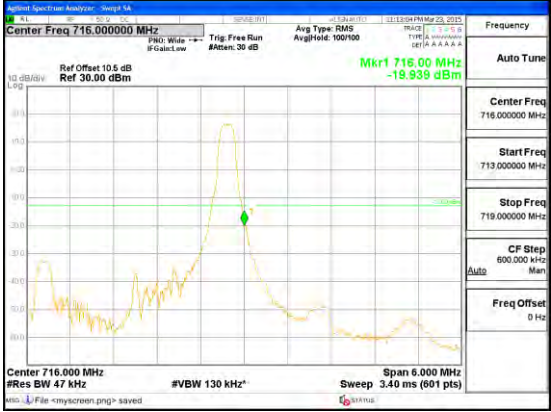

**LTE Band 12**

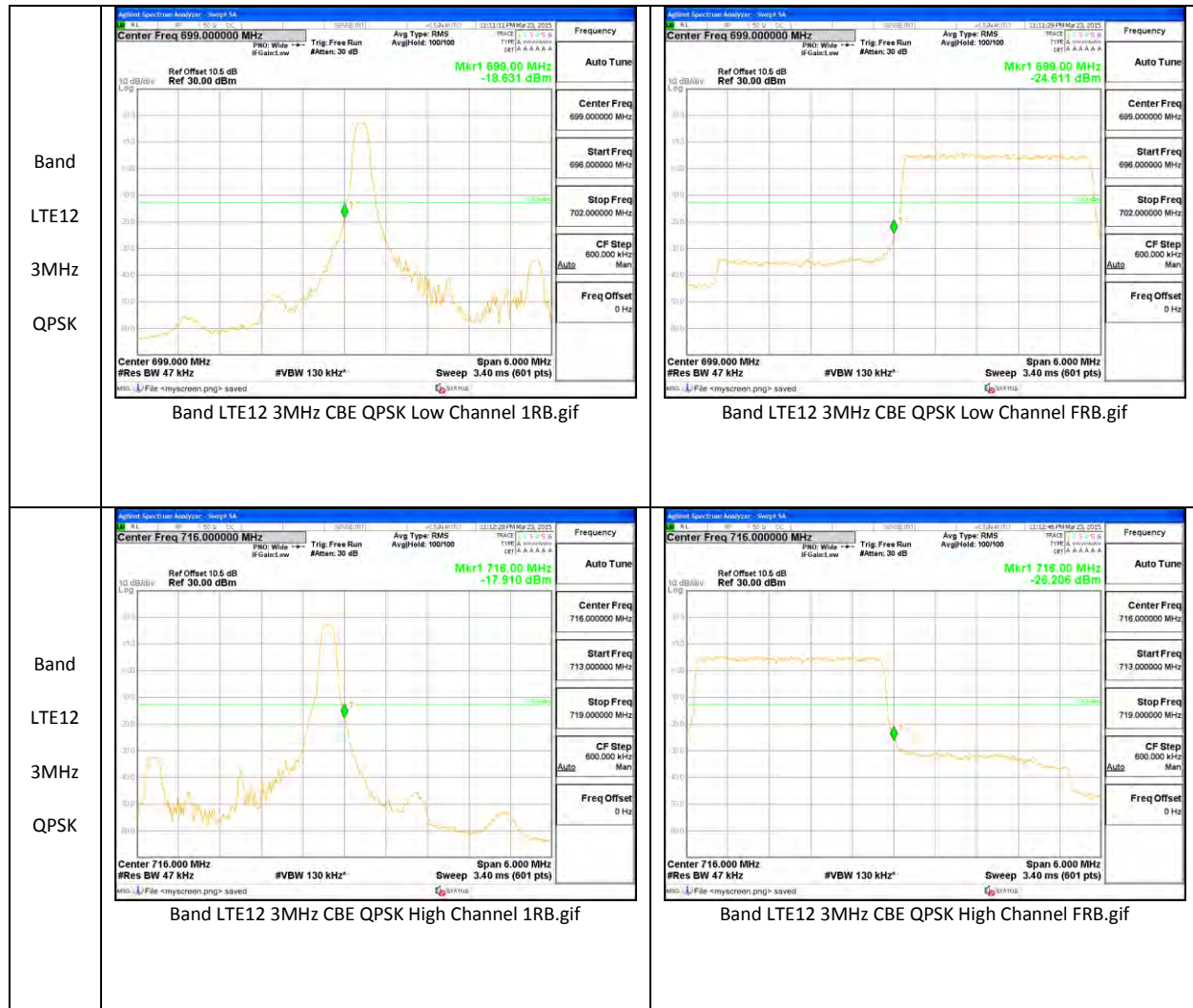
<p>Band LTE12 10MHz 16QAM</p>	 <p>Band LTE12 10MHz CBE 16QAM Low Channel 1RB.gif</p>	 <p>Band LTE12 10MHz CBE 16QAM Low Channel FRB.gif</p>
<p>Band LTE12 10MHz 16QAM</p>	 <p>Band LTE12 10MHz CBE 16QAM High Channel 1RB.gif</p>	 <p>Band LTE12 10MHz CBE 16QAM High Channel FRB.gif</p>

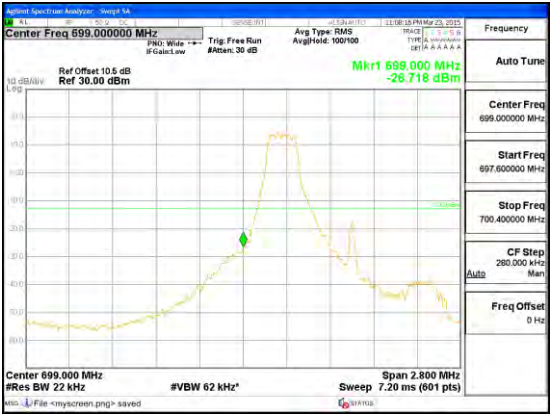
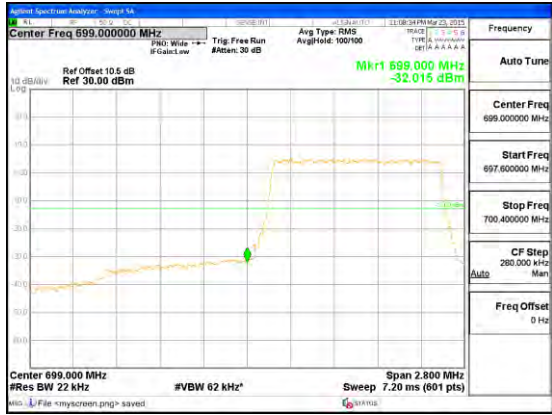




<p>Band LTE12 5MHz 16QAM</p>	 <p>Band LTE12 5MHz CBE 16QAM Low Channel 1RB.gif</p>	 <p>Band LTE12 5MHz CBE 16QAM Low Channel FRB.gif</p>
<p>Band LTE12 5MHz 16QAM</p>	 <p>Band LTE12 5MHz CBE 16QAM High Channel 1RB.gif</p>	 <p>Band LTE12 5MHz CBE 16QAM High Channel FRB.gif</p>

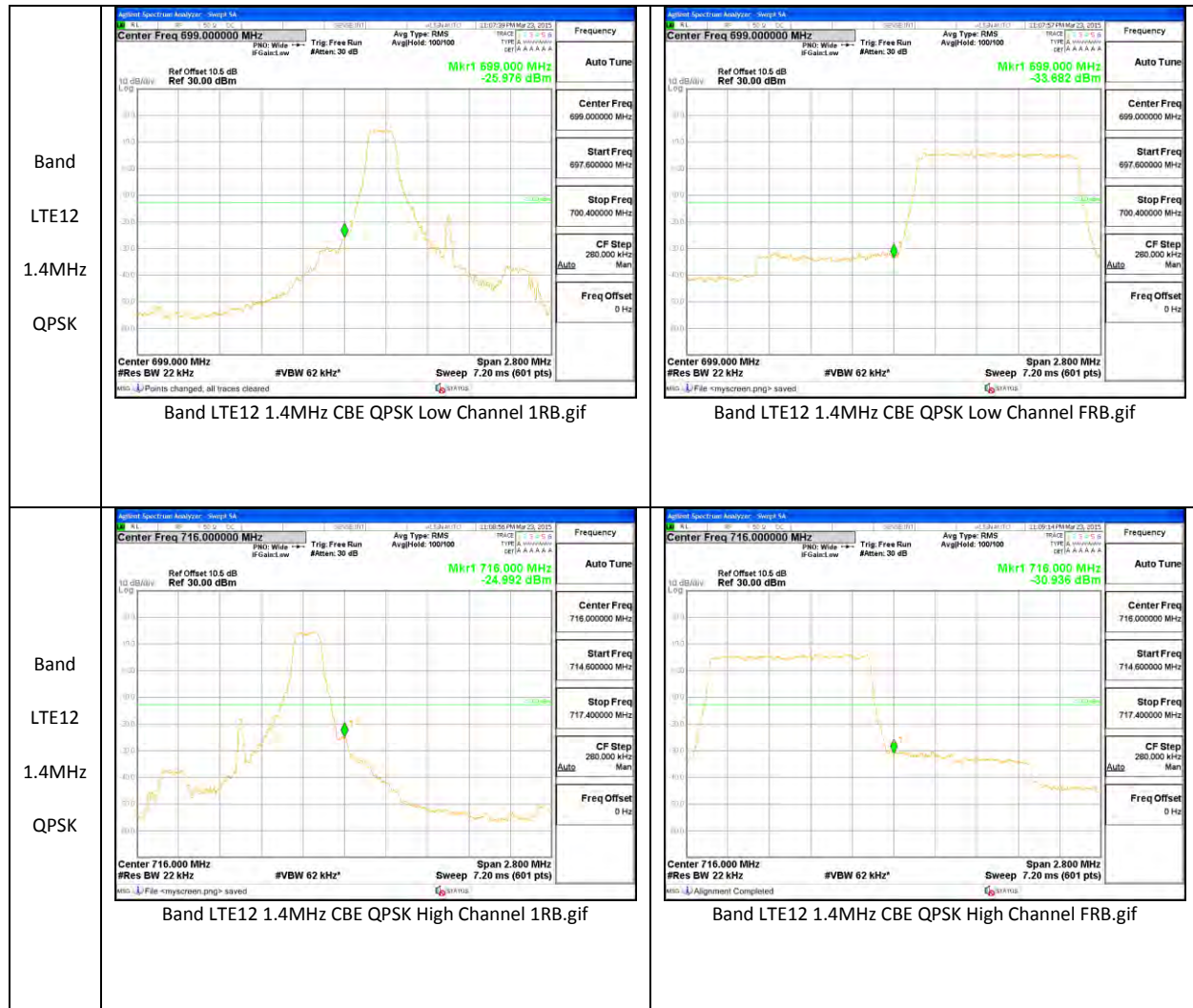


<p>Band LTE12 3MHz 16QAM</p>	 <p>Band LTE12 3MHz CBE 16QAM Low Channel 1RB.gif</p>	 <p>Band LTE12 3MHz CBE 16QAM Low Channel FRB.gif</p>
<p>Band LTE12 3MHz 16QAM</p>	 <p>Band LTE12 3MHz CBE 16QAM High Channel 1RB.gif</p>	 <p>Band LTE12 3MHz CBE 16QAM High Channel FRB.gif</p>

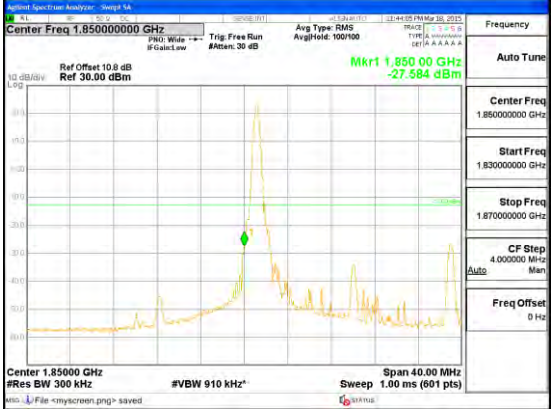
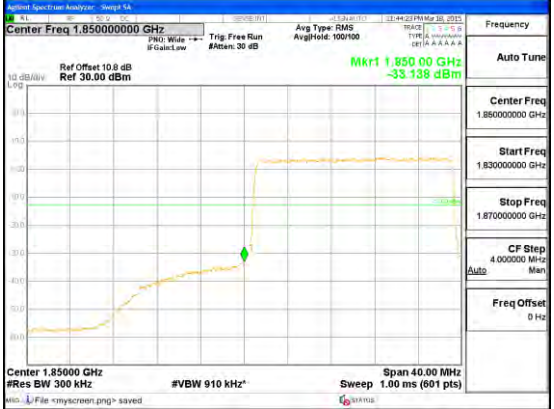
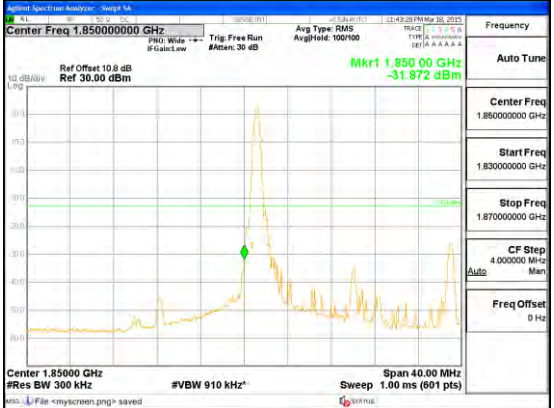



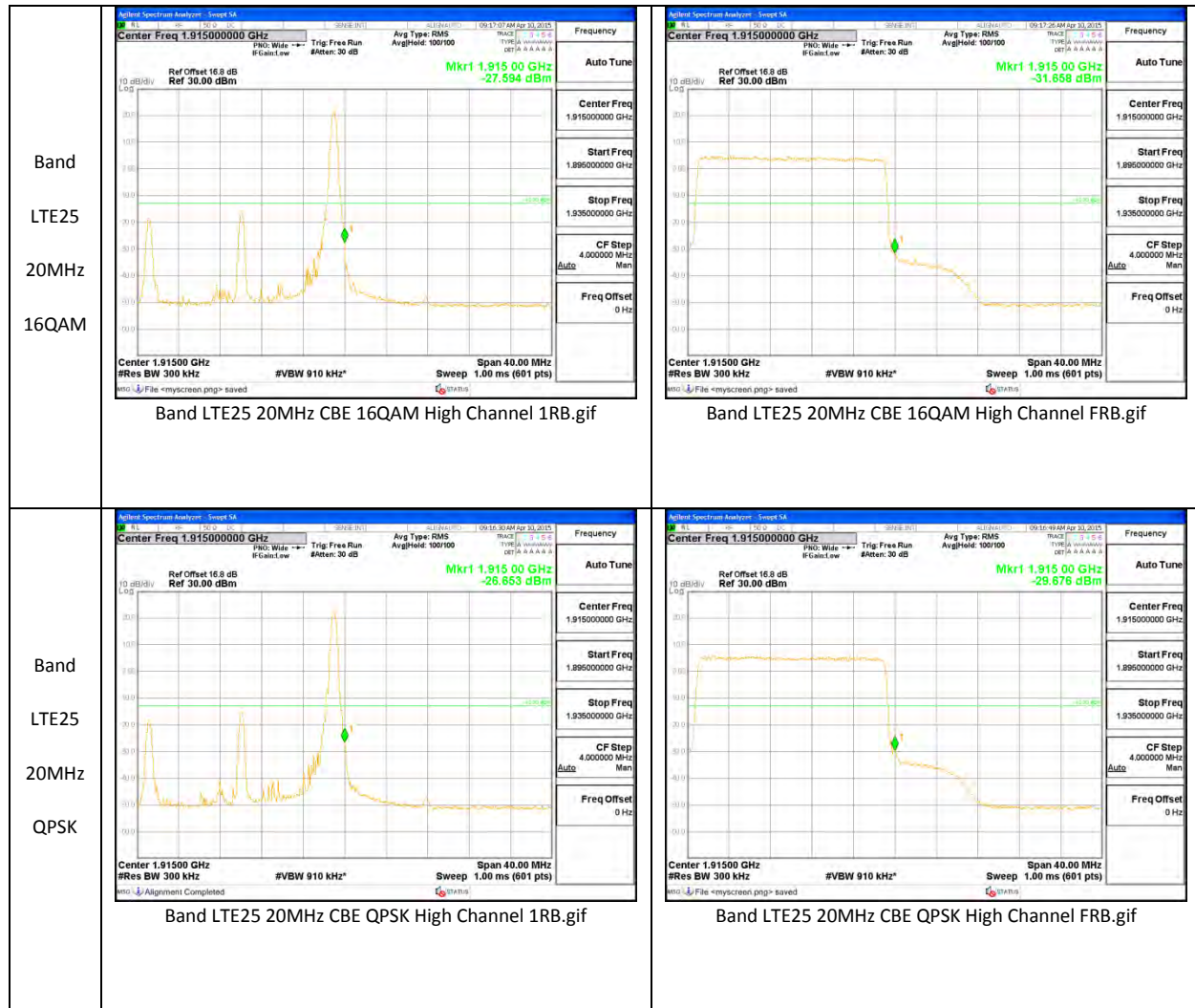
<p>Band LTE12 1.4MHz 16QAM</p>	 <p>Band LTE12 1.4MHz CBE 16QAM Low Channel 1RB.gif</p>	 <p>Band LTE12 1.4MHz CBE 16QAM Low Channel FRB.gif</p>
<p>Band LTE12 1.4MHz 16QAM</p>	 <p>Band LTE12 1.4MHz CBE 16QAM High Channel 1RB.gif</p>	 <p>Band LTE12 1.4MHz CBE 16QAM High Channel FRB.gif</p>

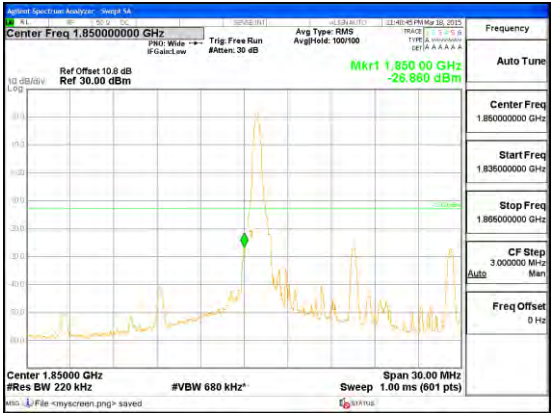

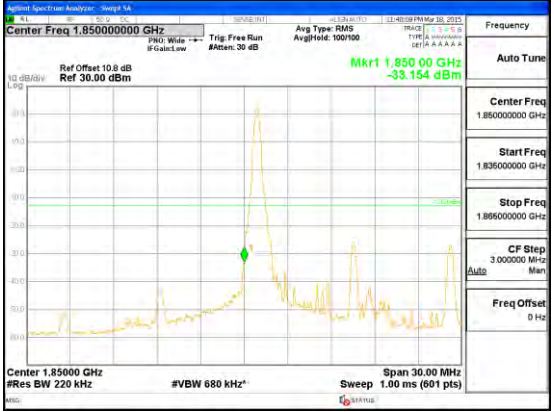
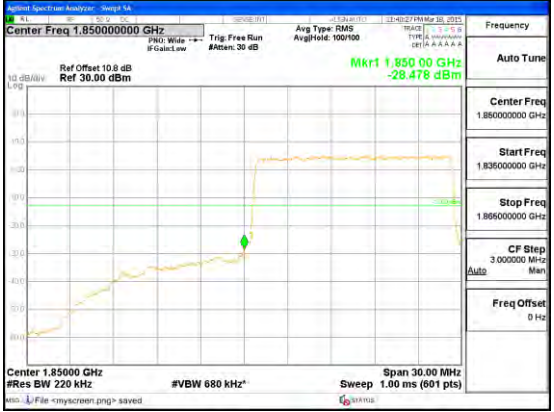


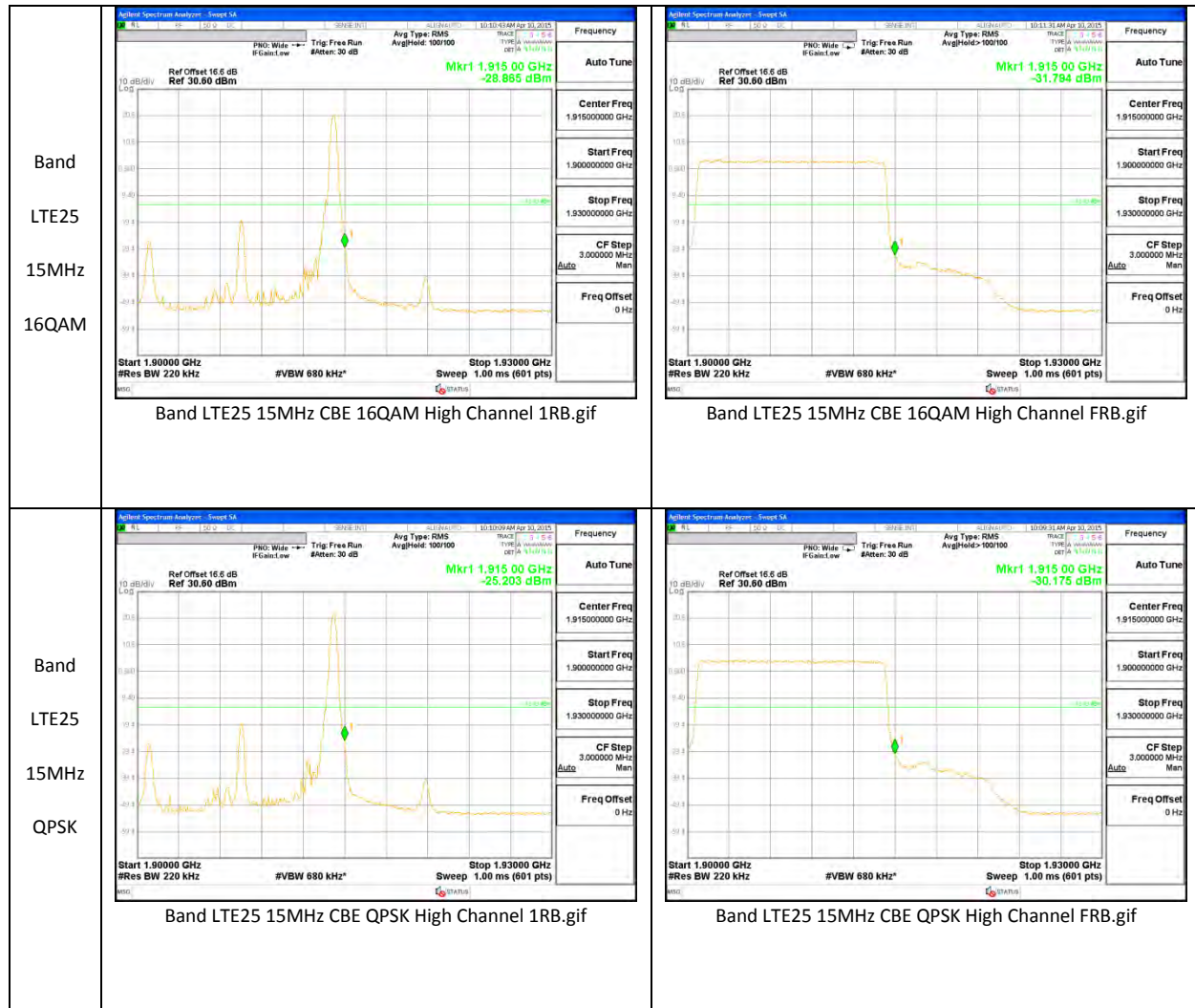


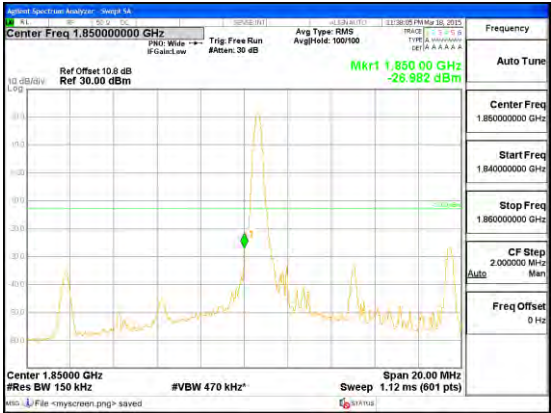
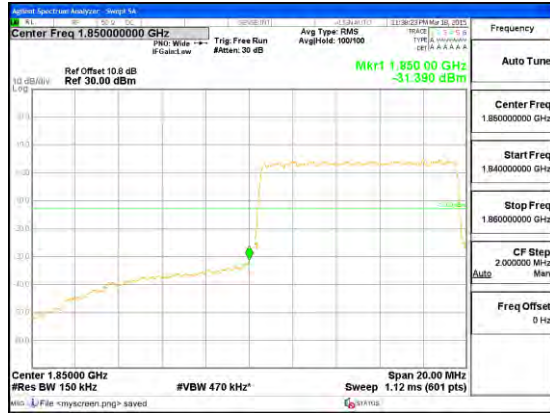
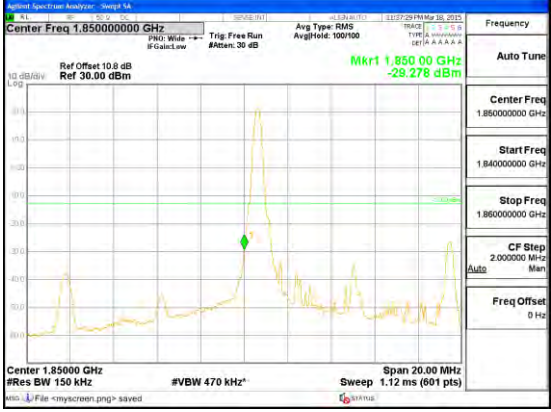

**LTE Band 25**

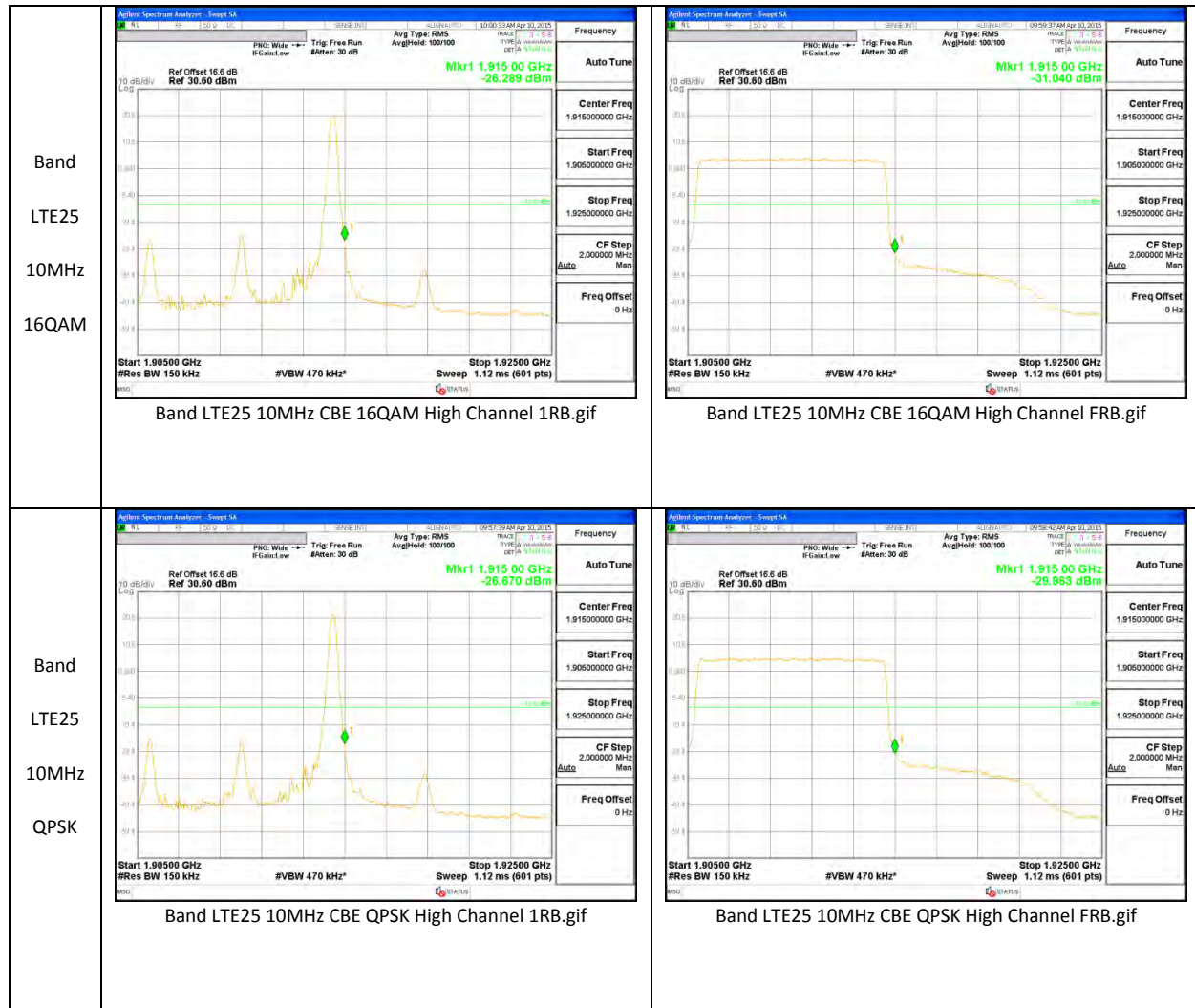
<p>Band LTE25 20MHz 16QAM</p>	 <p>Band LTE25 20MHz CBE 16QAM Low Channel 1RB.gif</p>	 <p>Band LTE25 20MHz CBE 16QAM Low Channel FRB.gif</p>
<p>Band LTE25 20MHz QPSK</p>	 <p>Band LTE25 20MHz CBE QPSK Low Channel 1RB.gif</p>	 <p>Band LTE25 20MHz CBE QPSK Low Channel FRB.gif</p>

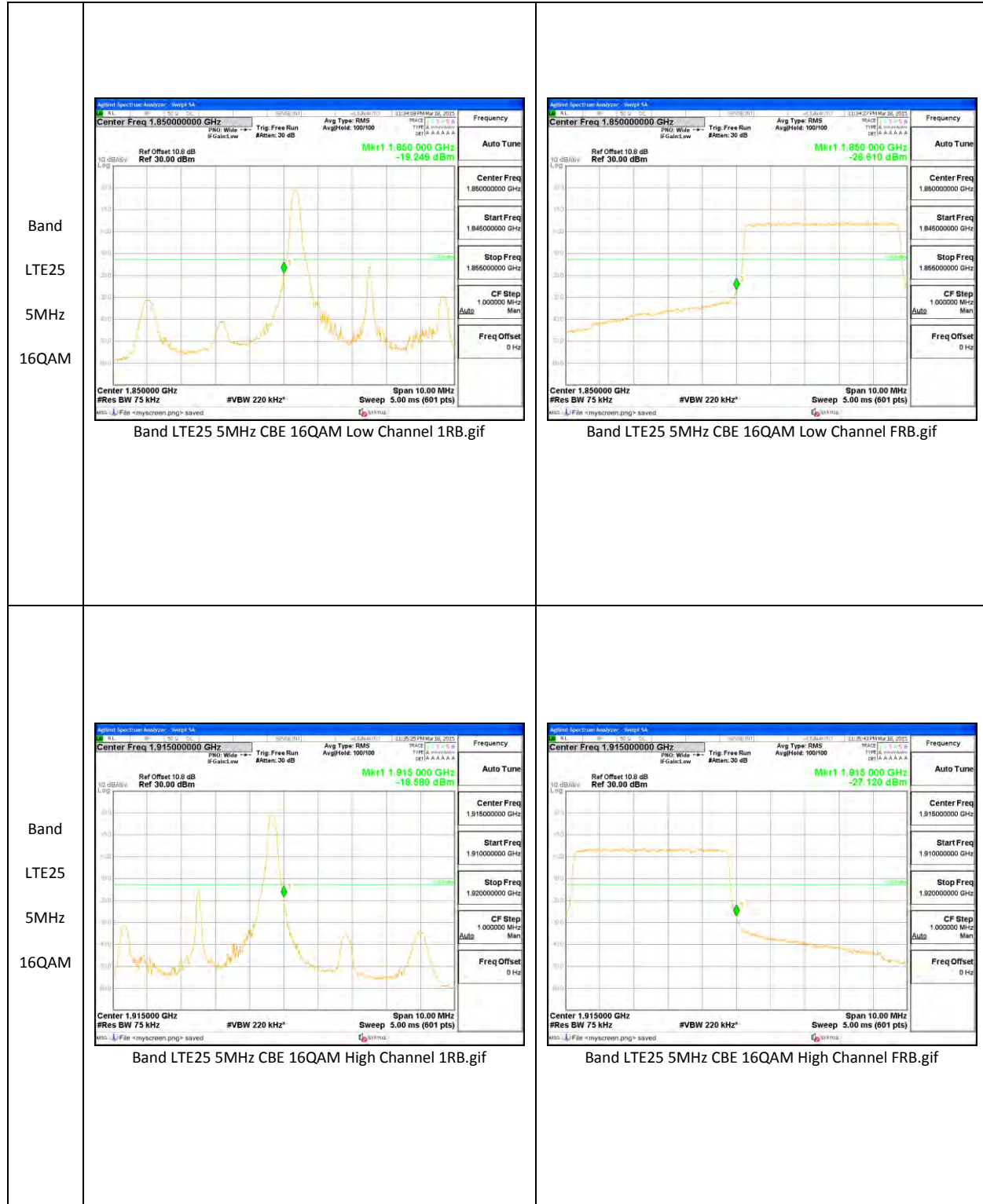


<p>Band                  LTE25                  15MHz                  16QAM</p>	 <p>Center Freq 1.85000000 GHz                  Mkr1 1.850 00 GHz                  -26.860 dBm</p> <p>Center Freq 1.85000000 GHz                  Start Freq 1.835000000 GHz                  Stop Freq 1.865000000 GHz                  CF Step 3000000 MHz                  Freq Offset 0 Hz</p> <p>Center 1.850000 GHz                  #VBW 680 kHz*                  Sweep 1.00 ms (601 pts)</p> <p>Band LTE25 15MHz CBE 16QAM Low Channel 1RB.gif</p>	 <p>Center Freq 1.85000000 GHz                  Mkr1 1.850 00 GHz                  -30.752 dBm</p> <p>Center Freq 1.85000000 GHz                  Start Freq 1.835000000 GHz                  Stop Freq 1.865000000 GHz                  CF Step 3000000 MHz                  Freq Offset 0 Hz</p> <p>Center 1.850000 GHz                  #VBW 680 kHz*                  Sweep 1.00 ms (601 pts)</p> <p>Band LTE25 15MHz CBE 16QAM Low Channel FRB.gif</p>
<p>Band                  LTE25                  15MHz                  QPSK</p>	 <p>Center Freq 1.85000000 GHz                  Mkr1 1.850 00 GHz                  -33.154 dBm</p> <p>Center Freq 1.85000000 GHz                  Start Freq 1.835000000 GHz                  Stop Freq 1.865000000 GHz                  CF Step 3000000 MHz                  Freq Offset 0 Hz</p> <p>Center 1.850000 GHz                  #VBW 680 kHz*                  Sweep 1.00 ms (601 pts)</p> <p>Band LTE25 15MHz CBE QPSK Low Channel 1RB.gif</p>	 <p>Center Freq 1.85000000 GHz                  Mkr1 1.850 00 GHz                  -28.478 dBm</p> <p>Center Freq 1.85000000 GHz                  Start Freq 1.835000000 GHz                  Stop Freq 1.865000000 GHz                  CF Step 3000000 MHz                  Freq Offset 0 Hz</p> <p>Center 1.850000 GHz                  #VBW 680 kHz*                  Sweep 1.00 ms (601 pts)</p> <p>Band LTE25 15MHz CBE QPSK Low Channel FRB.gif</p>

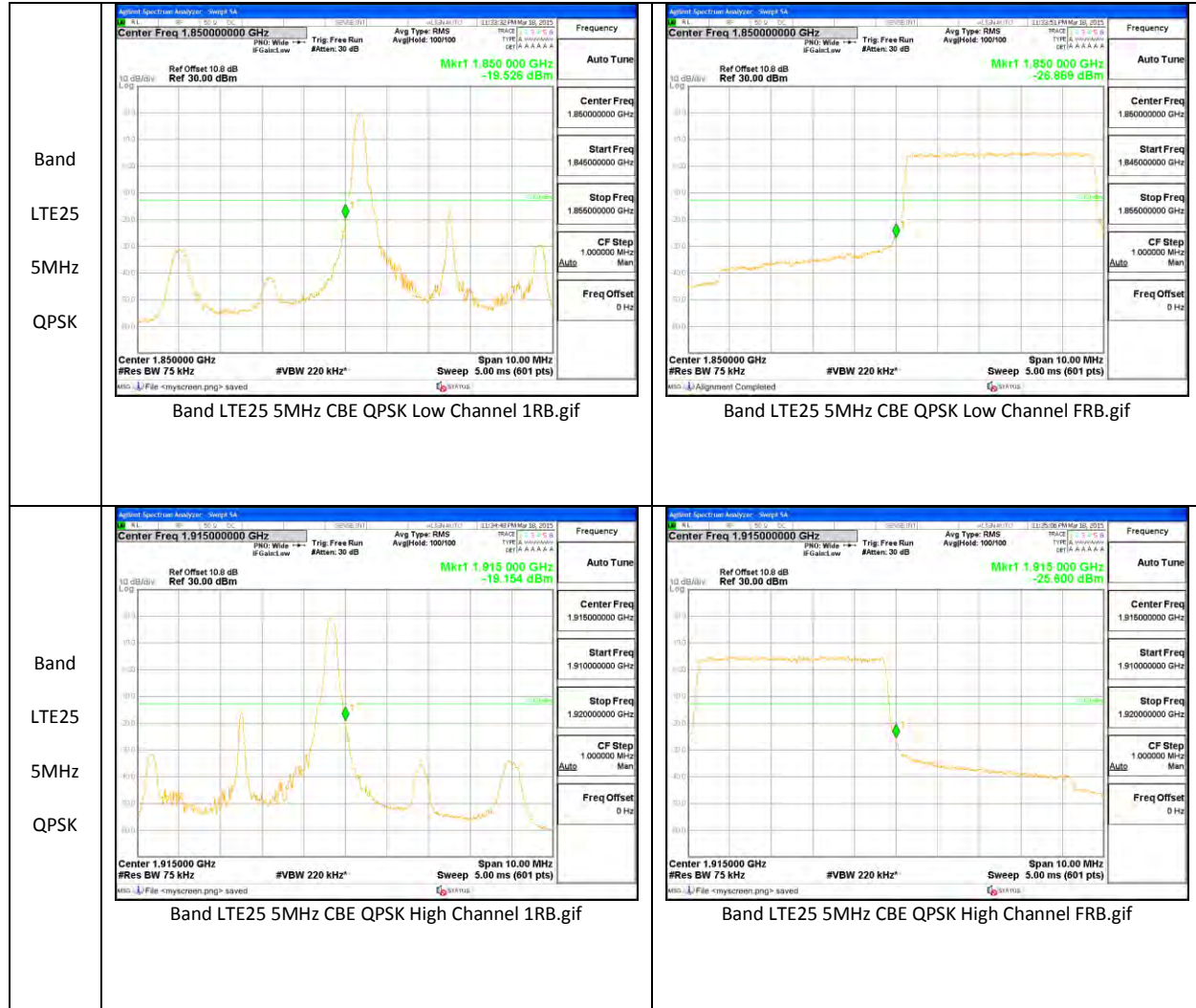


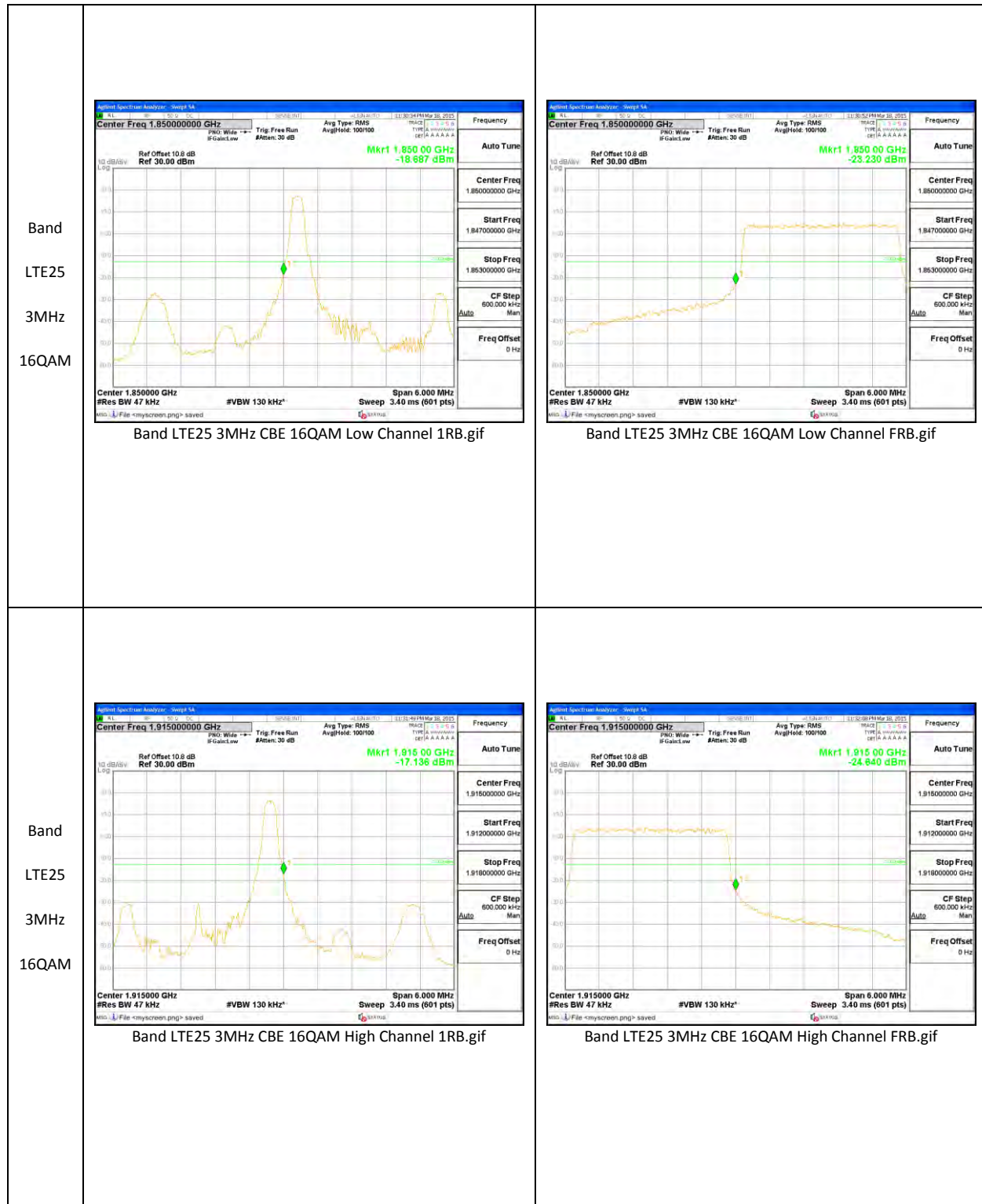
<p>Band LTE25 10MHz 16QAM</p>	 <p>Band LTE25 10MHz CBE 16QAM Low Channel 1RB.gif</p>	 <p>Band LTE25 10MHz CBE 16QAM Low Channel FRB.gif</p>
<p>Band LTE25 10MHz QPSK</p>	 <p>Band LTE25 10MHz CBE QPSK Low Channel 1RB.gif</p>	 <p>Band LTE25 10MHz CBE QPSK Low Channel FRB.gif</p>

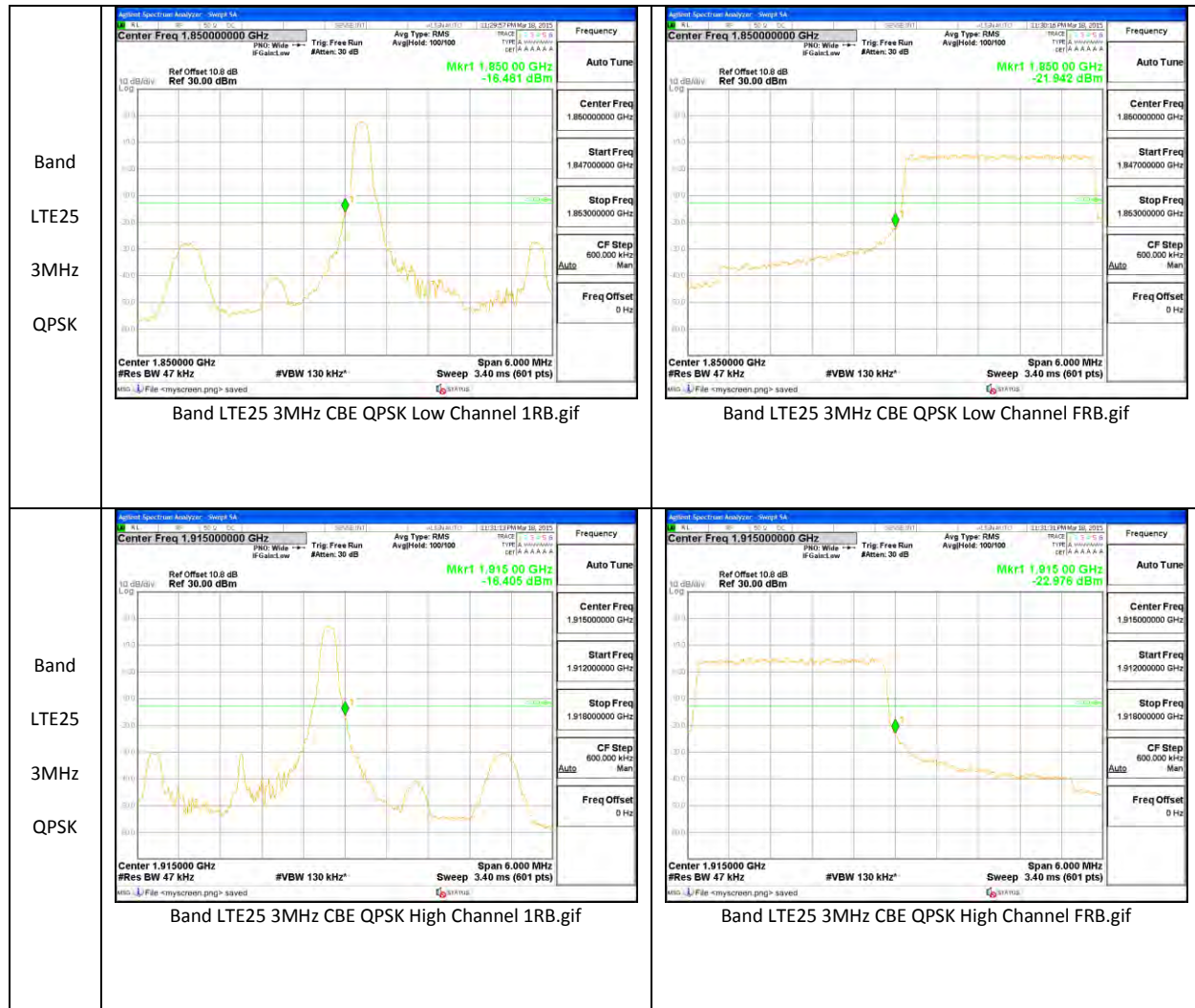



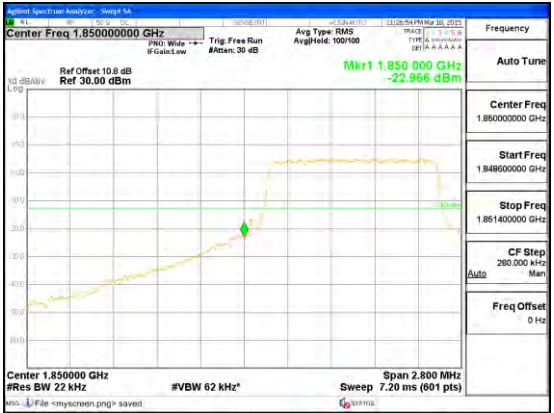




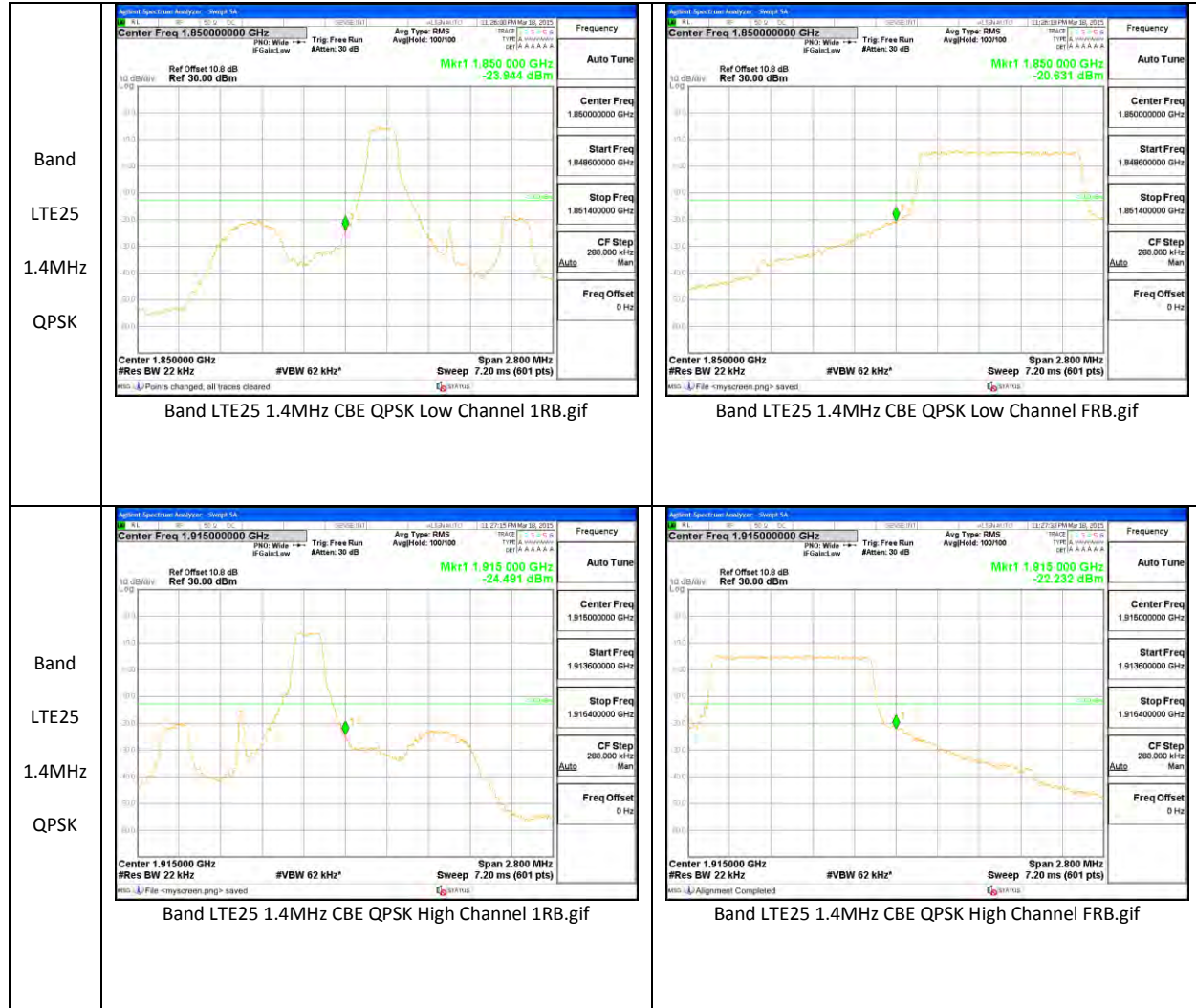




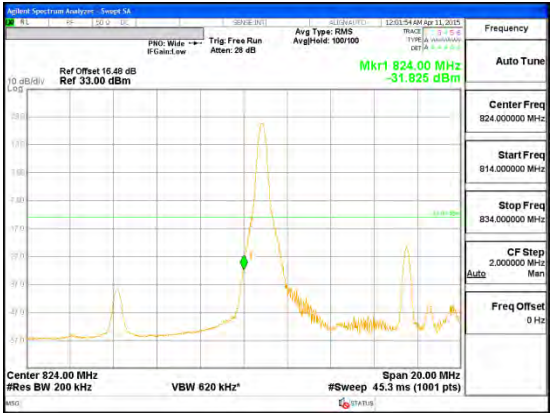
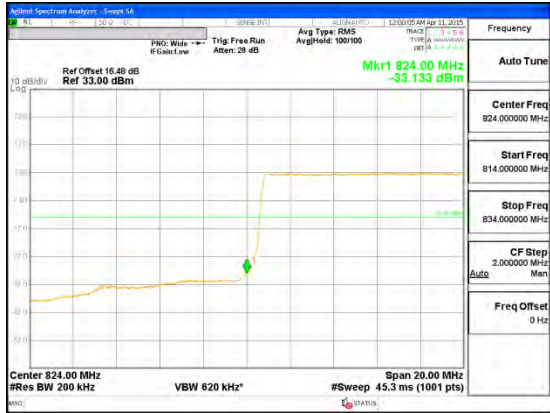
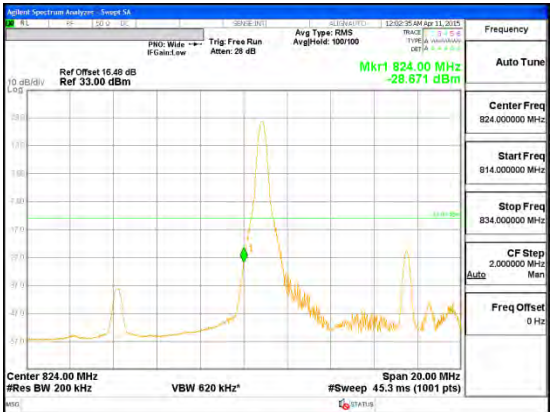
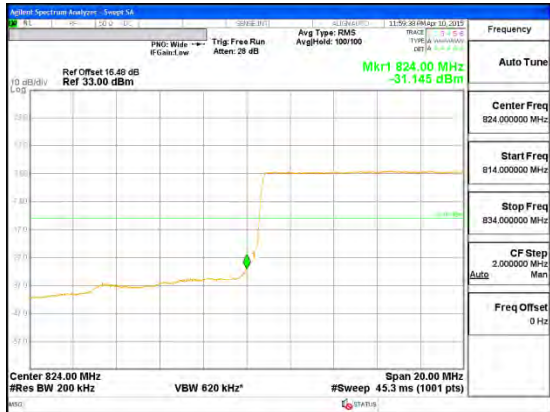


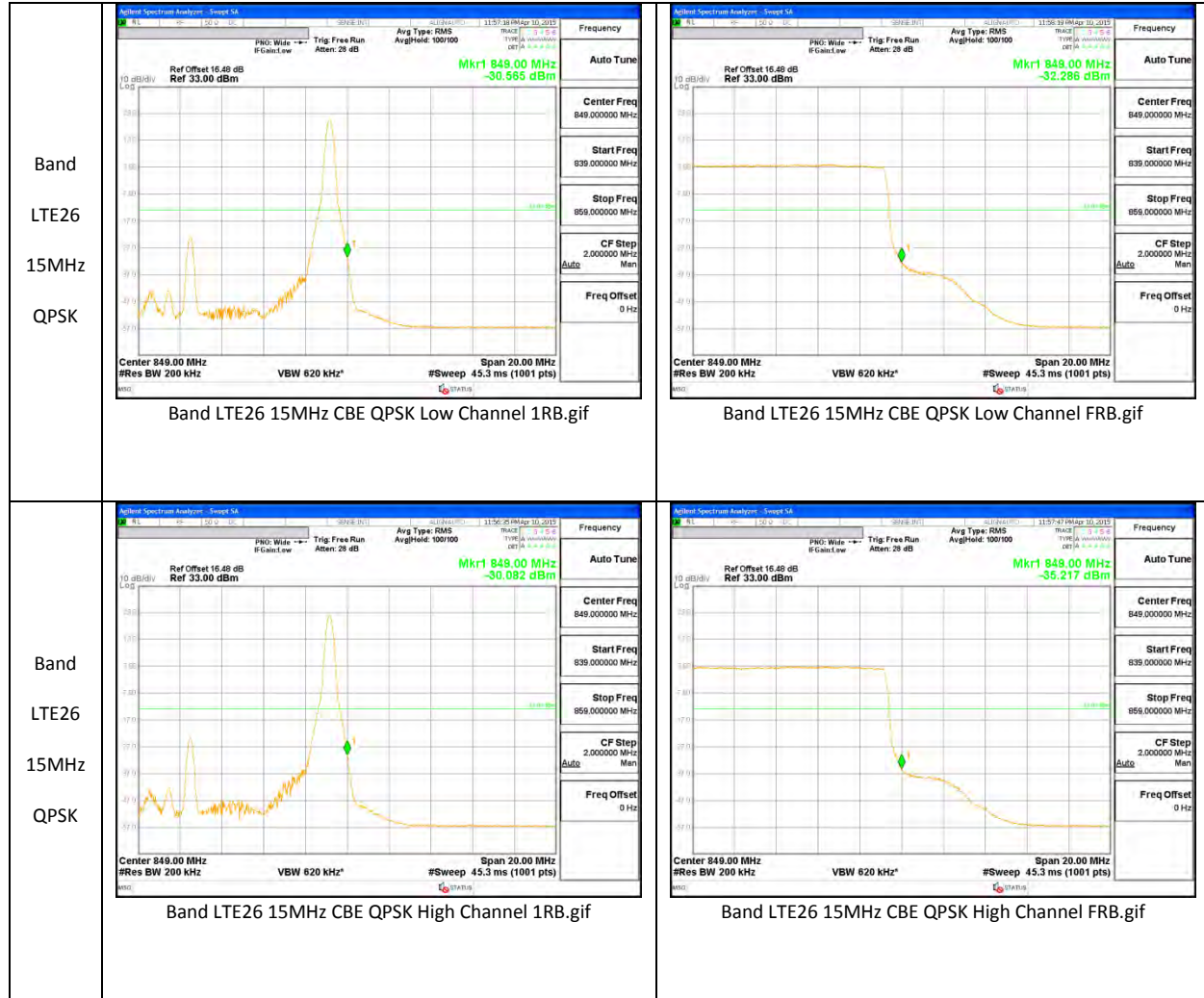


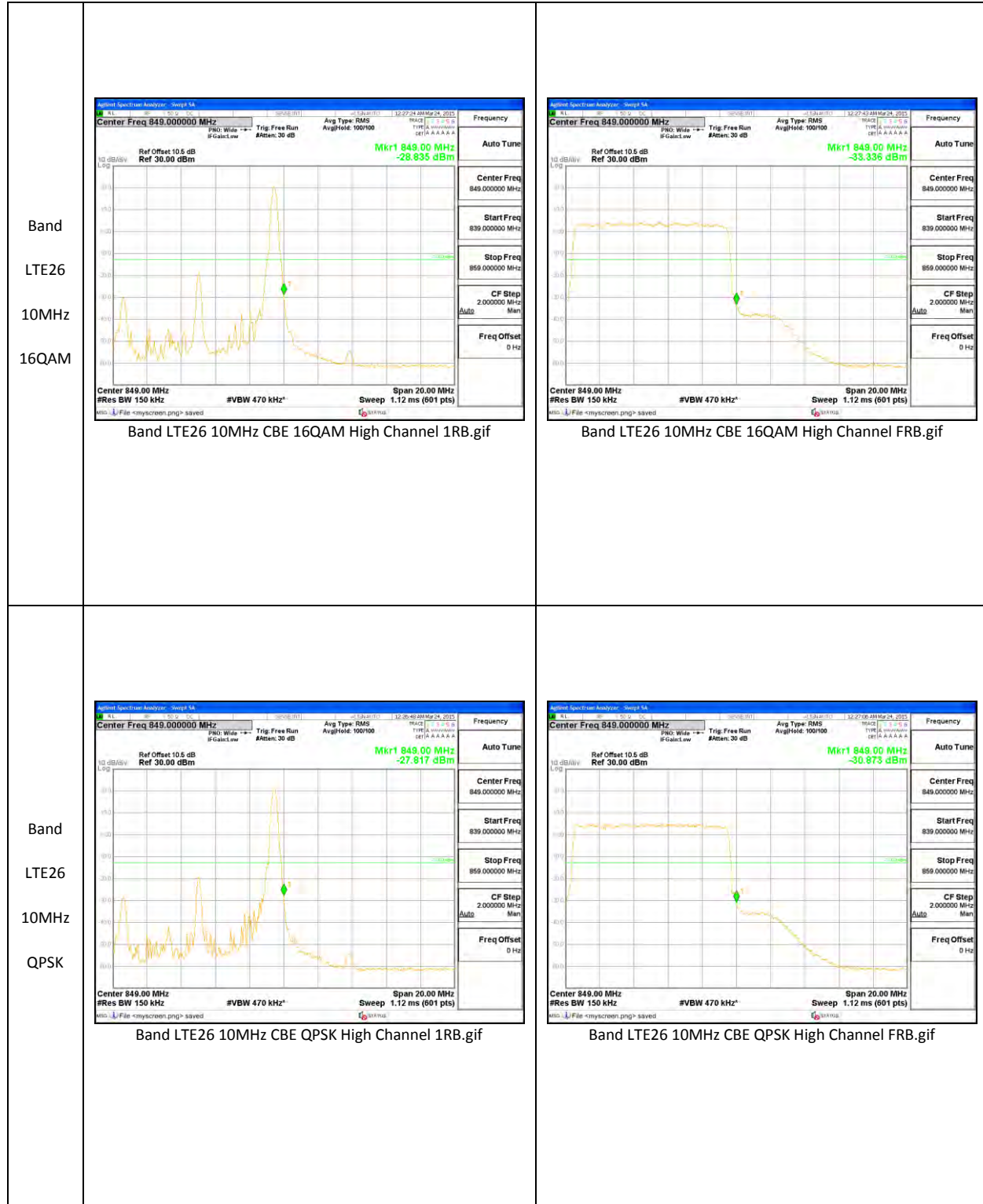
<p>Band LTE25 1.4MHz 16QAM</p>	 <p>Band LTE25 1.4MHz CBE 16QAM Low Channel 1RB.gif</p>	 <p>Band LTE25 1.4MHz CBE 16QAM Low Channel FRB.gif</p>
<p>Band LTE25 1.4MHz 16QAM</p>	 <p>Band LTE25 1.4MHz CBE 16QAM High Channel 1RB.gif</p>	 <p>Band LTE25 1.4MHz CBE 16QAM High Channel FRB.gif</p>



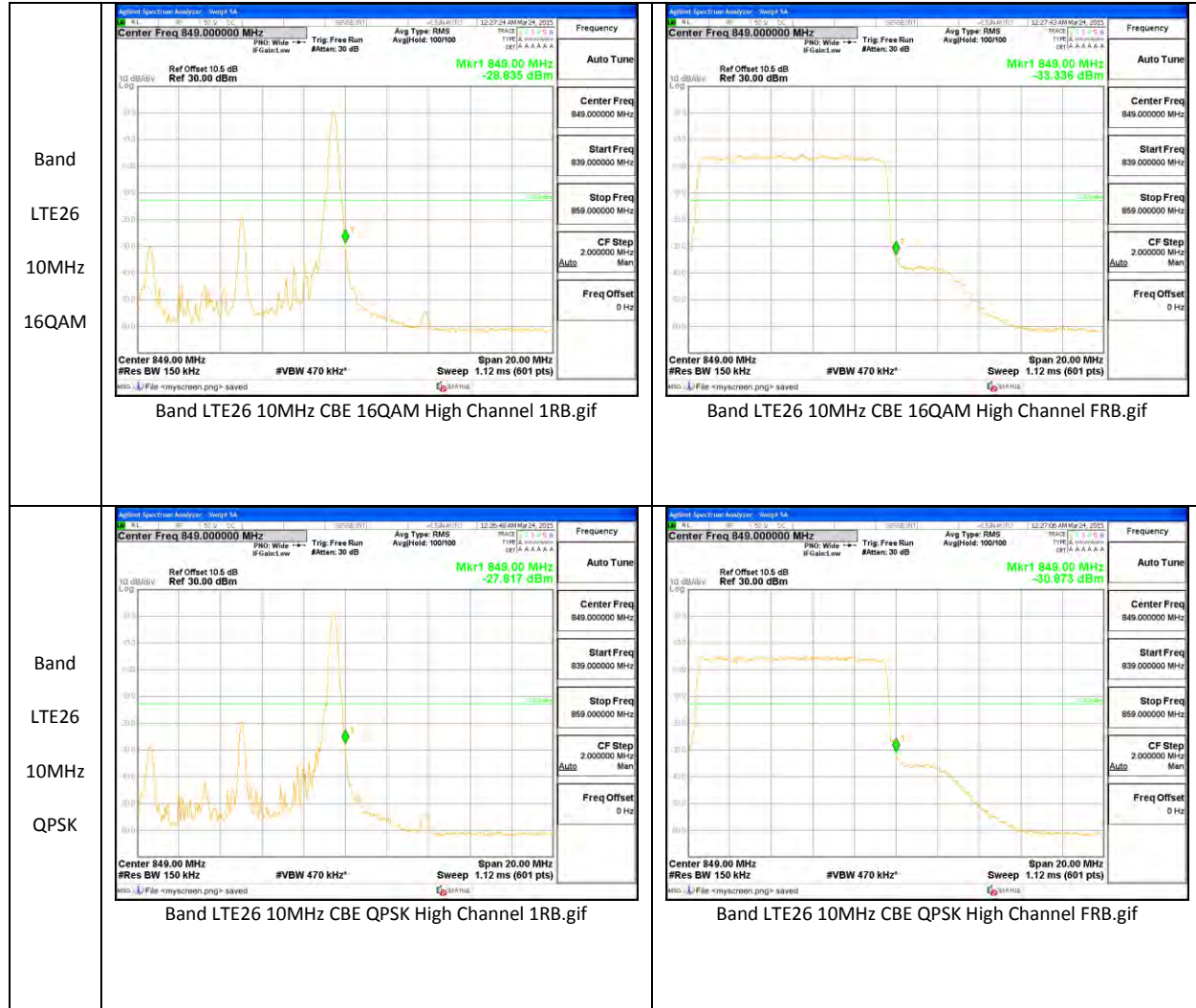
**LTE Band 26**

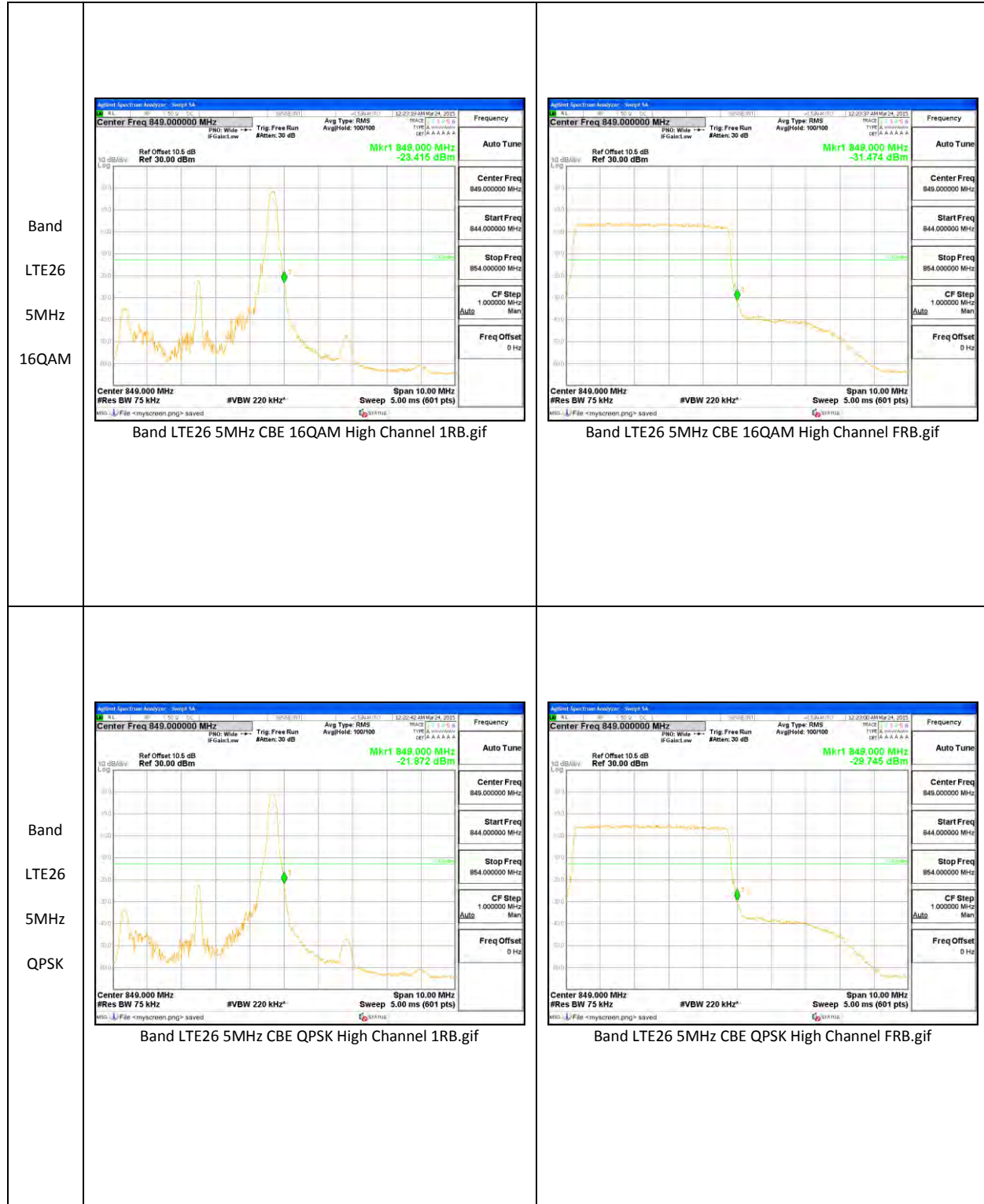
<p>Band LTE26 15MHz 16QAM</p>	 <p>Band LTE26 15MHz CBE 16QAM Low Channel 1RB.gif</p>	 <p>Band LTE26 15MHz CBE 16QAM Low Channel FRB.gif</p>
<p>Band LTE26 15MHz 16QAM</p>	 <p>Band LTE26 15MHz CBE 16QAM High Channel 1RB.gif</p>	 <p>Band LTE26 15MHz CBE 16QAM High Channel FRB.gif</p>

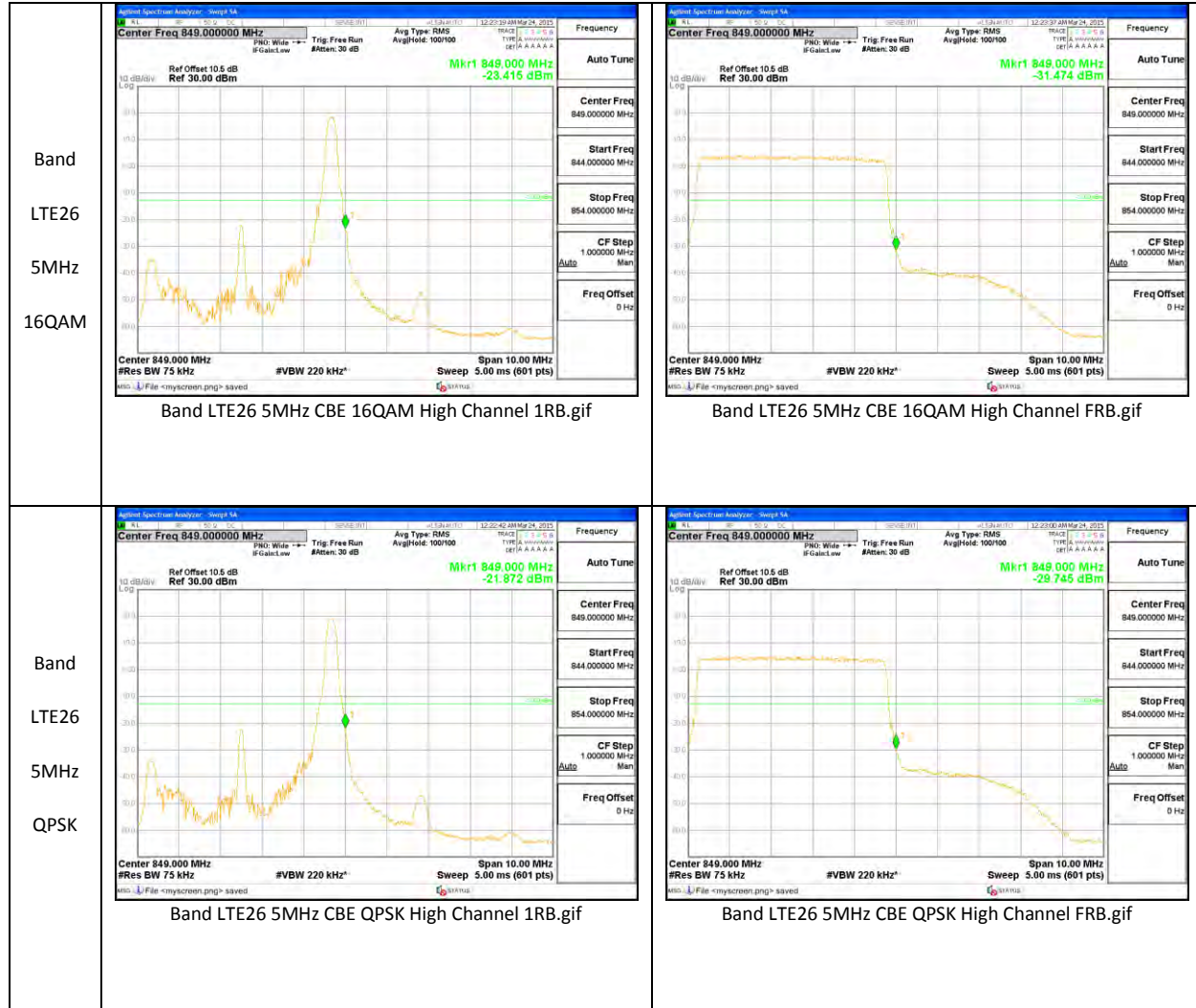


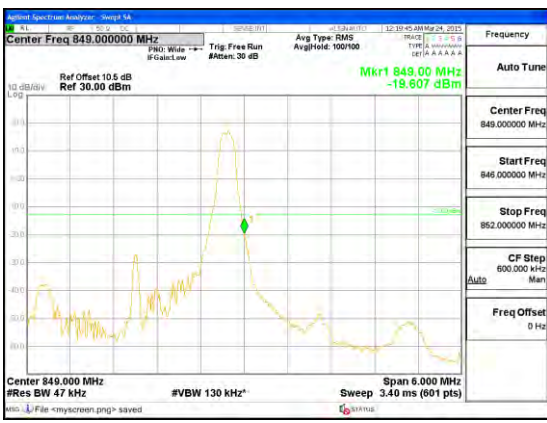

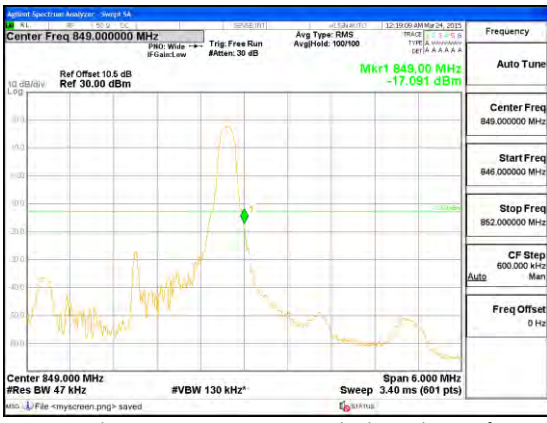



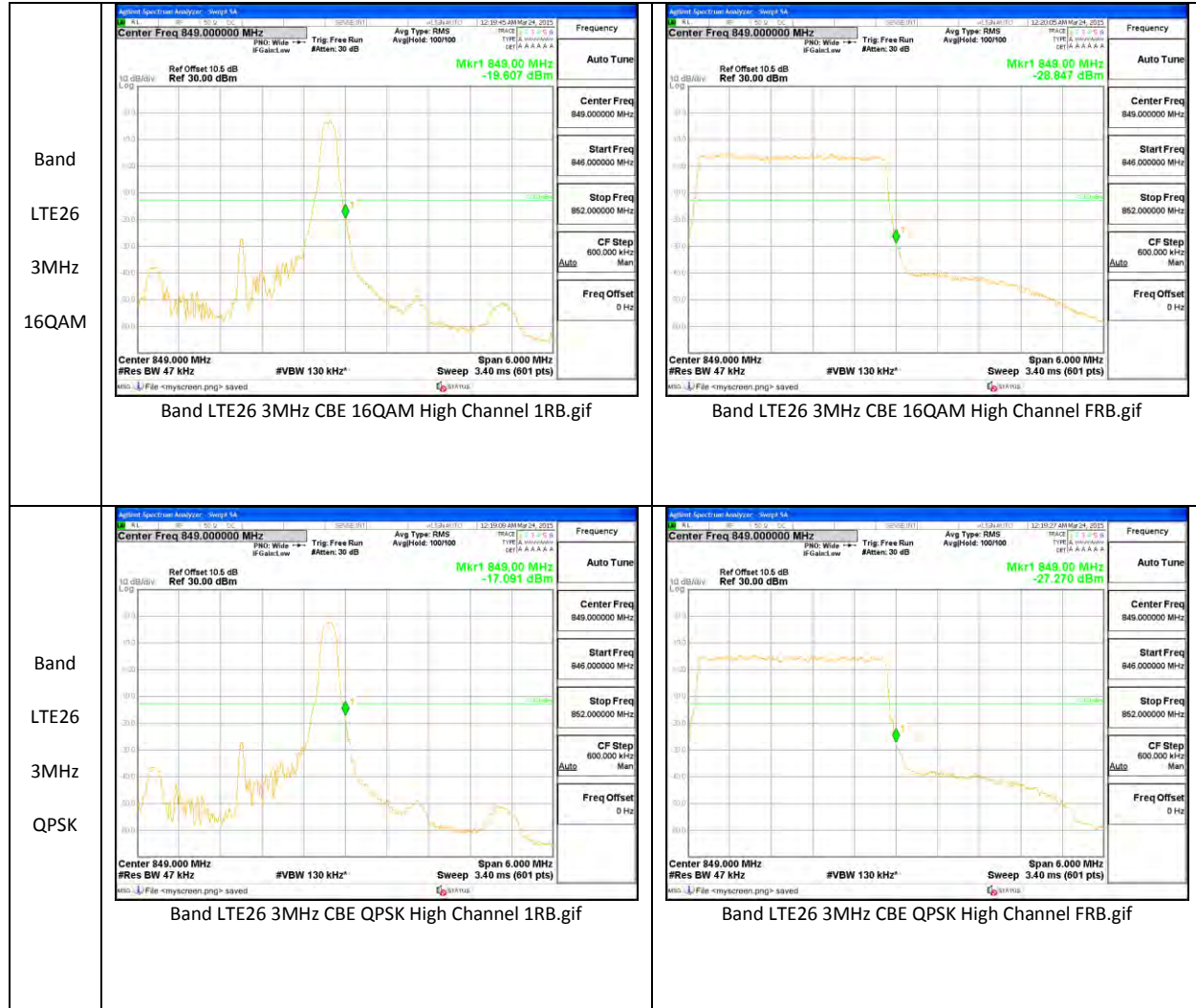


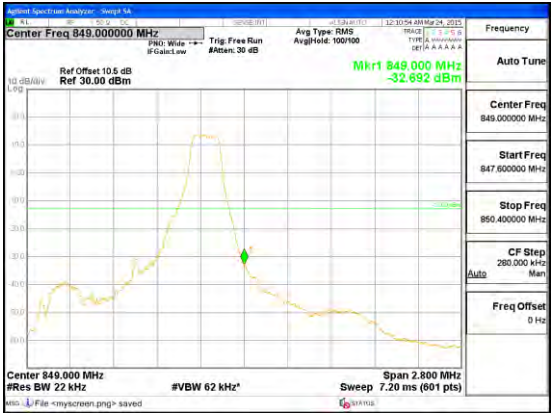

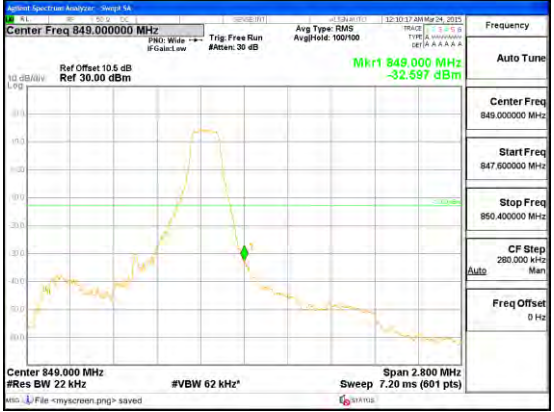



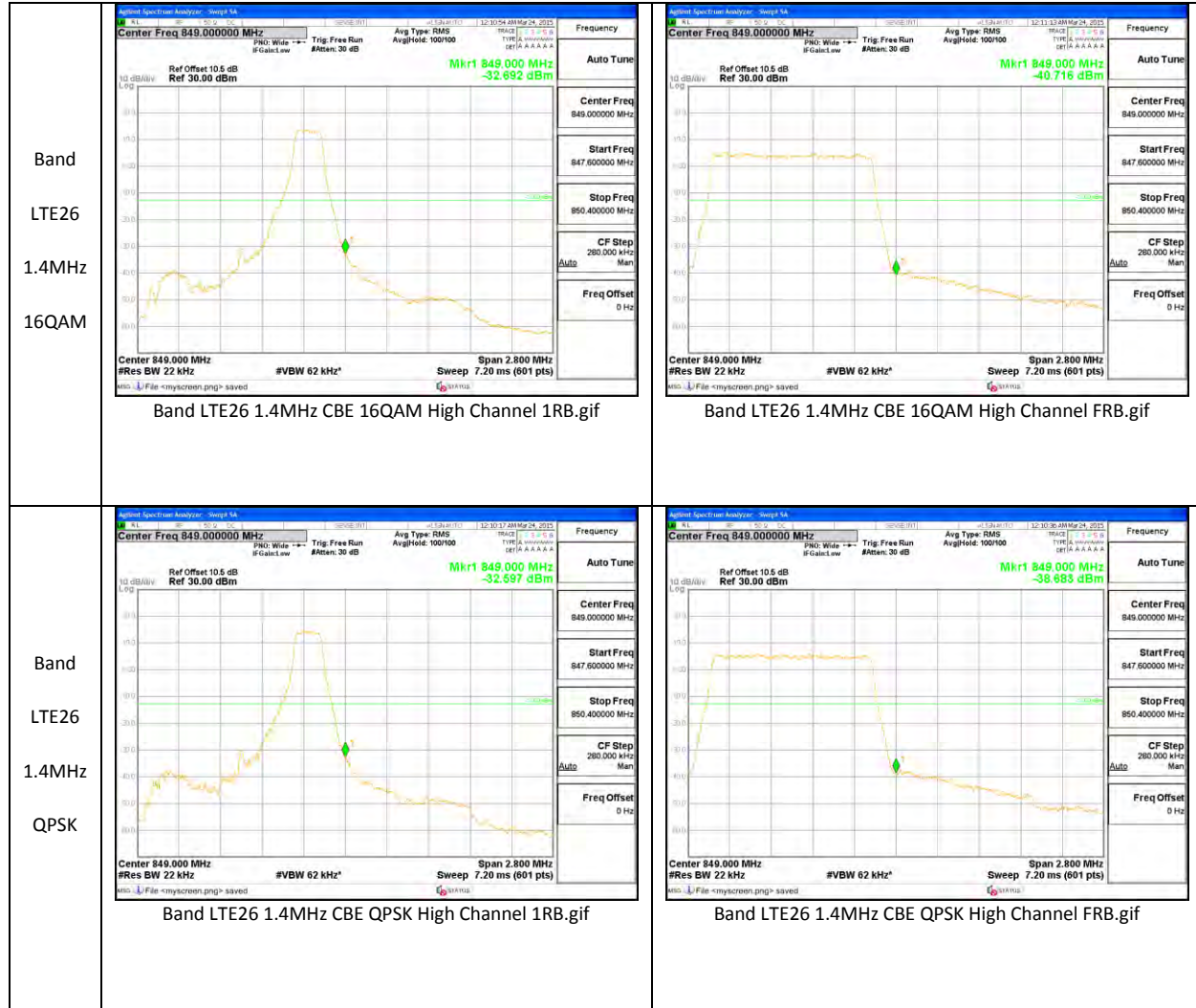




<p>Band LTE26 3MHz 16QAM</p>	 <p>Band LTE26 3MHz CBE 16QAM High Channel 1RB.gif</p>	 <p>Band LTE26 3MHz CBE 16QAM High Channel FRB.gif</p>
<p>Band LTE26 3MHz QPSK</p>	 <p>Band LTE26 3MHz CBE QPSK High Channel 1RB.gif</p>	 <p>Band LTE26 3MHz CBE QPSK High Channel FRB.gif</p>

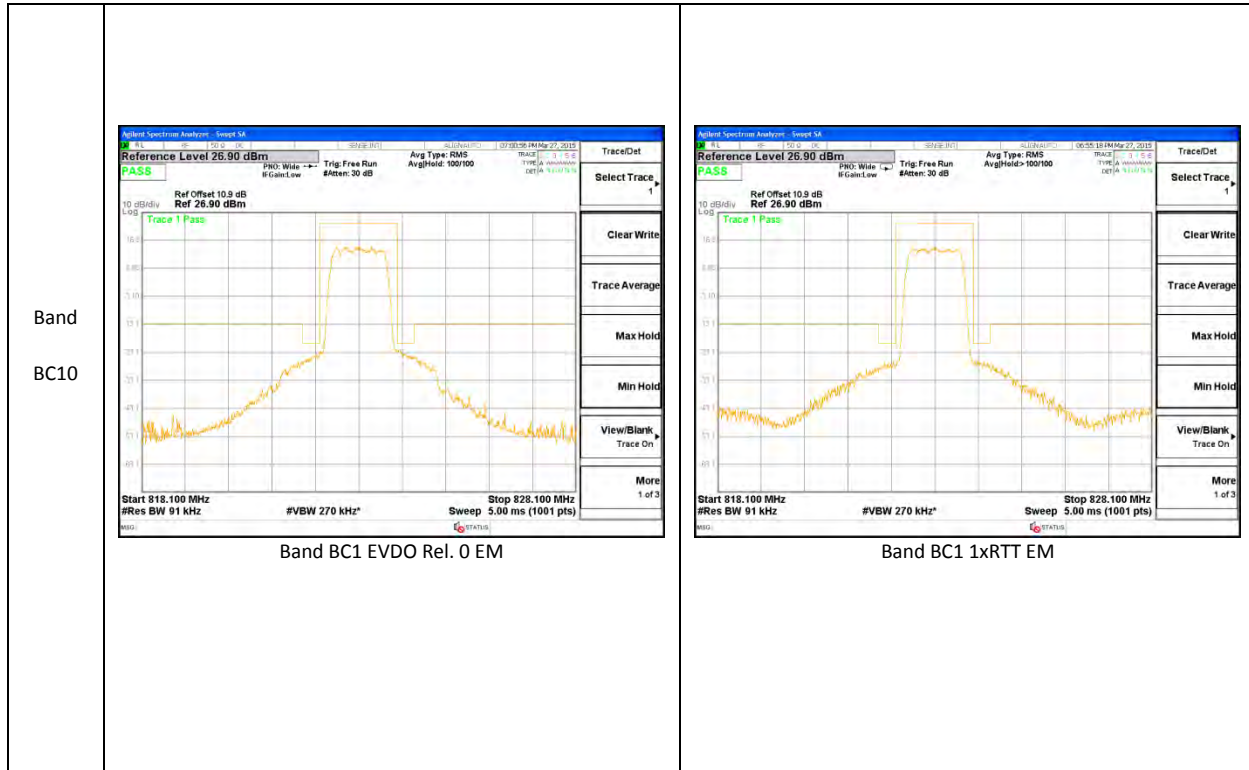


<p>Band                  LTE26                  1.4MHz                  16QAM</p>	 <p>Band LTE26 1.4MHz CBE 16QAM High Channel 1RB.gif</p>	 <p>Band LTE26 1.4MHz CBE 16QAM High Channel FRB.gif</p>
<p>Band                  LTE26                  1.4MHz                  QPSK</p>	 <p>Band LTE26 1.4MHz CBE QPSK High Channel 1RB.gif</p>	 <p>Band LTE26 1.4MHz CBE QPSK High Channel FRB.gif</p>



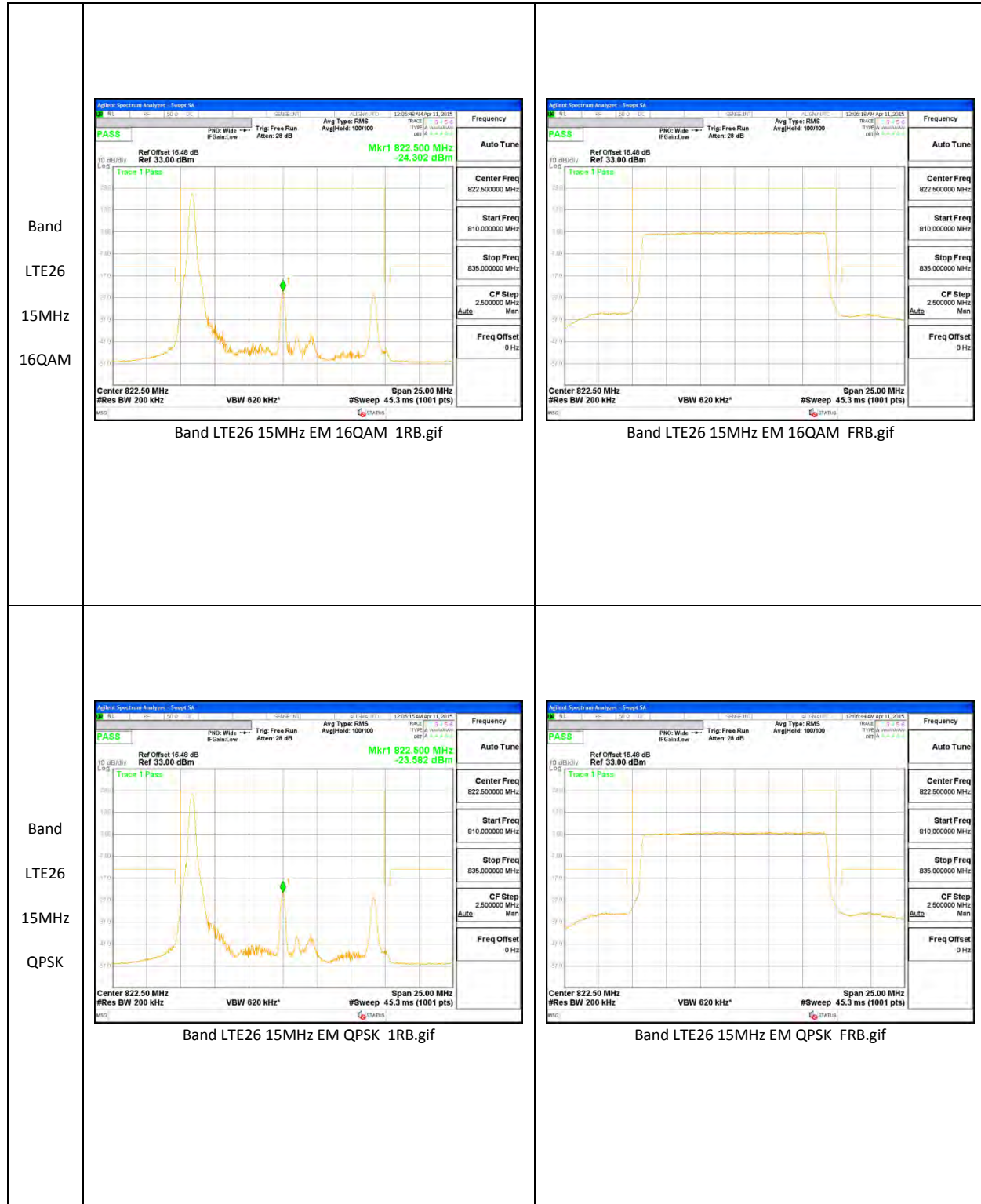
### 10.2.2. EMISSION MASK PLOTS

#### CDMA BC10

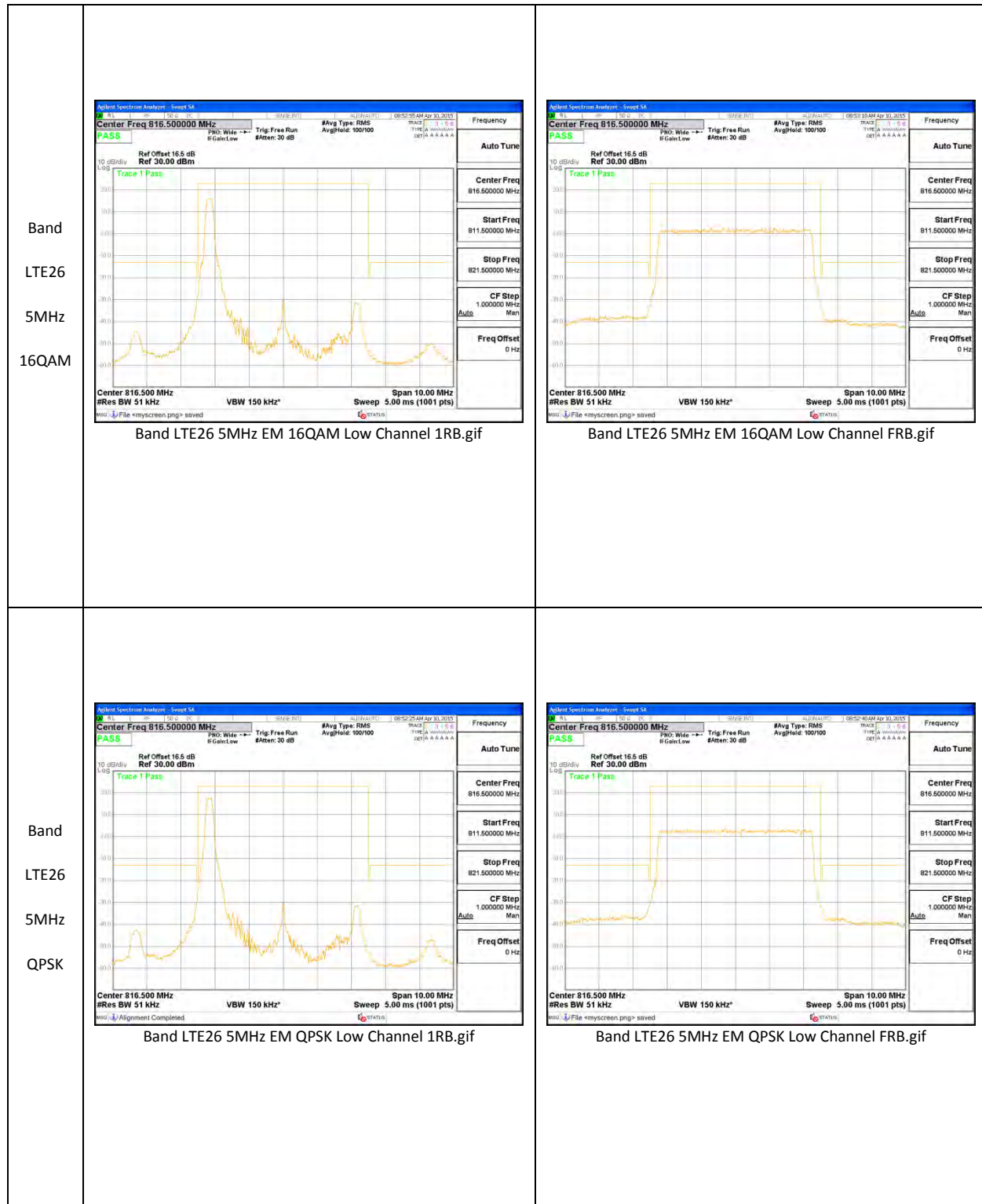


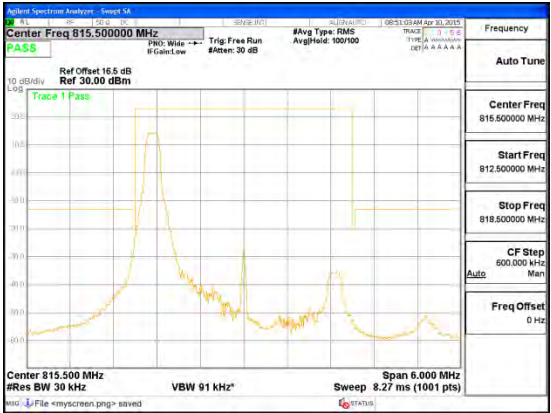
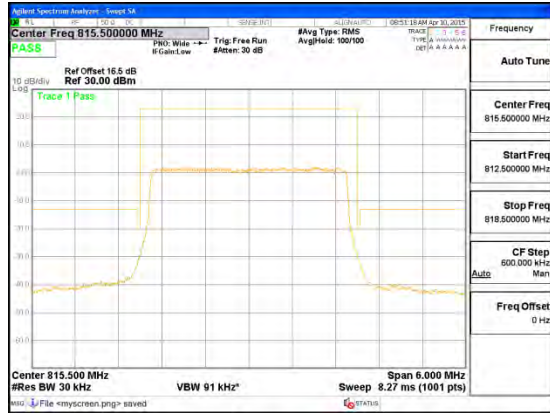








**LTE Band 26**




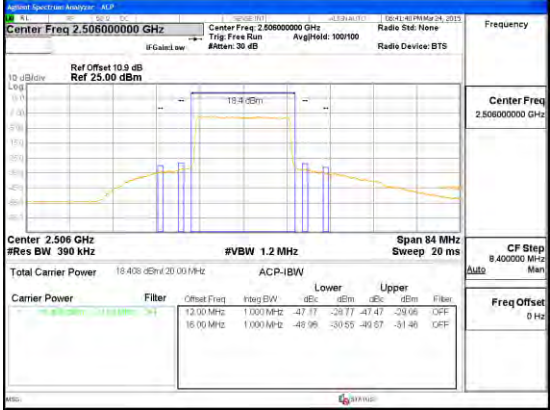
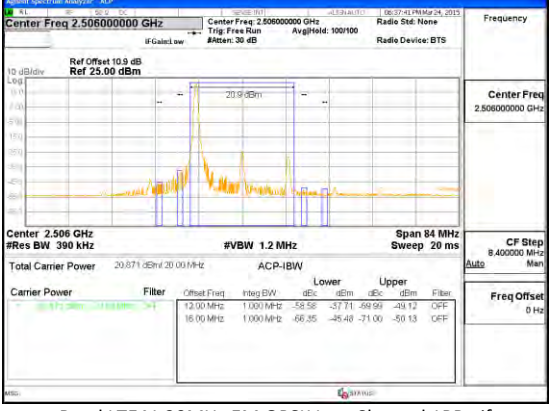
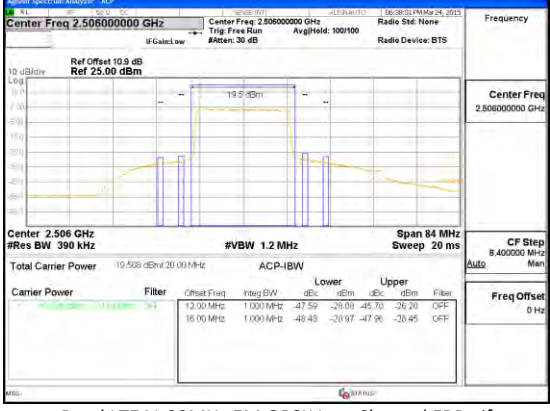
<p>Band LTE26 10MHz 16QAM</p>	<p>Band LTE26 10MHz EM 16QAM Low Channel 1RB.gif</p>	<p>Band LTE26 10MHz EM 16QAM Low Channel FRB.gif</p>
<p>Band LTE26 10MHz QPSK</p>	<p>Band LTE26 10MHz EM QPSK Low Channel 1RB.gif</p>	<p>Band LTE26 10MHz EM QPSK Low Channel FRB.gif</p>

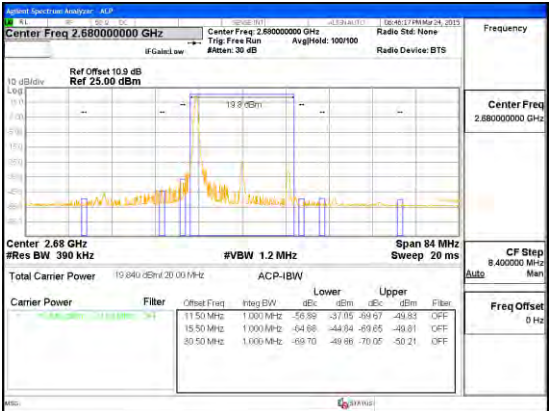


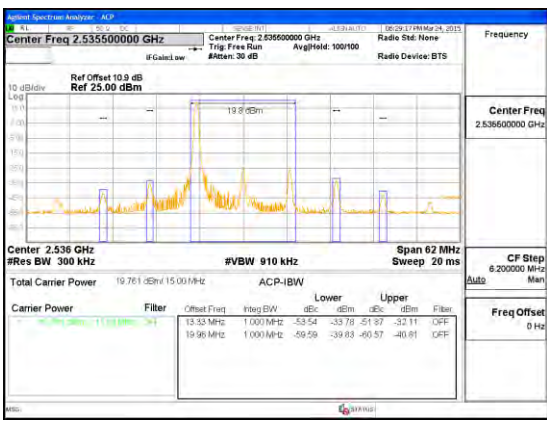
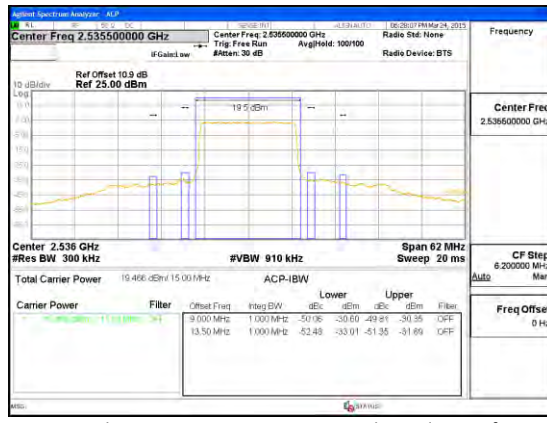
<p>Band LTE26 3MHz 16QAM</p>	 <p>Band LTE26 3MHz EM 16QAM Low Channel 1RB.gif</p>	 <p>Band LTE26 3MHz EM 16QAM Low Channel FRB.gif</p>
<p>Band LTE26 3MHz QPSK</p>	 <p>Band LTE26 5MHz EM QPSK Low Channel 1RB.gif</p>	 <p>Band LTE26 3MHz EM QPSK Low Channel FRB.gif</p>

<p>Band LTE26 1.4MHz 16QAM</p>	 <p>Band LTE26 1.4MHz EM 16QAM Low Channel 1RB.gif</p>	 <p>Band LTE26 1.4MHz EM 16QAM Low Channel FRB.gif</p>
<p>Band LTE26 1.4MHz QPSK</p>	 <p>Band LTE26 1.4MHz EM QPSK Low Channel 1RB.gif</p>	 <p>Band LTE26 1.4MHz EM QPSK Low Channel FRB.gif</p>

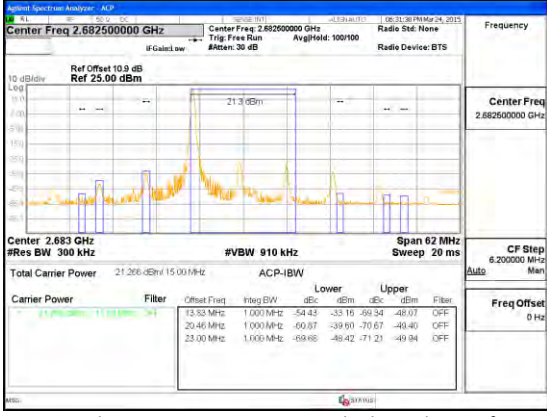
**LTE Band 41**

<p>Band LTE41 20MHz 16QAM</p>	 <p>Band LTE41 20MHz EM 16QAM Low Channel 1RB.gif</p>	 <p>Band LTE41 20MHz EM 16QAM Low Channel FRB.gif</p>
<p>Band LTE41 20MHz QPSK</p>	 <p>Band LTE41 20MHz EM QPSK Low Channel 1RB.gif</p>	 <p>Band LTE41 20MHz EM QPSK Low Channel FRB.gif</p>

<p>Band LTE41 20MHz 16QAM</p>	 <p>Band LTE41 20MHz EM 16QAM High Channel 1RB.gif</p>	 <p>Band LTE41 20MHz EM 16QAM High Channel FRB.gif</p>
<p>Band LTE41 20MHz QPSK</p>	 <p>Band LTE41 20MHz EM QPSK High Channel 1RB.gif</p>	 <p>Band LTE41 20MHz EM QPSK High Channel FRB.gif</p>

<p>Band LTE41 15MHz 16QAM</p>	 <p>Band LTE41 15MHz EM 16QAM Low Channel 1RB.gif</p>	 <p>Band LTE41 15MHz EM 16QAM Low Channel FRB.gif</p>
<p>Band LTE41 15MHz QPSK</p>	 <p>Band LTE41 15MHz EM QPSK Low Channel 1RB.gif</p>	 <p>Band LTE41 15MHz EM QPSK Low Channel FRB.gif</p>



<p>Band LTE41 15MHz 16QAM</p>	 <p>Center Freq 2.683 GHz              #Res BW 300 kHz              #VBW 910 kHz              Span 62 MHz              Sweep 20 ms              Total Carrier Power 10.537 dBm @ 15.00 MHz              ACP-IBW</p> <table border="1"> <thead> <tr> <th>Carrier Power</th> <th>Filter</th> <th>Offset Freq</th> <th>Integ BW</th> <th>dBc</th> <th>dBm</th> <th>dBc</th> <th>dBm</th> <th>Filter</th> <th>Freq Offset</th> </tr> </thead> <tbody> <tr> <td>-52.50</td> <td>13.53 MHz</td> <td>1.000 MHz</td> <td>-52.50</td> <td>-32.96</td> <td>-67.78</td> <td>-48.19</td> <td>-67.78</td> <td>OFF</td> <td>0 Hz</td> </tr> <tr> <td>-40.35</td> <td>20.40 MHz</td> <td>1.000 MHz</td> <td>-40.35</td> <td>-40.35</td> <td>-68.15</td> <td>-48.62</td> <td>-68.15</td> <td>OFF</td> <td>0 Hz</td> </tr> <tr> <td>-65.78</td> <td>23.00 MHz</td> <td>1.000 MHz</td> <td>-65.78</td> <td>-49.24</td> <td>-69.67</td> <td>-50.13</td> <td>-69.67</td> <td>OFF</td> <td>0 Hz</td> </tr> </tbody> </table> <p>Band LTE41 15MHz EM 16QAM High Channel 1RB.gif</p>	Carrier Power	Filter	Offset Freq	Integ BW	dBc	dBm	dBc	dBm	Filter	Freq Offset	-52.50	13.53 MHz	1.000 MHz	-52.50	-32.96	-67.78	-48.19	-67.78	OFF	0 Hz	-40.35	20.40 MHz	1.000 MHz	-40.35	-40.35	-68.15	-48.62	-68.15	OFF	0 Hz	-65.78	23.00 MHz	1.000 MHz	-65.78	-49.24	-69.67	-50.13	-69.67	OFF	0 Hz	 <p>Center Freq 2.683 GHz              #Res BW 300 kHz              #VBW 910 kHz              Span 62 MHz              Sweep 20 ms              Total Carrier Power 18.848 dBm @ 15.00 MHz              ACP-IBW</p> <table border="1"> <thead> <tr> <th>Carrier Power</th> <th>Filter</th> <th>Offset Freq</th> <th>Integ BW</th> <th>dBc</th> <th>dBm</th> <th>dBc</th> <th>dBm</th> <th>Filter</th> <th>Freq Offset</th> </tr> </thead> <tbody> <tr> <td>-45.67</td> <td>9.000 MHz</td> <td>1.000 MHz</td> <td>-45.67</td> <td>-26.87</td> <td>-45.22</td> <td>-26.37</td> <td>-45.22</td> <td>OFF</td> <td>0 Hz</td> </tr> <tr> <td>-46.83</td> <td>13.00 MHz</td> <td>1.000 MHz</td> <td>-46.83</td> <td>-37.99</td> <td>-47.29</td> <td>-33.44</td> <td>-47.29</td> <td>OFF</td> <td>0 Hz</td> </tr> <tr> <td>-56.02</td> <td>23.00 MHz</td> <td>1.000 MHz</td> <td>-56.02</td> <td>-37.19</td> <td>-57.32</td> <td>-38.47</td> <td>-57.32</td> <td>OFF</td> <td>0 Hz</td> </tr> </tbody> </table> <p>Band LTE41 15MHz EM 16QAM High Channel FRB.gif</p>	Carrier Power	Filter	Offset Freq	Integ BW	dBc	dBm	dBc	dBm	Filter	Freq Offset	-45.67	9.000 MHz	1.000 MHz	-45.67	-26.87	-45.22	-26.37	-45.22	OFF	0 Hz	-46.83	13.00 MHz	1.000 MHz	-46.83	-37.99	-47.29	-33.44	-47.29	OFF	0 Hz	-56.02	23.00 MHz	1.000 MHz	-56.02	-37.19	-57.32	-38.47	-57.32	OFF	0 Hz
Carrier Power	Filter	Offset Freq	Integ BW	dBc	dBm	dBc	dBm	Filter	Freq Offset																																																																									
-52.50	13.53 MHz	1.000 MHz	-52.50	-32.96	-67.78	-48.19	-67.78	OFF	0 Hz																																																																									
-40.35	20.40 MHz	1.000 MHz	-40.35	-40.35	-68.15	-48.62	-68.15	OFF	0 Hz																																																																									
-65.78	23.00 MHz	1.000 MHz	-65.78	-49.24	-69.67	-50.13	-69.67	OFF	0 Hz																																																																									
Carrier Power	Filter	Offset Freq	Integ BW	dBc	dBm	dBc	dBm	Filter	Freq Offset																																																																									
-45.67	9.000 MHz	1.000 MHz	-45.67	-26.87	-45.22	-26.37	-45.22	OFF	0 Hz																																																																									
-46.83	13.00 MHz	1.000 MHz	-46.83	-37.99	-47.29	-33.44	-47.29	OFF	0 Hz																																																																									
-56.02	23.00 MHz	1.000 MHz	-56.02	-37.19	-57.32	-38.47	-57.32	OFF	0 Hz																																																																									
<p>Band LTE41 15MHz QPSK</p>	 <p>Center Freq 2.683 GHz              #Res BW 300 kHz              #VBW 910 kHz              Span 62 MHz              Sweep 20 ms              Total Carrier Power 21.266 dBm @ 15.00 MHz              ACP-IBW</p> <table border="1"> <thead> <tr> <th>Carrier Power</th> <th>Filter</th> <th>Offset Freq</th> <th>Integ BW</th> <th>dBc</th> <th>dBm</th> <th>dBc</th> <th>dBm</th> <th>Filter</th> <th>Freq Offset</th> </tr> </thead> <tbody> <tr> <td>-54.43</td> <td>13.53 MHz</td> <td>1.000 MHz</td> <td>-54.43</td> <td>-33.19</td> <td>-59.34</td> <td>-48.07</td> <td>-59.34</td> <td>OFF</td> <td>0 Hz</td> </tr> <tr> <td>-60.87</td> <td>20.40 MHz</td> <td>1.000 MHz</td> <td>-60.87</td> <td>-39.91</td> <td>-70.67</td> <td>-48.49</td> <td>-70.67</td> <td>OFF</td> <td>0 Hz</td> </tr> <tr> <td>-69.66</td> <td>23.00 MHz</td> <td>1.000 MHz</td> <td>-69.66</td> <td>-48.42</td> <td>-71.21</td> <td>-49.94</td> <td>-71.21</td> <td>OFF</td> <td>0 Hz</td> </tr> </tbody> </table> <p>Band LTE41 15MHz EM QPSK High Channel 1RB.gif</p>	Carrier Power	Filter	Offset Freq	Integ BW	dBc	dBm	dBc	dBm	Filter	Freq Offset	-54.43	13.53 MHz	1.000 MHz	-54.43	-33.19	-59.34	-48.07	-59.34	OFF	0 Hz	-60.87	20.40 MHz	1.000 MHz	-60.87	-39.91	-70.67	-48.49	-70.67	OFF	0 Hz	-69.66	23.00 MHz	1.000 MHz	-69.66	-48.42	-71.21	-49.94	-71.21	OFF	0 Hz	 <p>Center Freq 2.683 GHz              #Res BW 300 kHz              #VBW 910 kHz              Span 62 MHz              Sweep 20 ms              Total Carrier Power 19.815 dBm @ 15.00 MHz              ACP-IBW</p> <table border="1"> <thead> <tr> <th>Carrier Power</th> <th>Filter</th> <th>Offset Freq</th> <th>Integ BW</th> <th>dBc</th> <th>dBm</th> <th>dBc</th> <th>dBm</th> <th>Filter</th> <th>Freq Offset</th> </tr> </thead> <tbody> <tr> <td>-43.95</td> <td>9.000 MHz</td> <td>1.000 MHz</td> <td>-43.95</td> <td>-24.14</td> <td>-43.47</td> <td>-23.65</td> <td>-43.47</td> <td>OFF</td> <td>0 Hz</td> </tr> <tr> <td>-45.66</td> <td>13.00 MHz</td> <td>1.000 MHz</td> <td>-45.66</td> <td>-25.84</td> <td>-45.96</td> <td>-25.16</td> <td>-45.96</td> <td>OFF</td> <td>0 Hz</td> </tr> <tr> <td>-57.54</td> <td>23.00 MHz</td> <td>1.000 MHz</td> <td>-57.54</td> <td>-37.73</td> <td>-58.80</td> <td>-38.89</td> <td>-58.80</td> <td>OFF</td> <td>0 Hz</td> </tr> </tbody> </table> <p>Band LTE41 15MHz EM QPSK High Channel FRB.gif</p>	Carrier Power	Filter	Offset Freq	Integ BW	dBc	dBm	dBc	dBm	Filter	Freq Offset	-43.95	9.000 MHz	1.000 MHz	-43.95	-24.14	-43.47	-23.65	-43.47	OFF	0 Hz	-45.66	13.00 MHz	1.000 MHz	-45.66	-25.84	-45.96	-25.16	-45.96	OFF	0 Hz	-57.54	23.00 MHz	1.000 MHz	-57.54	-37.73	-58.80	-38.89	-58.80	OFF	0 Hz
Carrier Power	Filter	Offset Freq	Integ BW	dBc	dBm	dBc	dBm	Filter	Freq Offset																																																																									
-54.43	13.53 MHz	1.000 MHz	-54.43	-33.19	-59.34	-48.07	-59.34	OFF	0 Hz																																																																									
-60.87	20.40 MHz	1.000 MHz	-60.87	-39.91	-70.67	-48.49	-70.67	OFF	0 Hz																																																																									
-69.66	23.00 MHz	1.000 MHz	-69.66	-48.42	-71.21	-49.94	-71.21	OFF	0 Hz																																																																									
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-43.95	9.000 MHz	1.000 MHz	-43.95	-24.14	-43.47	-23.65	-43.47	OFF	0 Hz																																																																									
-45.66	13.00 MHz	1.000 MHz	-45.66	-25.84	-45.96	-25.16	-45.96	OFF	0 Hz																																																																									
-57.54	23.00 MHz	1.000 MHz	-57.54	-37.73	-58.80	-38.89	-58.80	OFF	0 Hz																																																																									

Band LTE41 10MHz 16QAM	<p>Center Freq 2.50100000 GHz                  #Res BW 200 kHz                  #VBW 620 kHz                  Span 52 MHz                  Sweep 20 ms                  Total Carrier Power 19.342 dBm 10.00 MHz                  ACP-I BW Lower Upper                  Carrier Power Filter Offset Freq Integ BW dE dE dE dE Filter                  8.840 MHz 1000 MHz 49.98 -30.53 -51.73 -32.39 OFF                  13.26 MHz 1000 MHz 60.56 -41.22 -59.86 -40.55 OFF</p>	<p>Center Freq 2.50100000 GHz                  #Res BW 200 kHz                  #VBW 620 kHz                  Span 52 MHz                  Sweep 20 ms                  Total Carrier Power 18.259 dBm 10.00 MHz                  ACP-I BW Lower Upper                  Carrier Power Filter Offset Freq Integ BW dE dE dE dE Filter                  5.500 MHz 1000 MHz -44.58 -26.29 -43.79 -25.49 OFF                  11.00 MHz 1000 MHz 46.48 -31.18 -48.71 -30.41 OFF</p>	
Band LTE41 10MHz EM 16QAM Low Channel 1RB.gif		Band LTE41 10MHz EM 16QAM Low Channel FRB.gif	
Band LTE41 10MHz QPSK	<p>Center Freq 2.50100000 GHz                  #Res BW 200 kHz                  #VBW 620 kHz                  Span 52 MHz                  Sweep 20 ms                  Total Carrier Power 20.522 dBm 10.00 MHz                  ACP-I BW Lower Upper                  Carrier Power Filter Offset Freq Integ BW dE dE dE dE Filter                  8.840 MHz 1000 MHz 49.13 -26.60 -52.60 -32.07 OFF                  13.26 MHz 1000 MHz 60.28 -39.76 -61.07 -40.55 OFF</p>	<p>Center Freq 2.50100000 GHz                  #Res BW 200 kHz                  #VBW 620 kHz                  Span 52 MHz                  Sweep 20 ms                  Total Carrier Power 19.382 dBm 10.00 MHz                  ACP-I BW Lower Upper                  Carrier Power Filter Offset Freq Integ BW dE dE dE dE Filter                  5.500 MHz 1000 MHz -42.72 -23.34 -41.41 -22.03 OFF                  11.00 MHz 1000 MHz 46.92 -27.54 -46.51 -27.12 OFF</p>	
Band LTE41 10MHz EM QPSK Low Channel 1RB.gif		Band LTE41 10MHz EM QPSK Low Channel FRB.gif	

<p>Band LTE41 10MHz 16QAM</p>	 <p>Band LTE41 10MHz EM 16QAM High Channel 1RB.gif</p>	 <p>Band LTE41 10MHz EM 16QAM High Channel FRB.gif</p>
<p>Band LTE41 10MHz QPSK</p>	 <p>Band LTE41 10MHz EM QPSK High Channel 1RB.gif</p>	 <p>Band LTE41 10MHz EM QPSK High Channel FRB.gif</p>

<p>Band LTE41 5MHz 16QAM</p>	 <p>Band LTE41 5MHz EM 16QAM Low Channel 1RB.gif</p>	 <p>Band LTE41 5MHz EM 16QAM Low Channel FRB.gif</p>
<p>Band LTE41 5MHz QPSK</p>	 <p>Band LTE41 5MHz EM QPSK Low Channel 1RB.gif</p>	 <p>Band LTE41 5MHz EM QPSK Low Channel FRB.gif</p>

<p>Band LTE41 5MHz 16QAM</p>	 <p>Band LTE41 5MHz EM 16QAM High Channel 1RB.gif</p>	 <p>Band LTE41 5MHz EM 16QAM High Channel FRB.gif</p>
<p>Band LTE41 5MHz QPSK</p>	 <p>Band LTE41 5MHz EM QPSK High Channel 1RB.gif</p>	 <p>Band LTE41 5MHz EM QPSK High Channel FRB.gif</p>

### **10.3. OUT OF BAND EMISSIONS**

#### **RULE PART(S)**

FCC: §2.1051, §22.901, §22.917, §24.238, §27.53 and §90.691

#### **LIMITS**

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \log (P)$  dB.

Part 27: (m)(4) For mobile station, the attenuation factor shall be not less than  $43+10\log(P)$ dB at the channel edge and  $(55+10\log(P))$ dB at 5.5MHz from the channel edges.

#### **TEST PROCEDURE**

Per KDB 971168 D01 Power Meas License Digital Systems v02r02

The RF output of the transmitter was connected to a spectrum analyzer through a calibrated coaxial cable. Sufficient scans were taken to show the out-of-band Emissions, if any, up to 10th harmonic. Multiple sweeps were recorded in maximum hold mode using a peak detector to ensure that the worst-case emissions were caught.

#### **MODES TESTED**

GSM, CDMA, WCDMA, LTE

#### **RESULTS**

### 10.3.1. OUT OF BAND EMISSIONS RESULT

#### GSM

Band	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
GSM 850	GPRS	824.2	-24.319	-13	-11.319
		836.6	-24.218	-13	-11.218
		848.8	-24.516	-13	-11.516
	EGPRS	824.2	-24.342	-13	-11.342
		836.6	-24.884	-13	-11.884
		848.8	-23.295	-13	-10.295
GSM 1900	GPRS	1850.2	-24.549	-13	-11.549
		1880	-24.036	-13	-11.036
		1909.8	-23.669	-13	-10.669
	EGPRS	1850.2	-23.383	-13	-10.383
		1880	-24.369	-13	-11.369
		1909.8	-24.215	-13	-11.215

#### WCDMA

Band	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
Band 5	REL99	826.4	-25.065	-13	-12.065
		836.6	-25.2	-13	-12.2
		846.6	-24.009	-13	-11.009
	HSDPA	826.4	-24.089	-13	-11.089
		836.6	-24.371	-13	-11.371
		846.6	-24.695	-13	-11.695
Band 2	REL99	1852.4	-23.695	-13	-10.695
		1880	-22.26	-13	-9.26
		1907.6	-24.017	-13	-11.017
	HSDPA	1852.4	-23.611	-13	-10.611
		1880	-24.586	-13	-11.586
		1907.6	-24.878	-13	-11.878

**CDMA**

Band	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
BC10	1xRTT	817.9	-38.65	-13	-25.65
		820.5	-37.179	-13	-24.179
		823.1	-36.999	-13	-23.999
	EVDO	817.9	-36.968	-13	-23.968
		820.5	-37.018	-13	-24.018
		823.1	-36.536	-13	-23.536
BC0	1xRTT	824.7	-35.862	-13	-22.862
		836.52	-36.126	-13	-23.126
		848.31	-36.415	-13	-23.415
	EVDO	824.7	-36.412	-13	-23.412
		836.52	-36.567	-13	-23.567
		848.31	-36.463	-13	-23.463
BC1	1xRTT	1851.25	-36.963	-13	-23.963
		1880	-36.945	-13	-23.945
		1908.75	-36.46	-13	-23.46
	EVDO	1851.25	-36.226	-13	-23.226
		1880	-35.585	-13	-22.585
		1908.75	-36.801	-13	-23.801



**LTE Band 2**

Band	BW (MHz)	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
LTE2	20	QPSK	1860	-27.70	-13	-14.7
			1880	-27.03	-13	-14.03
			1900	-27.50	-13	-14.5
		16QAM	1860	-33.52	-13	-20.516
			1880	-27.46	-13	-14.46
			1900	-27.77	-13	-14.77
	15	QPSK	1857.5	-27.69	-13	-14.69
			1880	-28.20	-13	-15.2
			1902.5	-27.85	-13	-14.85
		16QAM	1857.5	-27.71	-13	-14.71
			1880	-27.89	-13	-14.89
			1902.5	-33.74	-13	-20.74
	10	QPSK	1855	-33.24	-13	-20.24
			1880	-27.57	-13	-14.57
			1905	-32.92	-13	-19.92
		16QAM	1855	-26.84	-13	-13.84
			1880	-27.06	-13	-14.06
			1905	-34.49	-13	-21.49
	5	QPSK	1852.5	-32.67	-13	-19.67
			1880	-27.36	-13	-14.36
			1907.5	-27.79	-13	-14.79
		16QAM	1852.5	-32.67	-13	-19.67
			1880	-27.85	-13	-14.85
			1907.5	-27.79	-13	-14.79

Band	BW (MHz)	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
LTE2	3	QPSK	1851.5	-27.00	-13	-14
			1880	-27.23	-13	-14.23
			1908.5	-27.27	-13	-14.27
		16QAM	1851.5	-28.19	-13	-15.19
			1880	-27.16	-13	-14.16
			1908.5	-28.01	-13	-15.01
	1.4	QPSK	1850.7	-27.50	-13	-14.5
			1880	-27.79	-13	-14.79
			1909.3	-27.86	-13	-14.86
		16QAM	1850.7	-27.62	-13	-14.62
			1880	-27.69	-13	-14.69
			1909.3	-26.75	-13	-13.75

**LTE Band 4**

Band	BW (MHz)	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
LTE4	20	QPSK	1720	-27.88	-13	-14.88
			1732.5	-30.88	-13	-17.88
			1745	-27.87	-13	-14.87
		16QAM	1720	-27.20	-13	-14.20
			1732.5	-29.59	-13	-16.59
			1745	-27.49	-13	-14.49
	15	QPSK	1717.5	-27.35	-13	-14.35
			1732.5	-27.35	-13	-14.35
			1747.5	-30.74	-13	-17.74
		16QAM	1717.5	-27.58	-13	-14.58
			1732.5	-27.94	-13	-14.94
			1747.5	-27.32	-13	-14.32
	10	QPSK	1715	-30.71	-13	-17.71
			1732.5	-29.32	-13	-16.32
			1750	-30.71	-13	-17.71
		16QAM	1715	-30.59	-13	-17.59
			1732.5	-27.90	-13	-14.90
			1750	-22.60	-13	-9.60
	5	QPSK	1712.5	-30.15	-13	-17.15
			1732.5	-27.63	-13	-14.63
			1752.5	-30.68	-13	-17.68
		16QAM	1712.5	-27.63	-13	-14.63
			1732.5	-27.82	-13	-14.82
			1752.5	-30.92	-13	-17.92

Band	BW (MHz)	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
LTE4	3	QPSK	1711.5	-27.55	-13	-14.55
			1732.5	-27.26	-13	-14.26
			1753.5	-27.19	-13	-14.19
		16QAM	1711.5	-26.97	-13	-13.97
			1732.5	-27.58	-13	-14.58
			1753.5	-27.66	-13	-14.66
	1.4	QPSK	1710.7	-27.12	-13	-14.12
			1732.5	-27.77	-13	-14.77
			1754.3	-27.89	-13	-14.89
		16QAM	1710.7	-27.60	-13	-14.60
			1732.5	-27.61	-13	-14.61
			1754.3	-27.42	-13	-14.42

**LTE Band 5**

Band	BW (MHz)	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
LTE5	10	QPSK	829	-34.45	-13	-21.45
			836.5	-28.15	-13	-15.15
			844	33.70	-13	46.70
		16QAM	829	-34.01	-13	-21.01
			836.5	-27.80	-13	-14.80
			844	-35.11	-13	-22.11
	5	QPSK	826.5	-27.39	-13	-14.39
			836.5	-28.07	-13	-15.07
			846.5	-34.67	-13	-21.67
		16QAM	826.5	-27.82	-13	-14.82
			836.5	-28.11	-13	-15.11
			846.5	-34.52	-13	-21.52
	3	QPSK	825.5	-27.88	-13	-14.88
			836.5	-28.46	-13	-15.46
			847.5	-27.57	-13	-14.57
		16QAM	825.5	-27.58	-13	-14.58
			836.5	-28.30	-13	-15.30
			847.5	-27.76	-13	-14.76
	1.4	QPSK	824.7	-28.01	-13	-15.01
			836.5	-28.34	-13	-15.34
			848.3	-27.74	-13	-14.74
		16QAM	824.7	-27.74	-13	-14.74
			836.5	-27.36	-13	-14.36
			848.3	-27.19	-13	-14.19

**LTE Band 12**

Band	BW (MHz)	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
LTE12	10	QPSK	704	-27.78	-13	-14.78
			707.5	-24.48	-13	-11.48
			711	-26.87	-13	-13.87
		16QAM	704	-28.00	-13	-15.00
			707.5	-24.00	-13	-11.00
			711	-26.97	-13	-13.97
	5	QPSK	701.5	-28.39	-13	-15.39
			707.5	-29.26	-13	-16.26
			713.5	-25.67	-13	-12.67
		16QAM	701.5	-27.70	-13	-14.70
			707.5	-26.97	-13	-13.97
			713.5	-26.70	-13	-13.70
	3	QPSK	700.5	-27.69	-13	-14.69
			707.5	-27.82	-13	-14.82
			714.5	-27.87	-13	-14.87
		16QAM	700.5	-27.91	-13	-14.91
			707.5	-27.93	-13	-14.93
			714.5	-27.09	-13	-14.09
	1.4	QPSK	699.7	-27.85	-13	-14.85
			707.5	-27.10	-13	-14.10
			715.3	-26.99	-13	-13.99
16QAM		699.7	-28.25	-13	-15.25	
		707.5	-27.54	-13	-14.54	
		715.3	-27.49	-13	-14.49	

**LTE Band 25**

Band	BW (MHz)	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
LTE25	20	QPSK	1860	-27.70	-13	-14.70
			1882.5	-27.03	-13	-14.03
			1905	-27.50	-13	-14.50
		16QAM	1860	-33.52	-13	-20.52
			1882.5	-27.46	-13	-14.46
			1905	-27.77	-13	-14.77
	15	QPSK	1857.5	-27.51	-13	-14.51
			1882.5	-24.26	-13	-11.26
			1907.5	-22.35	-13	-9.35
		16QAM	1857.5	-23.54	-13	-10.54
			1882.5	-23.86	-13	-10.86
			1907.5	-27.58	-13	-14.58
	10	QPSK	1855	-33.96	-13	-20.96
			1882.5	-27.90	-13	-14.90
			1910	-27.34	-13	-14.34
		16QAM	1855	-27.44	-13	-14.44
			1882.5	-27.28	-13	-14.28
			1910	-33.08	-13	-20.08
	5	QPSK	1852.5	-31.23	-13	-18.23
			1882.5	-27.52	-13	-14.52
			1912.5	-33.91	-13	-20.91
16QAM		1852.5	-33.38	-13	-20.38	
		1882.5	-27.61	-13	-14.61	
		1912.5	-27.67	-13	-14.67	

Band	BW (MHz)	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
LTE25	3	QPSK	1851.5	-28.03	-13	-15.03
			1882.5	-27.52	-13	-14.52
			1913.5	-27.80	-13	-14.80
		16QAM	1851.5	-27.50	-13	-14.50
			1882.5	-26.91	-13	-13.91
			1913.5	-27.93	-13	-14.93
	1.4	QPSK	1850.7	-28.19	-13	-15.19
			1882.5	-27.59	-13	-14.59
			1914.3	-27.32	-13	-14.32
		16QAM	1850.7	-27.47	-13	-14.47
			1882.5	-27.35	-13	-14.35
			1914.3	-27.70	-13	-14.70



**LTE Band 26**

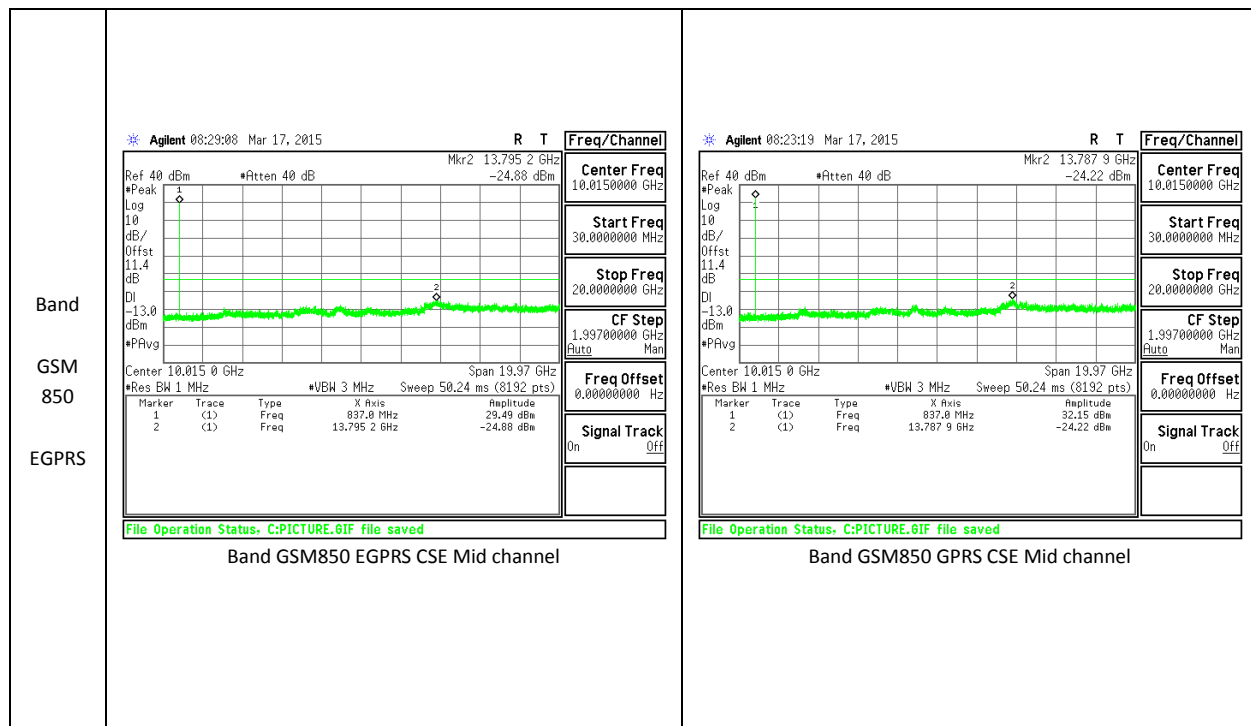
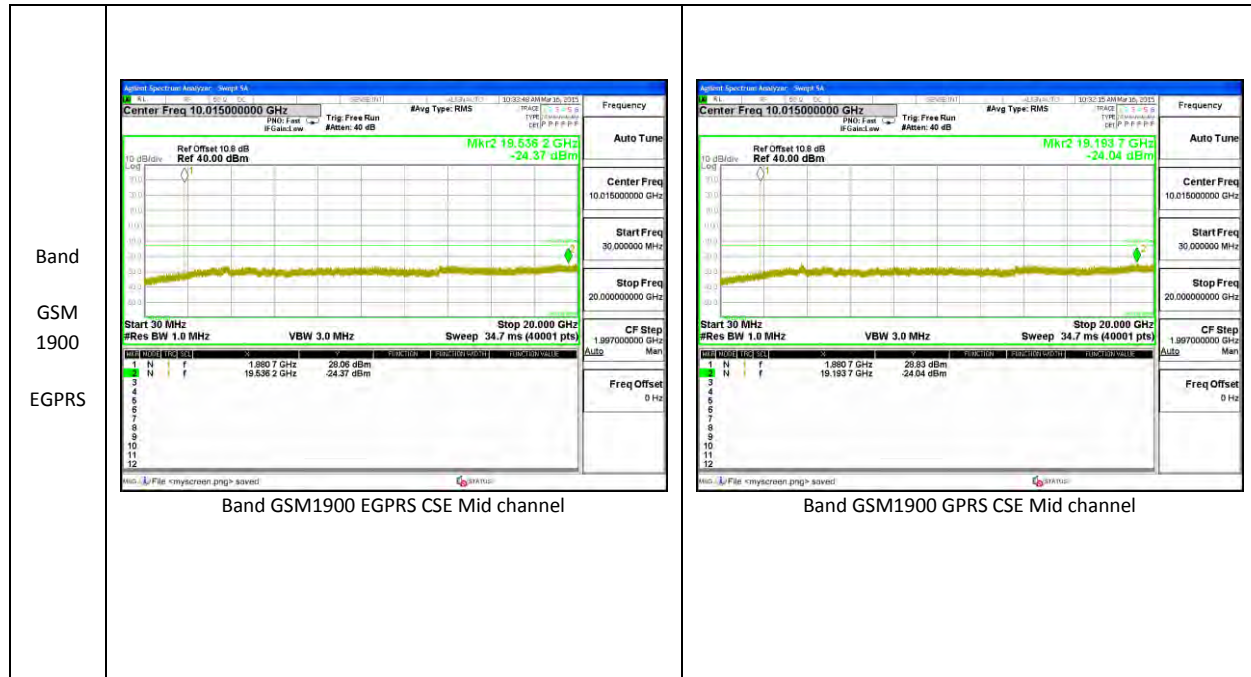
Band	BW (MHz)	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
LTE26	15	QPSK	821.5	-31.69	-13	-18.69
			831.5	-30.83	-13	-17.83
			841.5	-30.55	-13	-17.55
		16QAM	821.5	-31.36	-13	-18.36
			831.5	-30.97	-13	-17.97
			841.5	-31.48	-13	-18.48
	10	QPSK	819	-27.92	-13	-14.92
			831.5	-27.79	-13	-14.79
			844	-27.84	-13	-14.84
		16QAM	819	-27.72	-13	-14.72
			831.5	-27.96	-13	-14.96
			844	-27.84	-13	-14.84
	5	QPSK	816.5	-27.91	-13	-14.91
			831.5	-27.80	-13	-14.80
			846.5	-26.14	-13	-13.14
		16QAM	816.5	-27.39	-13	-14.39
			831.5	-27.84	-13	-14.84
			846.5	-26.14	-13	-13.14
	3	QPSK	815.5	-28.16	-13	-15.16
			831.5	-26.77	-13	-13.77
			847.5	-29.16	-13	-16.16
		16QAM	815.5	-27.95	-13	-14.95
			831.5	-27.54	-13	-14.54
			847.5	-27.94	-13	-14.94
1.4	QPSK	814.7	-27.95	-13	-14.95	
		831.5	-27.76	-13	-14.76	
		848.3	-29.02	-13	-16.02	
	16QAM	814.7	-29.21	-13	-16.21	
		831.5	-28.20	-13	-15.20	
		848.3	-29.17	-13	-16.17	

**LTE Band 41**

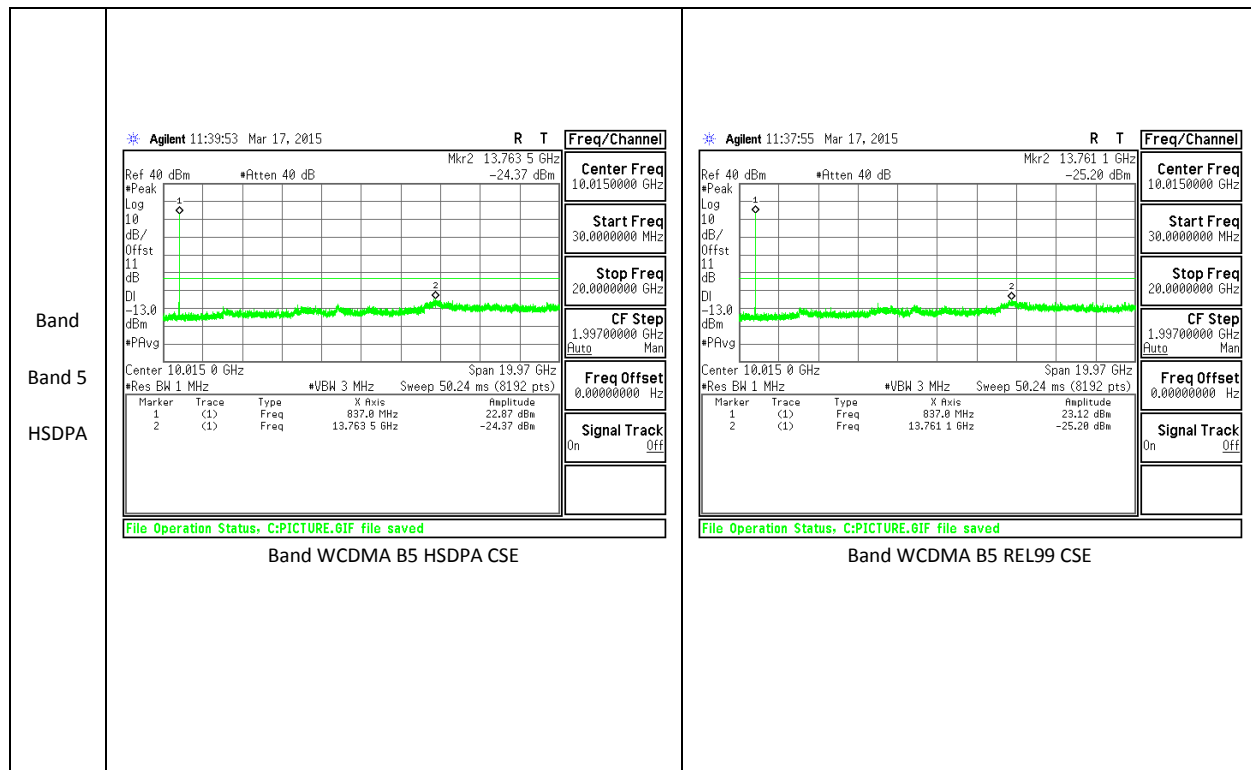
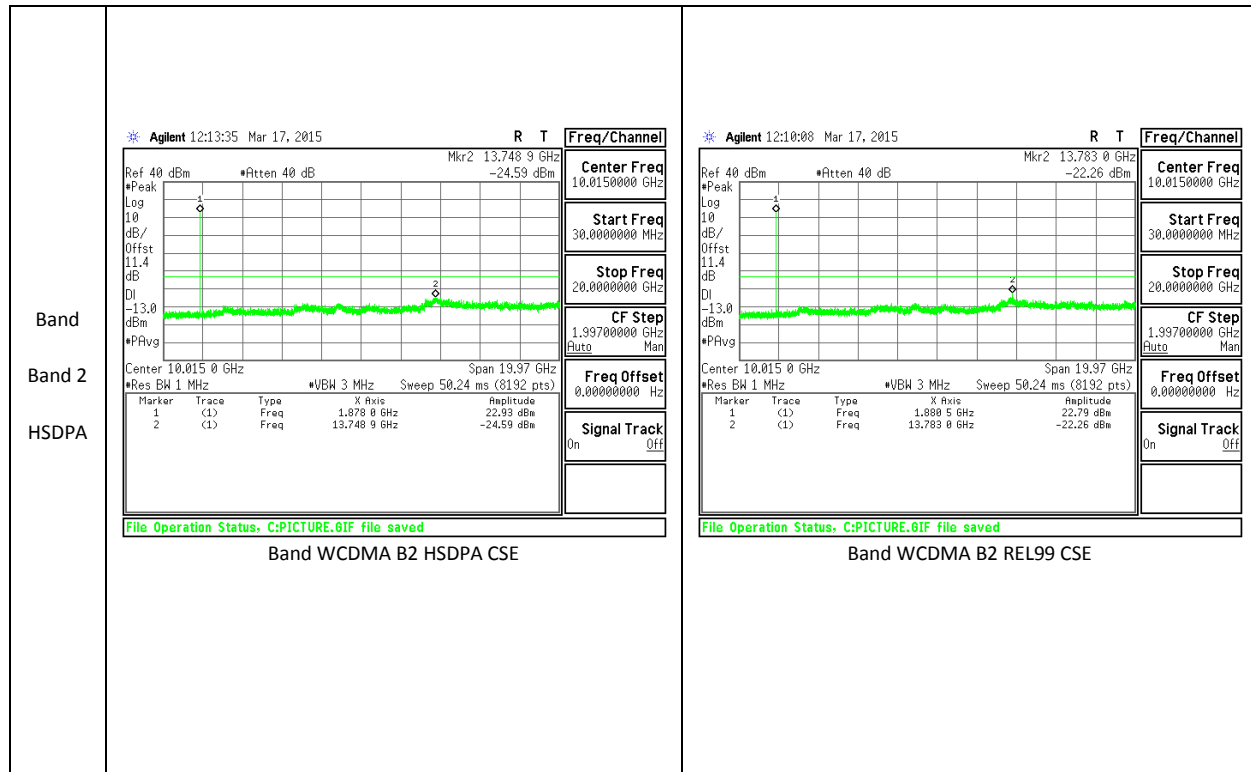
Band	BW (MHz)	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
LTE41	20	QPSK	2506	-33.05	-25	-8.05
			2593	-34.10	-25	-9.10
			2680	-33.53	-25	-8.53
		16QAM	2506	-33.85	-25	-8.85
			2593	-33.14	-25	-8.14
			2680	-33.57	-25	-8.57
	15	QPSK	2503.5	-33.94	-25	-8.94
			2593	-33.96	-25	-8.96
			2682.5	-33.42	-25	-8.42
		16QAM	2503.5	-33.49	-25	-8.49
			2593	-33.62	-25	-8.62
			2682.5	-34.13	-25	-9.13
	10	QPSK	2501	-33.66	-25	-8.66
			2593	-33.13	-25	-8.13
			2685	-33.54	-25	-8.54
		16QAM	2501	-34.13	-25	-9.13
			2593	-37.39	-25	-12.39
			2685	-33.77	-25	-8.77
	5	QPSK	2498.5	-33.41	-25	-8.41
			2593	-33.33	-25	-8.33
			2687.5	-33.18	-25	-8.18
16QAM		2498.5	-33.54	-25	-8.54	
		2593	-33.32	-25	-8.32	
		2687.5	-33.73	-25	-8.73	

### 10.3.2. OUT OF BAND EMISSIONS PLOTS

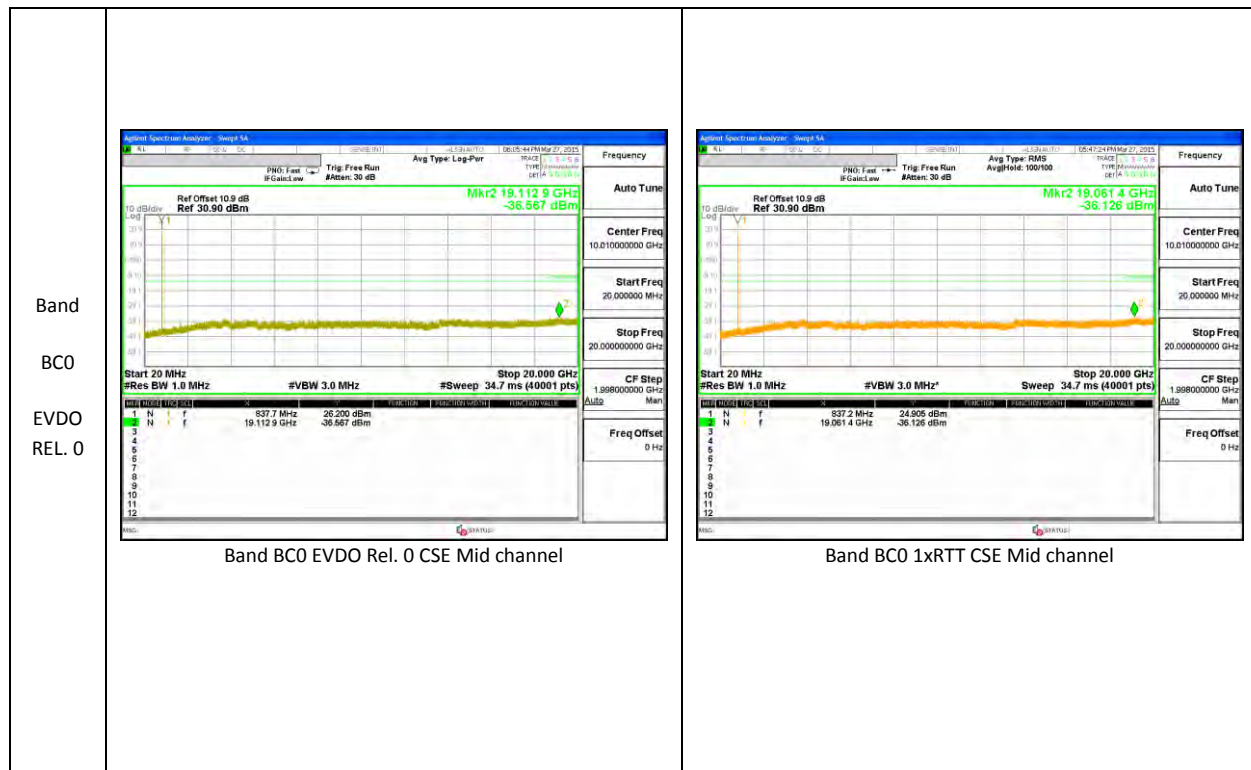
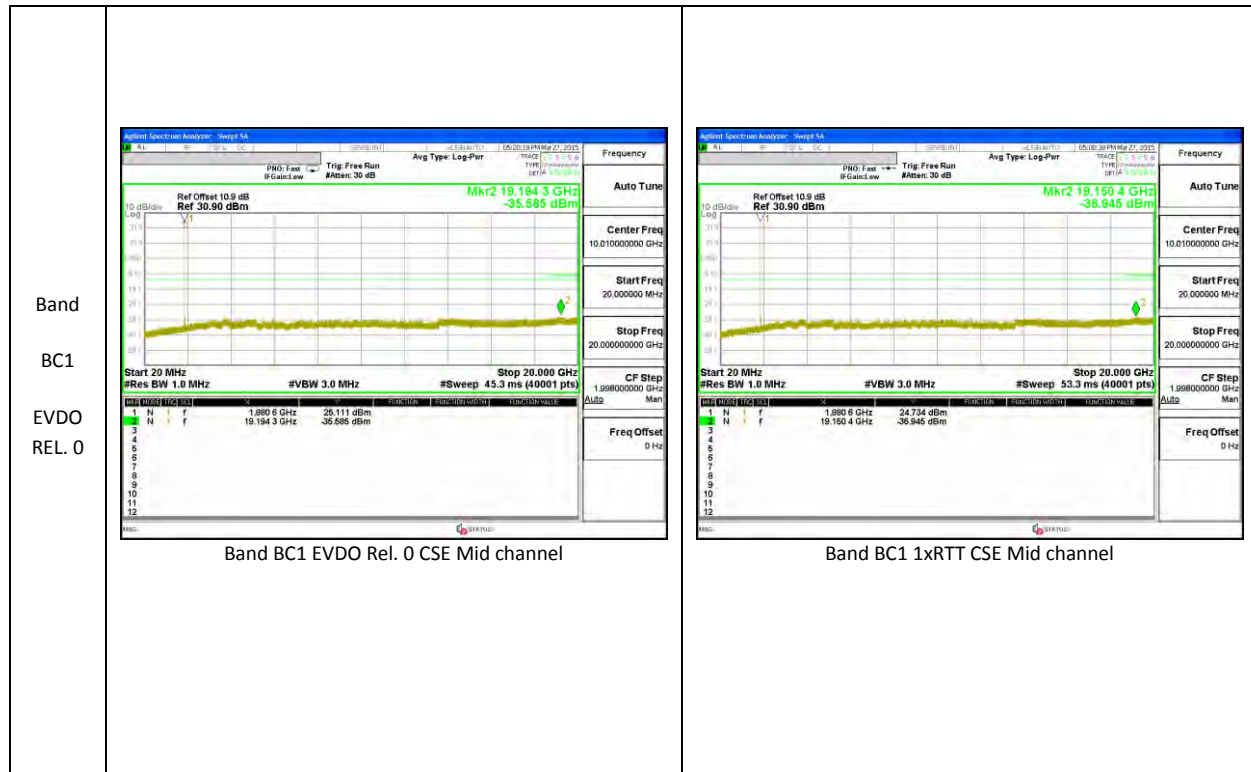
#### GSM

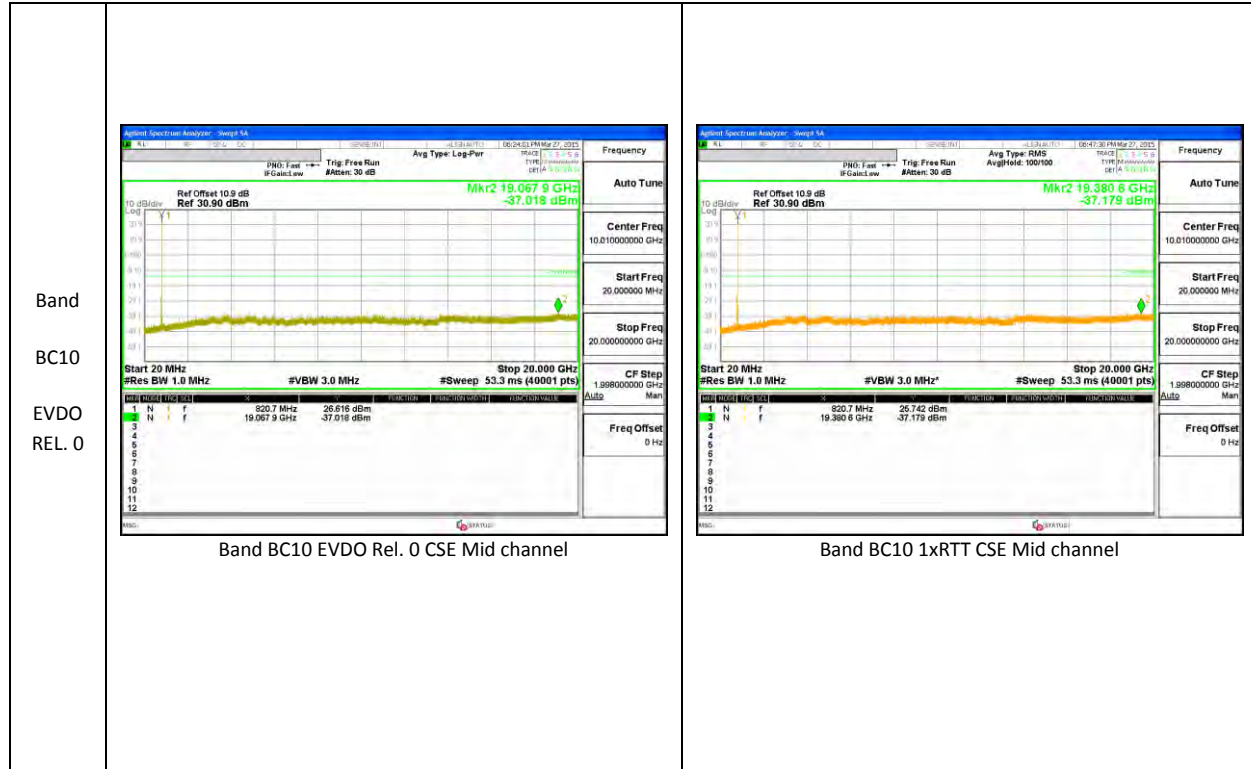


**WCDMA**

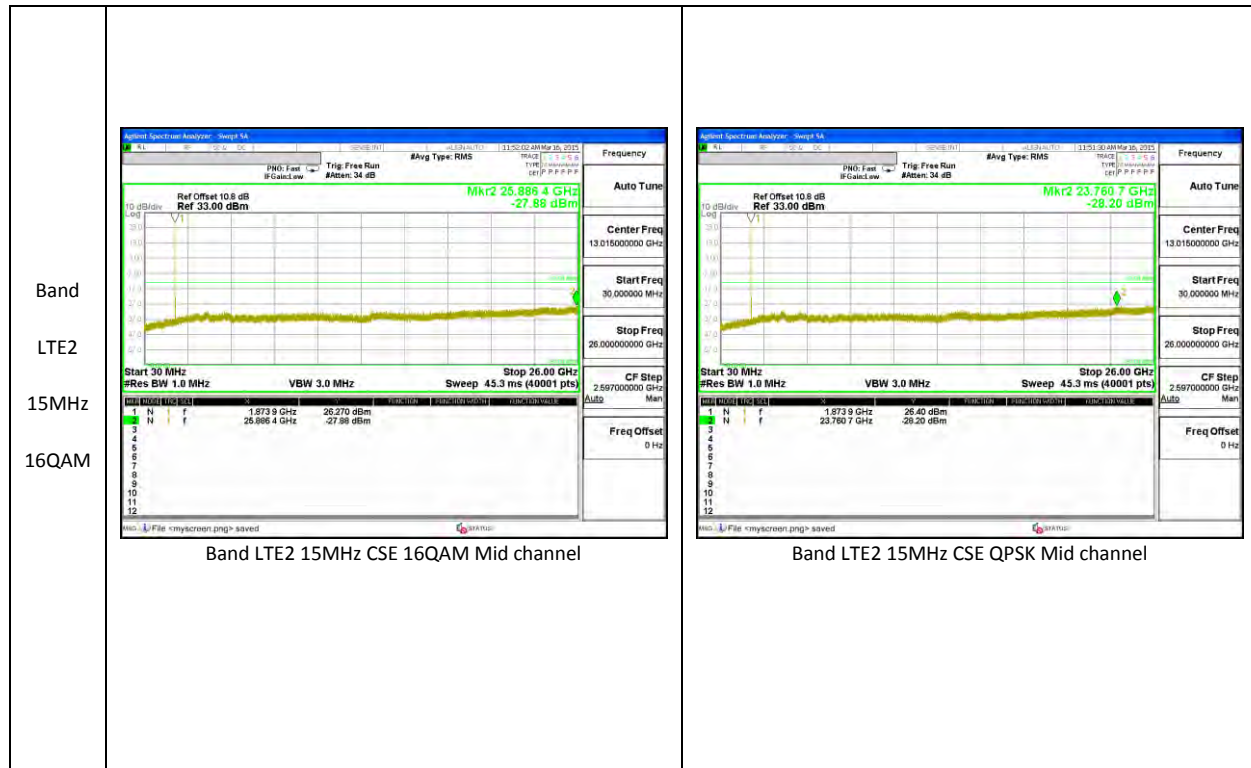


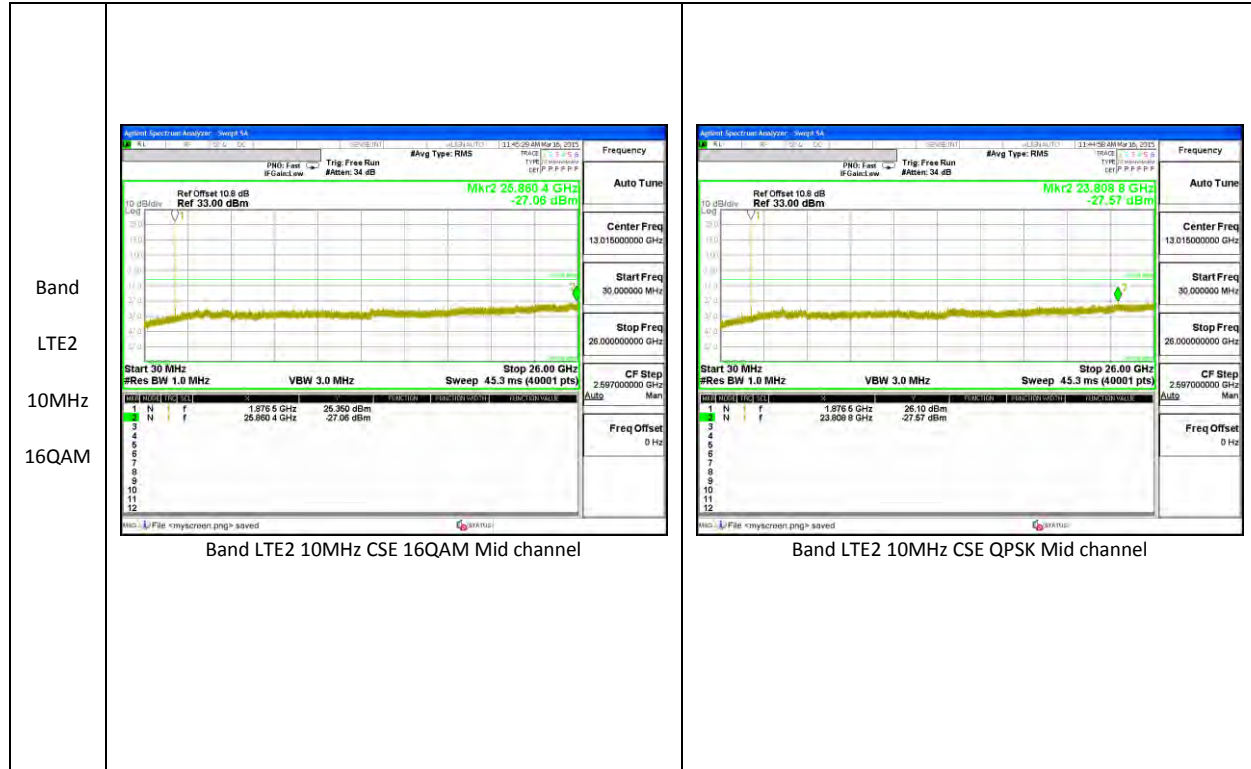
**CDMA**



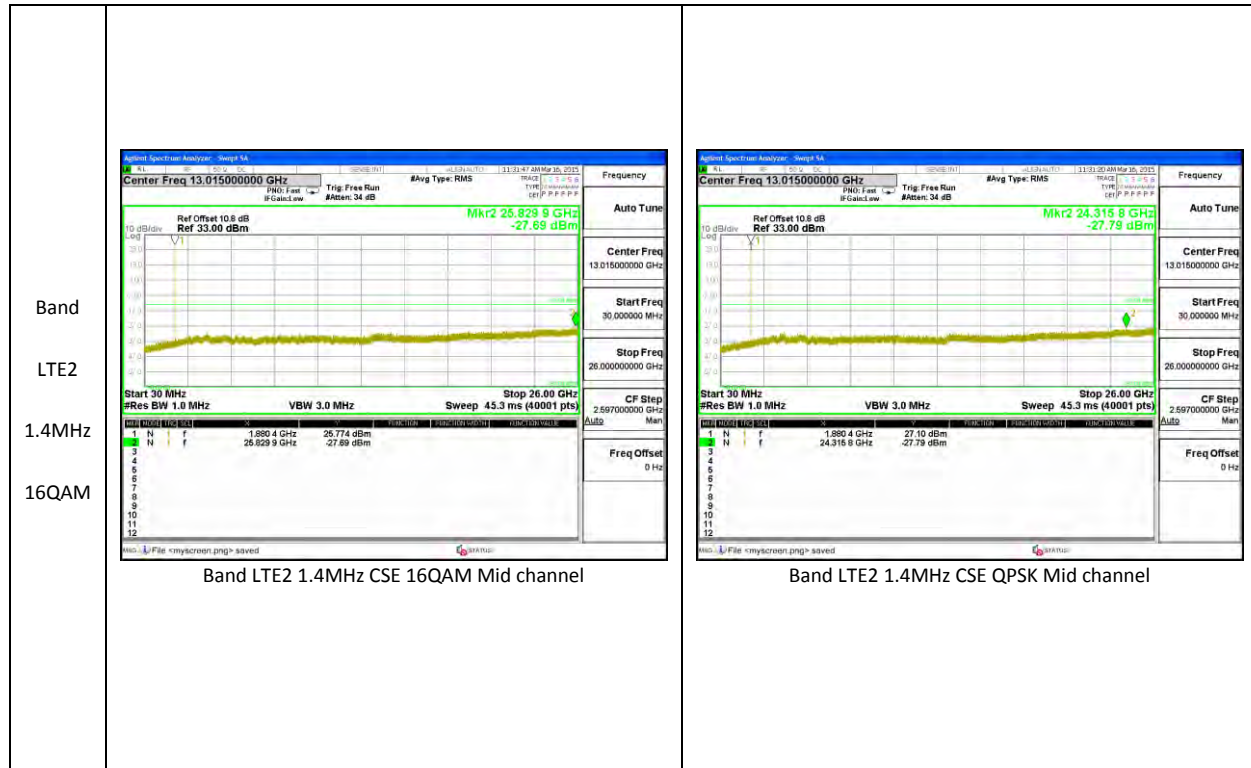
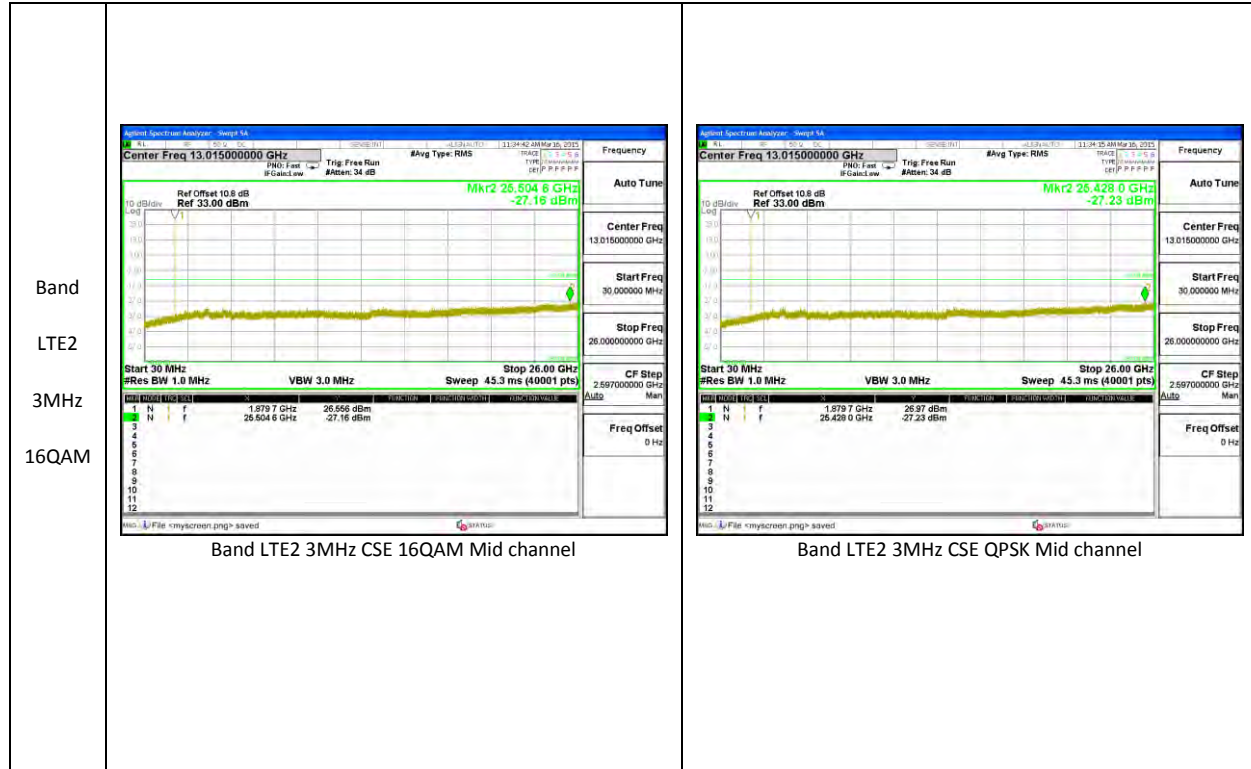


**LTE Band 2**

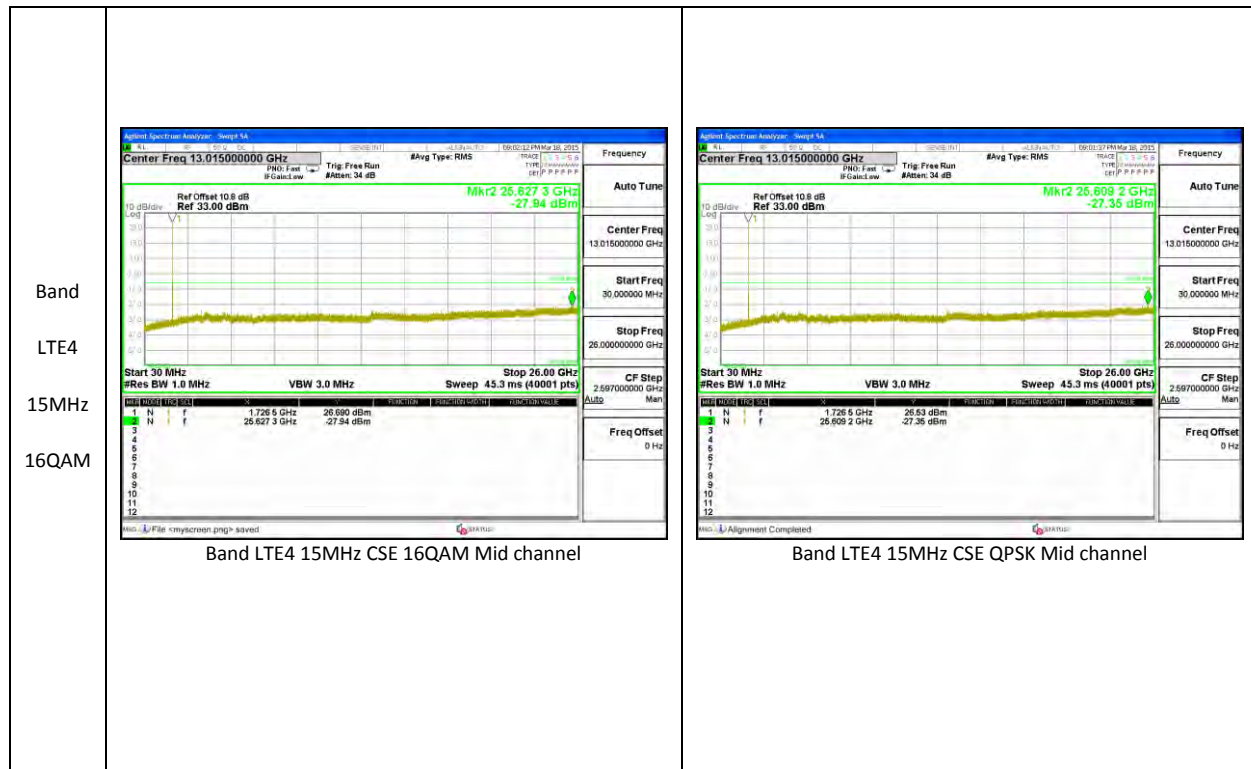
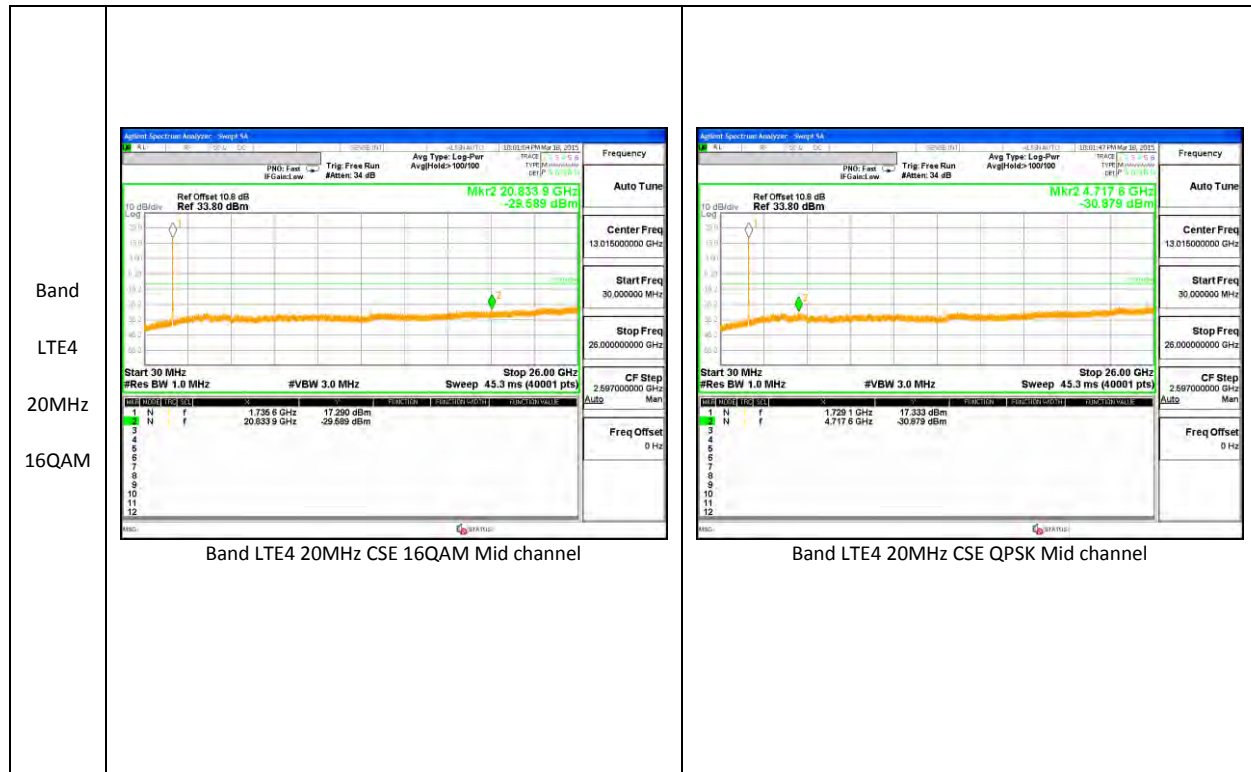


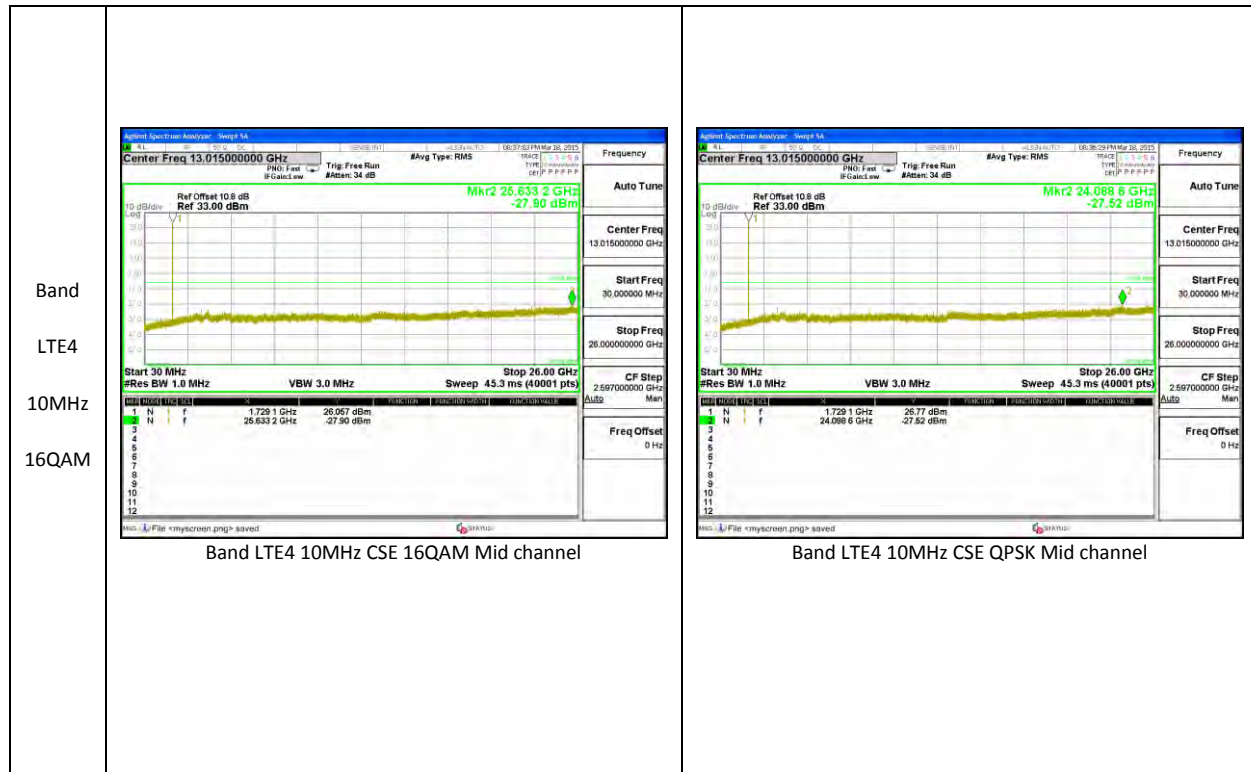


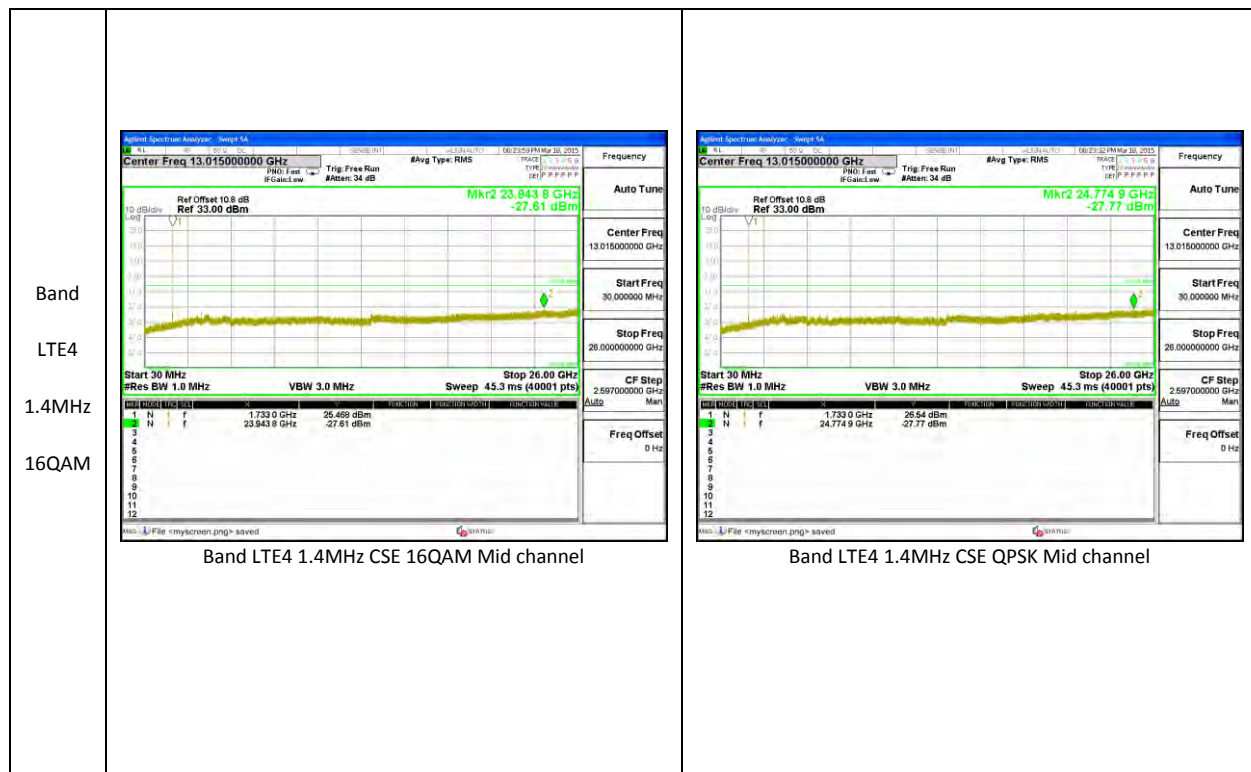
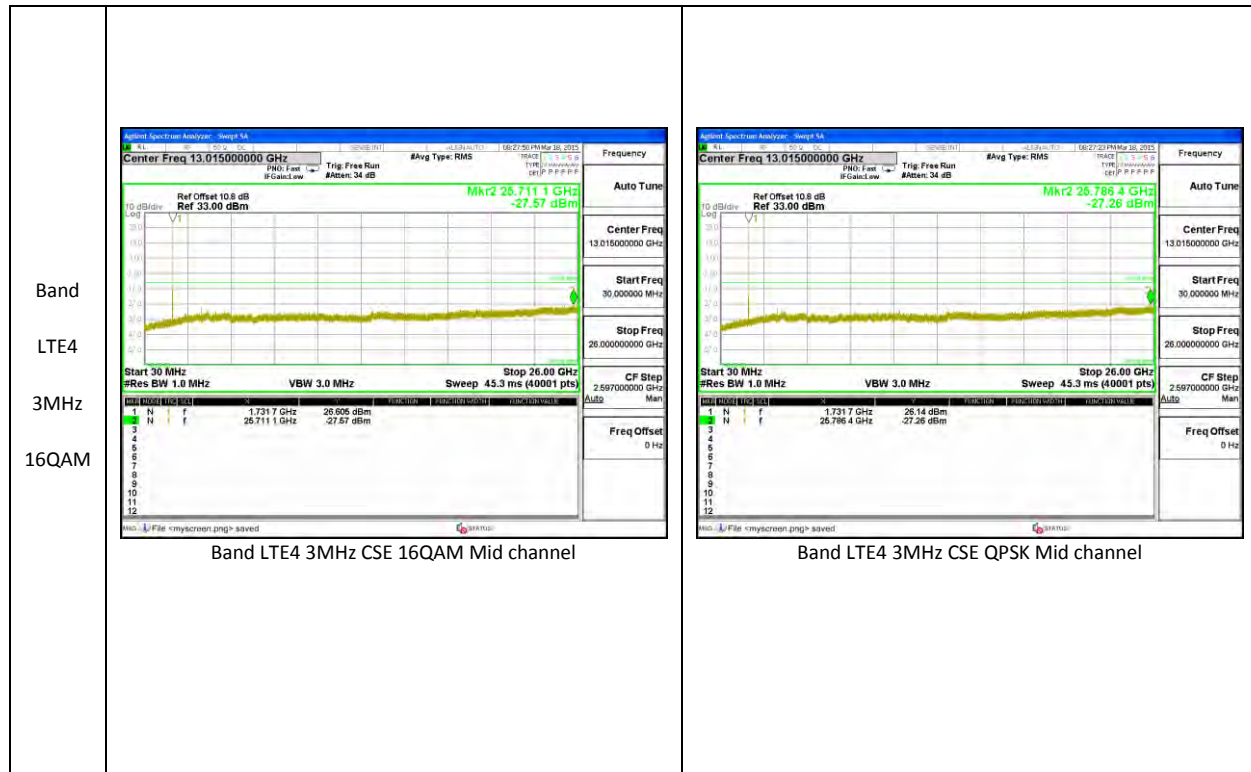




**LTE Band 4**







**LTE Band 5**

