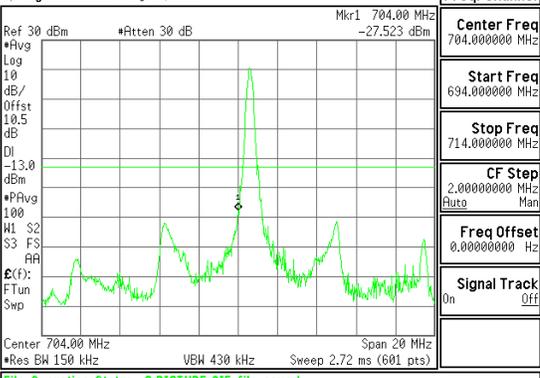
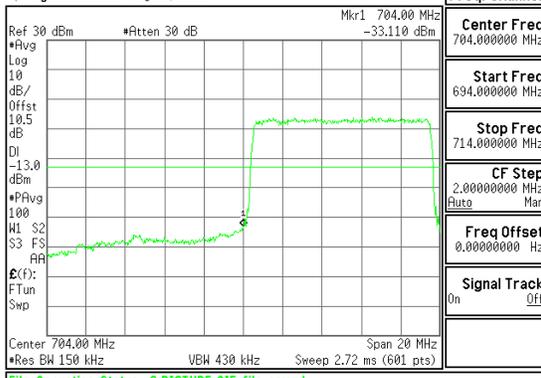
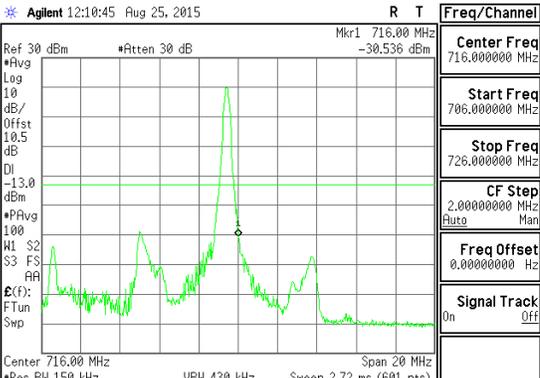
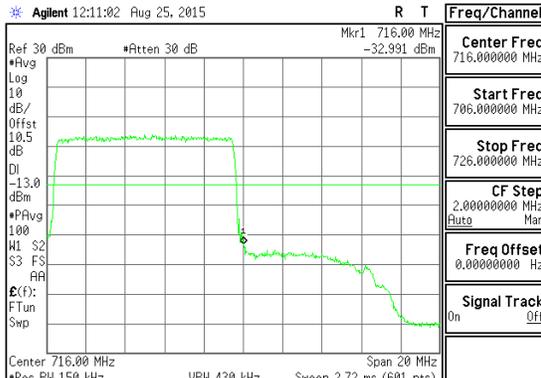
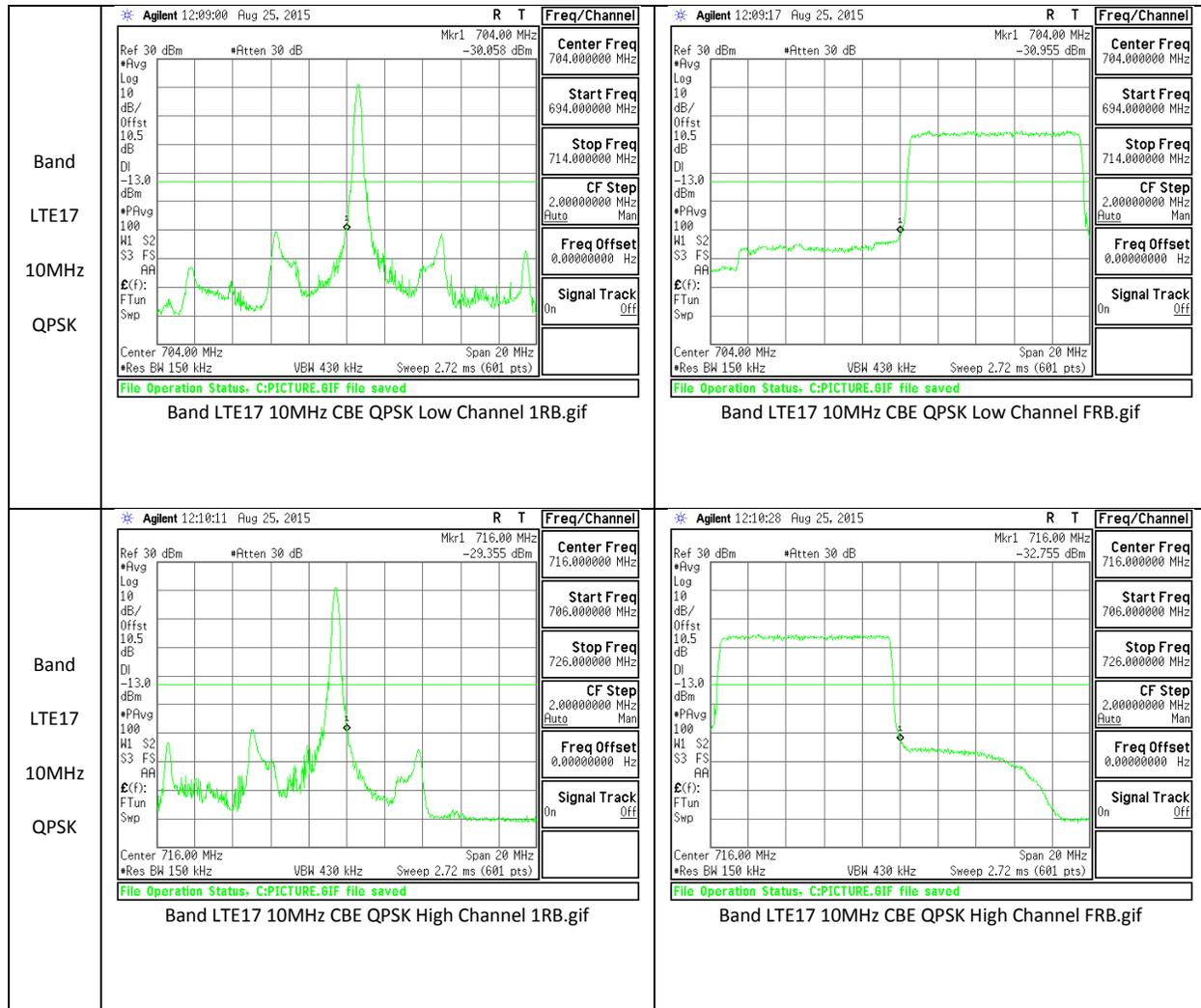
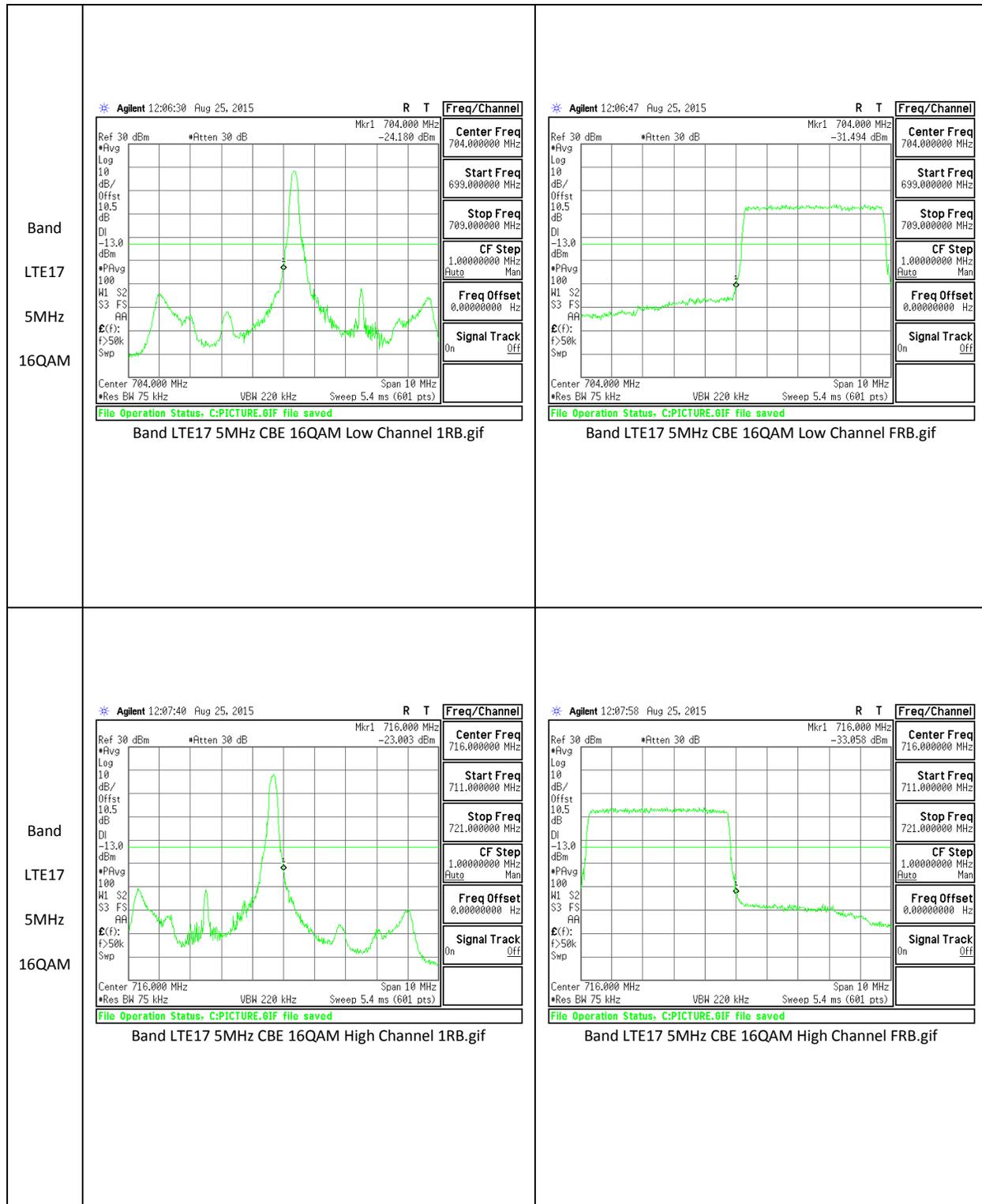
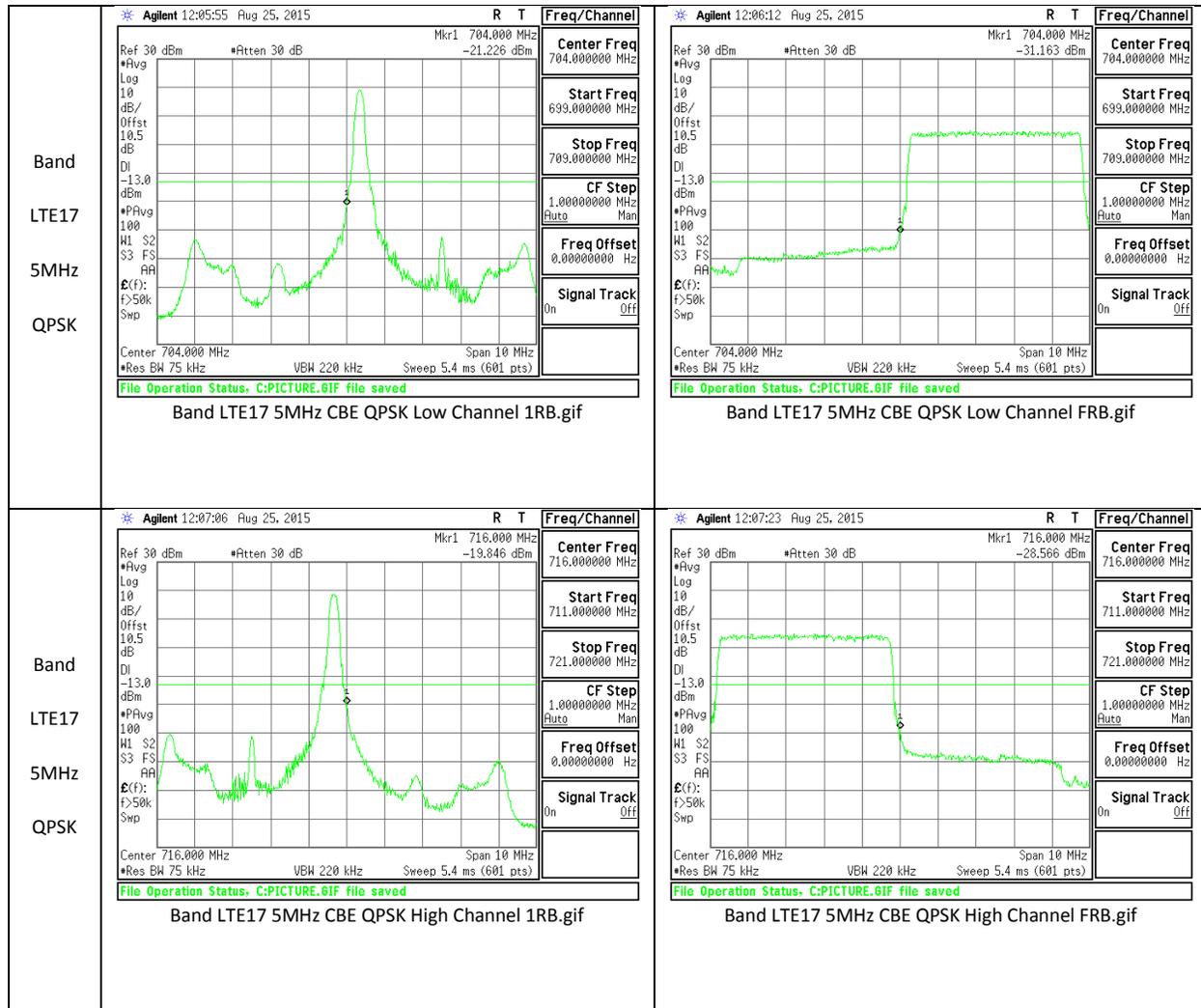


LTE Band 17

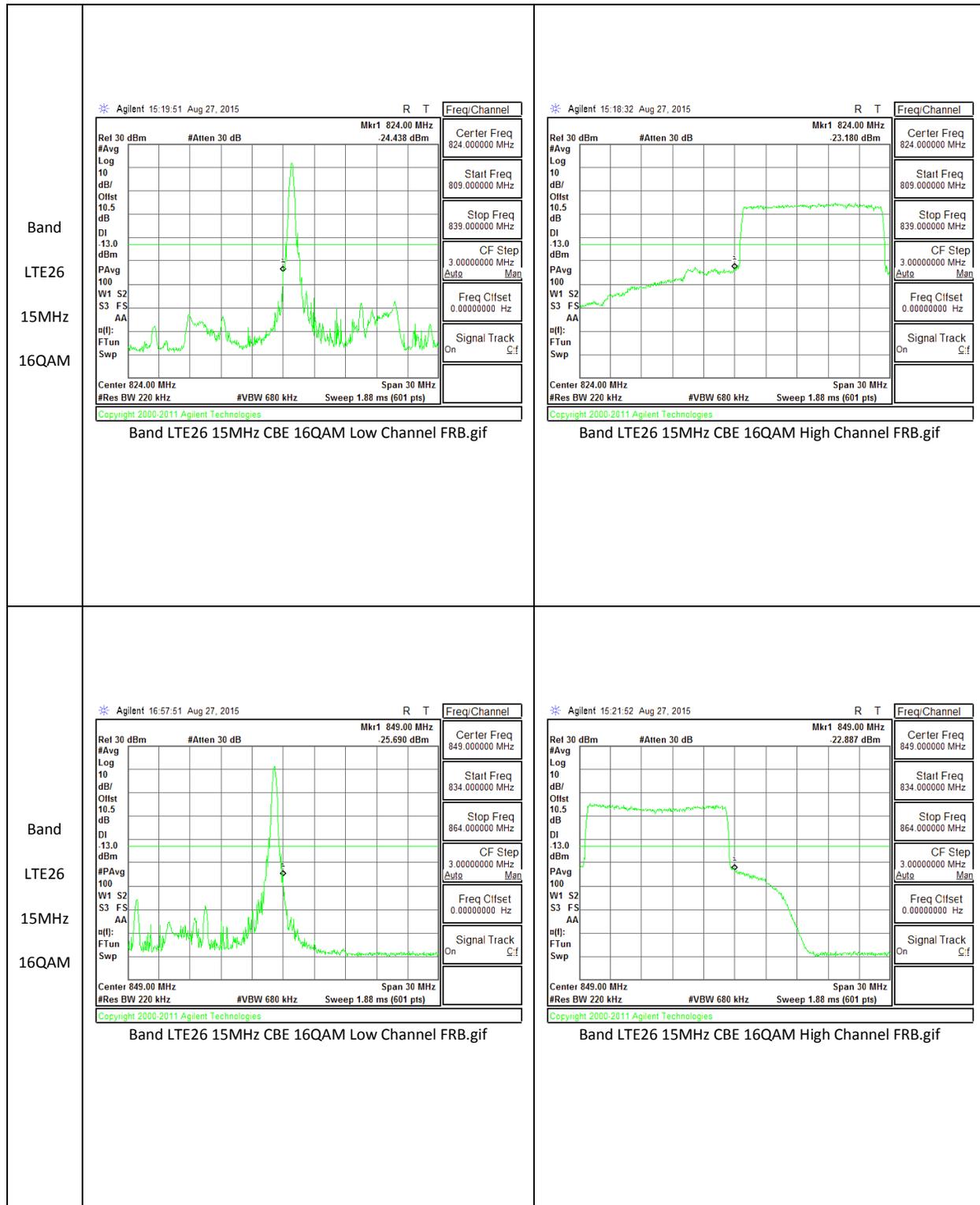
<p>Band LTE17 10MHz 16QAM</p>	 <p>Agilent 12:09:34 Aug 25, 2015 R T Freq/Channel</p> <p>Ref 30 dBm •Atten 30 dB Mkr1 704.00 MHz -27.523 dBm</p> <p>Center Freq 704.000000 MHz</p> <p>Start Freq 694.000000 MHz</p> <p>Stop Freq 714.000000 MHz</p> <p>CF Step 2.00000000 MHz Auto Man</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>Center 704.00 MHz Span 20 MHz Res BW 150 kHz VBW 430 kHz Sweep 2.72 ms (601 pts)</p> <p>File Operation Status, C:PICTURE.GIF file saved</p> <p>Band LTE17 10MHz CBE 16QAM Low Channel 1RB.gif</p>	 <p>Agilent 12:09:51 Aug 25, 2015 R T Freq/Channel</p> <p>Ref 30 dBm •Atten 30 dB Mkr1 704.00 MHz -33.110 dBm</p> <p>Center Freq 704.000000 MHz</p> <p>Start Freq 694.000000 MHz</p> <p>Stop Freq 714.000000 MHz</p> <p>CF Step 2.00000000 MHz Auto Man</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>Center 704.00 MHz Span 20 MHz Res BW 150 kHz VBW 430 kHz Sweep 2.72 ms (601 pts)</p> <p>File Operation Status, C:PICTURE.GIF file saved</p> <p>Band LTE17 10MHz CBE 16QAM Low Channel FRB.gif</p>
<p>Band LTE17 10MHz 16QAM</p>	 <p>Agilent 12:10:45 Aug 25, 2015 R T Freq/Channel</p> <p>Ref 30 dBm •Atten 30 dB Mkr1 716.00 MHz -30.536 dBm</p> <p>Center Freq 716.000000 MHz</p> <p>Start Freq 706.000000 MHz</p> <p>Stop Freq 726.000000 MHz</p> <p>CF Step 2.00000000 MHz Auto Man</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>Center 716.00 MHz Span 20 MHz Res BW 150 kHz VBW 430 kHz Sweep 2.72 ms (601 pts)</p> <p>File Operation Status, C:PICTURE.GIF file saved</p> <p>Band LTE17 10MHz CBE 16QAM High Channel 1RB.gif</p>	 <p>Agilent 12:11:02 Aug 25, 2015 R T Freq/Channel</p> <p>Ref 30 dBm •Atten 30 dB Mkr1 716.00 MHz -32.991 dBm</p> <p>Center Freq 716.000000 MHz</p> <p>Start Freq 706.000000 MHz</p> <p>Stop Freq 726.000000 MHz</p> <p>CF Step 2.00000000 MHz Auto Man</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>Center 716.00 MHz Span 20 MHz Res BW 150 kHz VBW 430 kHz Sweep 2.72 ms (601 pts)</p> <p>File Operation Status, C:PICTURE.GIF file saved</p> <p>Band LTE17 10MHz CBE 16QAM High Channel FRB.gif</p>

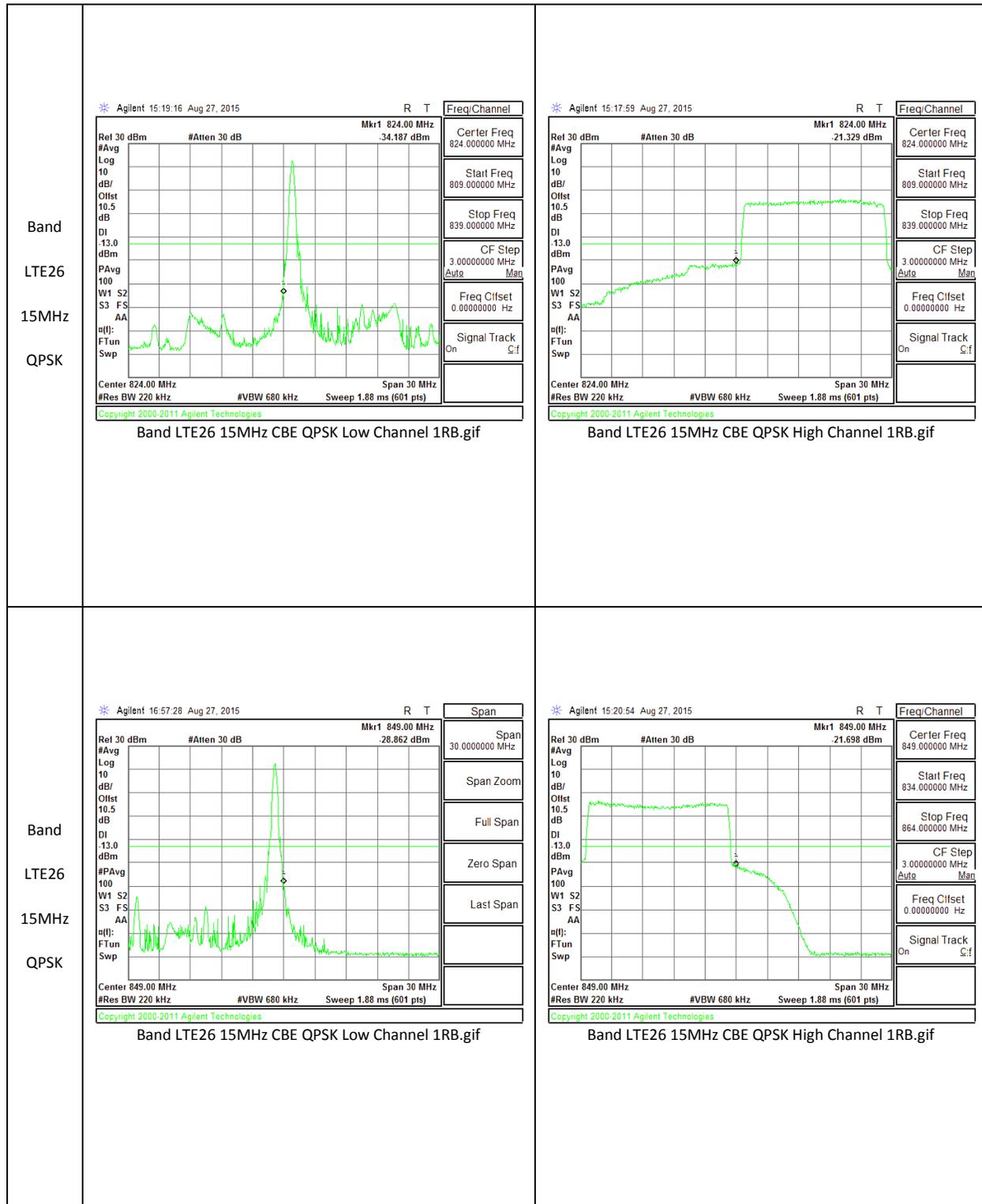


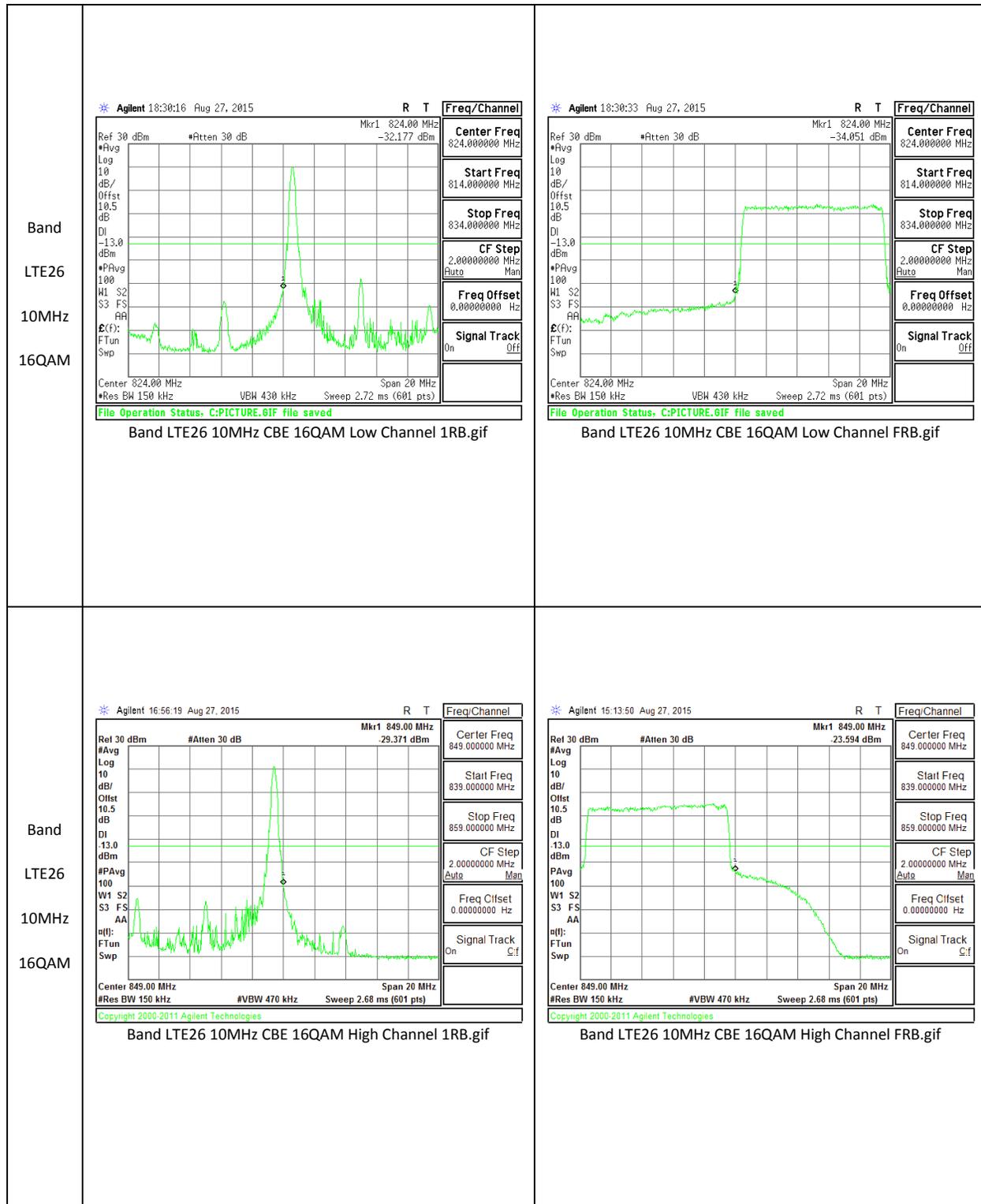


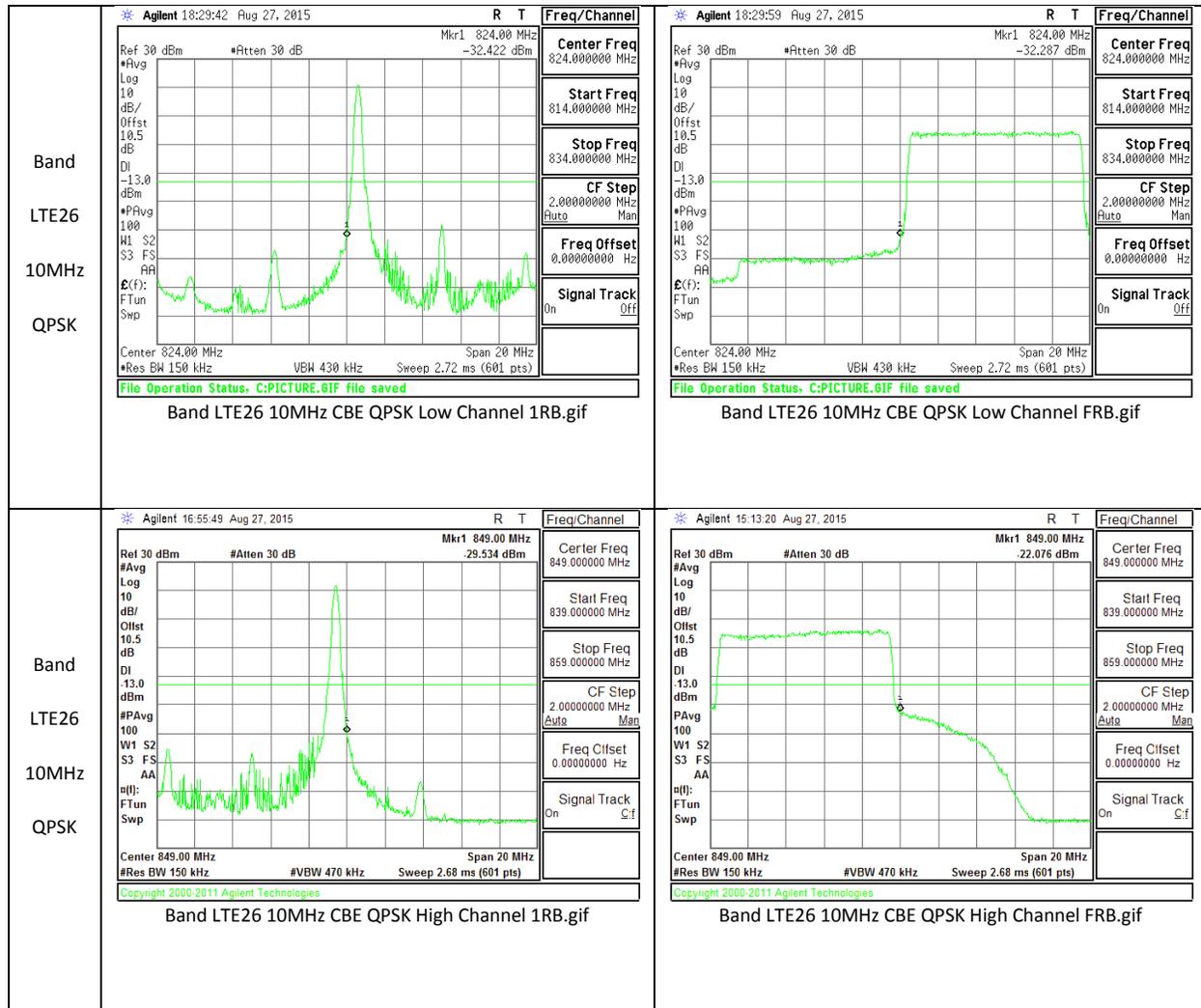


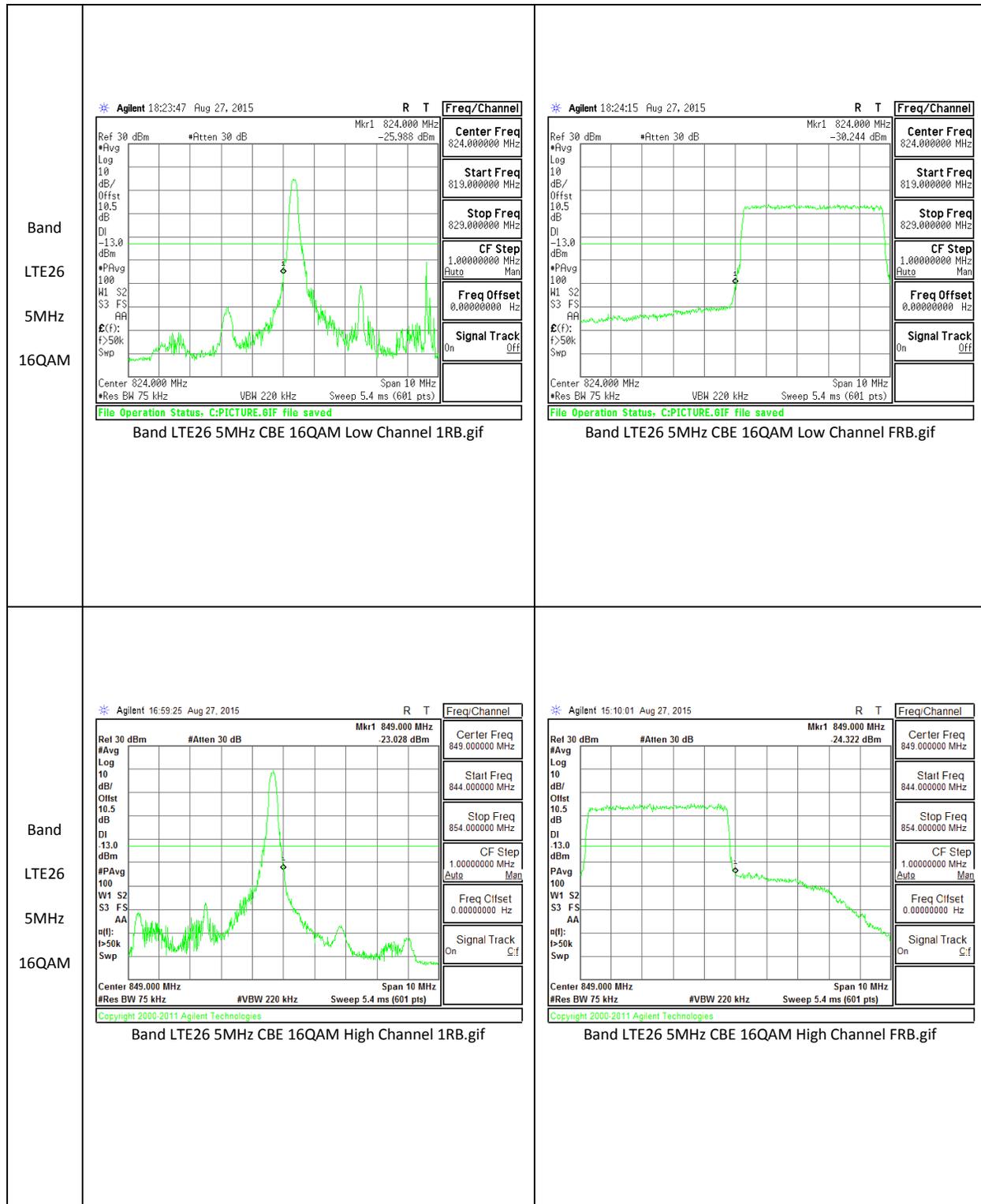
LTE Band 26

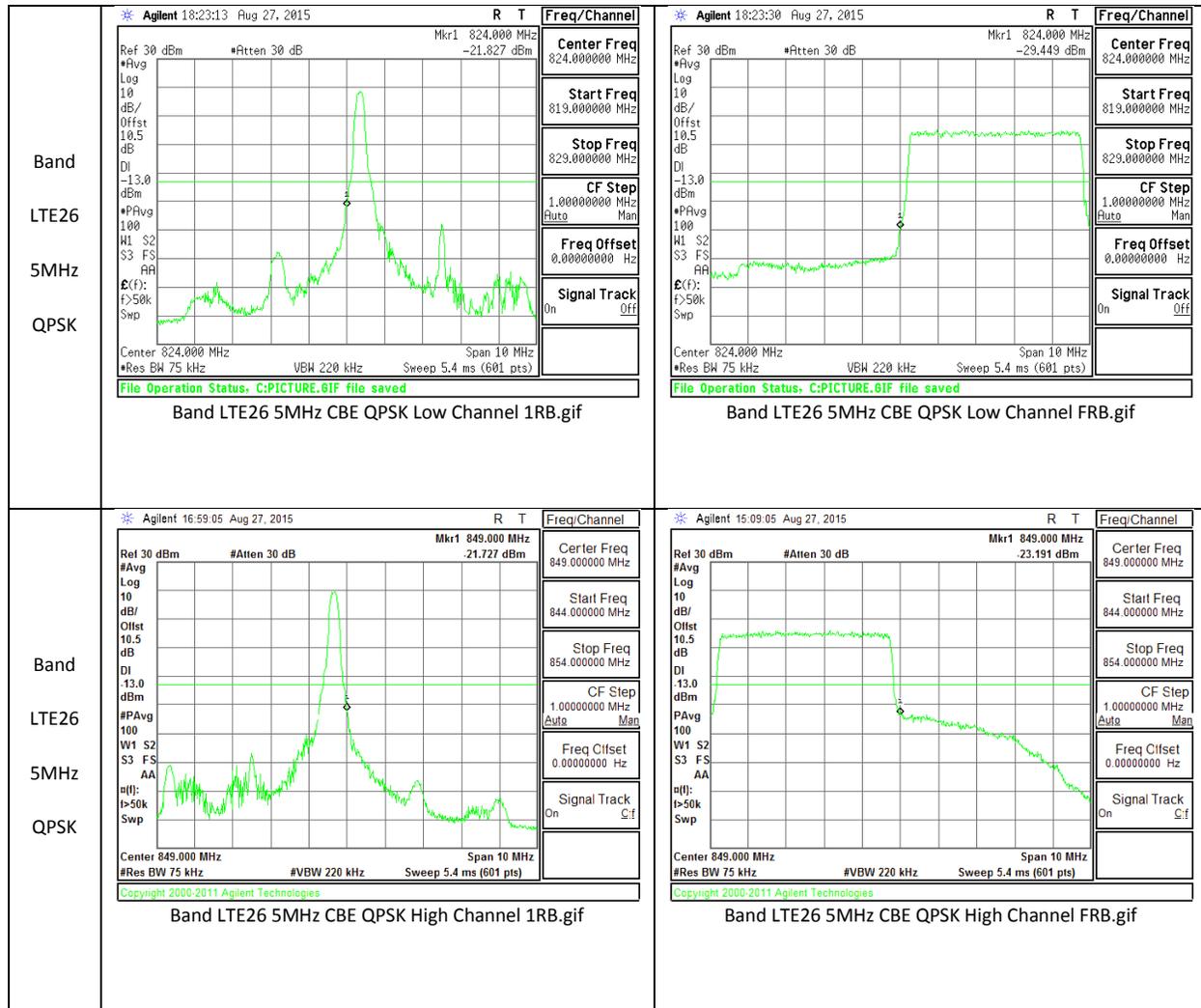


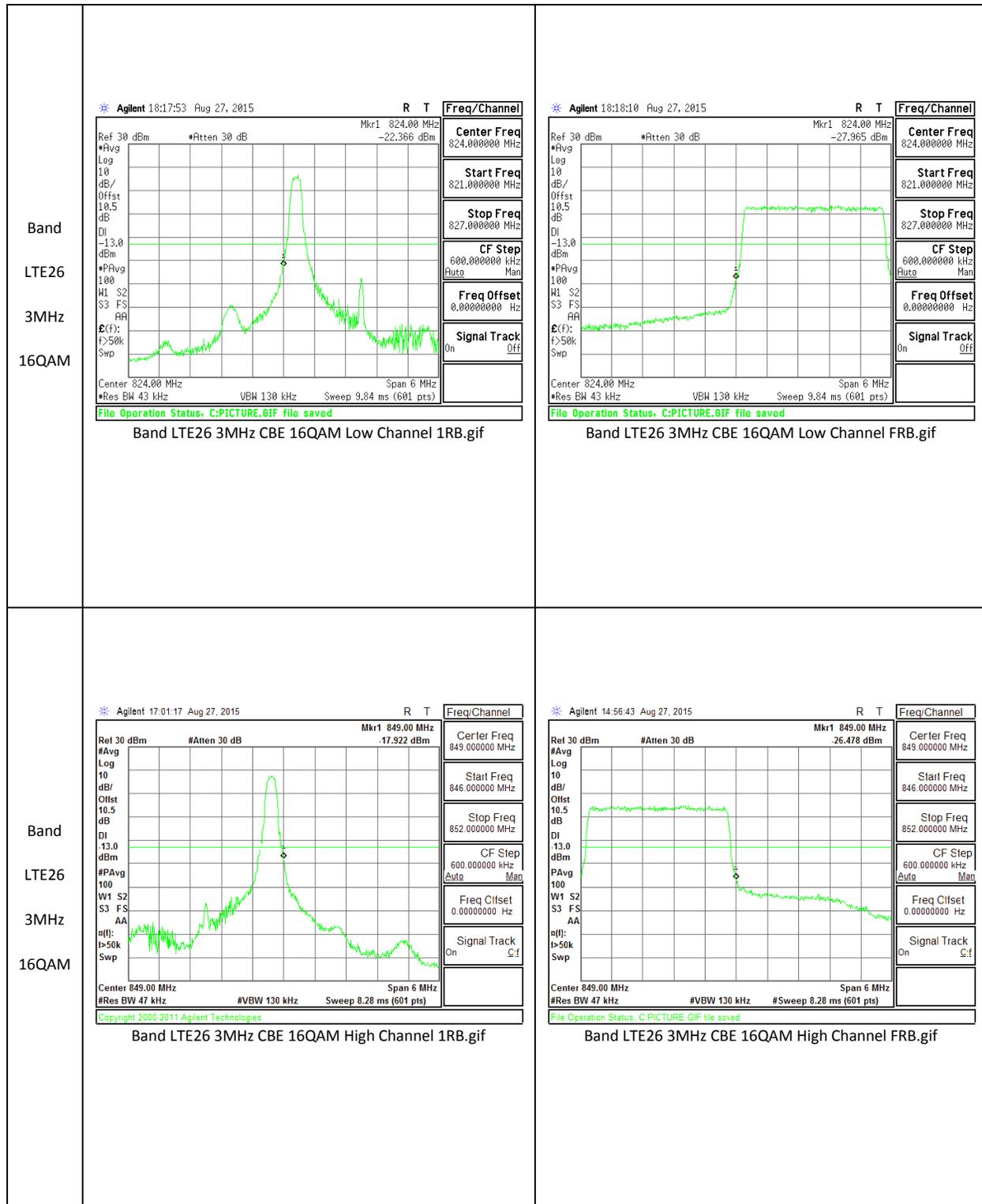


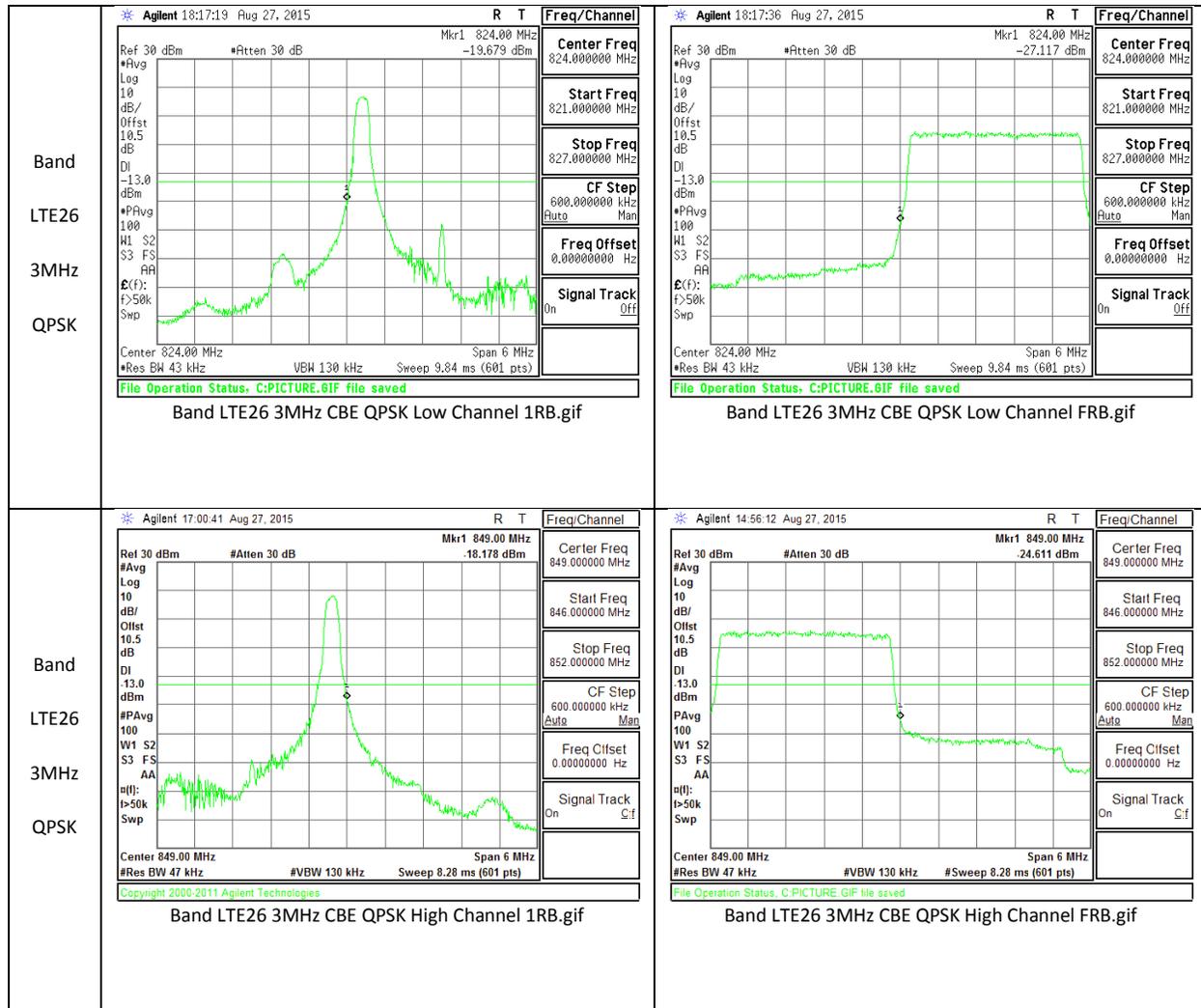


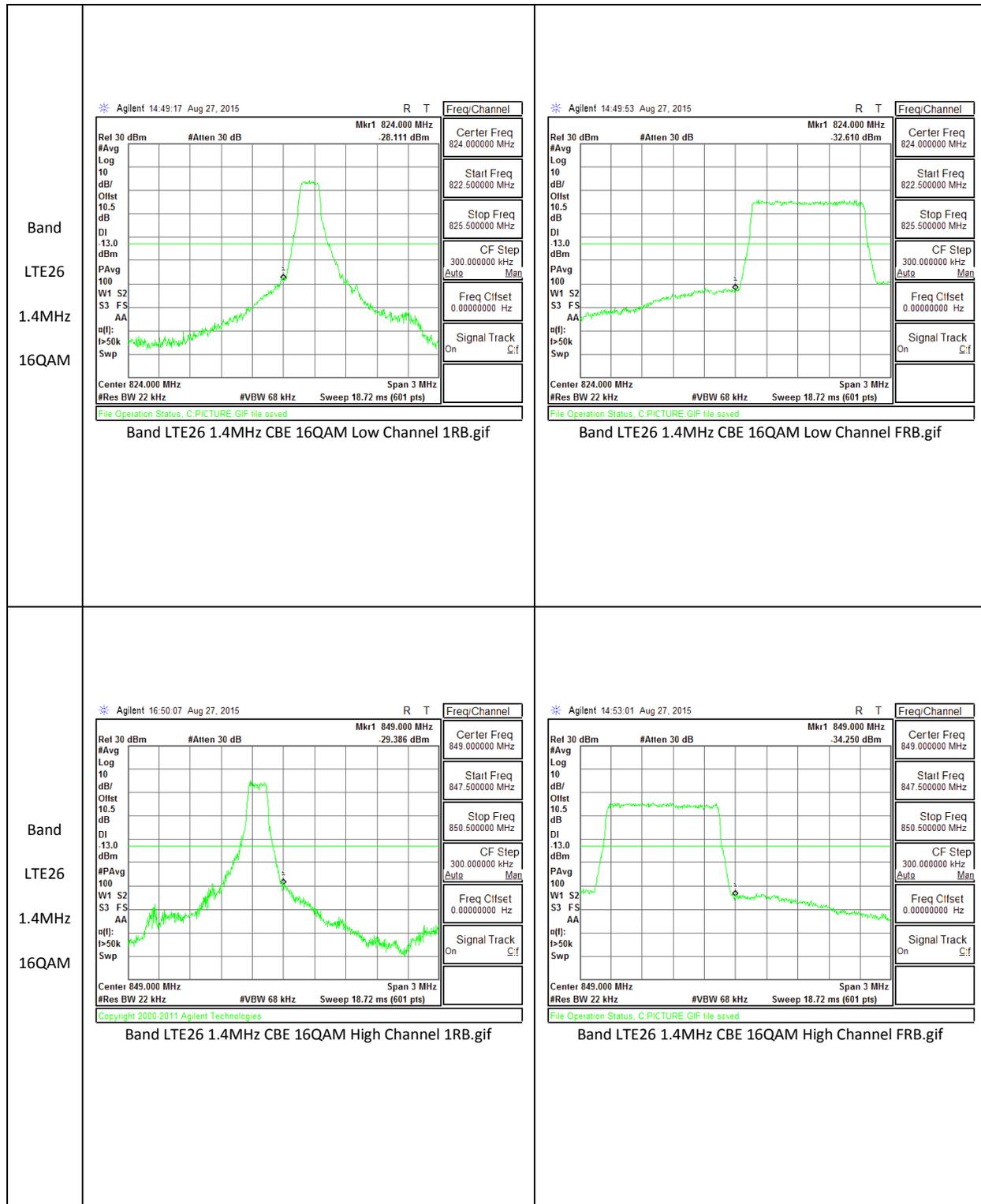


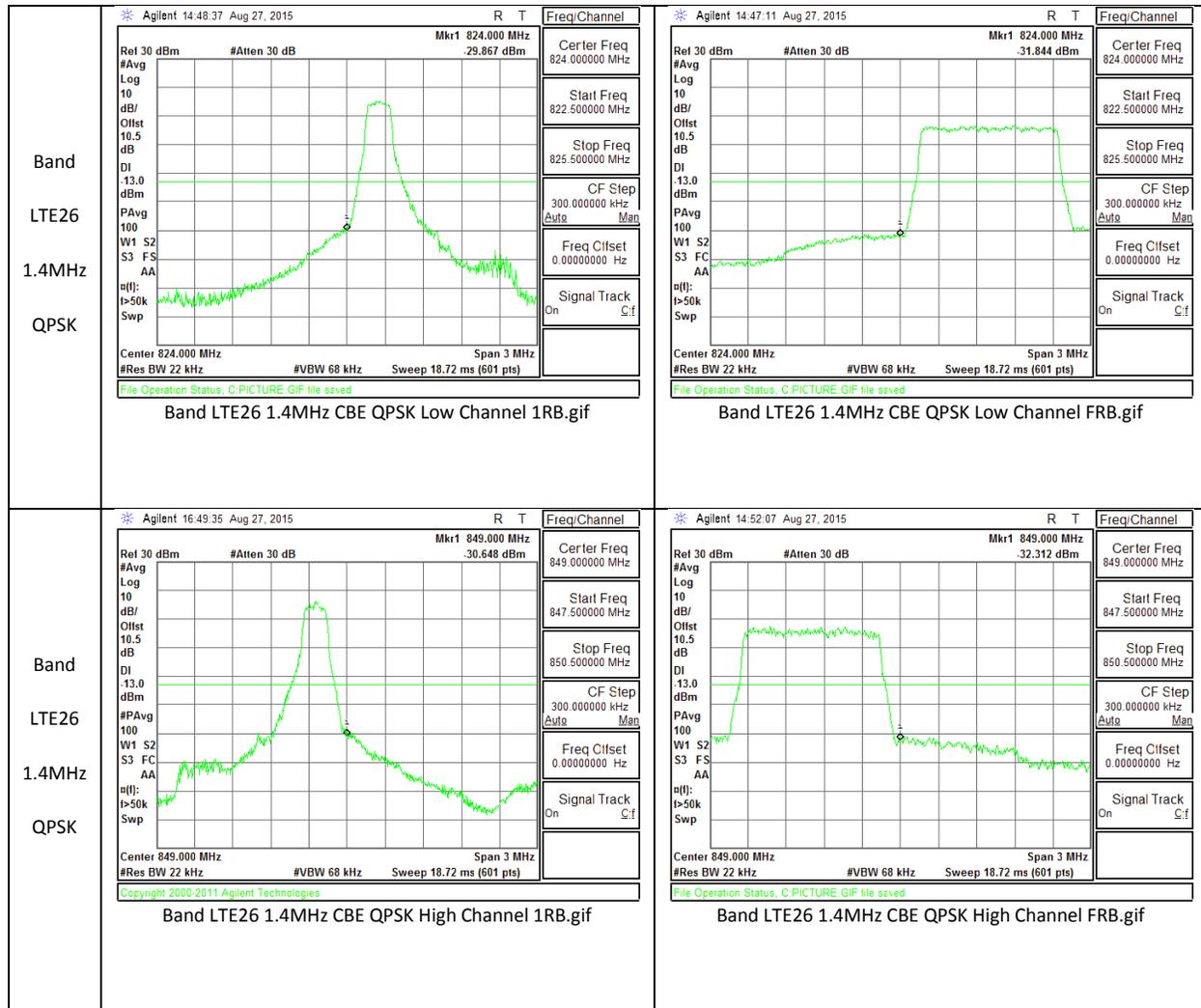




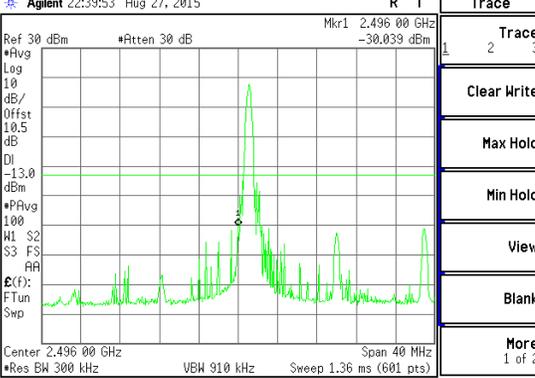
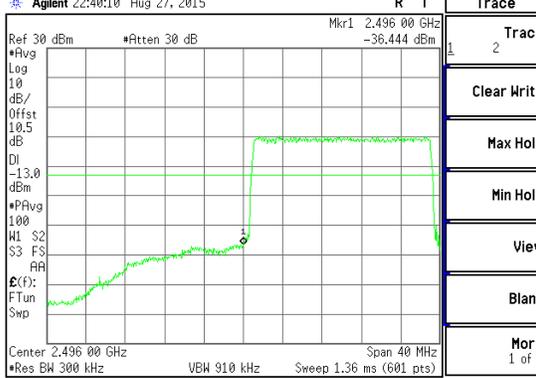
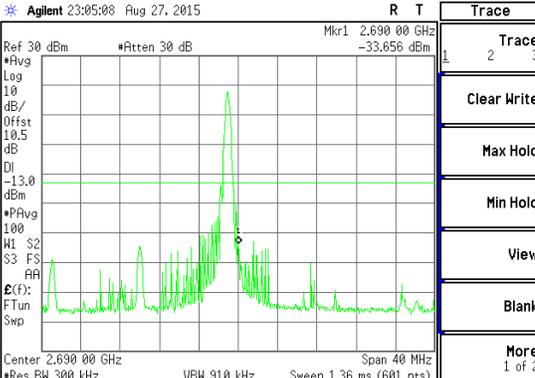
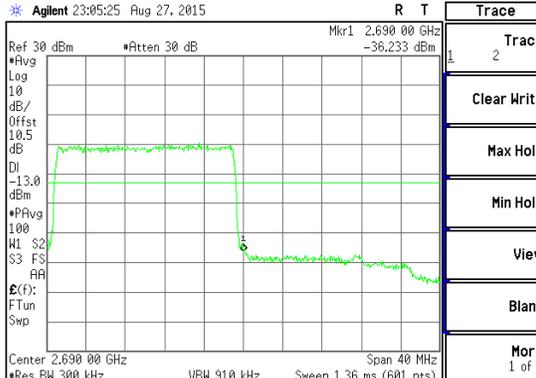


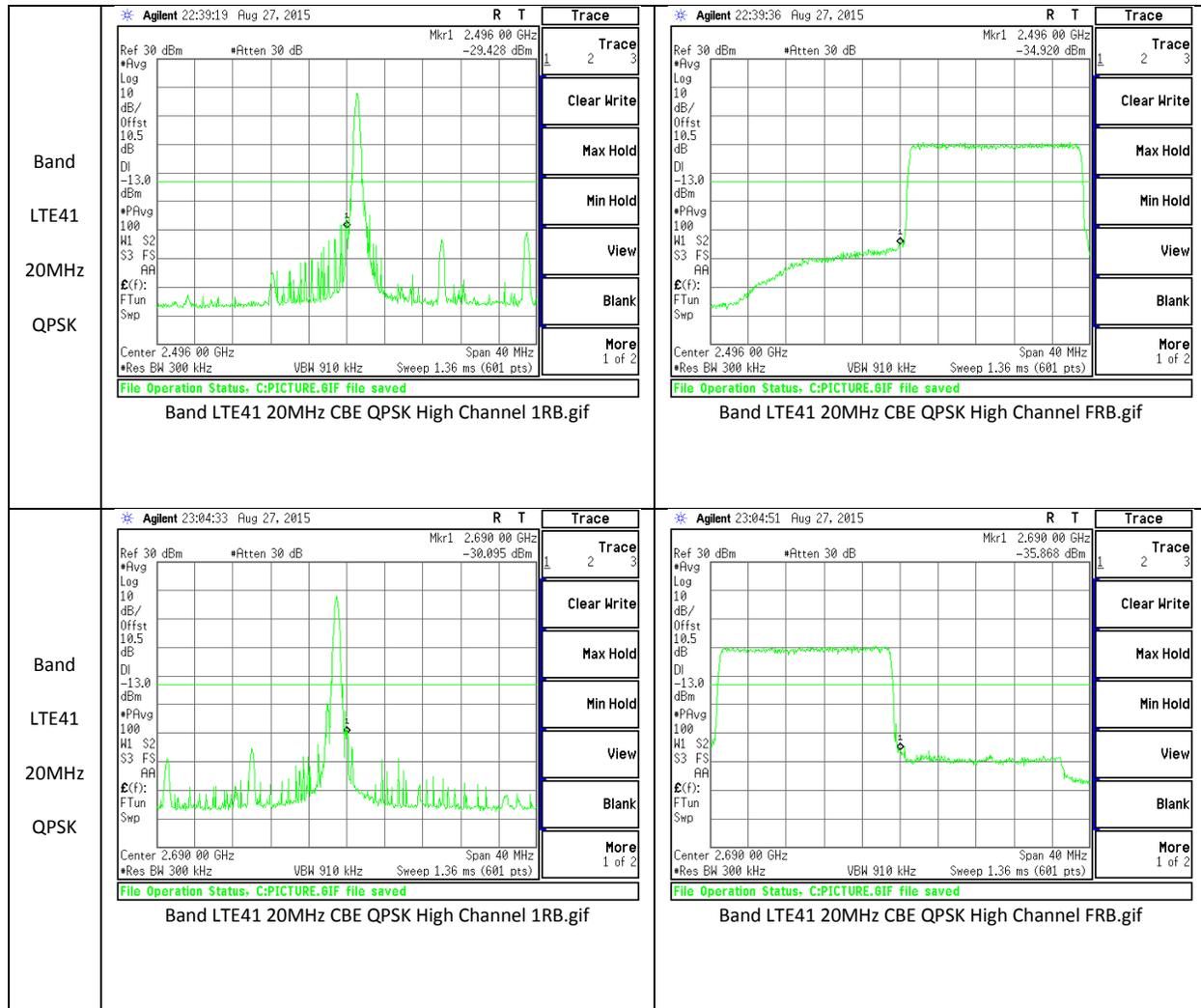




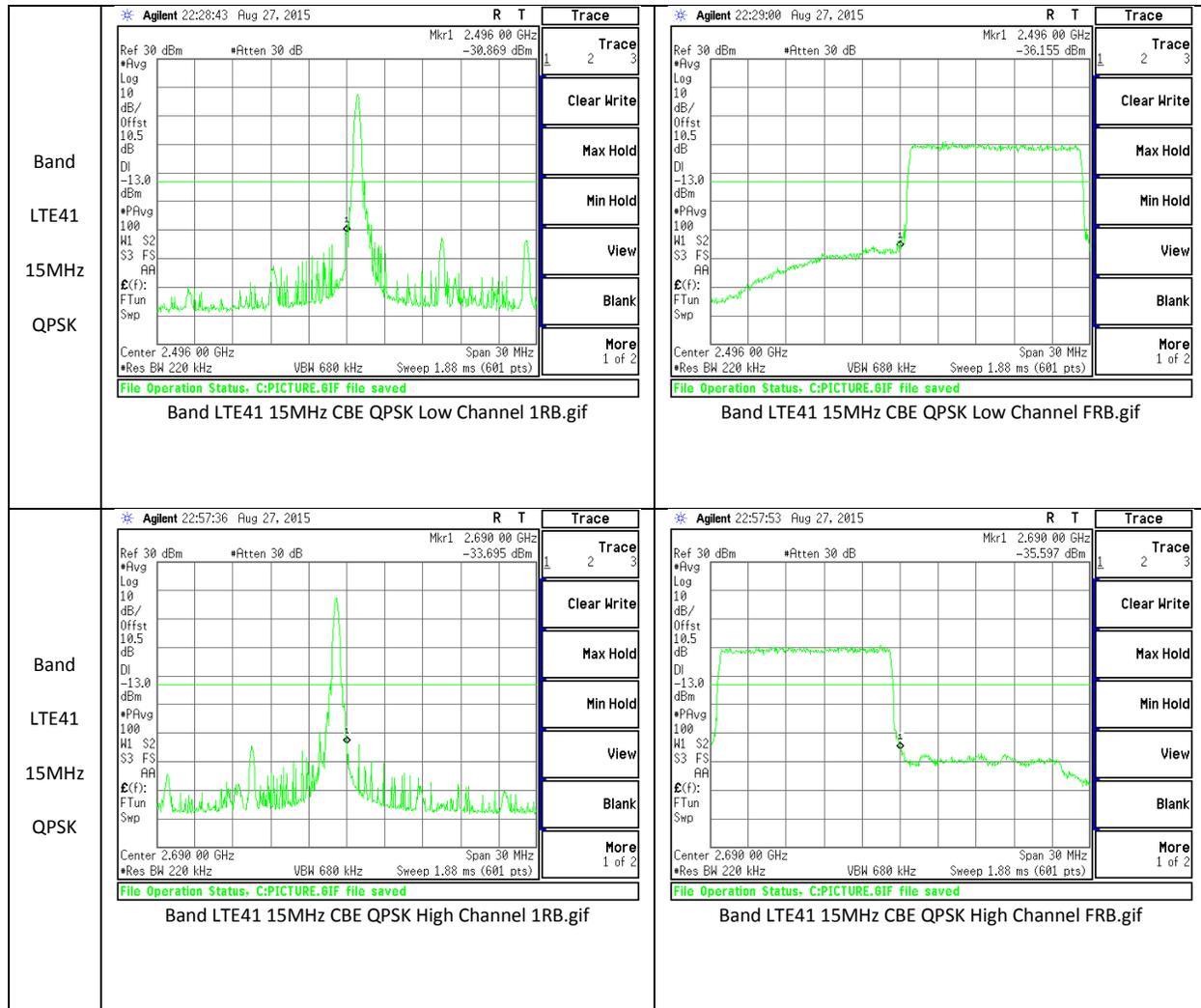


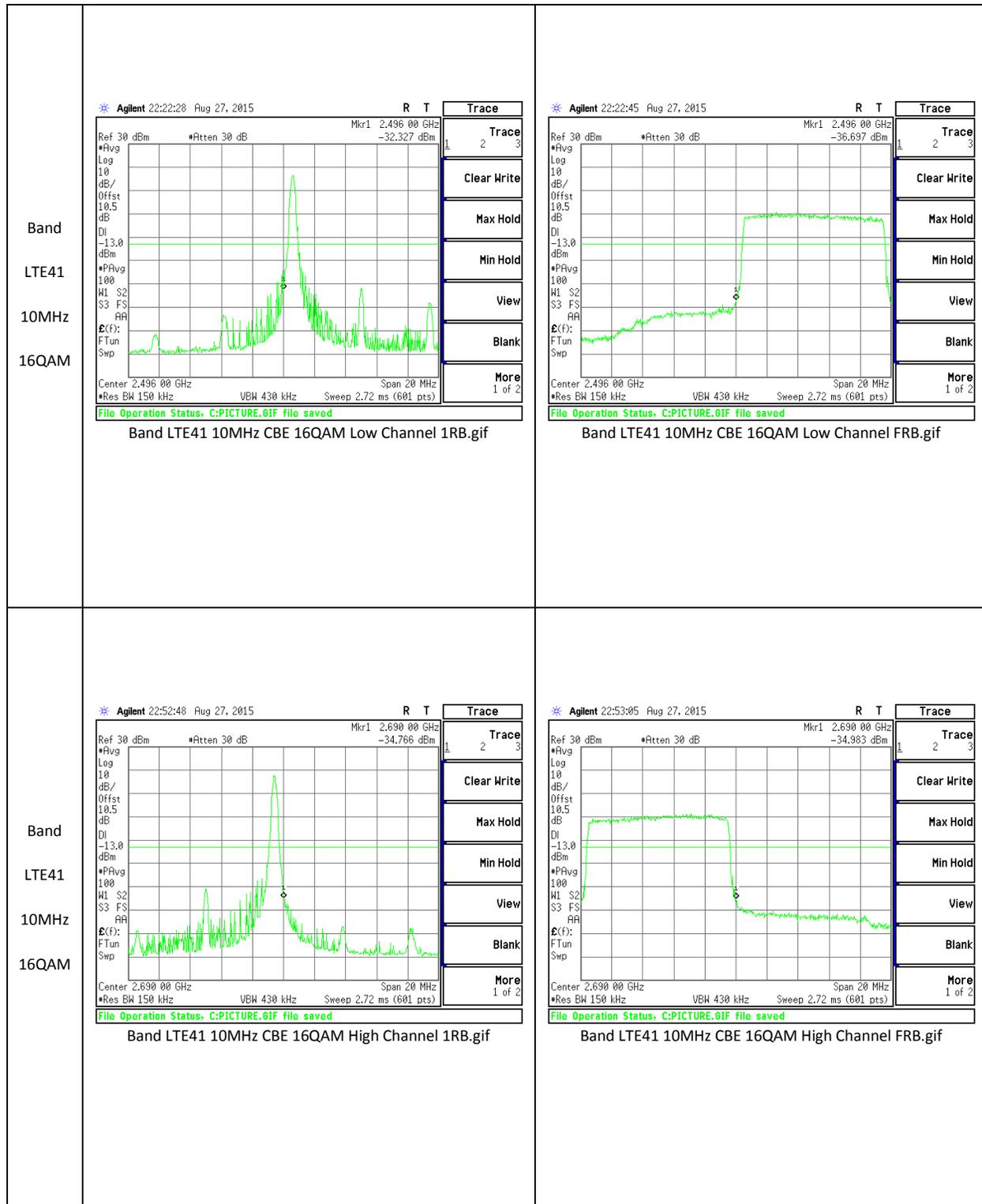
LTE Band 41

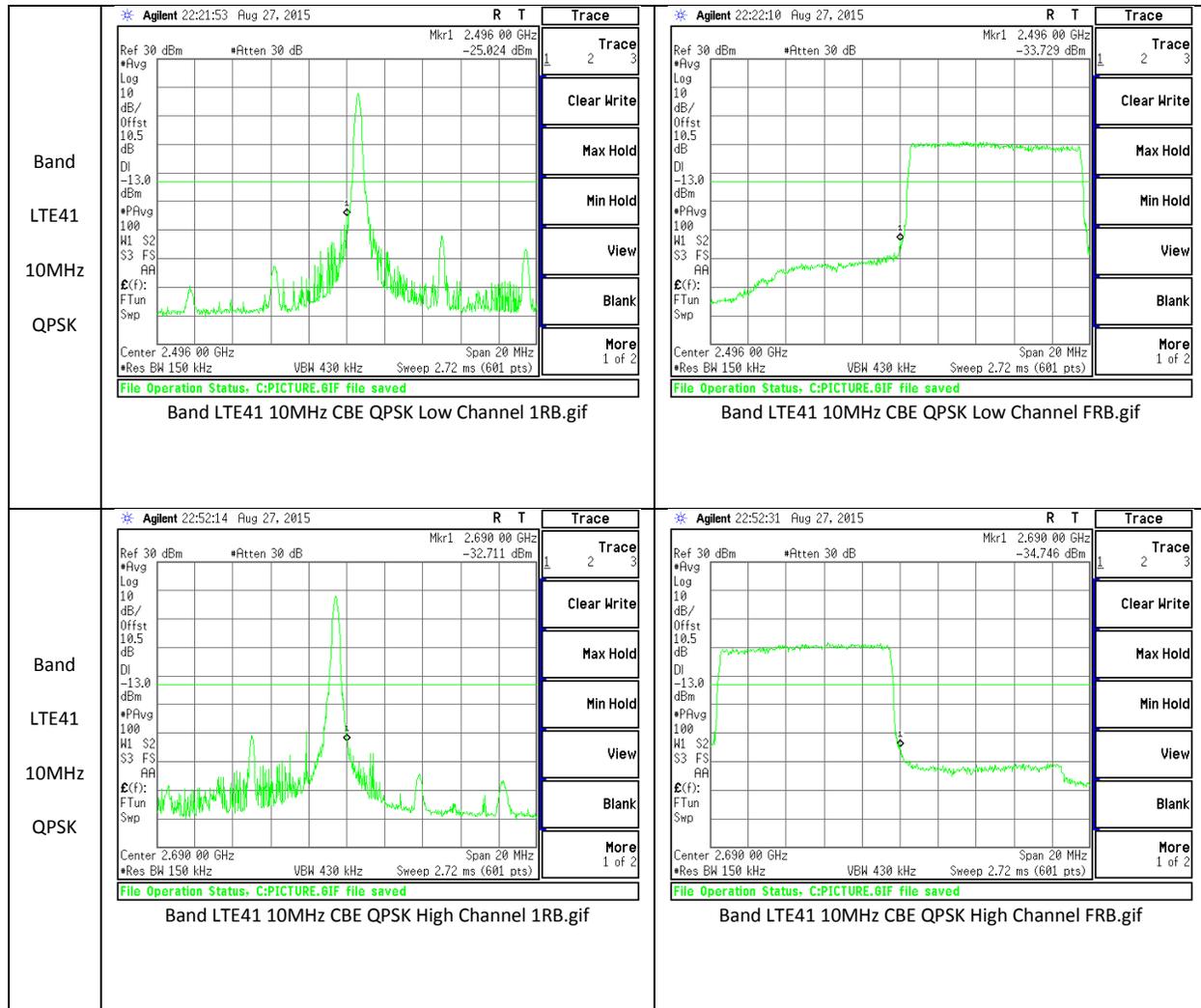
<p>Band LTE41 20MHz 16QAM</p>	<p>Agilent 22:39:53 Aug 27, 2015</p>  <p>Center: 2.496 00 GHz Span: 40 MHz Res BW: 300 kHz VBW: 910 kHz Sweep: 1.36 ms (601 pts)</p> <p>File Operation Status, C:PICTURE.GIF file saved</p> <p>Band LTE41 20MHz CBE 16QAM Low Channel 1RB.gif</p>	<p>Agilent 22:40:10 Aug 27, 2015</p>  <p>Center: 2.496 00 GHz Span: 40 MHz Res BW: 300 kHz VBW: 910 kHz Sweep: 1.36 ms (601 pts)</p> <p>File Operation Status, C:PICTURE.GIF file saved</p> <p>Band LTE41 20MHz CBE 16QAM Low Channel FRB.gif</p>
<p>Band LTE41 20MHz 16QAM</p>	<p>Agilent 23:05:08 Aug 27, 2015</p>  <p>Center: 2.690 00 GHz Span: 40 MHz Res BW: 300 kHz VBW: 910 kHz Sweep: 1.36 ms (601 pts)</p> <p>File Operation Status, C:PICTURE.GIF file saved</p> <p>Band LTE41 20MHz CBE 16QAM Low Channel 1RB.gif</p>	<p>Agilent 23:05:25 Aug 27, 2015</p>  <p>Center: 2.690 00 GHz Span: 40 MHz Res BW: 300 kHz VBW: 910 kHz Sweep: 1.36 ms (601 pts)</p> <p>File Operation Status, C:PICTURE.GIF file saved</p> <p>Band LTE41 20MHz CBE 16QAM Low Channel FRB.gif</p>



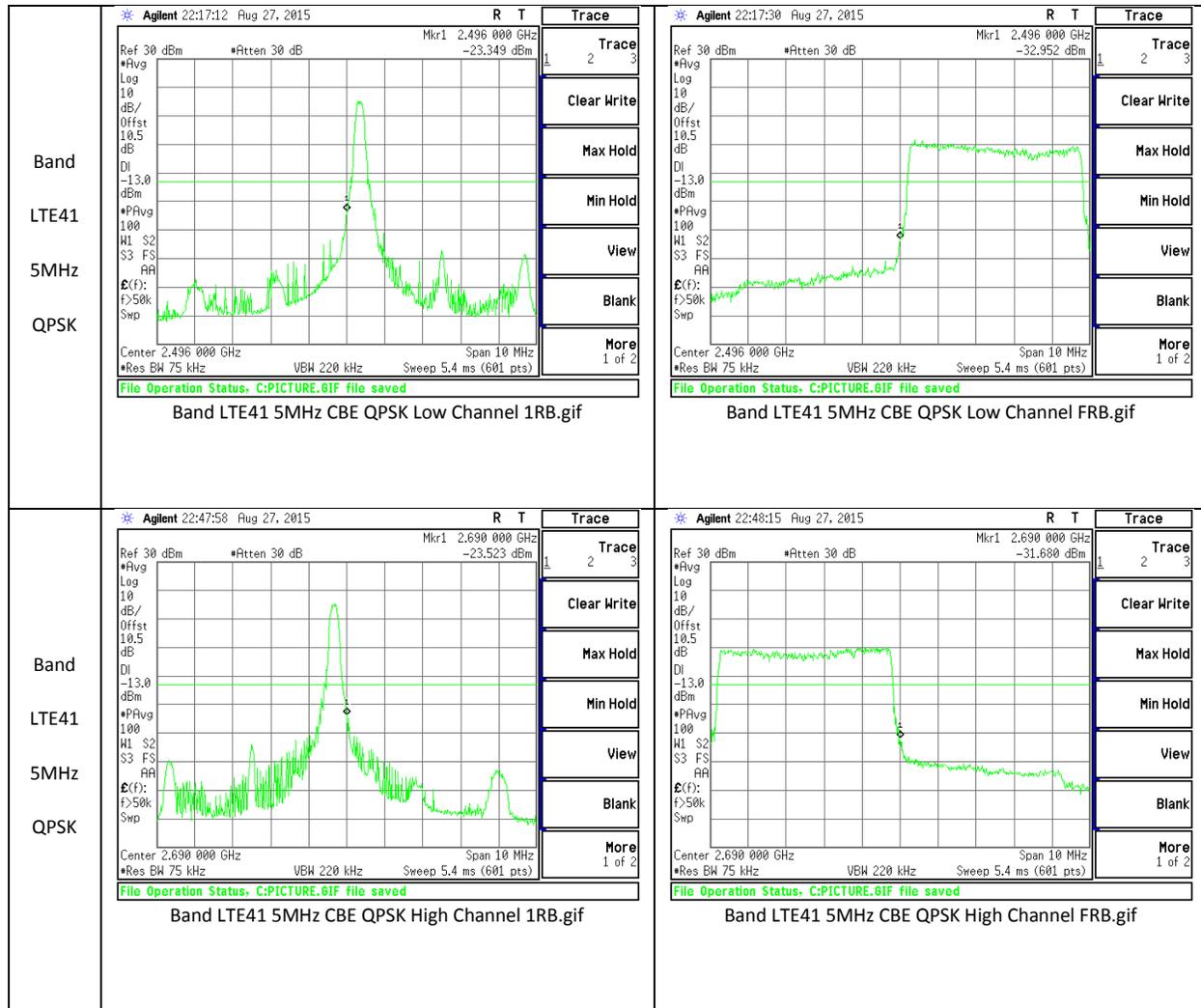
<p>Band LTE41 15MHz 16QAM</p>	<p>Agilent 22:29:17 Aug 27, 2015</p> <p>Mkr1 2.496 00 GHz Ref 30 dBm #Atten 30 dB -33.020 dBm</p> <p>#Avg Log 10 dB/ Offst 10.5 dB DI -13.0 dBm #PAvg 100 #Res BW 220 kHz VBW 600 kHz Sweep 1.88 ms (601 pts) Span 30 MHz Center 2.496 00 GHz</p> <p>File Operation Status, C:PICTURE.GIF file saved</p> <p>Band LTE41 15MHz CBE 16QAM Low Channel 1RB.gif</p>	<p>Agilent 22:29:34 Aug 27, 2015</p> <p>Mkr1 2.496 00 GHz Ref 30 dBm #Atten 30 dB -37.170 dBm</p> <p>#Avg Log 10 dB/ Offst 10.5 dB DI -13.0 dBm #PAvg 100 #Res BW 220 kHz VBW 600 kHz Sweep 1.88 ms (601 pts) Span 30 MHz Center 2.496 00 GHz</p> <p>File Operation Status, C:PICTURE.GIF file saved</p> <p>Band LTE41 15MHz CBE 16QAM Low Channel FRB.gif</p>
<p>Band LTE41 15MHz 16QAM</p>	<p>Agilent 22:58:10 Aug 27, 2015</p> <p>Mkr1 2.690 00 GHz Ref 30 dBm #Atten 30 dB -36.760 dBm</p> <p>#Avg Log 10 dB/ Offst 10.5 dB DI -13.0 dBm #PAvg 100 #Res BW 220 kHz VBW 600 kHz Sweep 1.88 ms (601 pts) Span 30 MHz Center 2.690 00 GHz</p> <p>File Operation Status, C:PICTURE.GIF file saved</p> <p>Band LTE41 15MHz CBE 16QAM Low Channel 1RB.gif</p>	<p>Agilent 22:58:27 Aug 27, 2015</p> <p>Mkr1 2.690 00 GHz Ref 30 dBm #Atten 30 dB -37.389 dBm</p> <p>#Avg Log 10 dB/ Offst 10.5 dB DI -13.0 dBm #PAvg 100 #Res BW 220 kHz VBW 600 kHz Sweep 1.88 ms (601 pts) Span 30 MHz Center 2.690 00 GHz</p> <p>File Operation Status, C:PICTURE.GIF file saved</p> <p>Band LTE41 15MHz CBE 16QAM Low Channel FRB.gif</p>





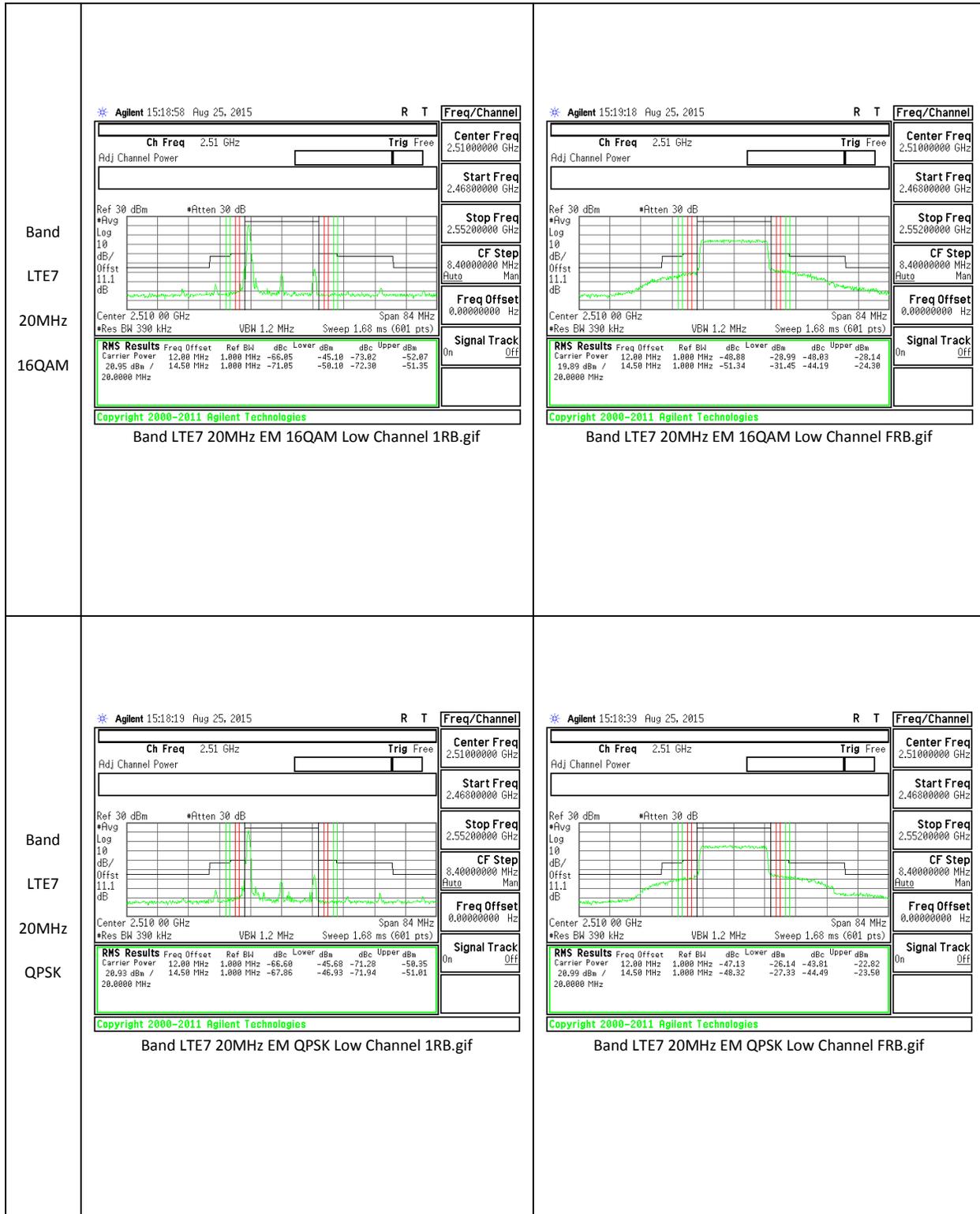


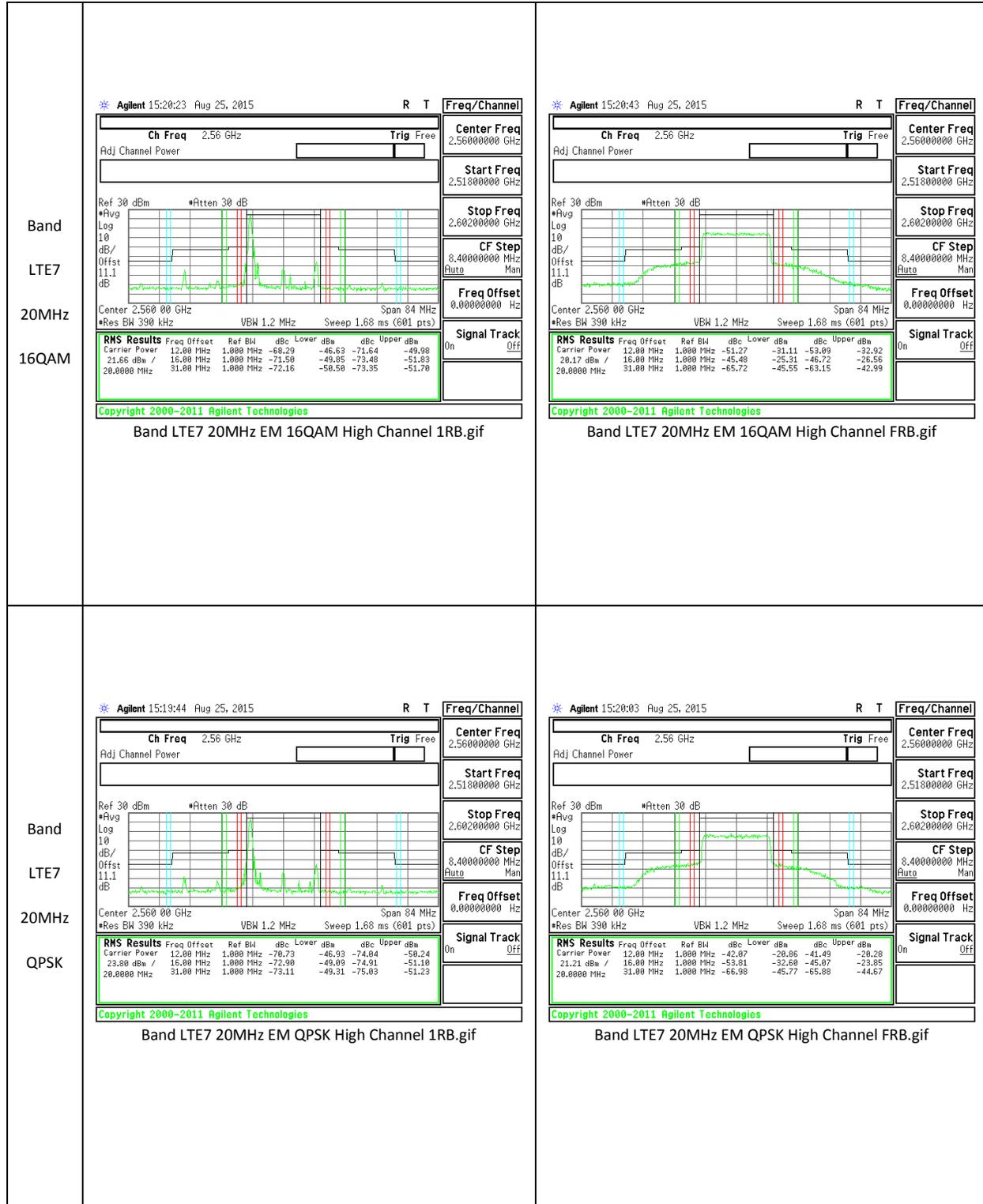
<p>Band LTE41 5MHz 16QAM</p>	<p>Agilent 22:17:47 Aug 27, 2015</p> <p>Center 2.496 000 GHz #Res BW 75 kHz</p> <p>Span 10 MHz VBW 220 kHz Sweep 5.4 ms (601 pts)</p> <p>File Operation Status, C:PICTURE.GIF file saved</p> <p>Band LTE41 5MHz CBE 16QAM Low Channel 1RB.gif</p>	<p>Agilent 22:18:04 Aug 27, 2015</p> <p>Center 2.496 000 GHz #Res BW 75 kHz</p> <p>Span 10 MHz VBW 220 kHz Sweep 5.4 ms (601 pts)</p> <p>File Operation Status, C:PICTURE.GIF file saved</p> <p>Band LTE41 5MHz CBE 16QAM Low Channel FRB.gif</p>
<p>Band LTE41 5MHz 16QAM</p>	<p>Agilent 22:48:32 Aug 27, 2015</p> <p>Center 2.690 000 GHz #Res BW 75 kHz</p> <p>Span 10 MHz VBW 220 kHz Sweep 5.4 ms (601 pts)</p> <p>File Operation Status, C:PICTURE.GIF file saved</p> <p>Band LTE41 5MHz CBE 16QAM High Channel 1RB.gif</p>	<p>Agilent 22:48:49 Aug 27, 2015</p> <p>Center 2.690 000 GHz #Res BW 75 kHz</p> <p>Span 10 MHz VBW 220 kHz Sweep 5.4 ms (601 pts)</p> <p>File Operation Status, C:PICTURE.GIF file saved</p> <p>Band LTE41 5MHz CBE 16QAM High Channel FRB.gif</p>

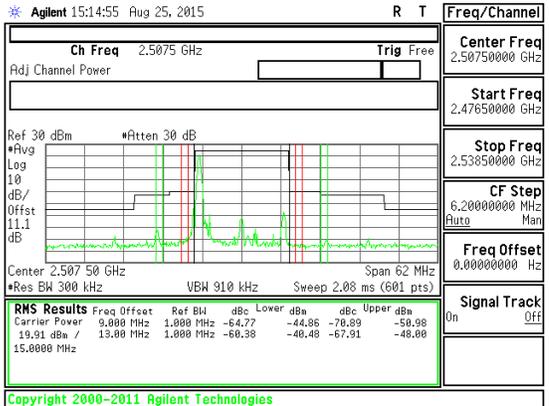
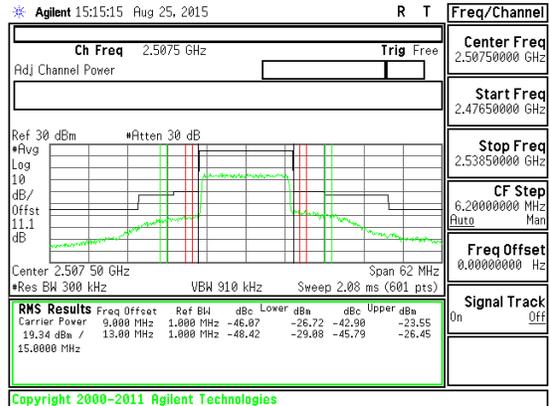
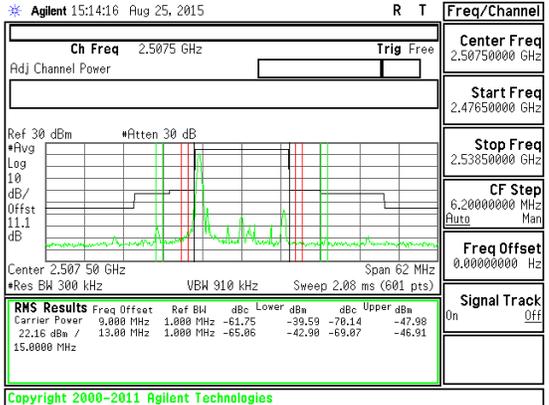
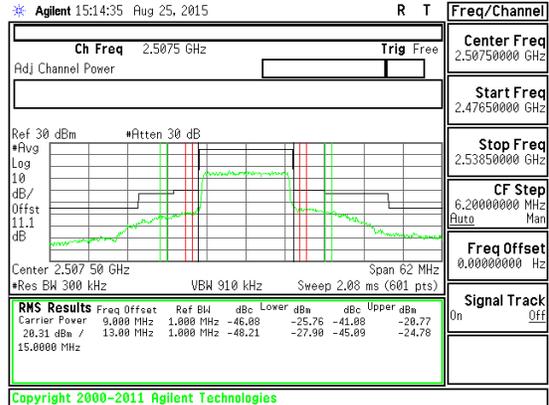


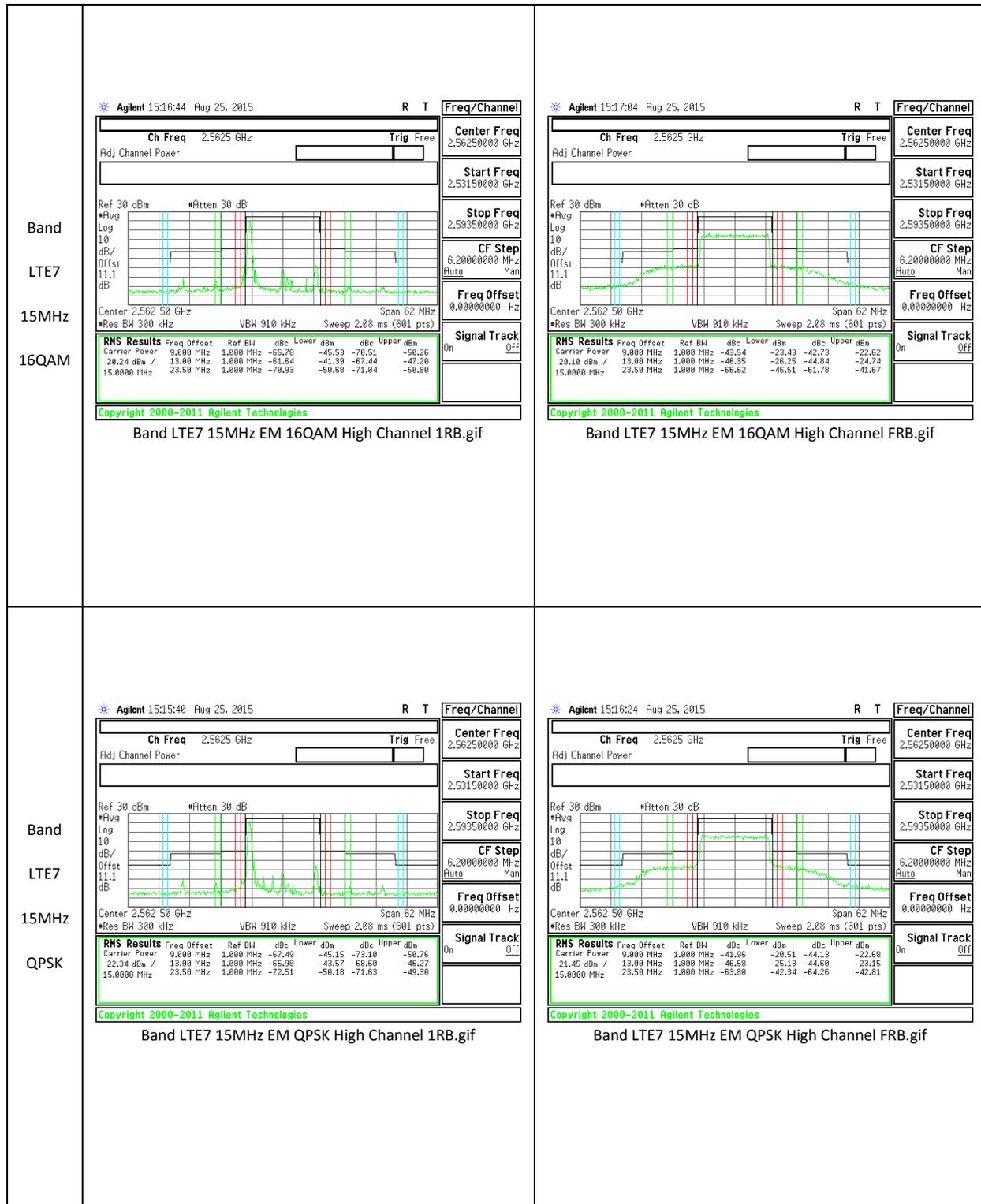
10.2.2. EMISSION MASK PLOTS

LTE Band 7

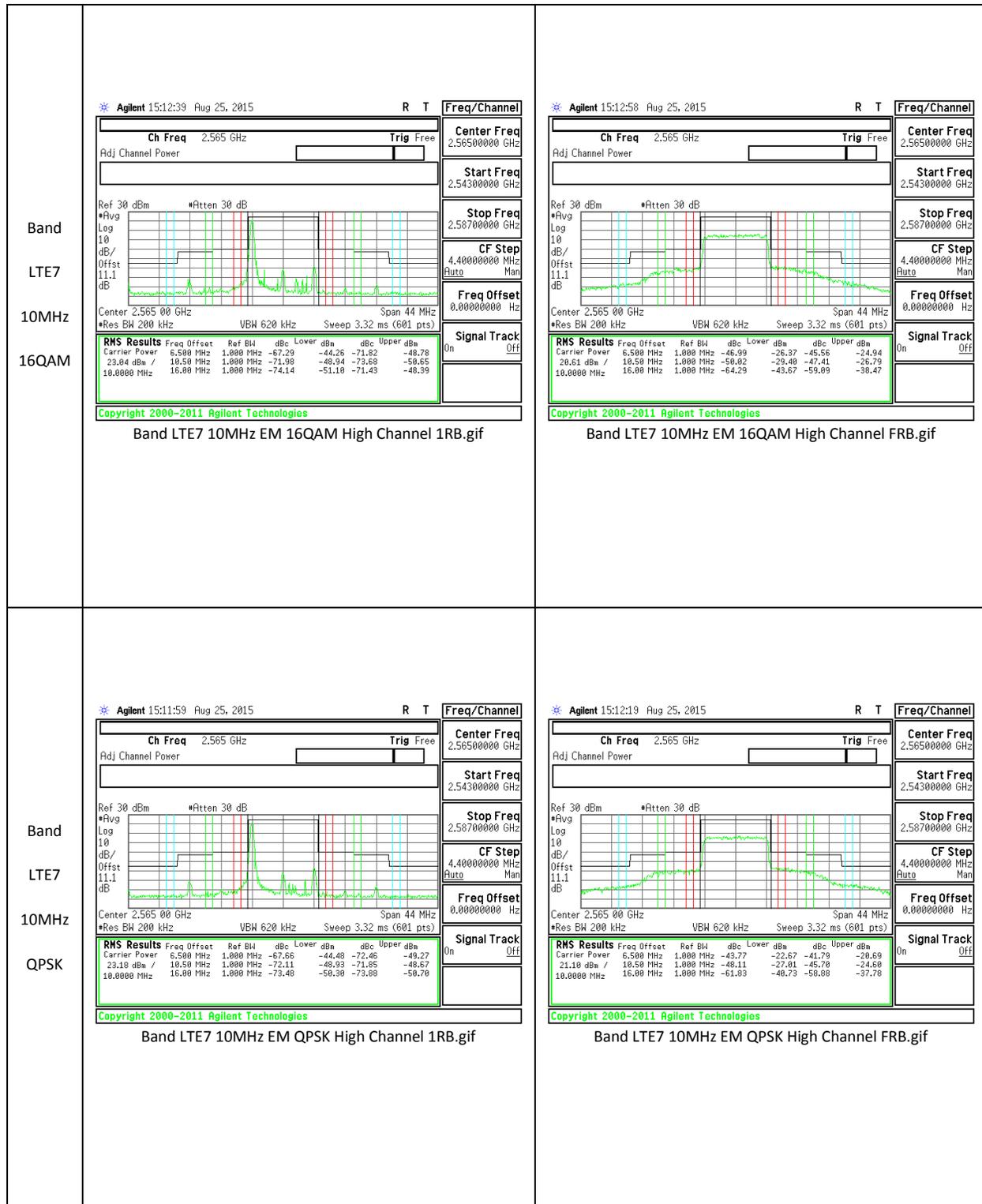


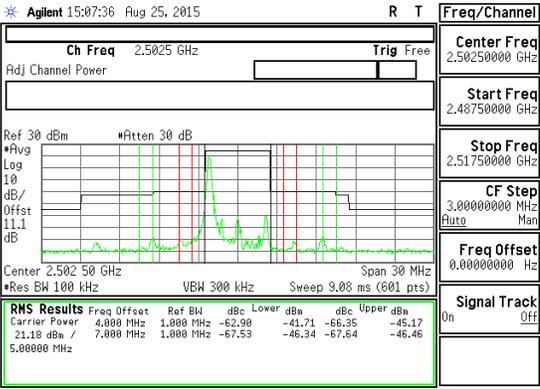
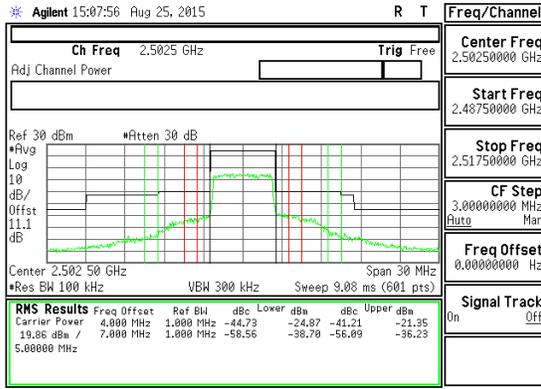
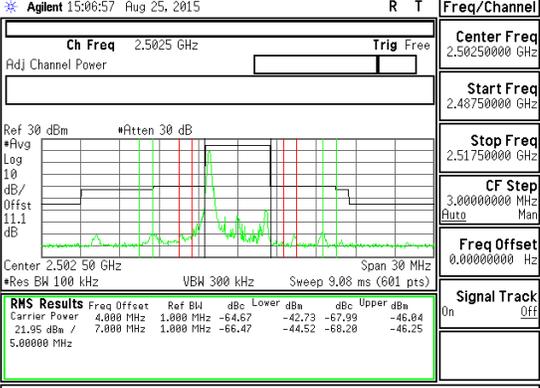
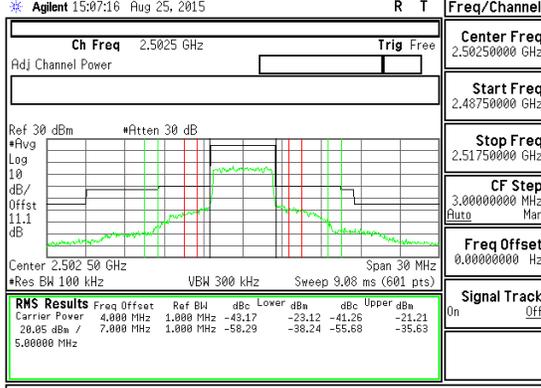


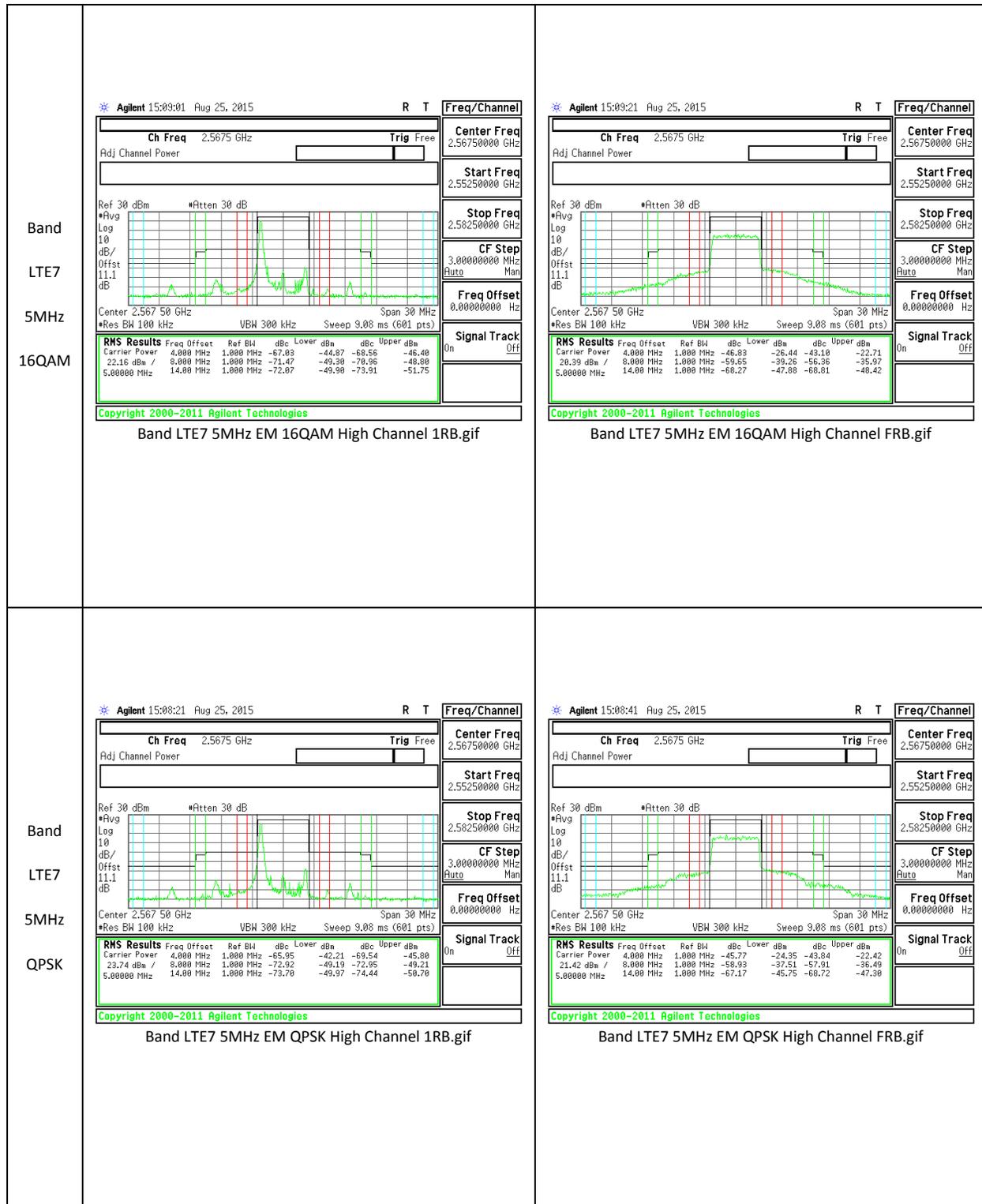
<p>Band LTE7 15MHz 16QAM</p>	 <p>Copyright 2000-2011 Agilent Technologies Band LTE7 15MHz EM 16QAM Low Channel 1RB.gif</p>	 <p>Copyright 2000-2011 Agilent Technologies Band LTE7 15MHz EM 16QAM Low Channel FRB.gif</p>
<p>Band LTE7 15MHz QPSK</p>	 <p>Copyright 2000-2011 Agilent Technologies Band LTE7 15MHz EM QPSK Low Channel 1RB.gif</p>	 <p>Copyright 2000-2011 Agilent Technologies Band LTE7 15MHz EM QPSK Low Channel FRB.gif</p>



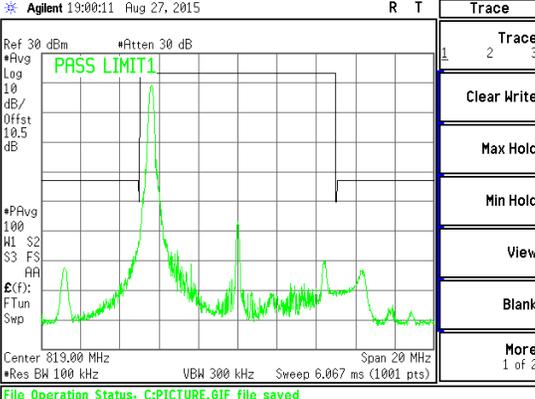
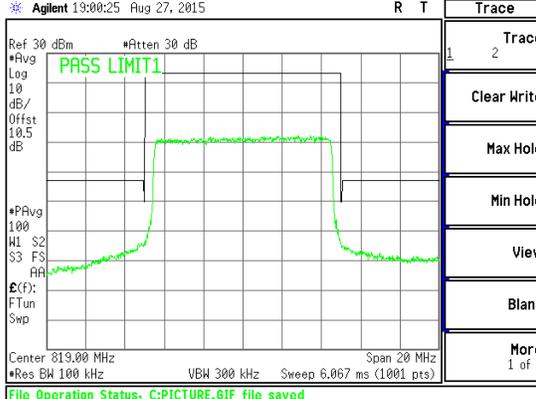
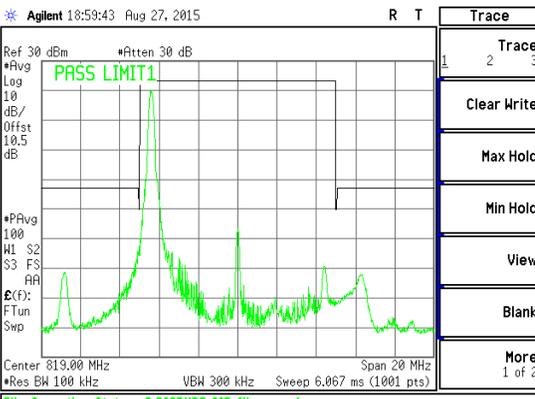
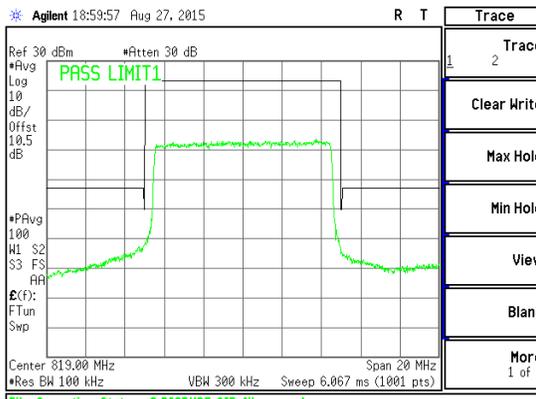
<p>Band LTE7 10MHz 16QAM</p>	<p>Agilent 15:11:14 Aug 25, 2015</p> <p>Ch Freq 2.505 GHz Trig Free</p> <p>Center Freq 2.50500000 GHz</p> <p>Start Freq 2.48300000 GHz</p> <p>Stop Freq 2.52700000 GHz</p> <p>CF Step 4.40000000 MHz</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>RHS Results</p> <table border="1"> <thead> <tr> <th>Freq</th> <th>Offset</th> <th>Ref BW</th> <th>dBc</th> <th>Lower</th> <th>dBc</th> <th>Upper</th> <th>dBa</th> </tr> </thead> <tbody> <tr> <td>Carrier Power</td> <td>7.000 MHz</td> <td>1.000 MHz</td> <td>-68.02</td> <td>-46.66</td> <td>-71.12</td> <td>-49.76</td> <td>-50.86</td> </tr> <tr> <td>Carrier Power</td> <td>21.36 dBm / 9.500 MHz</td> <td>1.000 MHz</td> <td>-68.02</td> <td>-46.66</td> <td>-72.22</td> <td>-50.86</td> <td>-50.86</td> </tr> </tbody> </table> <p>Copyright 2000-2011 Agilent Technologies</p> <p>Band LTE7 10MHz EM 16QAM Low Channel 1RB.gif</p>	Freq	Offset	Ref BW	dBc	Lower	dBc	Upper	dBa	Carrier Power	7.000 MHz	1.000 MHz	-68.02	-46.66	-71.12	-49.76	-50.86	Carrier Power	21.36 dBm / 9.500 MHz	1.000 MHz	-68.02	-46.66	-72.22	-50.86	-50.86	<p>Agilent 15:11:33 Aug 25, 2015</p> <p>Ch Freq 2.505 GHz Trig Free</p> <p>Center Freq 2.50500000 GHz</p> <p>Start Freq 2.48300000 GHz</p> <p>Stop Freq 2.52700000 GHz</p> <p>CF Step 4.40000000 MHz</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>RHS Results</p> <table border="1"> <thead> <tr> <th>Freq</th> <th>Offset</th> <th>Ref BW</th> <th>dBc</th> <th>Lower</th> <th>dBc</th> <th>Upper</th> <th>dBa</th> </tr> </thead> <tbody> <tr> <td>Carrier Power</td> <td>7.000 MHz</td> <td>1.000 MHz</td> <td>-45.67</td> <td>-26.45</td> <td>-42.53</td> <td>-23.31</td> <td>-24.71</td> </tr> <tr> <td>Carrier Power</td> <td>19.22 dBm / 9.500 MHz</td> <td>1.000 MHz</td> <td>-51.12</td> <td>-31.90</td> <td>-43.93</td> <td>-24.71</td> <td>-24.71</td> </tr> </tbody> </table> <p>Copyright 2000-2011 Agilent Technologies</p> <p>Band LTE7 10MHz EM 16QAM Low Channel FRB.gif</p>	Freq	Offset	Ref BW	dBc	Lower	dBc	Upper	dBa	Carrier Power	7.000 MHz	1.000 MHz	-45.67	-26.45	-42.53	-23.31	-24.71	Carrier Power	19.22 dBm / 9.500 MHz	1.000 MHz	-51.12	-31.90	-43.93	-24.71	-24.71
Freq	Offset	Ref BW	dBc	Lower	dBc	Upper	dBa																																											
Carrier Power	7.000 MHz	1.000 MHz	-68.02	-46.66	-71.12	-49.76	-50.86																																											
Carrier Power	21.36 dBm / 9.500 MHz	1.000 MHz	-68.02	-46.66	-72.22	-50.86	-50.86																																											
Freq	Offset	Ref BW	dBc	Lower	dBc	Upper	dBa																																											
Carrier Power	7.000 MHz	1.000 MHz	-45.67	-26.45	-42.53	-23.31	-24.71																																											
Carrier Power	19.22 dBm / 9.500 MHz	1.000 MHz	-51.12	-31.90	-43.93	-24.71	-24.71																																											
<p>Band LTE7 10MHz QPSK</p>	<p>Agilent 15:10:34 Aug 25, 2015</p> <p>Ch Freq 2.505 GHz Trig Free</p> <p>Center Freq 2.50500000 GHz</p> <p>Start Freq 2.48300000 GHz</p> <p>Stop Freq 2.52700000 GHz</p> <p>CF Step 4.40000000 MHz</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>RHS Results</p> <table border="1"> <thead> <tr> <th>Freq</th> <th>Offset</th> <th>Ref BW</th> <th>dBc</th> <th>Lower</th> <th>dBc</th> <th>Upper</th> <th>dBa</th> </tr> </thead> <tbody> <tr> <td>Carrier Power</td> <td>7.000 MHz</td> <td>1.000 MHz</td> <td>-69.01</td> <td>-47.11</td> <td>-71.18</td> <td>-49.27</td> <td>-48.92</td> </tr> <tr> <td>Carrier Power</td> <td>21.90 dBm / 9.500 MHz</td> <td>1.000 MHz</td> <td>-67.65</td> <td>-45.75</td> <td>-70.82</td> <td>-48.92</td> <td>-48.92</td> </tr> </tbody> </table> <p>Copyright 2000-2011 Agilent Technologies</p> <p>Band LTE7 10MHz EM QPSK Low Channel 1RB.gif</p>	Freq	Offset	Ref BW	dBc	Lower	dBc	Upper	dBa	Carrier Power	7.000 MHz	1.000 MHz	-69.01	-47.11	-71.18	-49.27	-48.92	Carrier Power	21.90 dBm / 9.500 MHz	1.000 MHz	-67.65	-45.75	-70.82	-48.92	-48.92	<p>Agilent 15:10:54 Aug 25, 2015</p> <p>Ch Freq 2.505 GHz Trig Free</p> <p>Center Freq 2.50500000 GHz</p> <p>Start Freq 2.48300000 GHz</p> <p>Stop Freq 2.52700000 GHz</p> <p>CF Step 4.40000000 MHz</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>RHS Results</p> <table border="1"> <thead> <tr> <th>Freq</th> <th>Offset</th> <th>Ref BW</th> <th>dBc</th> <th>Lower</th> <th>dBc</th> <th>Upper</th> <th>dBa</th> </tr> </thead> <tbody> <tr> <td>Carrier Power</td> <td>7.000 MHz</td> <td>1.000 MHz</td> <td>-46.32</td> <td>-26.09</td> <td>-46.51</td> <td>-20.28</td> <td>-20.28</td> </tr> <tr> <td>Carrier Power</td> <td>20.23 dBm / 9.500 MHz</td> <td>1.000 MHz</td> <td>-46.38</td> <td>-26.15</td> <td>-44.19</td> <td>-23.96</td> <td>-23.96</td> </tr> </tbody> </table> <p>Copyright 2000-2011 Agilent Technologies</p> <p>Band LTE7 10MHz EM QPSK Low Channel FRB.gif</p>	Freq	Offset	Ref BW	dBc	Lower	dBc	Upper	dBa	Carrier Power	7.000 MHz	1.000 MHz	-46.32	-26.09	-46.51	-20.28	-20.28	Carrier Power	20.23 dBm / 9.500 MHz	1.000 MHz	-46.38	-26.15	-44.19	-23.96	-23.96
Freq	Offset	Ref BW	dBc	Lower	dBc	Upper	dBa																																											
Carrier Power	7.000 MHz	1.000 MHz	-69.01	-47.11	-71.18	-49.27	-48.92																																											
Carrier Power	21.90 dBm / 9.500 MHz	1.000 MHz	-67.65	-45.75	-70.82	-48.92	-48.92																																											
Freq	Offset	Ref BW	dBc	Lower	dBc	Upper	dBa																																											
Carrier Power	7.000 MHz	1.000 MHz	-46.32	-26.09	-46.51	-20.28	-20.28																																											
Carrier Power	20.23 dBm / 9.500 MHz	1.000 MHz	-46.38	-26.15	-44.19	-23.96	-23.96																																											

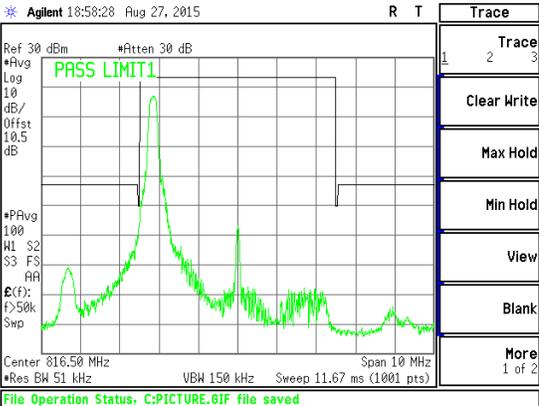
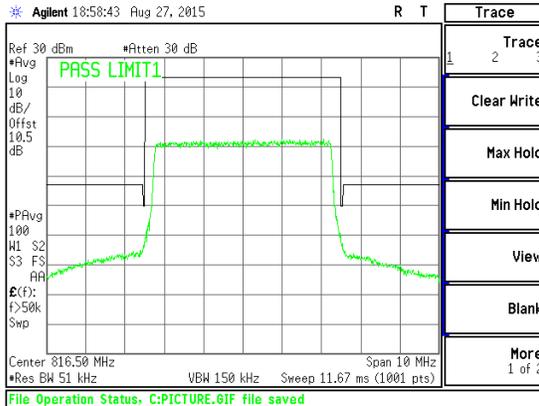
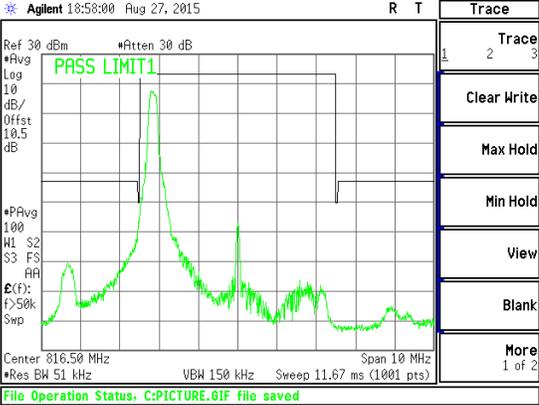
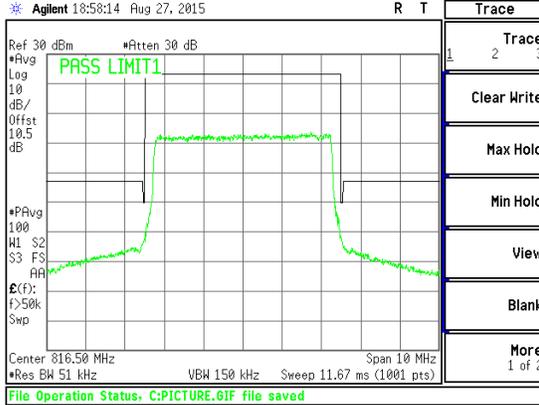


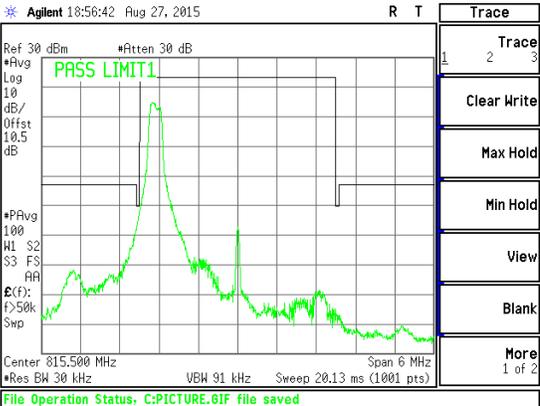
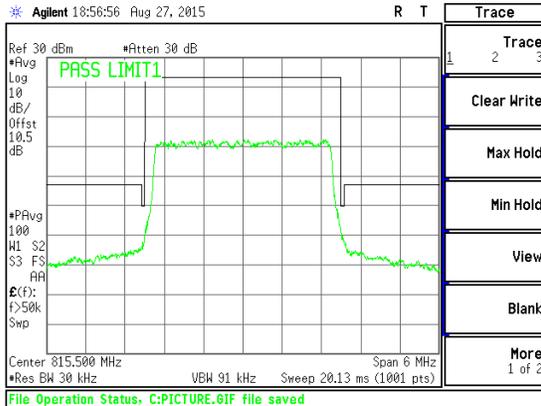
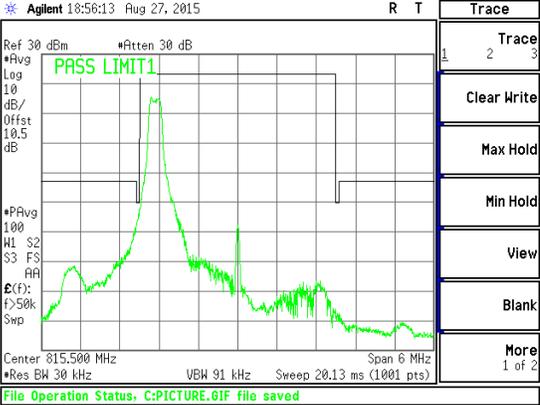
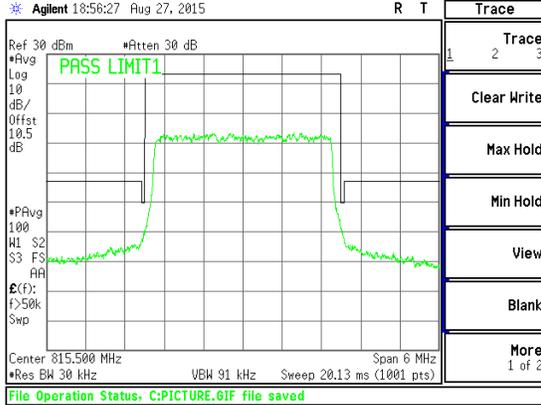
<p>Band LTE7 5MHz 16QAM</p>	 <p>Agilent 15:07:36 Aug 25, 2015</p> <p>Ch Freq 2.5025 GHz Trig Free</p> <p>Center Freq 2.50250000 GHz</p> <p>Start Freq 2.48750000 GHz</p> <p>Stop Freq 2.51750000 GHz</p> <p>CF Step 3.00000000 MHz</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>RHS Results</p> <table border="1"> <thead> <tr> <th>Carrier Power</th> <th>Freq Offset</th> <th>Ref BW</th> <th>dBc</th> <th>Lower</th> <th>dBc</th> <th>Upper</th> </tr> </thead> <tbody> <tr> <td>21.18 dBm / 7.000 MHz</td> <td>1.000 MHz</td> <td>1.000 MHz</td> <td>-67.53</td> <td>-46.34</td> <td>-67.54</td> <td>-46.46</td> </tr> </tbody> </table> <p>Copyright 2000-2011 Agilent Technologies</p> <p>Band LTE7 5MHz EM 16QAM Low Channel 1RB.gif</p>	Carrier Power	Freq Offset	Ref BW	dBc	Lower	dBc	Upper	21.18 dBm / 7.000 MHz	1.000 MHz	1.000 MHz	-67.53	-46.34	-67.54	-46.46	 <p>Agilent 15:07:56 Aug 25, 2015</p> <p>Ch Freq 2.5025 GHz Trig Free</p> <p>Center Freq 2.50250000 GHz</p> <p>Start Freq 2.48750000 GHz</p> <p>Stop Freq 2.51750000 GHz</p> <p>CF Step 3.00000000 MHz</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>RHS Results</p> <table border="1"> <thead> <tr> <th>Carrier Power</th> <th>Freq Offset</th> <th>Ref BW</th> <th>dBc</th> <th>Lower</th> <th>dBc</th> <th>Upper</th> </tr> </thead> <tbody> <tr> <td>19.86 dBm / 7.000 MHz</td> <td>1.000 MHz</td> <td>1.000 MHz</td> <td>-58.56</td> <td>-38.70</td> <td>-56.09</td> <td>-36.23</td> </tr> </tbody> </table> <p>Copyright 2000-2011 Agilent Technologies</p> <p>Band LTE7 5MHz EM 16QAM Low Channel FRB.gif</p>	Carrier Power	Freq Offset	Ref BW	dBc	Lower	dBc	Upper	19.86 dBm / 7.000 MHz	1.000 MHz	1.000 MHz	-58.56	-38.70	-56.09	-36.23
Carrier Power	Freq Offset	Ref BW	dBc	Lower	dBc	Upper																								
21.18 dBm / 7.000 MHz	1.000 MHz	1.000 MHz	-67.53	-46.34	-67.54	-46.46																								
Carrier Power	Freq Offset	Ref BW	dBc	Lower	dBc	Upper																								
19.86 dBm / 7.000 MHz	1.000 MHz	1.000 MHz	-58.56	-38.70	-56.09	-36.23																								
<p>Band LTE7 5MHz QPSK</p>	 <p>Agilent 15:06:57 Aug 25, 2015</p> <p>Ch Freq 2.5025 GHz Trig Free</p> <p>Center Freq 2.50250000 GHz</p> <p>Start Freq 2.48750000 GHz</p> <p>Stop Freq 2.51750000 GHz</p> <p>CF Step 3.00000000 MHz</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>RHS Results</p> <table border="1"> <thead> <tr> <th>Carrier Power</th> <th>Freq Offset</th> <th>Ref BW</th> <th>dBc</th> <th>Lower</th> <th>dBc</th> <th>Upper</th> </tr> </thead> <tbody> <tr> <td>21.95 dBm / 7.000 MHz</td> <td>1.000 MHz</td> <td>1.000 MHz</td> <td>-66.47</td> <td>-42.73</td> <td>-67.99</td> <td>-46.04</td> </tr> </tbody> </table> <p>Copyright 2000-2011 Agilent Technologies</p> <p>Band LTE7 5MHz EM QPSK Low Channel 1RB.gif</p>	Carrier Power	Freq Offset	Ref BW	dBc	Lower	dBc	Upper	21.95 dBm / 7.000 MHz	1.000 MHz	1.000 MHz	-66.47	-42.73	-67.99	-46.04	 <p>Agilent 15:07:16 Aug 25, 2015</p> <p>Ch Freq 2.5025 GHz Trig Free</p> <p>Center Freq 2.50250000 GHz</p> <p>Start Freq 2.48750000 GHz</p> <p>Stop Freq 2.51750000 GHz</p> <p>CF Step 3.00000000 MHz</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>RHS Results</p> <table border="1"> <thead> <tr> <th>Carrier Power</th> <th>Freq Offset</th> <th>Ref BW</th> <th>dBc</th> <th>Lower</th> <th>dBc</th> <th>Upper</th> </tr> </thead> <tbody> <tr> <td>20.85 dBm / 7.000 MHz</td> <td>1.000 MHz</td> <td>1.000 MHz</td> <td>-58.29</td> <td>-38.24</td> <td>-55.68</td> <td>-35.63</td> </tr> </tbody> </table> <p>Copyright 2000-2011 Agilent Technologies</p> <p>Band LTE7 5MHz EM QPSK Low Channel FRB.gif</p>	Carrier Power	Freq Offset	Ref BW	dBc	Lower	dBc	Upper	20.85 dBm / 7.000 MHz	1.000 MHz	1.000 MHz	-58.29	-38.24	-55.68	-35.63
Carrier Power	Freq Offset	Ref BW	dBc	Lower	dBc	Upper																								
21.95 dBm / 7.000 MHz	1.000 MHz	1.000 MHz	-66.47	-42.73	-67.99	-46.04																								
Carrier Power	Freq Offset	Ref BW	dBc	Lower	dBc	Upper																								
20.85 dBm / 7.000 MHz	1.000 MHz	1.000 MHz	-58.29	-38.24	-55.68	-35.63																								

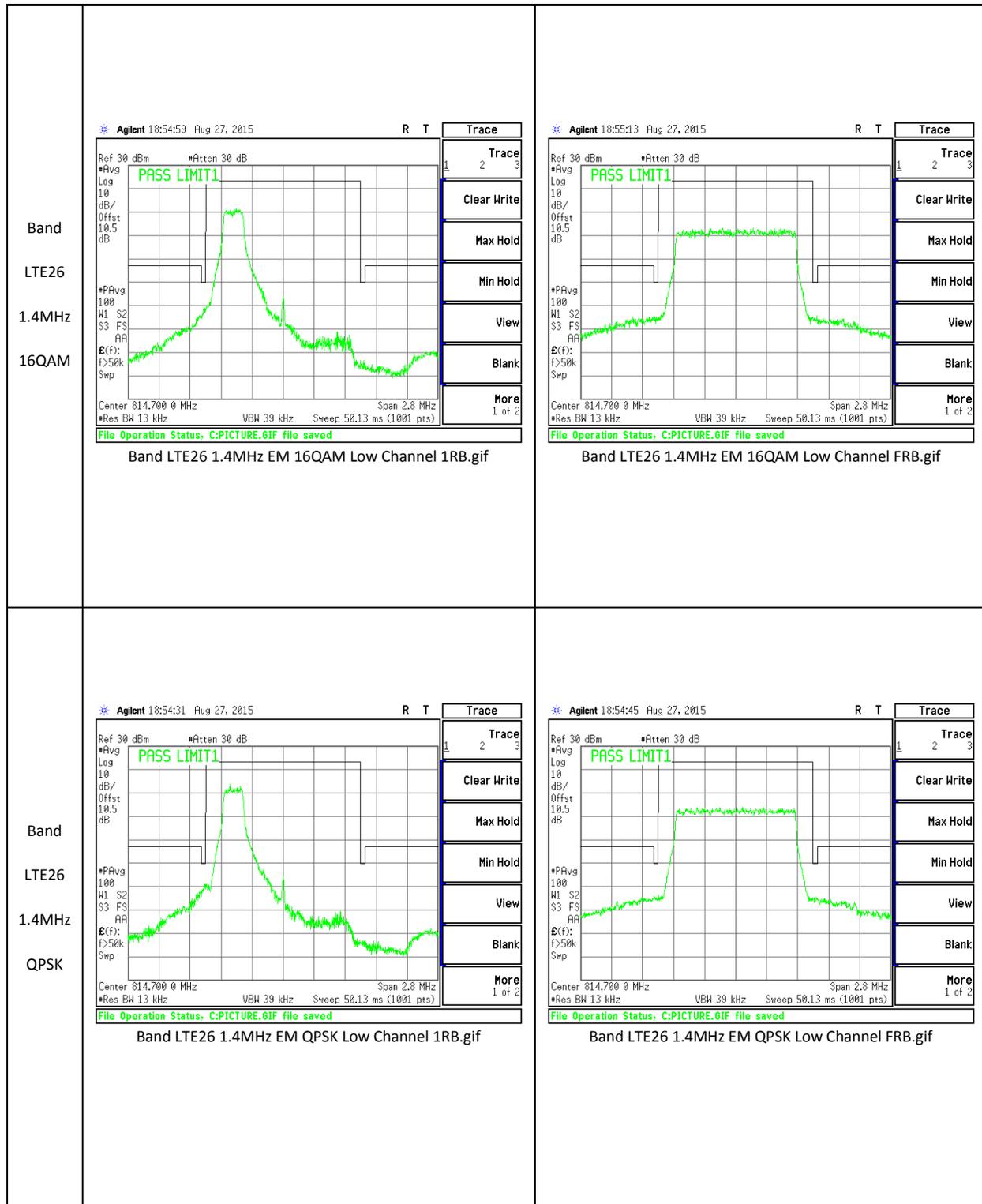


LTE Band 26

<p>Band LTE26 10MHz 16QAM</p>	 <p>Agilent 19:00:11 Aug 27, 2015</p> <p>Center 819.00 MHz Res BW 100 kHz VBW 300 kHz Sweep 6.067 ms (1001 pts) Span 20 MHz</p> <p>File Operation Status: C:PICTURE.GIF file saved</p> <p>Band LTE26 10MHz EM 16QAM Low Channel 1RB.gif</p>	 <p>Agilent 19:00:25 Aug 27, 2015</p> <p>Center 819.00 MHz Res BW 100 kHz VBW 300 kHz Sweep 6.067 ms (1001 pts) Span 20 MHz</p> <p>File Operation Status: C:PICTURE.GIF file saved</p> <p>Band LTE26 10MHz EM 16QAM Low Channel FRB.gif</p>
<p>Band LTE26 10MHz QPSK</p>	 <p>Agilent 18:59:43 Aug 27, 2015</p> <p>Center 819.00 MHz Res BW 100 kHz VBW 300 kHz Sweep 6.067 ms (1001 pts) Span 20 MHz</p> <p>File Operation Status: C:PICTURE.GIF file saved</p> <p>Band LTE26 10MHz EM QPSK Low Channel 1RB.gif</p>	 <p>Agilent 18:59:57 Aug 27, 2015</p> <p>Center 819.00 MHz Res BW 100 kHz VBW 300 kHz Sweep 6.067 ms (1001 pts) Span 20 MHz</p> <p>File Operation Status: C:PICTURE.GIF file saved</p> <p>Band LTE26 10MHz EM QPSK Low Channel FRB.gif</p>

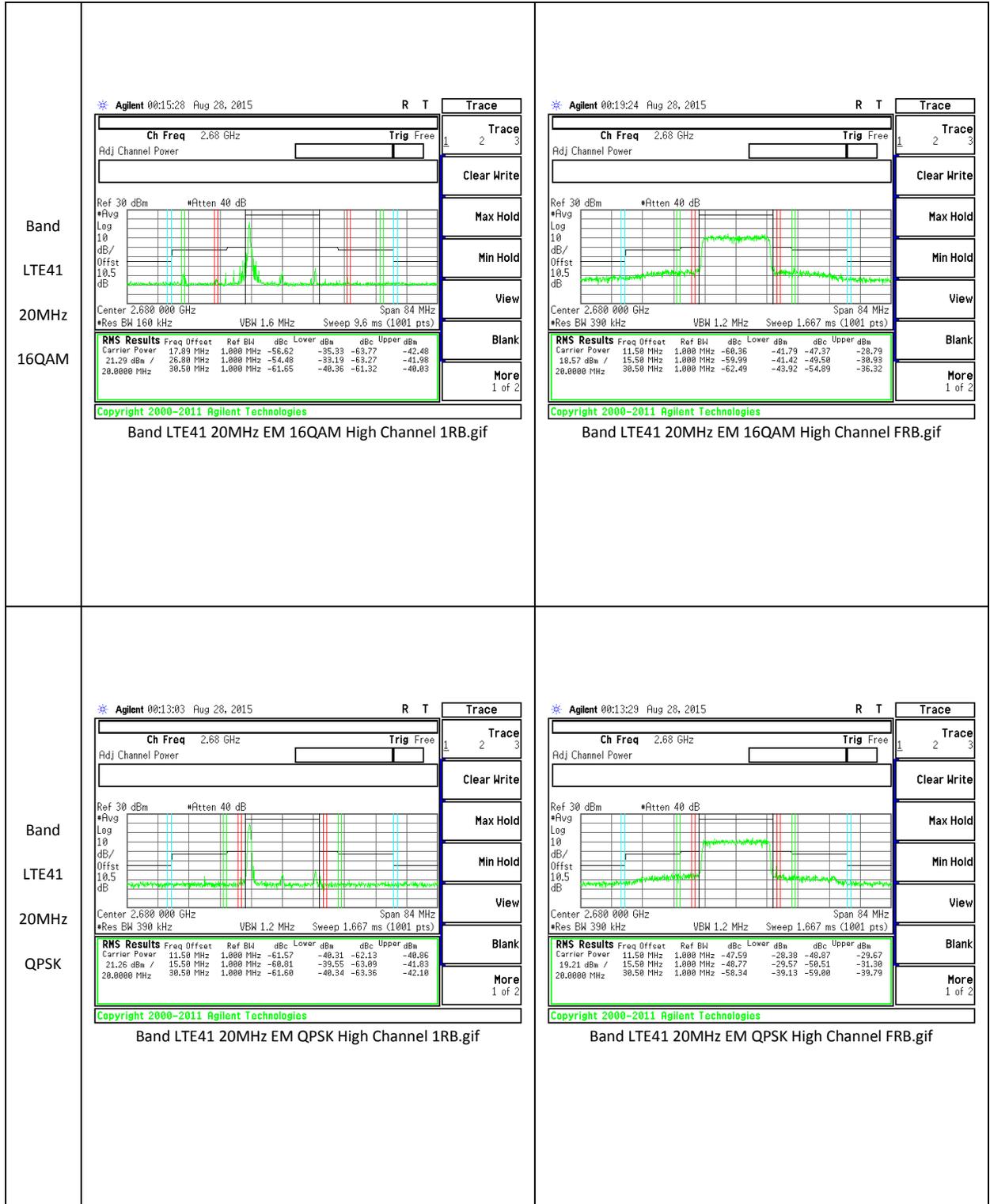
<p>Band LTE26 5MHz 16QAM</p>	 <p>Agilent 18:58:28 Aug 27, 2015</p> <p>Ref 30 dBm #Atten 30 dB</p> <p>#Avg Log</p> <p>10 dB/Offst 10.5 dB</p> <p>#PAvg 100</p> <p>HL S2</p> <p>S3 FS</p> <p>AA</p> <p>£(f): f>50k Swp</p> <p>Center 816.50 MHz</p> <p>#Res BW 51 kHz VBW 150 kHz Sweep 11.67 ms (1001 pts)</p> <p>Span 10 MHz</p> <p>File Operation Status, C:PICTURE.GIF file saved</p> <p>Band LTE26 5MHz EM 16QAM Low Channel 1RB.gif</p>	 <p>Agilent 18:58:43 Aug 27, 2015</p> <p>Ref 30 dBm #Atten 30 dB</p> <p>#Avg Log</p> <p>10 dB/Offst 10.5 dB</p> <p>#PAvg 100</p> <p>HL S2</p> <p>S3 FS</p> <p>AA</p> <p>£(f): f>50k Swp</p> <p>Center 816.50 MHz</p> <p>#Res BW 51 kHz VBW 150 kHz Sweep 11.67 ms (1001 pts)</p> <p>Span 10 MHz</p> <p>File Operation Status, C:PICTURE.GIF file saved</p> <p>Band LTE26 5MHz EM 16QAM Low Channel FRB.gif</p>
<p>Band LTE26 5MHz QPSK</p>	 <p>Agilent 18:58:00 Aug 27, 2015</p> <p>Ref 30 dBm #Atten 30 dB</p> <p>#Avg Log</p> <p>10 dB/Offst 10.5 dB</p> <p>#PAvg 100</p> <p>HL S2</p> <p>S3 FS</p> <p>AA</p> <p>£(f): f>50k Swp</p> <p>Center 816.50 MHz</p> <p>#Res BW 51 kHz VBW 150 kHz Sweep 11.67 ms (1001 pts)</p> <p>Span 10 MHz</p> <p>File Operation Status, C:PICTURE.GIF file saved</p> <p>Band LTE26 5MHz EM QPSK Low Channel 1RB.gif</p>	 <p>Agilent 18:58:14 Aug 27, 2015</p> <p>Ref 30 dBm #Atten 30 dB</p> <p>#Avg Log</p> <p>10 dB/Offst 10.5 dB</p> <p>#PAvg 100</p> <p>HL S2</p> <p>S3 FS</p> <p>AA</p> <p>£(f): f>50k Swp</p> <p>Center 816.50 MHz</p> <p>#Res BW 51 kHz VBW 150 kHz Sweep 11.67 ms (1001 pts)</p> <p>Span 10 MHz</p> <p>File Operation Status, C:PICTURE.GIF file saved</p> <p>Band LTE26 5MHz EM QPSK Low Channel FRB.gif</p>

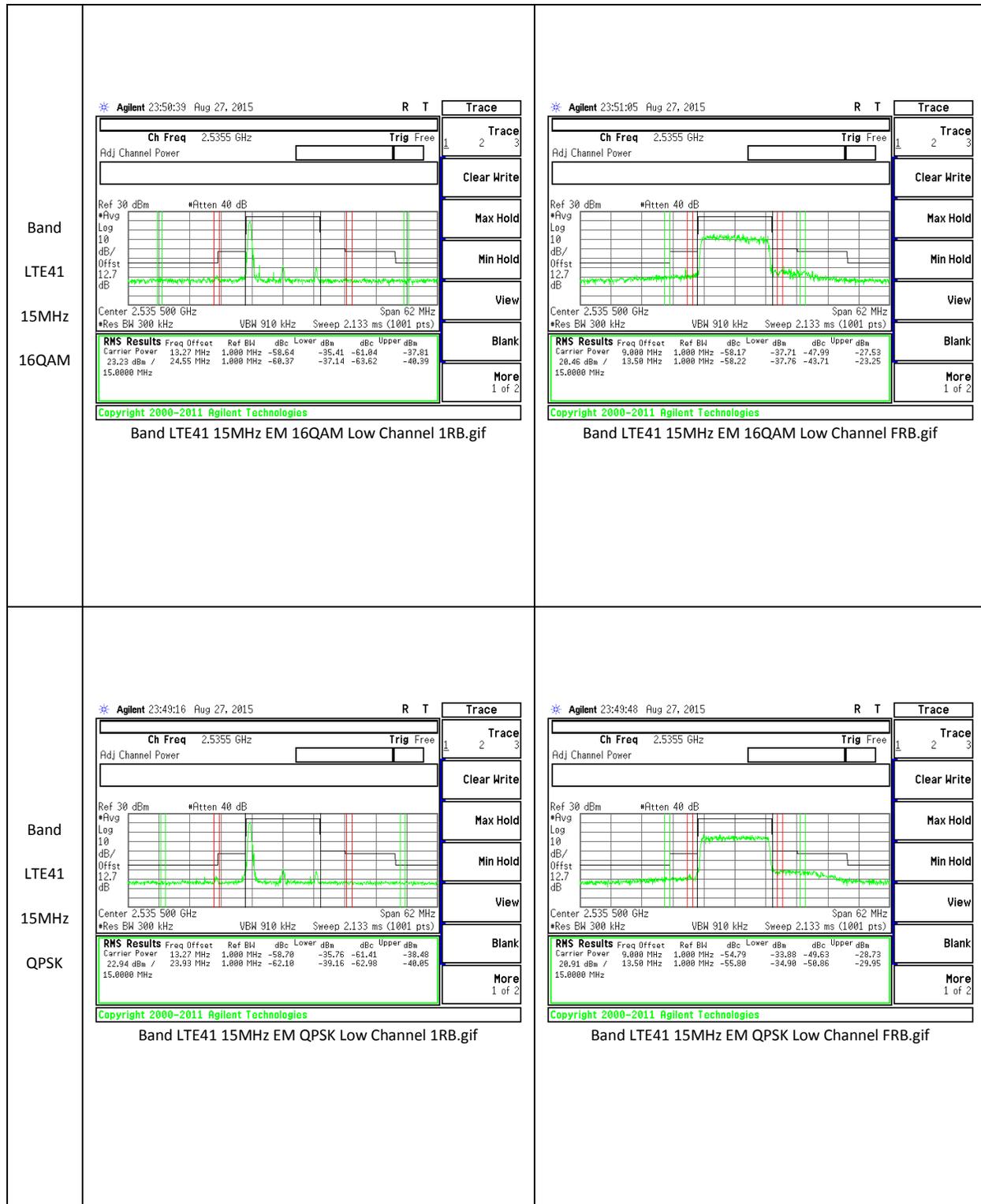
<p>Band LTE26 3MHz 16QAM</p>	 <p>Agilent 18:56:42 Aug 27, 2015</p> <p>Center 815.500 MHz Res BW 30 kHz VBW 91 kHz Sweep 20.13 ms (1001 pts) Span 6 MHz</p> <p>File Operation Status, C:PICTURE.GIF file saved</p> <p>Band LTE26 3MHz EM 16QAM Low Channel 1RB.gif</p>	 <p>Agilent 18:56:56 Aug 27, 2015</p> <p>Center 815.500 MHz Res BW 30 kHz VBW 91 kHz Sweep 20.13 ms (1001 pts) Span 6 MHz</p> <p>File Operation Status, C:PICTURE.GIF file saved</p> <p>Band LTE26 3MHz EM 16QAM Low Channel FRB.gif</p>
<p>Band LTE26 3MHz QPSK</p>	 <p>Agilent 18:56:13 Aug 27, 2015</p> <p>Center 815.500 MHz Res BW 30 kHz VBW 91 kHz Sweep 20.13 ms (1001 pts) Span 6 MHz</p> <p>File Operation Status, C:PICTURE.GIF file saved</p> <p>Band LTE26 5MHz EM QPSK Low Channel 1RB.gif</p>	 <p>Agilent 18:56:27 Aug 27, 2015</p> <p>Center 815.500 MHz Res BW 30 kHz VBW 91 kHz Sweep 20.13 ms (1001 pts) Span 6 MHz</p> <p>File Operation Status, C:PICTURE.GIF file saved</p> <p>Band LTE26 3MHz EM QPSK Low Channel FRB.gif</p>

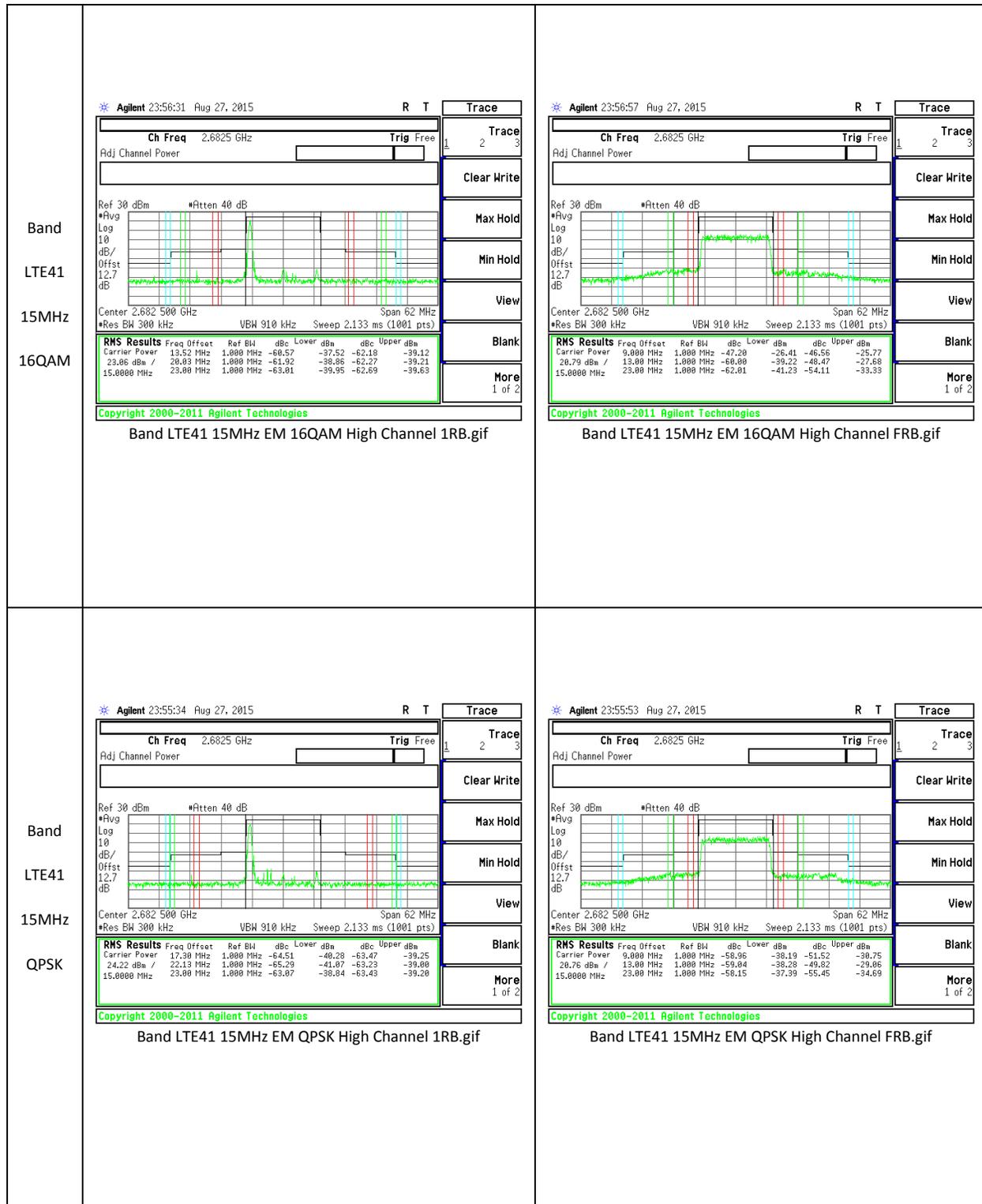


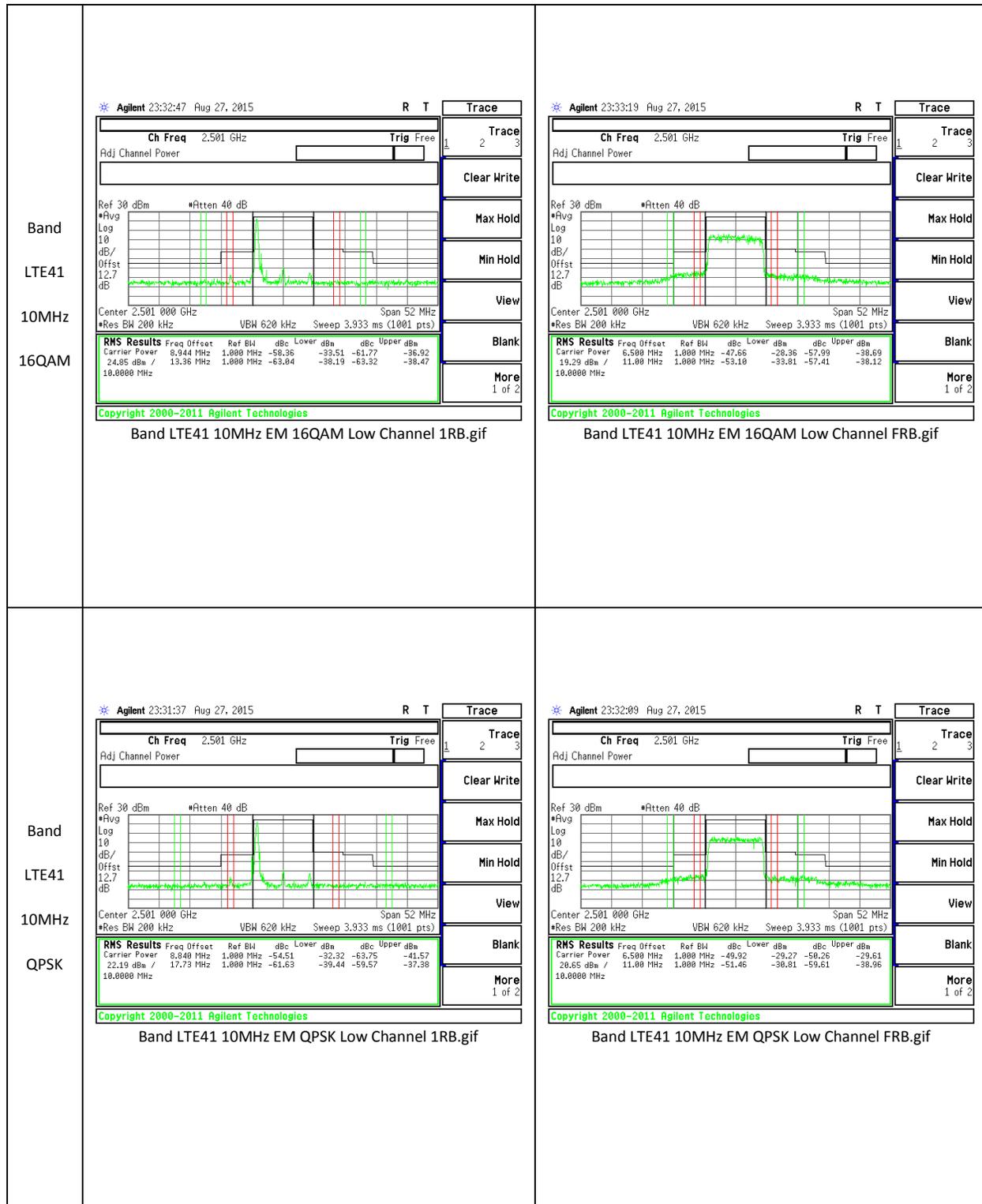
LTE Band 41

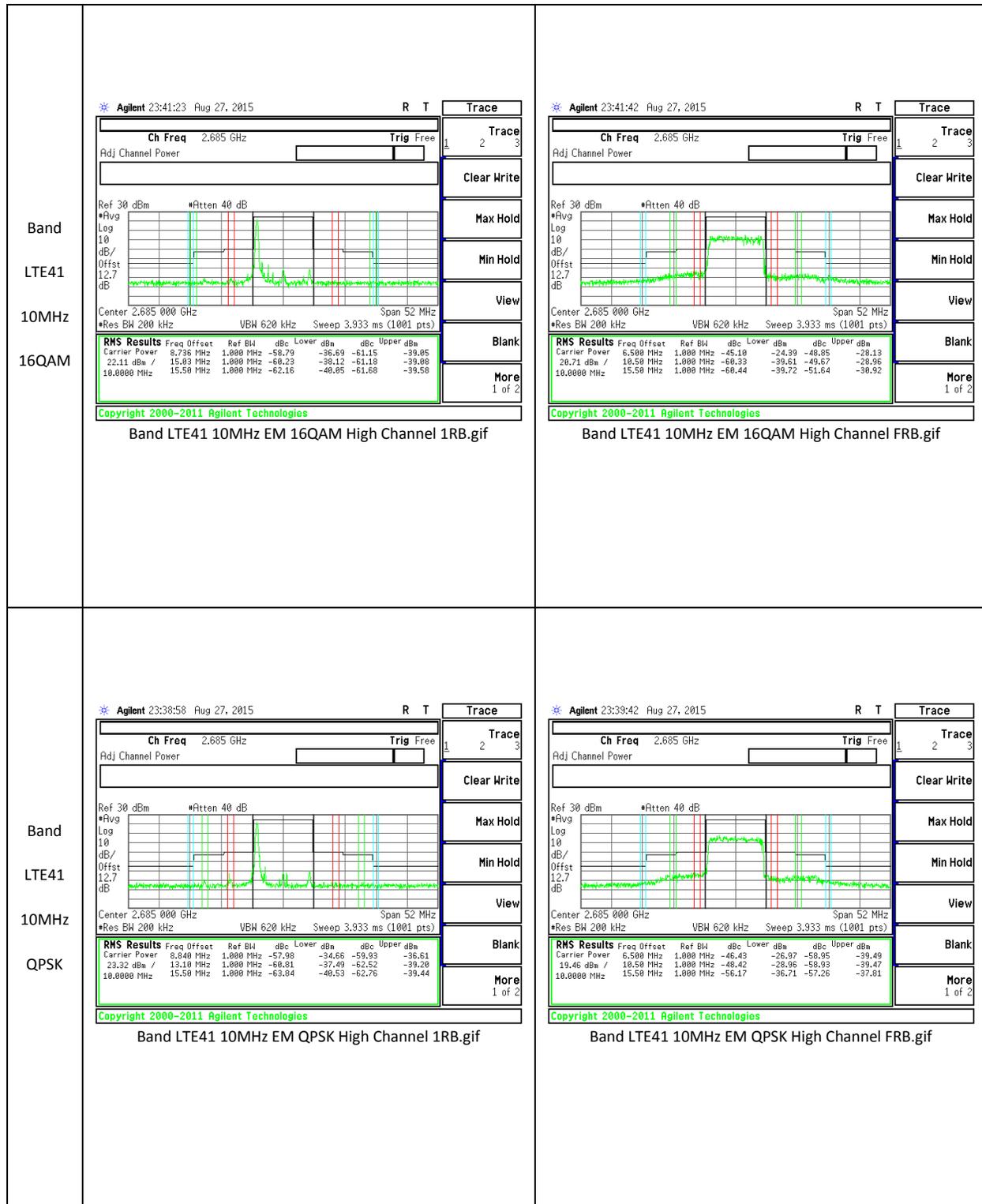
<p>Band LTE41 20MHz 16QAM</p>	<p>Agilent 00:05:24 Aug 28, 2015</p> <p>Ch Freq 2.506 GHz</p> <p>Center 2.506 000 GHz</p> <p>RMS Results</p> <table border="1"> <thead> <tr> <th>Carrier Power</th> <th>Freq</th> <th>Offset</th> <th>Ref BW</th> <th>dBc</th> <th>Lower</th> <th>dBm</th> <th>dBc</th> <th>Upper</th> <th>dBm</th> </tr> </thead> <tbody> <tr> <td>24.94 dBm /</td> <td>12.00 MHz</td> <td>1.000 MHz</td> <td>1.000 MHz</td> <td>-62.77</td> <td>-37.83</td> <td>-61.43</td> <td>-36.49</td> <td></td> <td></td> </tr> <tr> <td>20.75 dBm /</td> <td>16.00 MHz</td> <td>1.000 MHz</td> <td>1.000 MHz</td> <td>-64.45</td> <td>-39.51</td> <td>-62.10</td> <td>-37.16</td> <td></td> <td></td> </tr> </tbody> </table> <p>Band LTE41 20MHz EM 16QAM Low Channel 1RB.gif</p>	Carrier Power	Freq	Offset	Ref BW	dBc	Lower	dBm	dBc	Upper	dBm	24.94 dBm /	12.00 MHz	1.000 MHz	1.000 MHz	-62.77	-37.83	-61.43	-36.49			20.75 dBm /	16.00 MHz	1.000 MHz	1.000 MHz	-64.45	-39.51	-62.10	-37.16			<p>Agilent 00:05:44 Aug 28, 2015</p> <p>Ch Freq 2.506 GHz</p> <p>Center 2.506 000 GHz</p> <p>RMS Results</p> <table border="1"> <thead> <tr> <th>Carrier Power</th> <th>Freq</th> <th>Offset</th> <th>Ref BW</th> <th>dBc</th> <th>Lower</th> <th>dBm</th> <th>dBc</th> <th>Upper</th> <th>dBm</th> </tr> </thead> <tbody> <tr> <td>20.75 dBm /</td> <td>12.00 MHz</td> <td>1.000 MHz</td> <td>1.000 MHz</td> <td>-48.98</td> <td>-28.24</td> <td>-53.54</td> <td>-32.79</td> <td></td> <td></td> </tr> </tbody> </table> <p>Band LTE41 20MHz EM 16QAM Low Channel FRB.gif</p>	Carrier Power	Freq	Offset	Ref BW	dBc	Lower	dBm	dBc	Upper	dBm	20.75 dBm /	12.00 MHz	1.000 MHz	1.000 MHz	-48.98	-28.24	-53.54	-32.79		
Carrier Power	Freq	Offset	Ref BW	dBc	Lower	dBm	dBc	Upper	dBm																																											
24.94 dBm /	12.00 MHz	1.000 MHz	1.000 MHz	-62.77	-37.83	-61.43	-36.49																																													
20.75 dBm /	16.00 MHz	1.000 MHz	1.000 MHz	-64.45	-39.51	-62.10	-37.16																																													
Carrier Power	Freq	Offset	Ref BW	dBc	Lower	dBm	dBc	Upper	dBm																																											
20.75 dBm /	12.00 MHz	1.000 MHz	1.000 MHz	-48.98	-28.24	-53.54	-32.79																																													
<p>Band LTE41 20MHz QPSK</p>	<p>Agilent 00:01:05 Aug 28, 2015</p> <p>Ch Freq 2.506 GHz</p> <p>Center 2.506 000 GHz</p> <p>RMS Results</p> <table border="1"> <thead> <tr> <th>Carrier Power</th> <th>Freq</th> <th>Offset</th> <th>Ref BW</th> <th>dBc</th> <th>Lower</th> <th>dBm</th> <th>dBc</th> <th>Upper</th> <th>dBm</th> </tr> </thead> <tbody> <tr> <td>22.26 dBm /</td> <td>12.00 MHz</td> <td>1.000 MHz</td> <td>1.000 MHz</td> <td>-58.90</td> <td>-36.54</td> <td>-62.59</td> <td>-40.32</td> <td></td> <td></td> </tr> <tr> <td>22.26 dBm /</td> <td>26.12 MHz</td> <td>1.000 MHz</td> <td>1.000 MHz</td> <td>-60.24</td> <td>-37.98</td> <td>-61.41</td> <td>-39.15</td> <td></td> <td></td> </tr> </tbody> </table> <p>Band LTE41 20MHz EM QPSK Low Channel 1RB.gif</p>	Carrier Power	Freq	Offset	Ref BW	dBc	Lower	dBm	dBc	Upper	dBm	22.26 dBm /	12.00 MHz	1.000 MHz	1.000 MHz	-58.90	-36.54	-62.59	-40.32			22.26 dBm /	26.12 MHz	1.000 MHz	1.000 MHz	-60.24	-37.98	-61.41	-39.15			<p>Agilent 00:01:30 Aug 28, 2015</p> <p>Ch Freq 2.506 GHz</p> <p>Center 2.506 000 GHz</p> <p>RMS Results</p> <table border="1"> <thead> <tr> <th>Carrier Power</th> <th>Freq</th> <th>Offset</th> <th>Ref BW</th> <th>dBc</th> <th>Lower</th> <th>dBm</th> <th>dBc</th> <th>Upper</th> <th>dBm</th> </tr> </thead> <tbody> <tr> <td>21.33 dBm /</td> <td>12.00 MHz</td> <td>1.000 MHz</td> <td>1.000 MHz</td> <td>-50.31</td> <td>-28.98</td> <td>-50.41</td> <td>-29.08</td> <td></td> <td></td> </tr> </tbody> </table> <p>Band LTE41 20MHz EM QPSK Low Channel FRB.gif</p>	Carrier Power	Freq	Offset	Ref BW	dBc	Lower	dBm	dBc	Upper	dBm	21.33 dBm /	12.00 MHz	1.000 MHz	1.000 MHz	-50.31	-28.98	-50.41	-29.08		
Carrier Power	Freq	Offset	Ref BW	dBc	Lower	dBm	dBc	Upper	dBm																																											
22.26 dBm /	12.00 MHz	1.000 MHz	1.000 MHz	-58.90	-36.54	-62.59	-40.32																																													
22.26 dBm /	26.12 MHz	1.000 MHz	1.000 MHz	-60.24	-37.98	-61.41	-39.15																																													
Carrier Power	Freq	Offset	Ref BW	dBc	Lower	dBm	dBc	Upper	dBm																																											
21.33 dBm /	12.00 MHz	1.000 MHz	1.000 MHz	-50.31	-28.98	-50.41	-29.08																																													

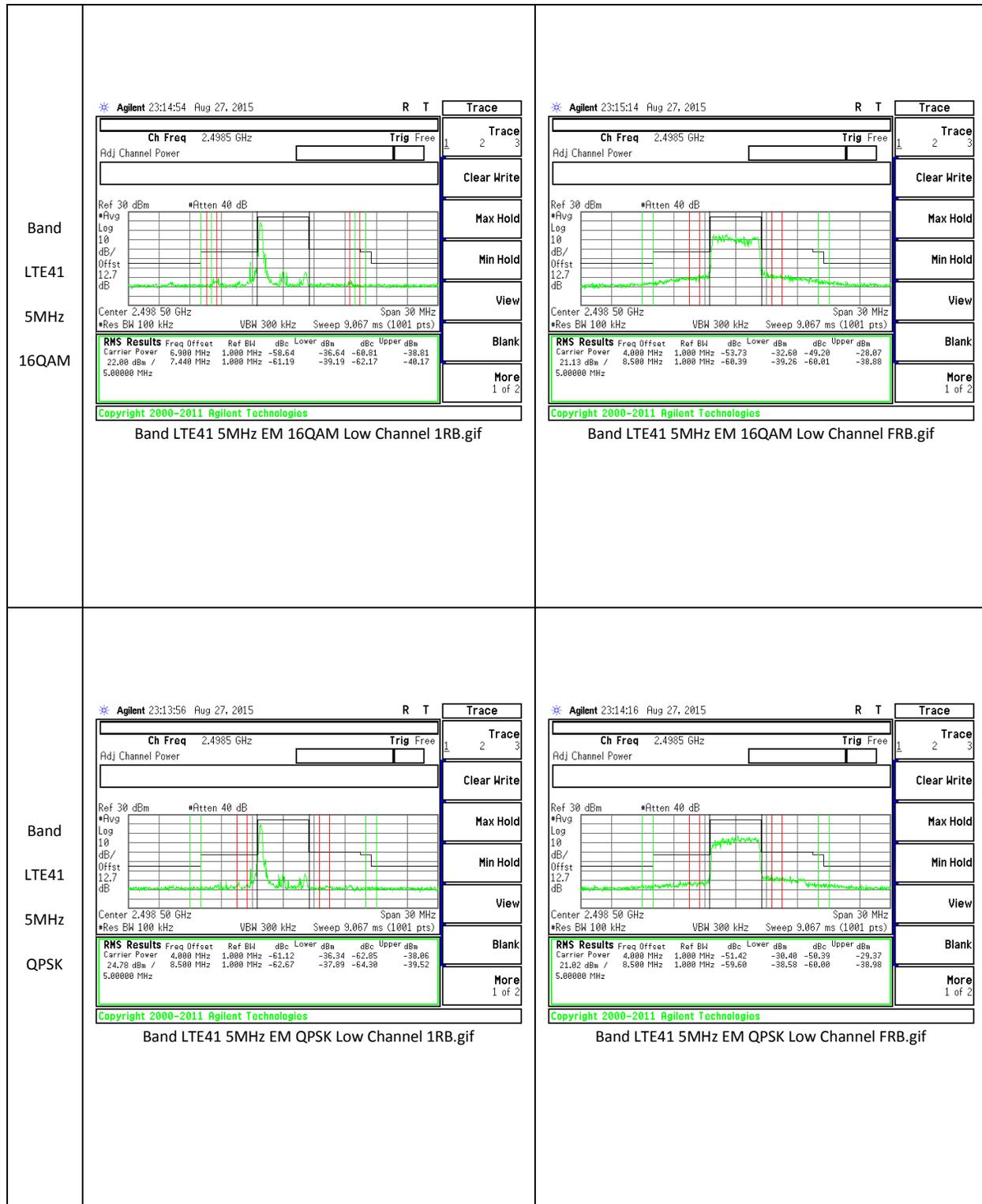


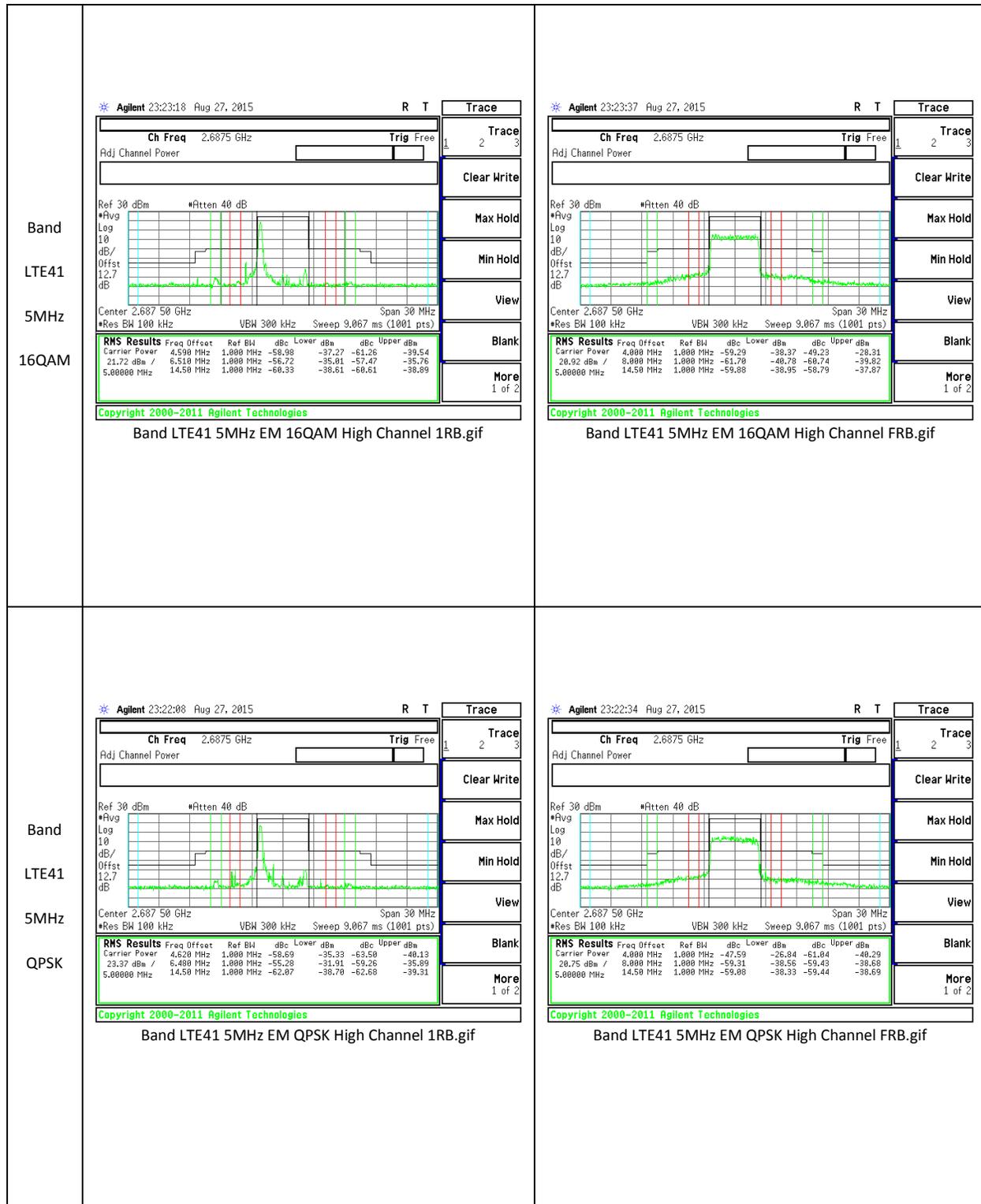












10.3. OUT OF BAND EMISSIONS

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) (4) For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

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, WCDMA, and 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	-22.509	-13	-9.509
		836.6	-23.191	-13	-10.191
		848.8	-22.548	-13	-9.548
	EGPRS	824.2	-22.475	-13	-9.475
		836.6	-22.685	-13	-9.685
		848.8	-22.428	-13	-9.428
GSM 1900	GPRS	1850.2	-23.038	-13	-10.038
		1880	-22.573	-13	-9.573
		1909.8	-21.442	-13	-8.442
	EGPRS	1850.2	-21.185	-13	-8.185
		1880	-22.504	-13	-9.504
		1909.8	-22.853	-13	-9.853

WCDMA

Band	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
Band 5	REL99	826.4	-25.079	-13	-12.079
		836.6	-25.212	-13	-12.212
		846.6	-24.562	-13	-11.562
	HSDPA	826.4	-25.362	-13	-12.362
		836.6	-26.083	-13	-13.083
		846.6	-24.88	-13	-11.88
Band 4	REL99	1712.4	-22.071	-13	-9.071
		1732.6	-22.702	-13	-9.702
		1752.6	-22.862	-13	-9.862
	HSDPA	1712.4	-22.343	-13	-9.343
		1732.6	-22.197	-13	-9.197
		1752.6	-22.951	-13	-9.951
Band 2	REL99	1852.4	-23.091	-13	-10.091
		1880	-22.368	-13	-9.368
		1907.6	-22.748	-13	-9.748
	HSDPA	1852.4	-22.954	-13	-9.954
		1880	-22.262	-13	-9.262
		1907.6	-22.935	-13	-9.935

LTE Band 2

Band	BW (MHz)	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
LTE2	20	16QAM	1860	-28.92	-13	-15.92
			1880	-29.22	-13	-16.22
			1900	-29.73	-13	-16.73
		QPSK	1860	-30.13	-13	-17.13
			1880	-28.7	-13	-15.7
			1900	-29.53	-13	-16.53
	15	16QAM	1857.5	-30.15	-13	-17.15
			1880	-29.87	-13	-16.87
			1902.5	-30.22	-13	-17.22
		QPSK	1857.5	-29.909	-13	-16.909
			1880	-29.84	-13	-16.84
			1902.5	-29.48	-13	-16.48
	10	16QAM	1855	-30.13	-13	-17.13
			1880	-29.87	-13	-16.87
			1905	-30.05	-13	-17.05
		QPSK	1855	-30.01	-13	-17.01
			1880	-30	-13	-17
			1905	-30.05	-13	-17.05
	5	16QAM	1852.5	-29.826	-13	-16.826
			1880	-29.249	-13	-16.249
			1907.5	-29.443	-13	-16.443
		QPSK	1852.5	-29.629	-13	-16.629
			1880	-29.942	-13	-16.942
			1907.5	-29.9	-13	-16.9

Band	BW (MHz)	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
LTE2	3	16QAM	1851.5	-30.07	-13	-17.07
			1880	-29.639	-13	-16.639
			1908.5	-29.974	-13	-16.974
		QPSK	1851.5	-29.78	-13	-16.78
			1880	-29.652	-13	-16.652
			1908.5	-28.819	-13	-15.819
	1.4	16QAM	1850.7	-30.326	-13	-17.326
			1880	-30.223	-13	-17.223
			1909.3	-29.939	-13	-16.939
		QPSK	1850.7	-29.834	-13	-16.834
			1880	-29.497	-13	-16.497
			1909.3	-29.789	-13	-16.789

LTE Band 4

Band	BW (MHz)	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
LTE4	20	16QAM	1720	-30.156	-13	-17.156
			1732.5	-29.134	-13	-16.134
			1745	-29.46	-13	-16.46
		QPSK	1720	-29.82	-13	-16.82
			1732.5	-29.924	-13	-16.924
			1745	-29.247	-13	-16.247
	15	16QAM	1717.5	-30.3	-13	-17.3
			1732.5	-30.34	-13	-17.34
			1747.5	-29.42	-13	-16.42
		QPSK	1717.5	-30.023	-13	-17.023
			1732.5	-30.24	-13	-17.24
			1747.5	-30.5	-13	-17.5
	10	16QAM	1715	-29.59	-13	-16.59
			1732.5	-29.846	-13	-16.846
			1750	-30.2	-13	-17.2
		QPSK	1715	-30.08	-13	-17.08
			1732.5	-29.06	-13	-16.06
			1750	-29.84	-13	-16.84
	5	16QAM	1712.5	-28.699	-13	-15.699
			1732.5	-30.265	-13	-17.265
			1752.5	-29.218	-13	-16.218
		QPSK	1712.5	-29.266	-13	-16.266
			1732.5	-30.166	-13	-17.166
			1752.5	-30.798	-13	-17.798

Band	BW (MHz)	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
LTE4	3	16QAM	1711.5	-30.034	-13	-17.034
			1732.5	-30.076	-13	-17.076
			1753.5	-29.27	-13	-16.27
		QPSK	1711.5	-29.807	-13	-16.807
			1732.5	-29.944	-13	-16.944
			1753.5	-29.52	-13	-16.52
	1.4	16QAM	1710.7	-29.464	-13	-16.464
			1732.5	-30.092	-13	-17.092
			1754.3	-29.943	-13	-16.943
		QPSK	1710.7	-30.076	-13	-17.076
			1732.5	-30.292	-13	-17.292
			1754.3	-29.978	-13	-16.978

LTE Band 5

Band	BW (MHz)	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
LTE5	10	16QAM	829	-29.16	-13	-16.16
			836.5	-29.029	-13	-16.029
			844	-29.957	-13	-16.957
		QPSK	829	-30.155	-13	-17.155
			836.5	-30.121	-13	-17.121
			844	-29.797	-13	-16.797
	5	16QAM	826.5	-29.681	-13	-16.681
			836.5	-29.746	-13	-16.746
			846.5	-30.032	-13	-17.032
		QPSK	826.5	-29.895	-13	-16.895
			836.5	-29.34	-13	-16.34
			846.5	-30.45	-13	-17.45
	3	16QAM	825.5	-29.906	-13	-16.906
			836.5	-30.11	-13	-17.11
			847.5	-30.408	-13	-17.408
		QPSK	825.5	-29.685	-13	-16.685
			836.5	-29.351	-13	-16.351
			847.5	-29.497	-13	-16.497
	1.4	16QAM	824.7	-30.393	-13	-17.393
			836.5	-30.2	-13	-17.2
			848.3	-29.705	-13	-16.705
		QPSK	824.7	-29.735	-13	-16.735
			836.5	-29.595	-13	-16.595
			848.3	-30.33	-13	-17.33

LTE Band 7

Band	BW (MHz)	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
LTE7	20	16QAM	2510	-30.079	-25	-5.079
			2535	-30.199	-25	-5.199
			2560	-28.821	-25	-3.821
		QPSK	2510	-29.371	-25	-4.371
			2535	-29.986	-25	-4.986
			2560	-30.374	-25	-5.374
	15	16QAM	2507.5	-29.912	-25	-4.912
			2535	-30.338	-25	-5.338
			2562.5	-29.04	-25	-4.04
		QPSK	2507.5	-29.902	-25	-4.902
			2535	-30.178	-25	-5.178
			2562.5	-29.825	-25	-4.825
	10	16QAM	2505	-29.451	-25	-4.451
			2535	-29.475	-25	-4.475
			2565	-29.179	-25	-4.179
		QPSK	2505	-30.162	-25	-5.162
			2535	-29.994	-25	-4.994
			2565	-28.95	-25	-3.95
	5	16QAM	2502.5	-29.741	-25	-4.741
			2535	-29.64	-25	-4.64
			2567.5	-29.111	-25	-4.111
		QPSK	2502.5	-29.91	-25	-4.91
			2535	-29.026	-25	-4.026
			2567.5	-29.76	-25	-4.76

LTE Band 17

Band	BW (MHz)	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
LTE17	10	16QAM	709	-30.746	-13	-17.746
			710	-30.475	-13	-17.475
			711	-30.79	-13	-1.424
		QPSK	709	-29.934	-13	-16.934
			710	-30.655	-13	-17.655
			711	-30.55	-13	-17.55
	5	16QAM	706.5	-30.432	-13	-17.432
			710	-30.337	-13	-17.337
			713.5	-30.026	-13	-17.026
		QPSK	706.5	-30.749	-13	-17.749
			710	-30.651	-13	-17.651
			713.5	-30.828	-13	-17.828

LTE Band 26

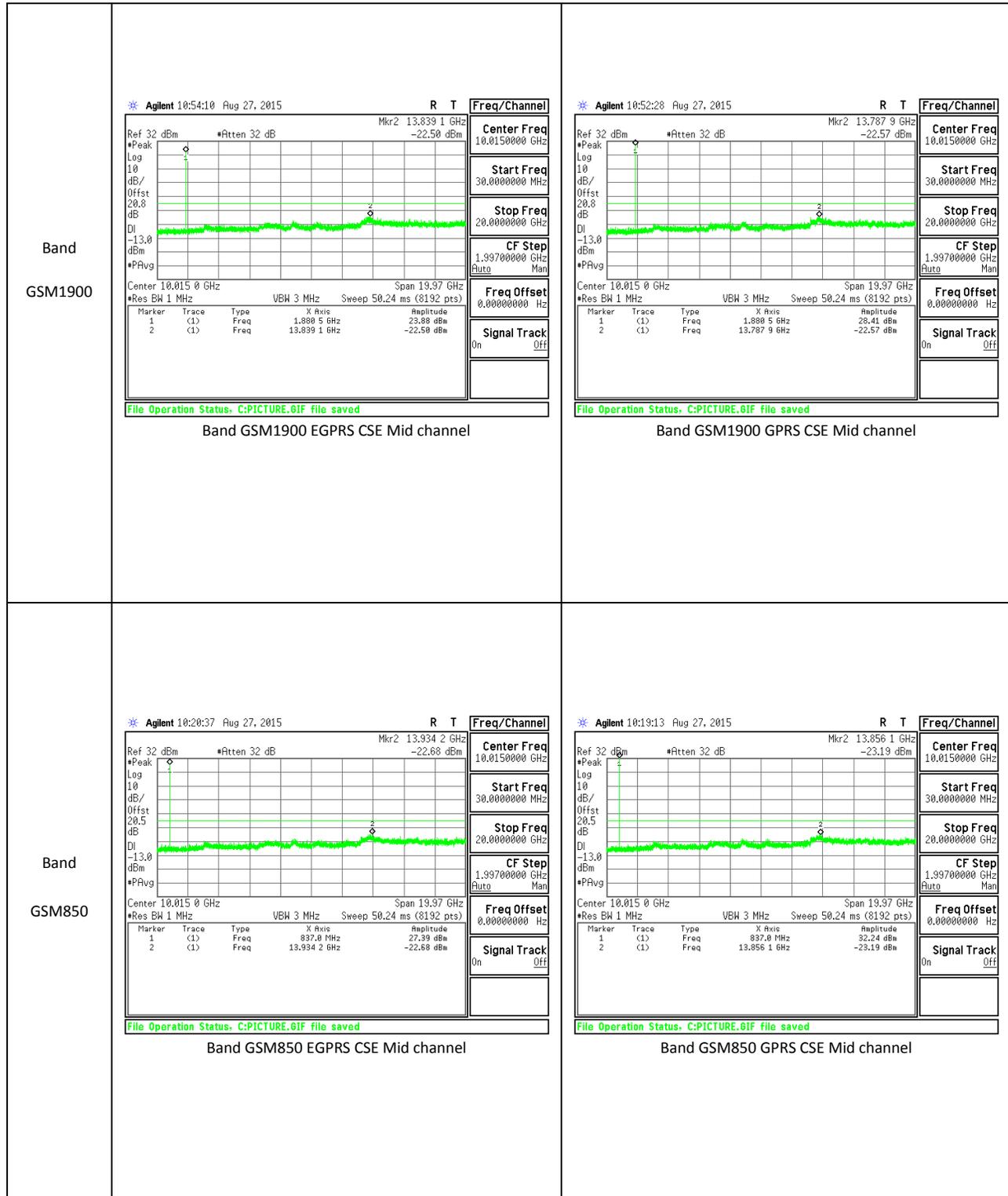
Band	BW (MHz)	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
LTE26	15	16QAM	831.5	-29.68	-13	-16.68
			836.5	-30.15	-13	-17.15
			841.5	-29.42	-13	-16.42
		QPSK	831.5	-29.78	-13	-16.78
			836.5	-30.82	-13	-17.82
			841.5	-30.33	-13	-17.33
	10	16QAM	819	-30.22	-13	-17.22
			831.5	-30.89	-13	-17.89
			844	-30.21	-13	-17.21
		QPSK	819	-30.38	-13	-17.38
			831.5	-30.78	-13	-17.78
			844	-30.2	-13	-17.2
	5	16QAM	816.5	-30.55	-13	-17.55
			831.5	-30.74	-13	-17.74
			846.5	-30.13	-13	-17.13
		QPSK	816.5	-30.51	-13	-17.51
			831.5	-30.1	-13	-17.1
			846.5	-30.84	-13	-17.84
	3	16QAM	815.5	-35.53	-13	-22.53
			831.5	-30.86	-13	-17.86
			847.5	-30.14	-13	-17.14
		QPSK	815.5	-35.14	-13	-22.14
			831.5	-29.7	-13	-16.7
			847.5	-30.53	-13	-17.53
1.4	16QAM	814.7	-36.69	-13	-23.69	
		831.5	-38.83	-13	-25.83	
		848.3	-35.83	-13	-22.83	
	QPSK	814.7	-35.03	-13	-22.03	
		831.5	-35.86	-13	-22.86	
		848.3	-36.04	-13	-23.04	

LTE Band 41

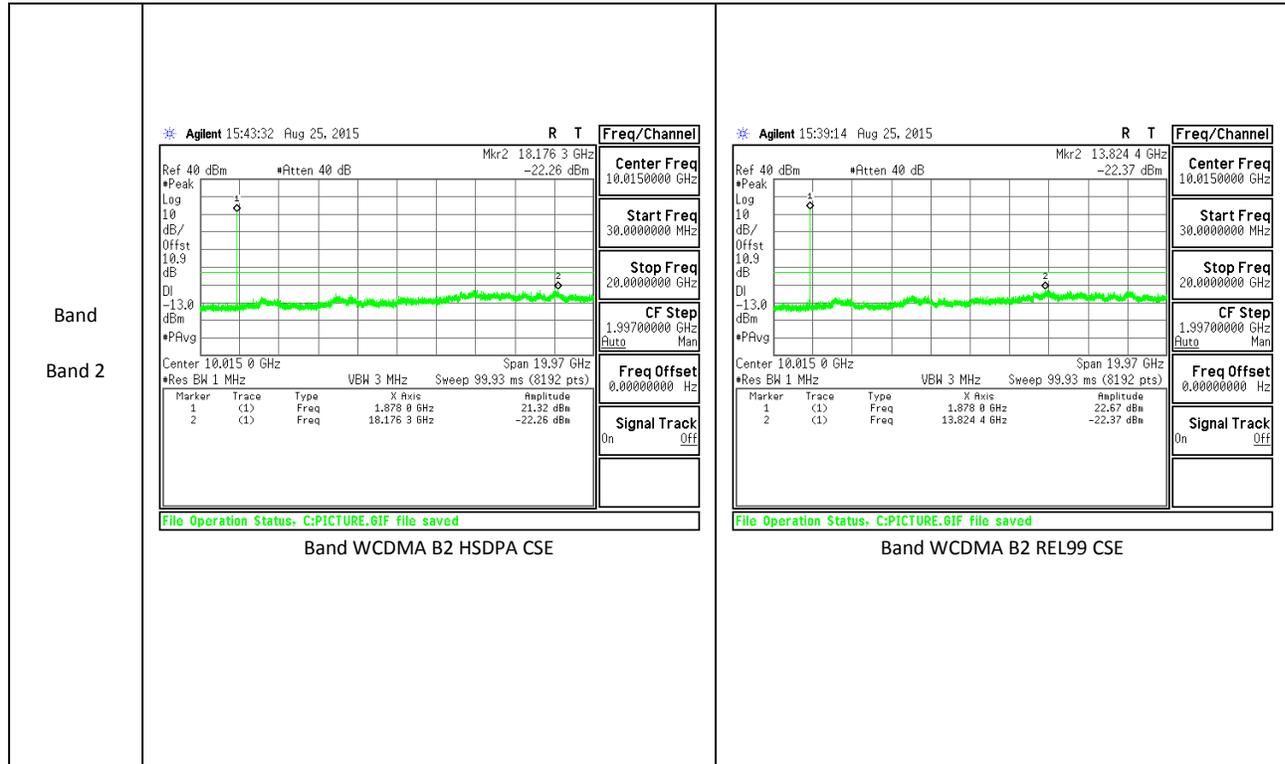
Band	BW (MHz)	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
LTE41	20	16QAM	2506	-29.94	-25	-4.94
			2593	-30.56	-25	-5.56
			2680	-29.42	-25	-4.42
		QPSK	2506	-30.37	-25	-5.37
			2593	-30.76	-25	-5.76
			2680	-30.79	-25	-5.79
	15	16QAM	2503.5	-29.5	-25	-4.5
			2593	-29.95	-25	-4.95
			2682.5	-28.67	-25	-3.67
		QPSK	2503.5	-30.44	-25	-5.44
			2593	-30.85	-25	-5.85
			2682.5	-30.06	-25	-5.06
	10	16QAM	2501	-29.48	-25	-4.48
			2593	-29.96	-25	-4.96
			2685	-30.65	-25	-5.65
		QPSK	2501	-30.42	-25	-5.42
			2593	-30.93	-25	-5.93
			2685	-30.2	-25	-5.2
	5	16QAM	2498.5	-29.57	-25	-4.57
			2593	-30.36	-25	-5.36
			2687.5	-30.11	-25	-5.11
		QPSK	2498.5	-30.9	-25	-5.9
			2593	-30.34	-25	-5.34
			2687.5	-30.38	-25	-5.38

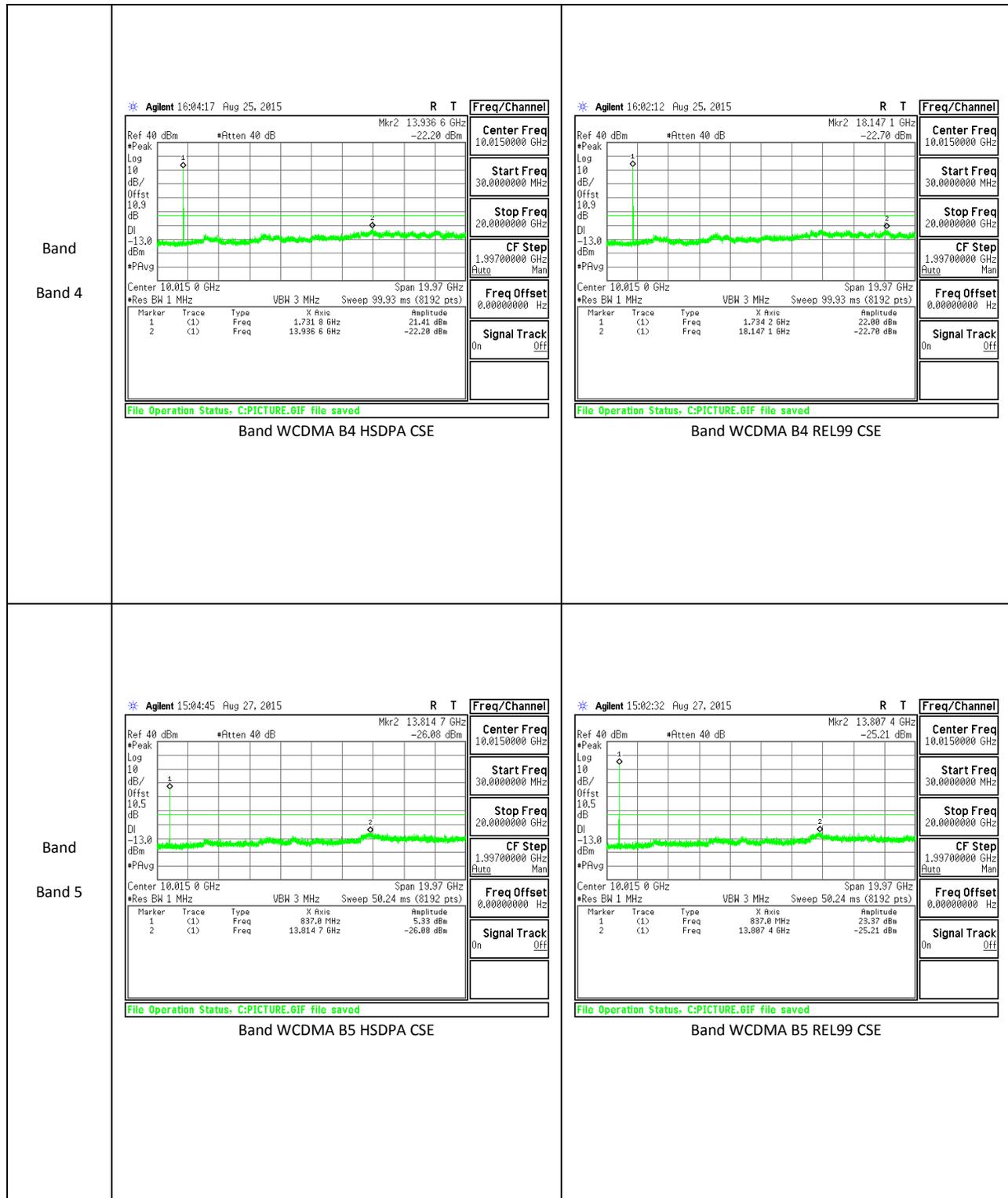
10.3.2. OUT OF BAND EMISSIONS PLOTS

GSM

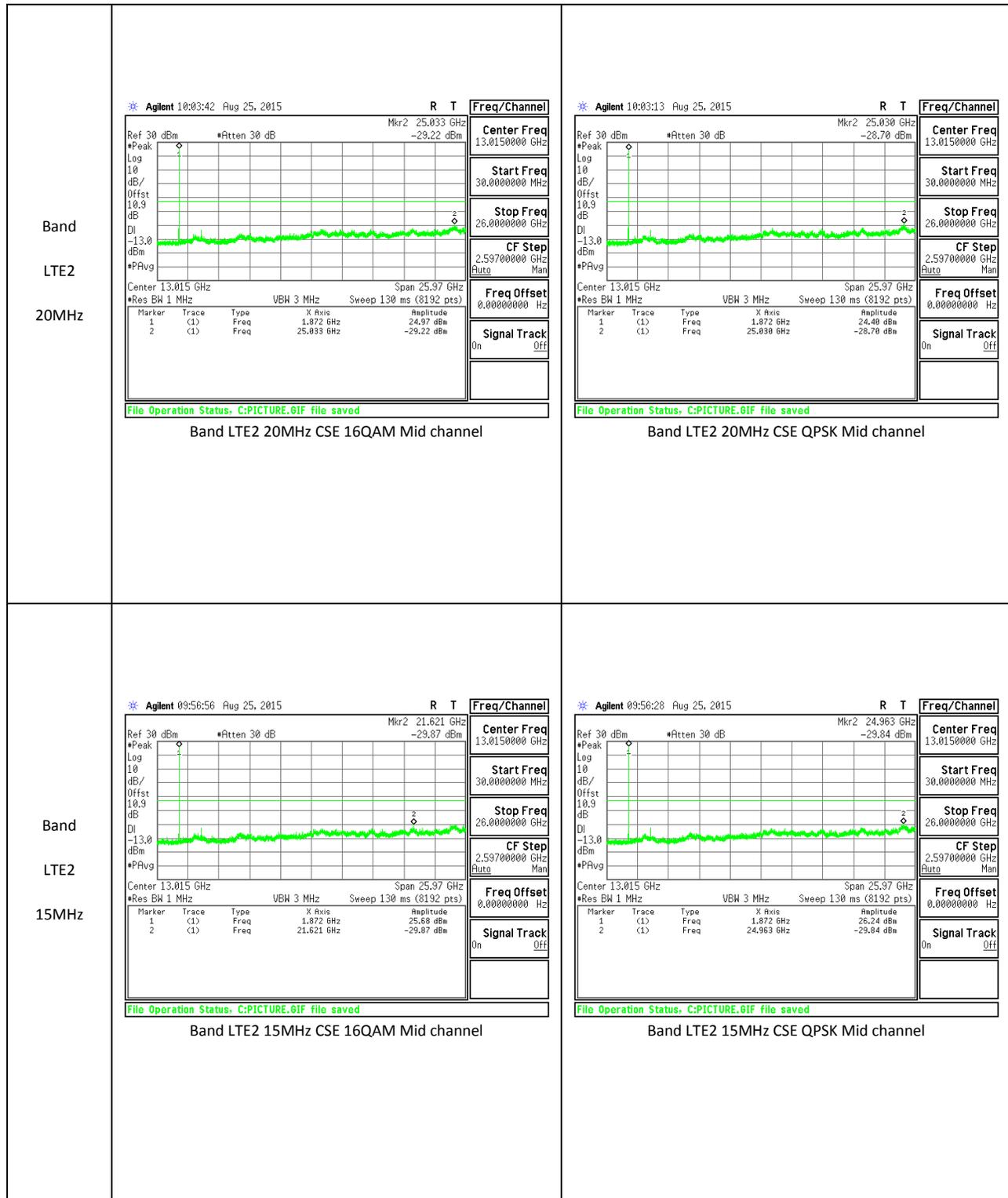


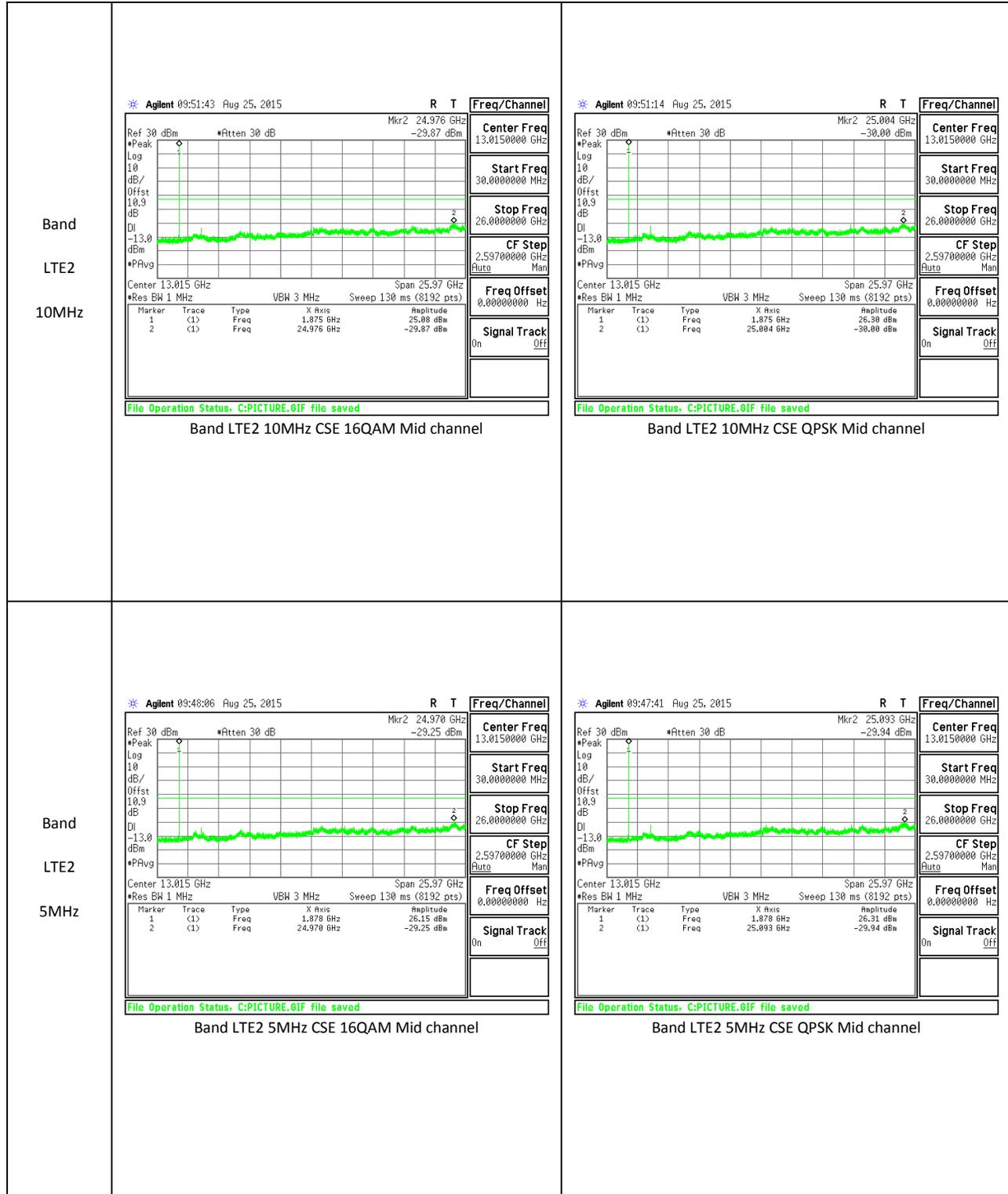
WCDMA

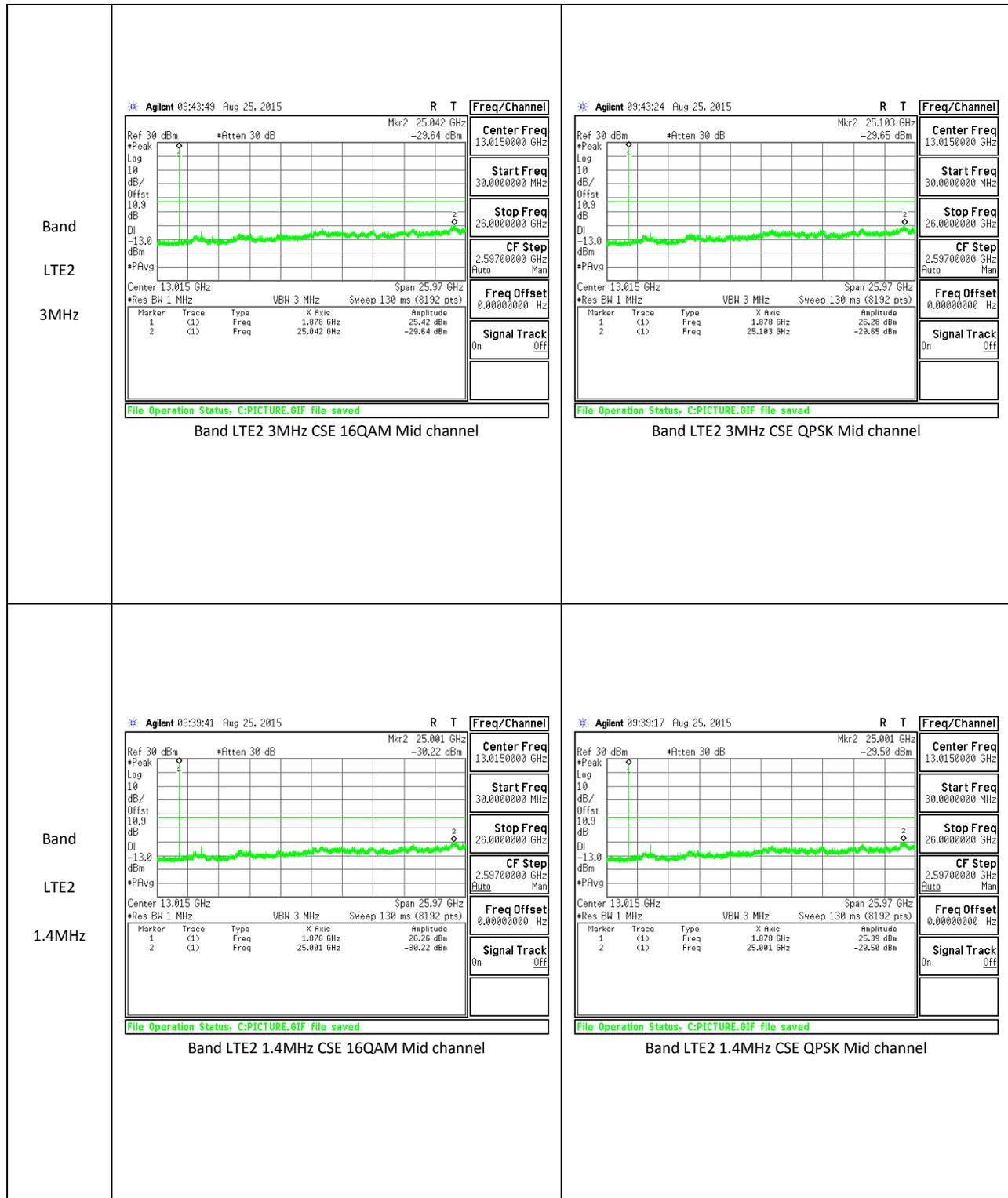




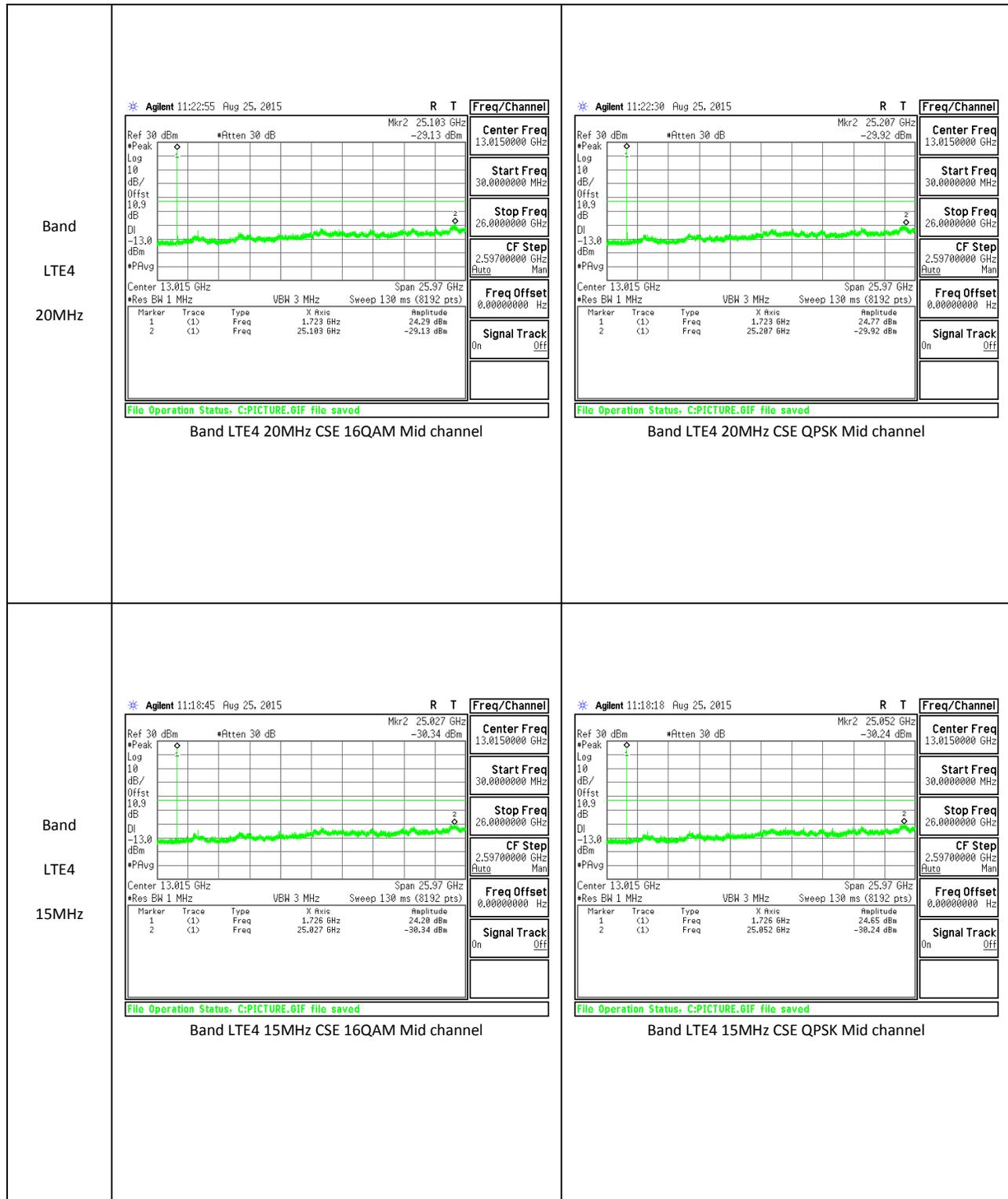
LTE Band 2

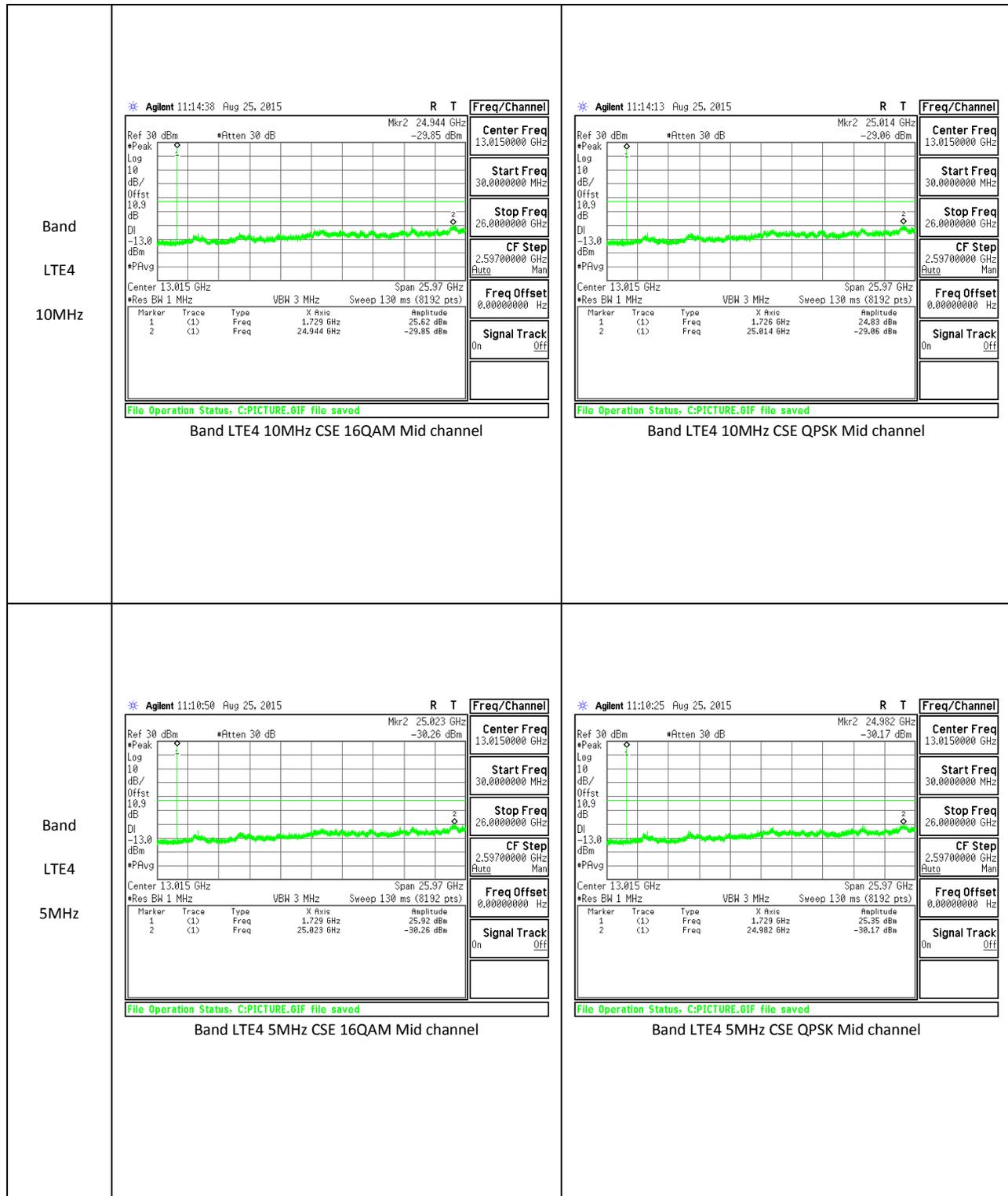


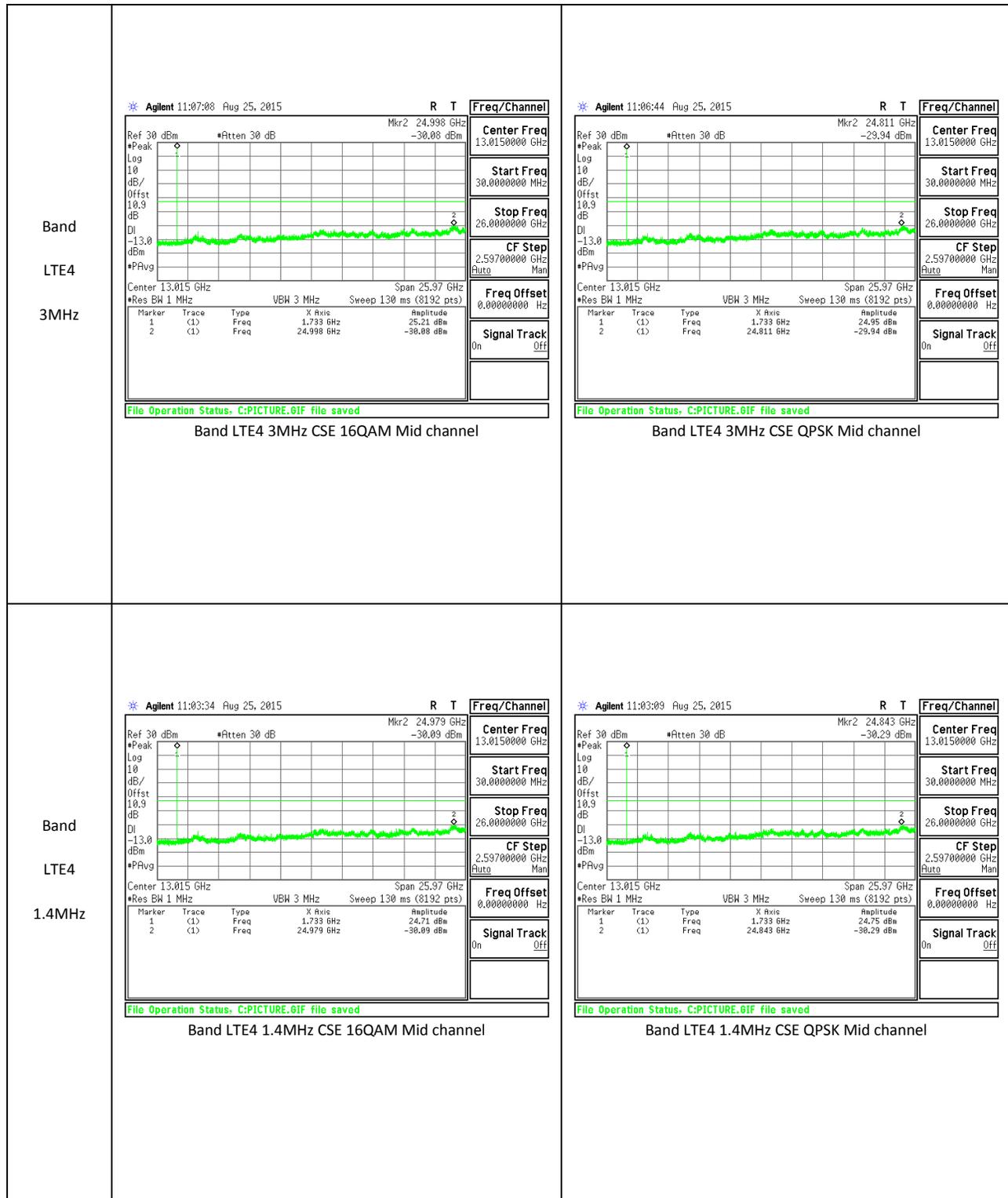




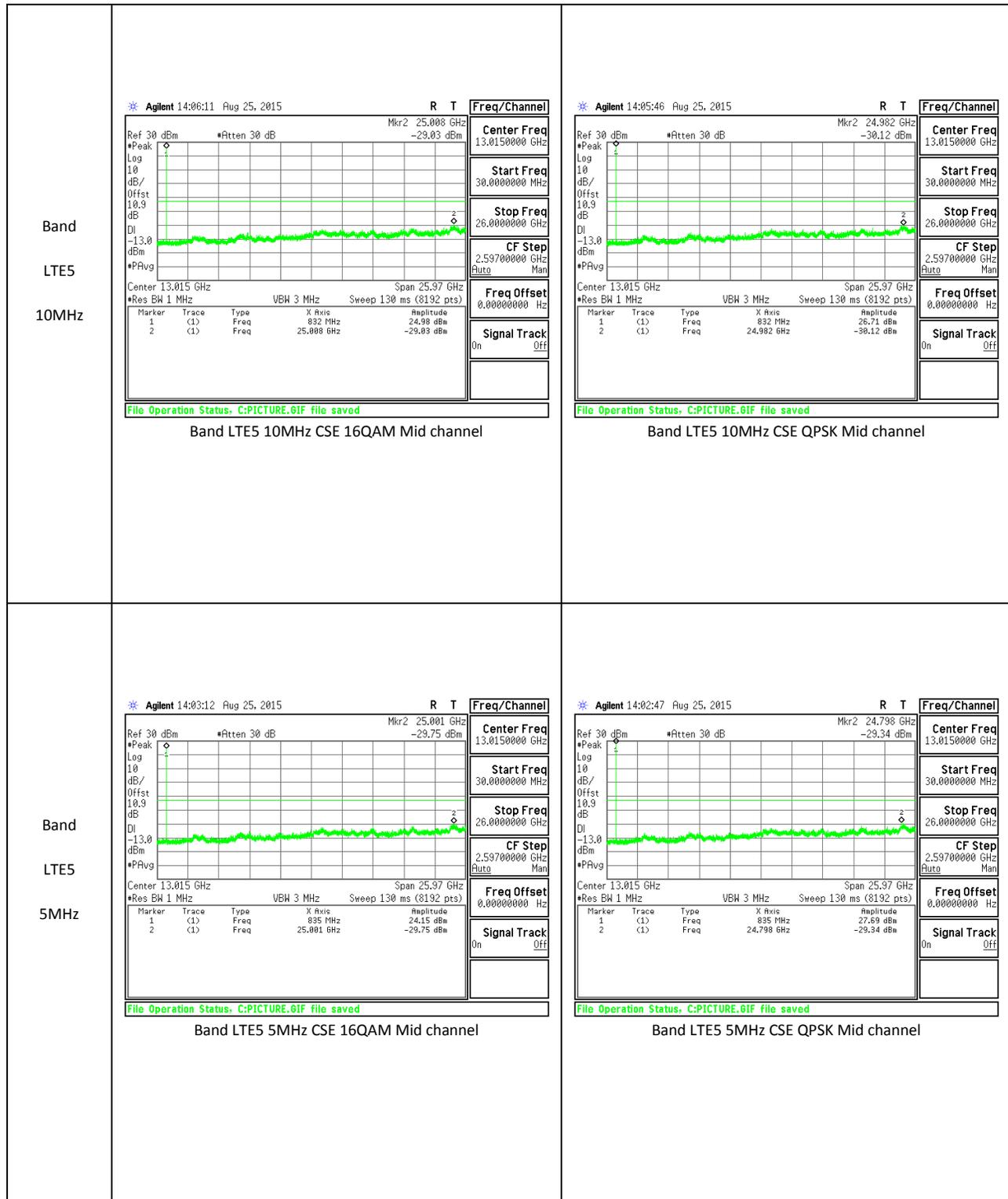
LTE Band 4

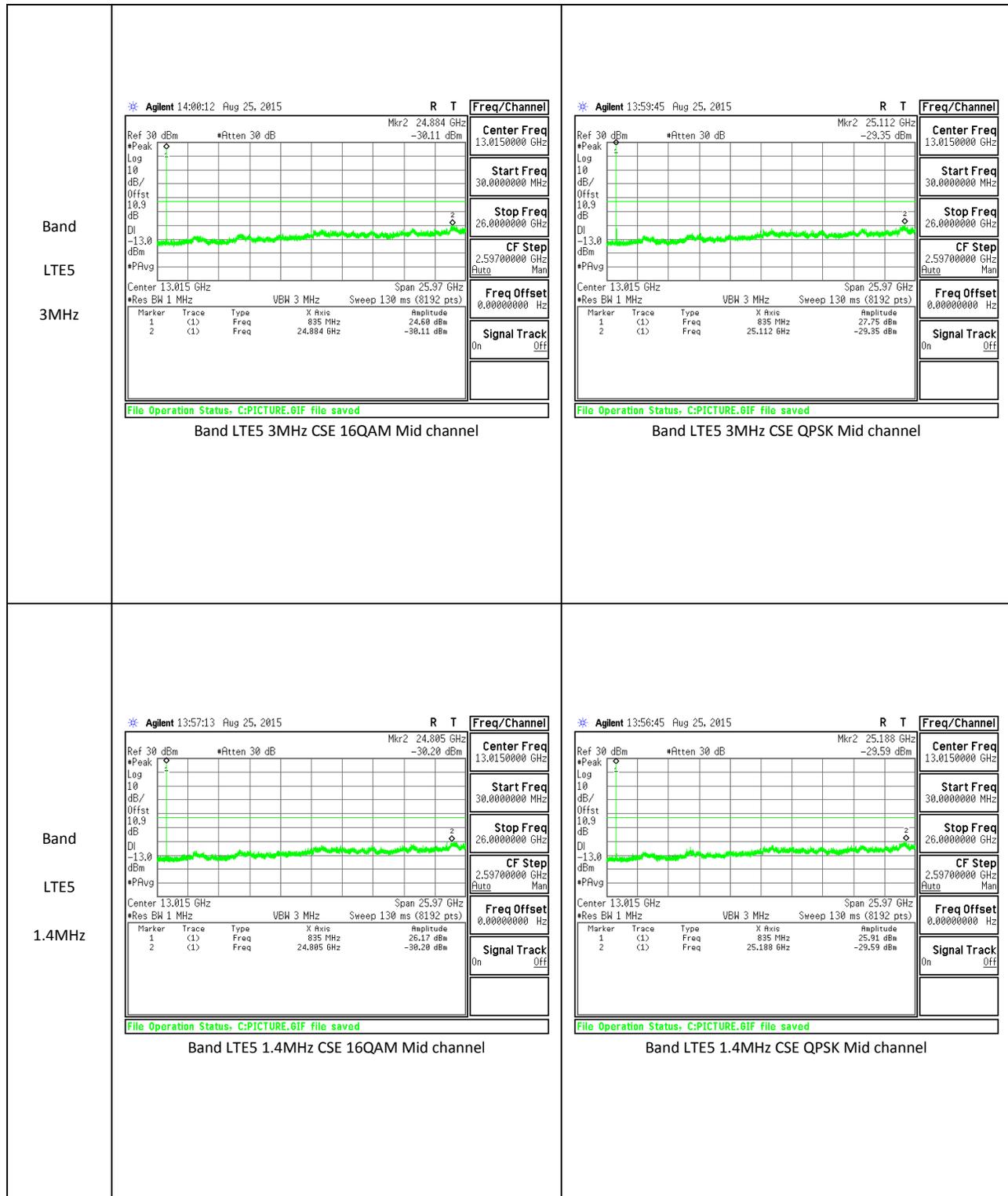




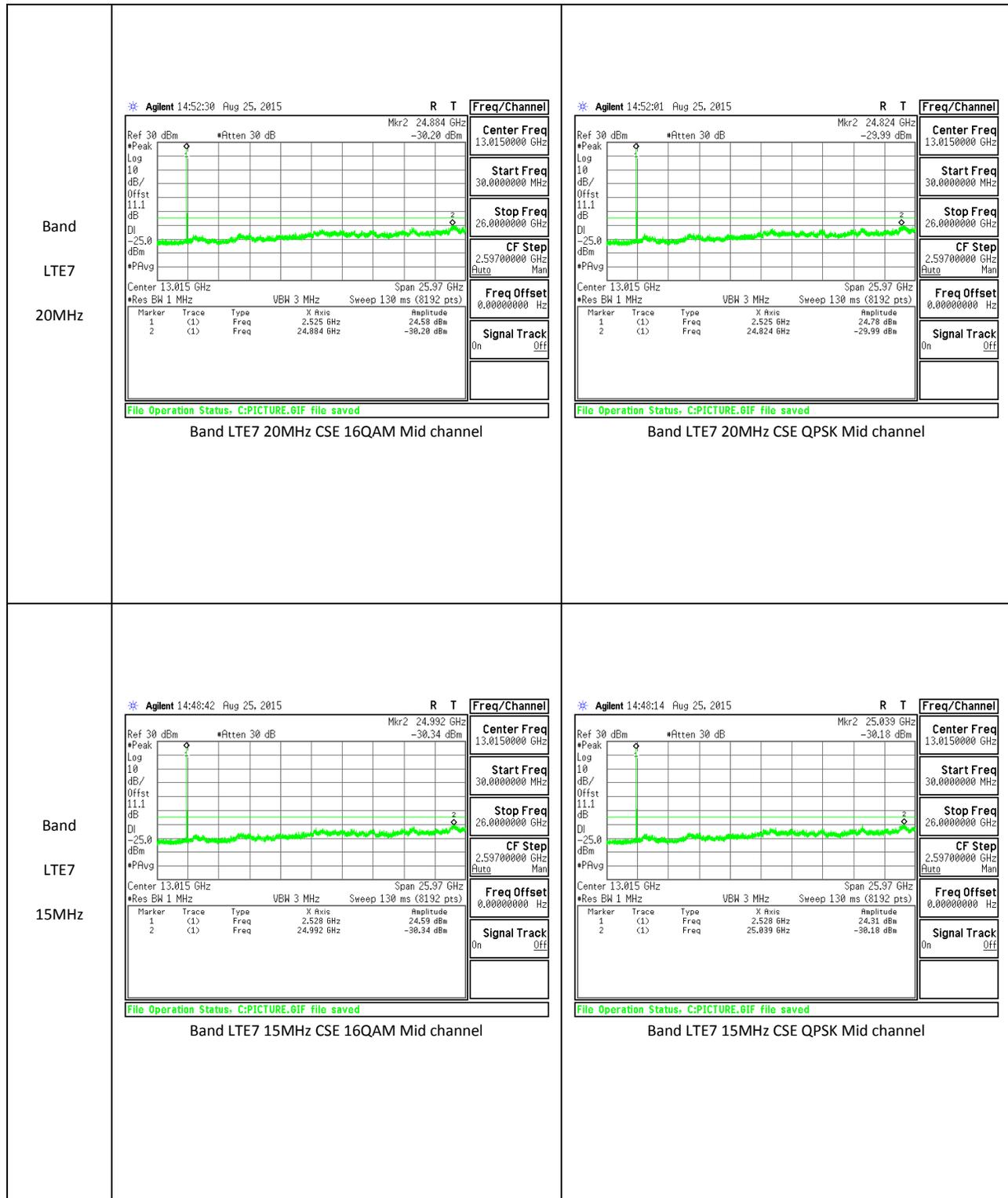


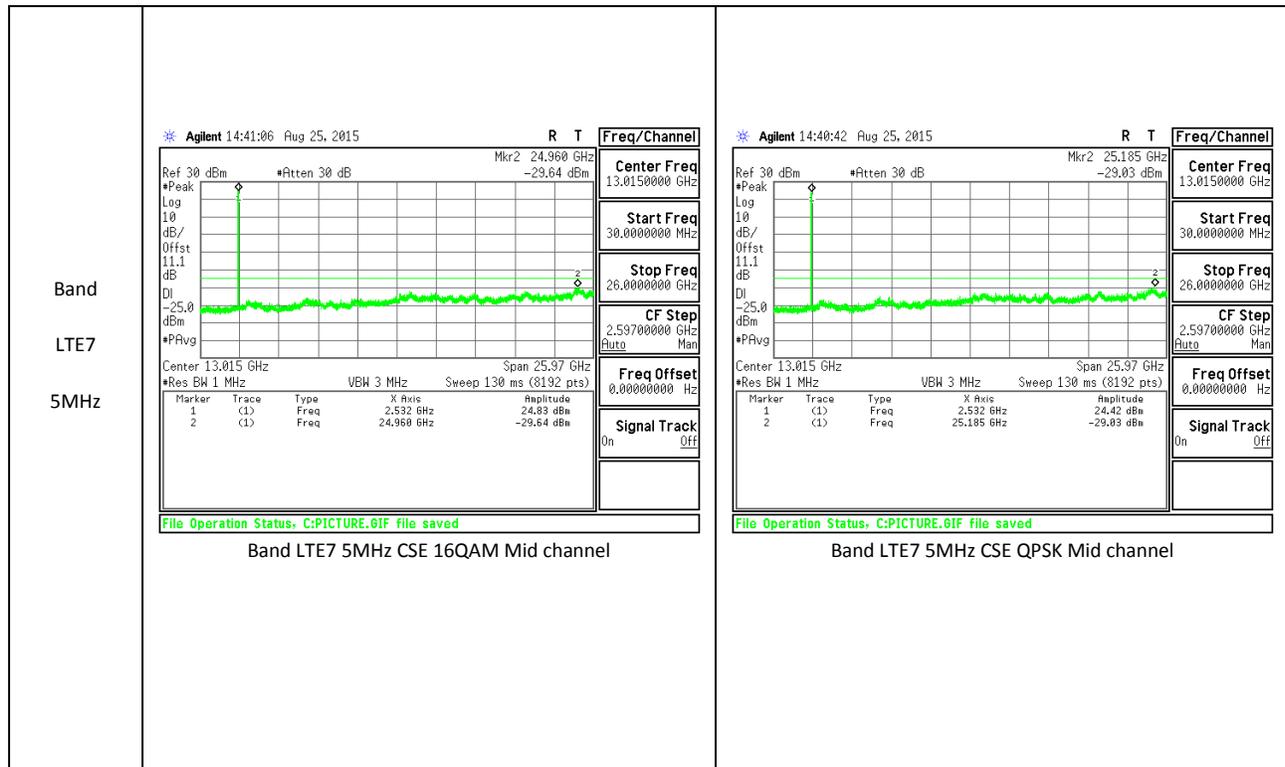
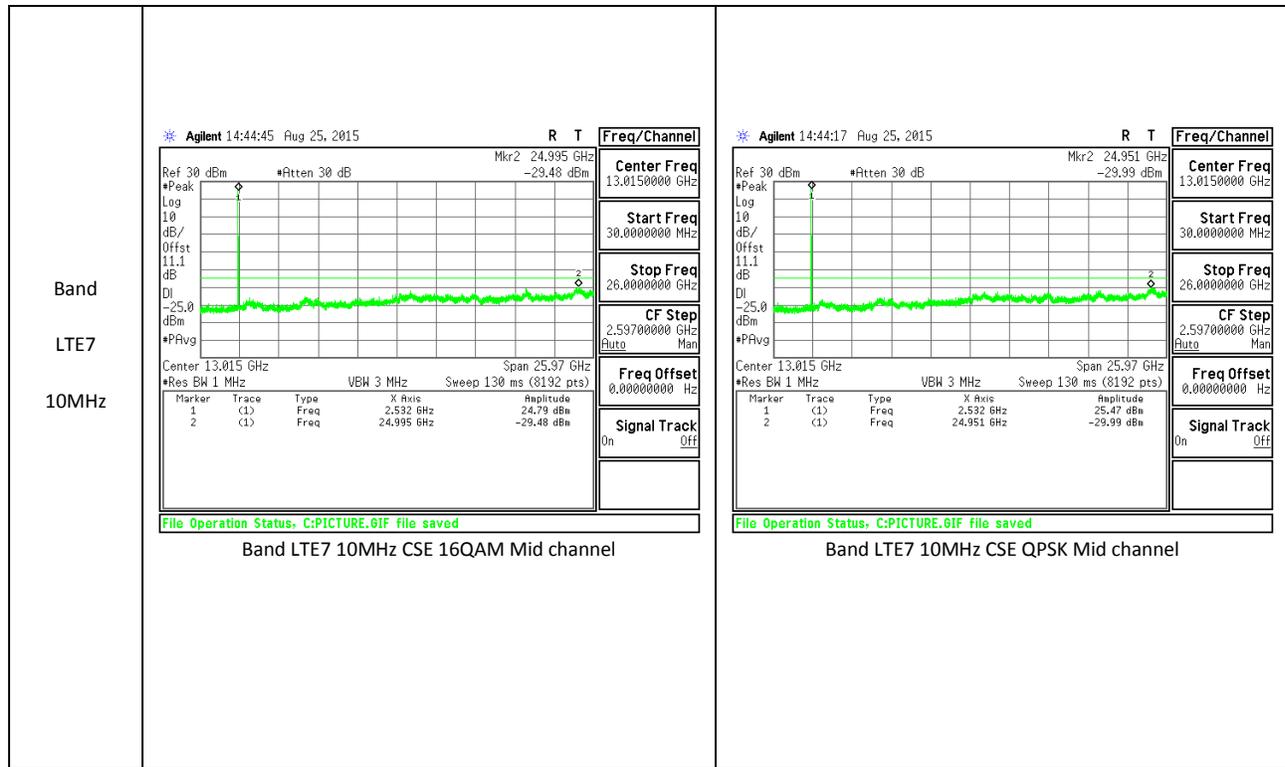
LTE Band 5



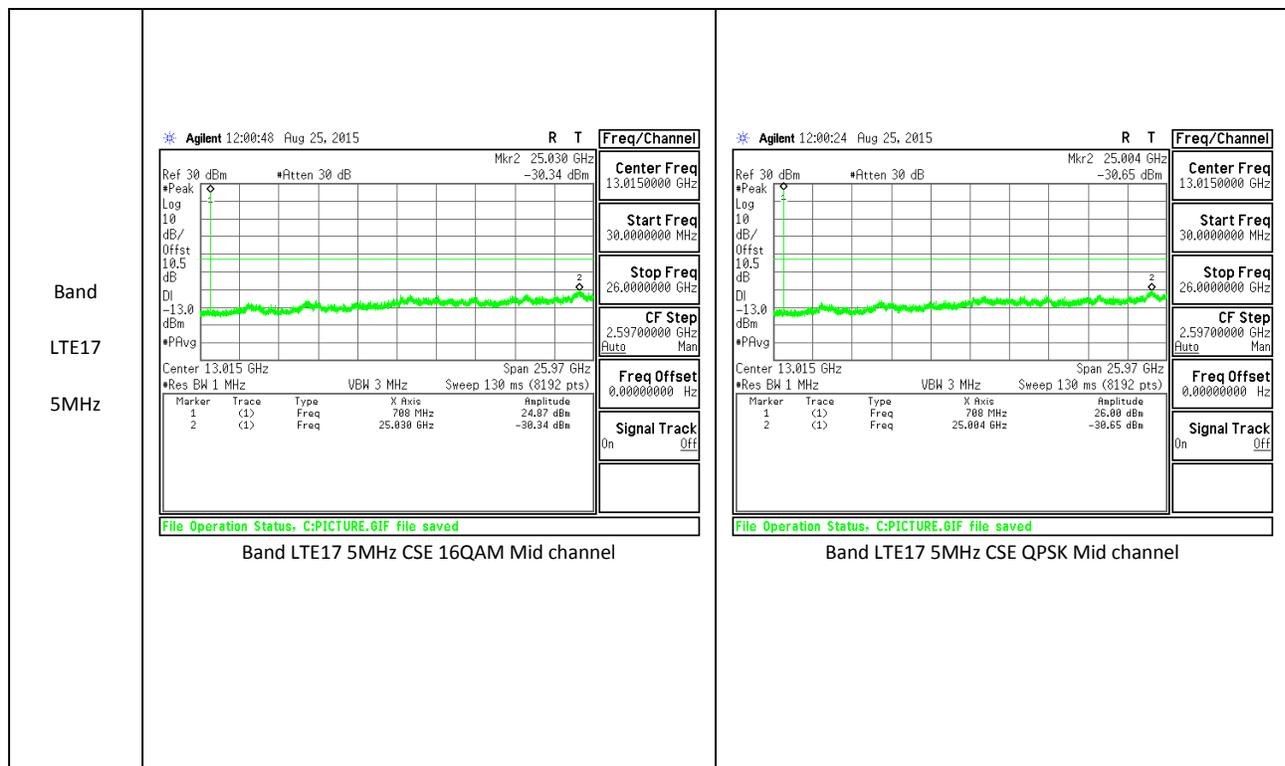
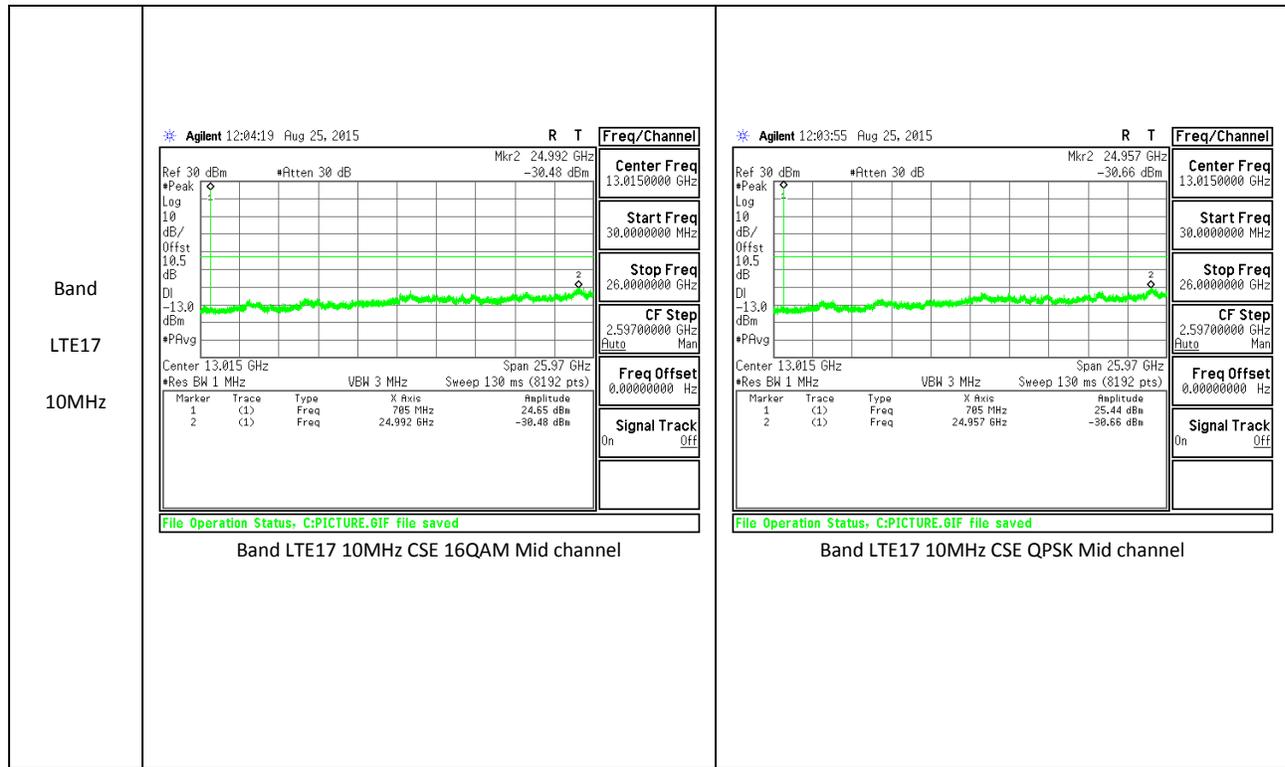


LTE Band 7

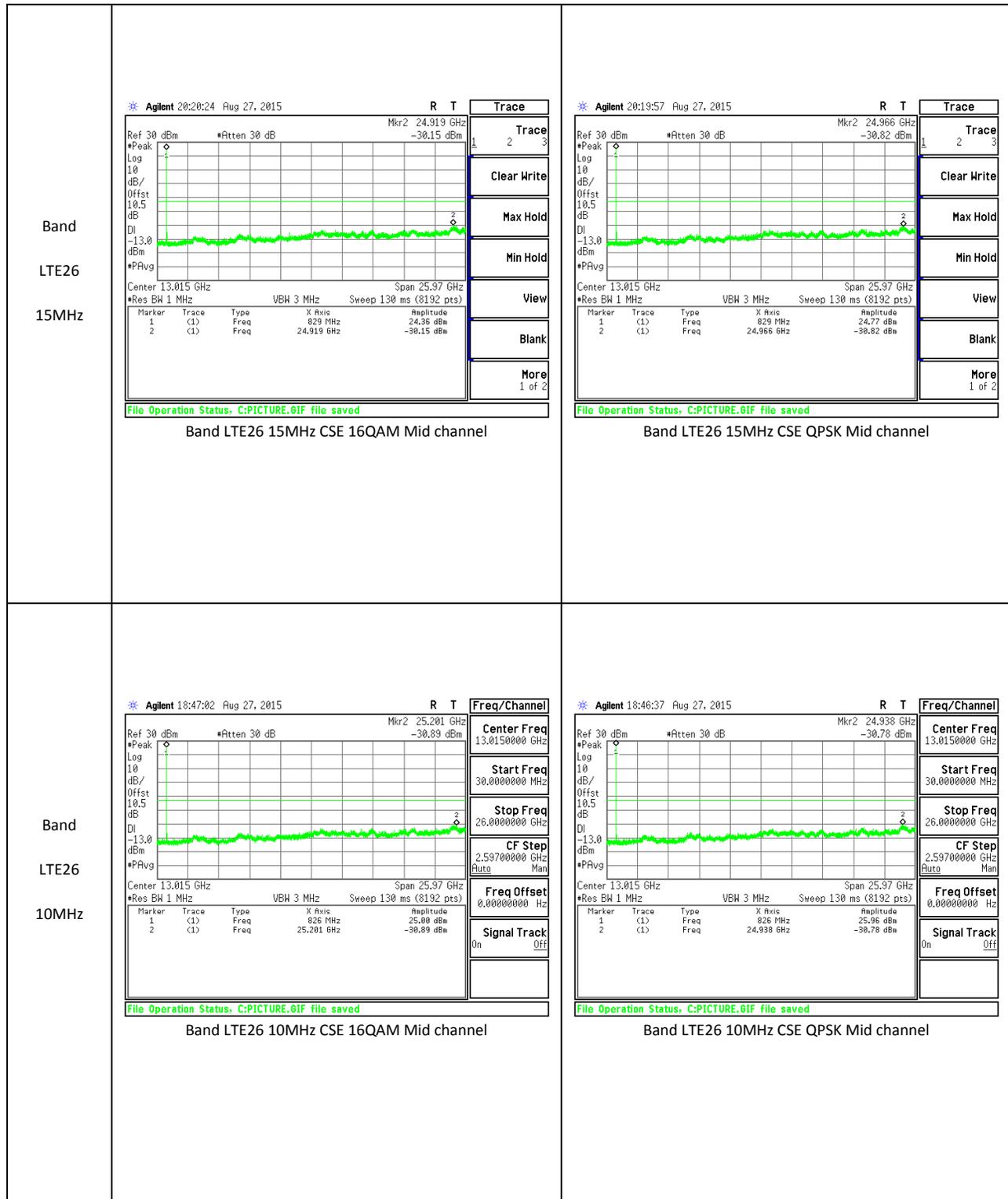


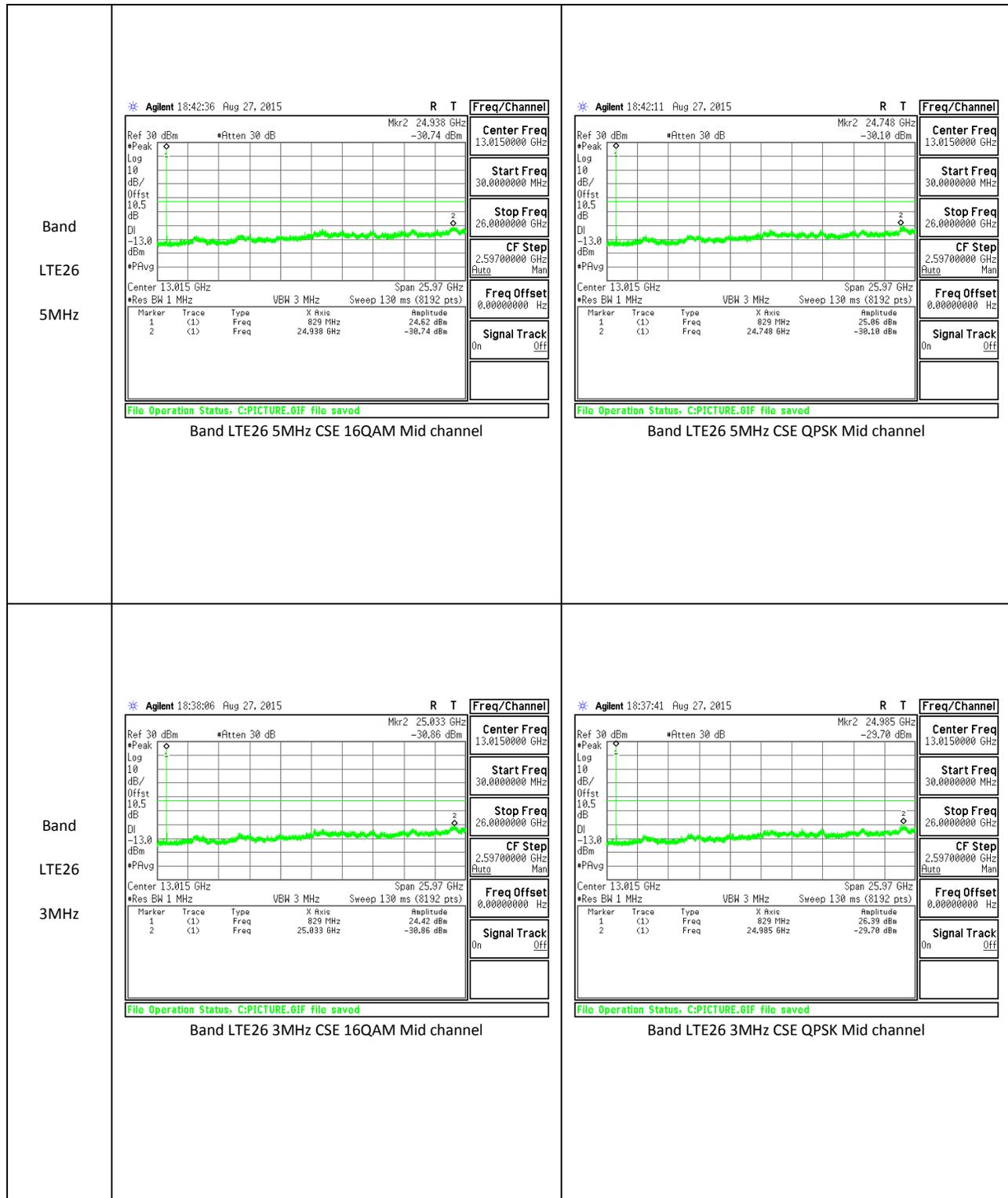


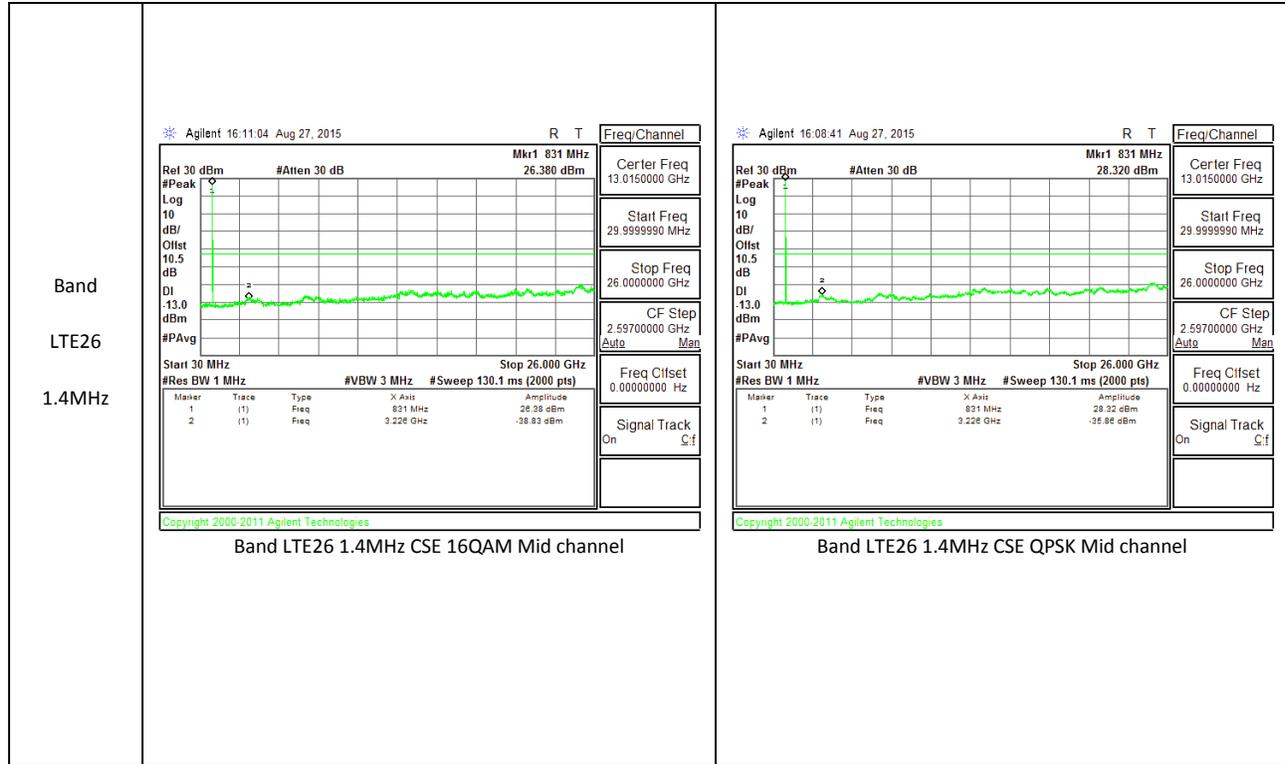
LTE Band 17



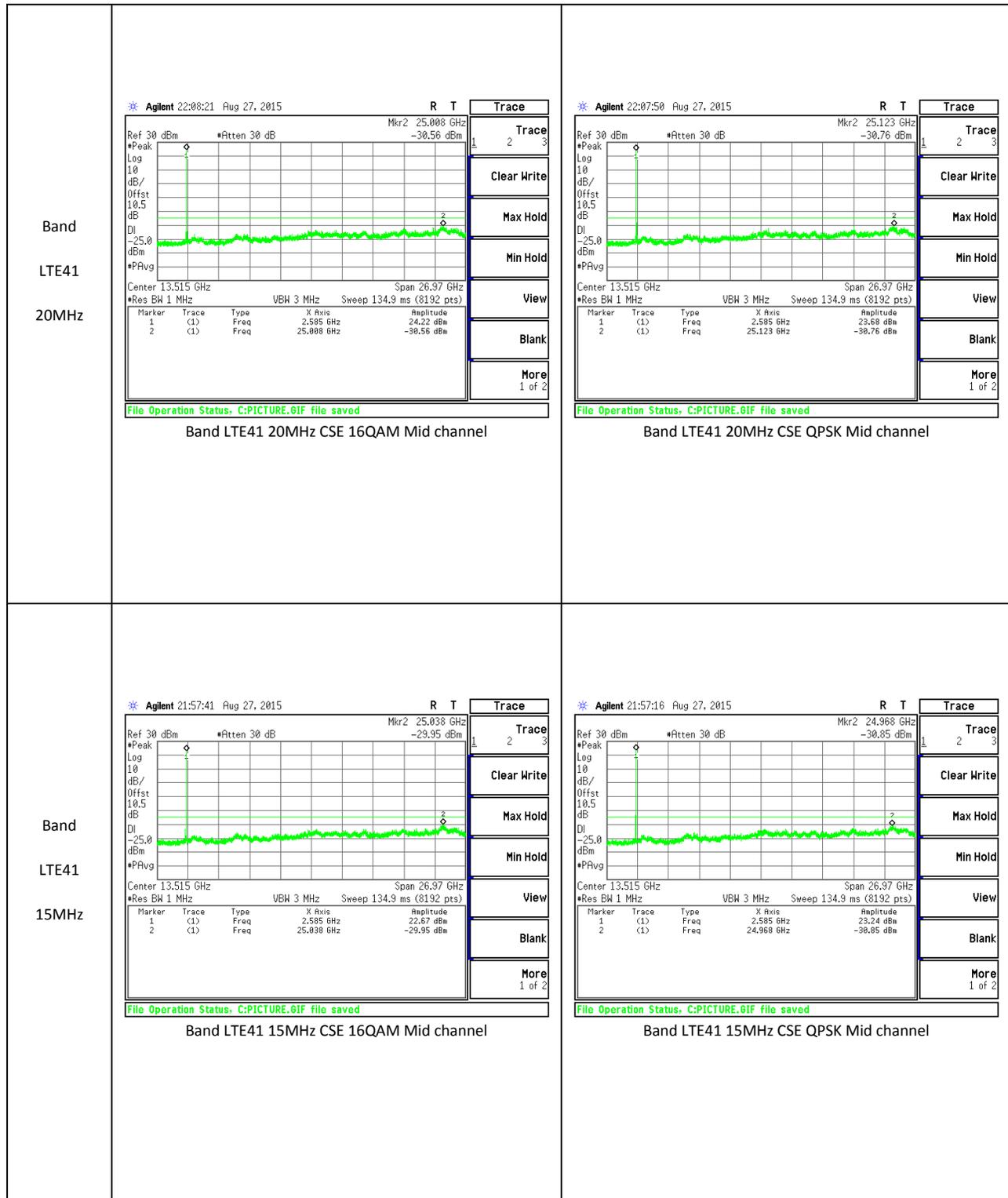
LTE Band 26

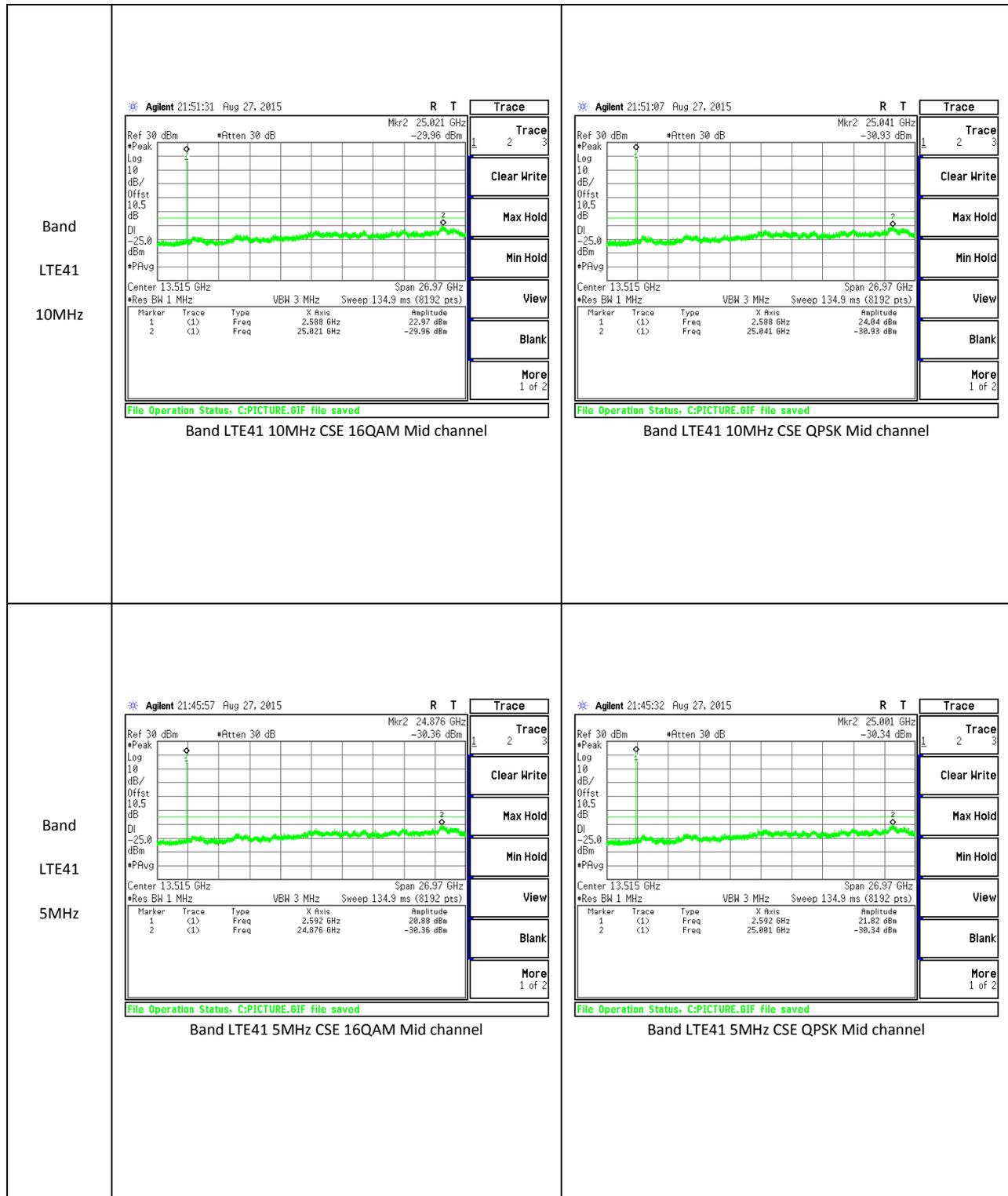






LTE Band 41





11. RADIATED TEST RESULTS

11.1. RADIATED POWER (ERP & EIRP)

RULE PART(S)

FCC: §2.1046, §22.913, §24.232, §27 and § 90.635.

LIMITS

22.913(a) - The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts.

24.232(c) - Mobile/portable stations are limited to 2 watts e.i.r.p. peak power and the equipment must employ means to limit the power to the minimum necessary for successful communications.

27.50(b) - (10) Portable stations (hand-held devices) transmitting in the 746-757 MHz, 776-788 MHz, and 805-806 MHz bands are limited to 3 watts ERP. (LTE B13)

27.50(c) - (10) Portable stations (hand-held devices) are limited to 3 watts ERP; (LTE B17)

27.50(d) - (4) Fixed, mobile, and portable (hand-held) stations operating in the 1710-1755 MHz band and mobile and portable stations operating in the 1695-1710 MHz and 1755-1780 MHz bands are limited to 1 watt EIRP.(Band 4)

27.50(h) - (2) Mobile stations are limited to 2.0 watts EIRP. All user stations are limited to 2.0 watts transmitter output power.(LTE B41 & 7)

90.635(b) - The maximum output power of the transmitter for mobile stations is 100 watts (20 dBw). (LTE B26)

In addition, when the transmitter power is measured in terms of average value, the peak-to-average ratio of the power shall not exceed 13dB.

TEST PROCEDURE

ANSI / TIA / EIA 603C Clause 2.2.17; PSA setting reference to 971168 D01 v02r02

For peak power measurement with a PSA:

a) Set the RBW \geq OBW; b) Set VBW $\geq 3 \times$ RBW; c) Set span $\geq 2 \times$ RBW; d) Sweep time = auto couple; e) Detector = peak; f) Ensure that the number of measurement points \geq span/RBW; g) Trace mode = max hold;

For average power measurement with a PSA:

a) Set span to at least 1.5 times the OBW; b) Set RBW = 1-5% of the OBW, not to exceed 1 MHz; c) Set VBW $\geq 3 \times$ RBW; d) Set number of points in sweep $\geq 2 \times$ span / RBW; e) Sweep time = auto-couple; f) Detector = RMS (power averaging); g) Use free run trigger If burst duty cycle ≥ 98 ; h) Use trigger to capture bursts If burst duty cycle < 98 ; i) Trace average at least 100 traces in power averaging (*i.e.*, RMS) mode. j) Compute the power by integrating the spectrum across the OBW of the signal using the instrument's band power measurement function.

MODES TESTED

GSM, WCDMA, and LTE

TEST RESULTS

11.1.1. ERP/EIRP Results

GSM

Band	Mode	Channel	f(MHz)	ERP / EIRP	
				dBm	mW
GSM1900	GPRS	512	1850.2	30.89	1227.44
		661	1880	31.04	1270.57
		810	1909.8	30.22	1051.96
	EGPRS	512	1850.2	26.02	399.94
		661	1880	26.44	440.55
		810	1909.8	26.12	409.26

Band	Mode	Channel	f(MHz)	ERP / EIRP	
				dBm	mW
GSM850	GPRS	128	824.2	29.95	988.55
		190	836.6	29.35	860.99
		251	848.8	29.05	803.53
	EGPRS	128	824.2	25.52	356.45
		190	836.6	24.95	312.61
		251	848.8	24.65	291.74

WCDMA

Band	Mode	Channel	f(MHz)	ERP / EIRP	
				dBm	mW
Band 2	REL99	9262	1852.4	25.17	328.85
		9400	1880	24.69	294.44
		9538	1907.6	24.31	269.77
	HSDPA	9262	1852.4	24.88	307.61
		9400	1880	24.36	272.90
		9538	1907.6	24.06	254.68

Band	Mode	Channel	f(MHz)	ERP / EIRP	
				dBm	mW
Band 4	REL99	1312	1712.4	22.70	186.21
		1413	1732.6	22.81	190.99
		1513	1752.6	22.66	184.50
	HSDPA	1312	1712.4	22.04	159.96
		1413	1732.6	21.96	157.04
		1513	1752.6	21.51	141.58

Band	Mode	Channel	f(MHz)	ERP / EIRP	
				dBm	mW
Band 5	REL99	4132	826.4	19.90	97.72
		4183	836.6	19.30	85.11
		4233	846.6	19.0	79.43
	HSDPA	4132	826.4	19.4	87.10
		4183	836.6	19.0	79.43
		4233	846.6	19.0	79.43

LTE Band 2

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE2	20	QPSK	1/0	1860	24.17	261.22
			1/0	1880	24.47	279.90
			1/0	1900	24.30	269.15
		16QAM	1/0	1860	23.26	211.84
			1/0	1880	23.87	243.78
			1/0	1900	23.25	211.35

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE2	15	QPSK	1/0	1857.5	24.27	267.30
			1/0	1880	24.10	257.04
			1/0	1902.5	24.20	263.03
		16QAM	1/0	1857.5	23.07	202.77
			1/0	1880	23.86	243.22
			1/0	1902.5	22.98	198.61

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE2	10	QPSK	1/0	1855	24.37	273.53
			1/0	1880	24.54	284.45
			1/0	1905	24.45	278.61
		16QAM	1/0	1855	23.05	201.84
			1/0	1880	23.90	245.47
			1/0	1905	23.30	213.80

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE2	5	QPSK	1/0	1852.5	24.25	266.07
			1/0	1880	24.69	294.44
			1/0	1907.5	24.21	263.63
		16QAM	1/0	1852.5	23.07	202.77
			1/0	1880	23.75	237.14
			1/0	1907.5	23.30	213.80

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE2	3	QPSK	1/0	1851.5	24.17	261.22
			1/0	1880	24.74	297.85
			1/0	1908.5	24.53	283.79
		16QAM	1/0	1851.5	23.31	214.29
			1/0	1880	23.54	225.94
			1/0	1908.5	23.28	212.81

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE2	1.4	QPSK	1/0	1850.7	24.25	266.07
			1/0	1880	24.69	294.44
			1/0	1909.3	24.23	264.85
		16QAM	1/0	1850.7	23.07	202.77
			1/0	1880	23.71	234.96
			1/0	1909.3	23.58	228.03

LTE Band 4

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE4	20	QPSK	1/0	1720	25.98	396.28
			1/0	1732.5	25.80	380.19
			1/0	1745	24.53	283.79
		16QAM	1/0	1720	25.38	345.14
			1/0	1732.5	25.0	316.23
			1/0	1745	23.49	223.36

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE4	15	QPSK	1/0	1717.5	25.94	392.64
			1/0	1732.5	25.81	381.07
			1/0	1747.5	24.61	289.07
		16QAM	1/0	1717.5	25.46	351.56
			1/0	1732.5	25.02	317.69
			1/0	1747.5	23.67	232.81

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE4	10	QPSK	1/0	1715	26.05	402.72
			1/0	1732.5	25.81	381.07
			1/0	1750	24.62	289.73
		16QAM	1/0	1715	25.44	349.95
			1/0	1732.5	25.05	319.89
			1/0	1750	23.71	234.96

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE4	5	QPSK	1/0	1712.5	26.05	402.72
			1/0	1732.5	25.81	381.07
			1/0	1752.5	24.51	282.49
		16QAM	1/0	1712.5	25.41	347.54
			1/0	1732.5	25.08	322.11
			1/0	1752.5	23.90	245.47

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE4	3	QPSK	1/0	1711.5	26.07	404.58
			1/0	1732.5	25.82	381.94
			1/0	1753.5	24.52	283.14
		16QAM	1/0	1711.5	25.43	349.14
			1/0	1732.5	25.03	318.42
			1/0	1753.5	23.69	233.88

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE4	1.4	QPSK	1/0	1710.7	26.1	407.38
			1/0	1732.5	25.76	376.70
			1/0	1754.3	24.51	282.49
		16QAM	1/0	1710.7	25.45	350.75
			1/0	1732.5	25.03	318.42
			1/0	1754.3	23.66	232.27

LTE Band 5

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE5	10	QPSK	1/0	829	21.59	144.21
			1/0	836.5	21.14	130.02
			1/0	844	21.26	133.66
		16QAM	1/0	829	21.28	134.28
			1/0	836.5	20.89	122.74
			1/0	844	20.98	125.31

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE5	5	QPSK	1/0	826.5	21.08	128.23
			1/0	836.5	20.90	123.03
			1/0	846.5	20.68	116.95
		16QAM	1/0	826.5	20.73	118.30
			1/0	836.5	20.75	118.85
			1/0	846.5	20.46	111.17

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE5	3	QPSK	1/0	825.5	21.50	141.25
			1/0	836.5	20.66	116.41
			1/0	847.5	21.69	147.57
		16QAM	1/0	825.5	21.25	133.35
			1/0	836.5	20.09	102.09
			1/0	847.5	21.37	137.09

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE5	1.4	QPSK	1/0	824.7	21.77	150.31
			1/0	836.5	21.54	142.56
			1/0	848.3	22.17	164.82
		16QAM	1/0	824.7	21.58	143.88
			1/0	836.5	20.69	117.22
			1/0	848.3	21.76	149.97

LTE Band 7

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP (Peak)	
					dBm	mW
LTE7	20	QPSK	1/0	2510	20.35	108.39
			1/0	2535	20.51	112.46
			1/0	2560	20.86	121.90
		16QAM	1/0	2510	19.80	95.50
			1/0	2535	19.90	97.72
			1/0	2560	19.74	94.19

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP (Peak)	
					dBm	mW
LTE7	15	QPSK	1/0	2507.5	20.48	111.69
			1/0	2535	20.42	110.15
			1/0	2562.5	20.91	123.31
		16QAM	1/0	2507.5	19.97	99.31
			1/0	2535	19.57	90.57
			1/0	2562.5	20.12	102.80

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP (Peak)	
					dBm	mW
LTE7	10	QPSK	1/0	2505	20.45	110.92
			1/0	2535	20.58	114.29
			1/0	2565	20.71	117.76
		16QAM	1/0	2505	19.82	95.94
			1/0	2535	19.90	97.72
			1/0	2565	19.87	97.05

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP (Peak)	
					dBm	mW
LTE7	5	QPSK	1/0	2502.5	20.38	109.14
			1/0	2535	20.65	116.14
			1/0	2567.5	20.68	116.95
		16QAM	1/0	2502.5	19.85	96.61
			1/0	2535	19.95	98.86
			1/0	2567.5	19.93	98.40

LTE Band 17

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE17	10	QPSK	1/0	709	17.20	52.48
			1/0	710	17.0	50.12
			1/0	711	17.21	52.60
		16QAM	1/0	709	16.39	43.55
			1/0	710	16.34	43.05
			1/0	711	16.43	43.95

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE17	5	QPSK	1/0	706.5	17.11	51.40
			1/0	710	17.1	51.29
			1/0	713.5	17.11	51.40
		16QAM	1/0	706.5	16.31	42.76
			1/0	710	16.35	43.15
			1/0	713.5	16.30	42.66

LTE Band 26

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE26	15	QPSK	1/0	831.5	21.20	131.83
			1/0	836.5	21.18	131.22
			1/0	841.5	21.0	125.89
		16QAM	1/0	831.5	20.90	123.03
			1/0	836.5	20.88	122.46
			1/0	841.5	20.70	117.49

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE26	10	QPSK	1/0	819	20.90	123.03
			1/0	831.5	21.08	128.23
			1/0	844	20.30	107.15
		16QAM	1/0	819	20.70	117.49
			1/0	831.5	20.78	119.67
			1/0	844	20.10	102.33

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE26	5	QPSK	1/0	816.5	22.31	170.22
			1/0	831.5	20.78	119.67
			1/0	846.5	20.0	100.00
		16QAM	1/0	816.5	21.63	145.55
			1/0	831.5	20.92	123.59
			1/0	846.5	20.30	107.15

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE26	3	QPSK	1/0	815.5	21.93	155.96
			1/0	831.5	20.98	125.31
			1/0	847.5	20.20	104.71
		16QAM	1/0	815.5	21.73	148.94
			1/0	831.5	20.58	114.29
			1/0	847.5	19.90	97.72

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE26	1.4	QPSK	1/0	814.7	21.73	148.94
			1/0	831.5	20.88	122.46
			1/0	848.3	20.10	102.33
		16QAM	1/0	814.7	21.43	139.00
			1/0	831.5	20.68	116.95
			1/0	848.3	19.90	97.72

LTE Band 41

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP (Peak)	
					dBm	mW
LTE41	20	QPSK	1/0	2506	18.47	70.31
			1/0	2593	21.0	125.89
			1/0	2680	20.22	105.20
		16QAM	1/0	2506	17.95	62.37
			1/0	2593	20.47	111.43
			1/0	2680	19.44	87.90

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP (Peak)	
					dBm	mW
LTE41	15	QPSK	1/0	2503.5	18.96	78.70
			1/0	2593	21.45	139.64
			1/0	2682.5	20.34	108.14
		16QAM	1/0	2503.5	17.71	59.02
			1/0	2593	20.59	114.55
			1/0	2682.5	18.85	76.74

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP (Peak)	
					dBm	mW
LTE41	10	QPSK	1/0	2501	18.31	67.76
			1/0	2593	21.02	126.47
			1/0	2685	19.49	88.92
		16QAM	1/0	2501	17.50	56.23
			1/0	2593	20.47	111.43
			1/0	2685	18.95	78.52

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP (Peak)	
					dBm	mW
LTE41	5	QPSK	1/0	2498.5	18.57	71.94
			1/0	2593	20.40	109.65
			1/0	2687.5	19.39	86.90
		16QAM	1/0	2498.5	17.64	58.08
			1/0	2593	20.02	100.46
			1/0	2687.5	18.78	75.51

11.1.2. ERP/EIRP PLOTS

GSM

Band GSM 1900 EGPRS	High Frequency Substitution Measurement UL Verification Services, Inc. Chamber C								
	Company: LG Project #: 15I21552 Date: 08/21/15 Test Engineer: Charles Vergonio Configuration: EUT X-Position Only Mode: EGPRS 1900								
	Test Equipment: Receiving: Horn T119, and Chamber C SMA Cables Substitution: Horn T59 Substitution, T1096 SMA Cable Warehouse								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes
	Low Ch								
	1850.20	9.75	V	0.9	8.5	17.41	33.0	-15.6	
	1850.20	18.36	H	0.9	8.5	26.02	33.0	-7.0	
	Mid Ch								
	1880.00	9.59	V	0.9	8.5	17.24	33.0	-15.8	
	1880.00	18.79	H	0.9	8.5	26.44	33.0	-6.6	
High Ch									
1909.80	9.64	V	0.9	8.5	17.33	33.0	-15.7		
1909.80	18.43	H	0.9	8.5	26.12	33.0	-6.9		
Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm									

Band GSM 1900 GPRS	High Frequency Substitution Measurement UL Verification Services, Inc. Chamber C								
	Company: LG Project #: 15I21552 Date: 08/21/15 Test Engineer: Charles Vergonio Configuration: EUT X-Position Only Mode: GPRS 1900								
	Test Equipment: Receiving: Horn T119, and Chamber C SMA Cables Substitution: Horn T59 Substitution, T1096 SMA Cable Warehouse								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes
	Low Ch								
	1850.20	14.30	V	0.9	8.5	21.96	33.0	-11.0	
	1850.20	23.23	H	0.9	8.5	30.89	33.0	-2.1	
	Mid Ch								
	1880.00	13.15	V	0.9	8.5	20.80	33.0	-12.2	
	1880.00	23.39	H	0.9	8.5	31.04	33.0	-2.0	
High Ch									
1909.80	13.85	V	0.9	8.5	21.54	33.0	-11.5		
1909.80	22.53	H	0.9	8.5	30.22	33.0	-2.8		
Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm									

Band GSM 850 EGPRS	High Frequency Substitution Measurement UL Verification Services, Inc. Chamber A								
	Company: LG Project #: 15I21552 Date: 5/26/2015 Test Engineer: Jude Semana Configuration: X-pos EUT only Mode: EGPRS 850								
	Test Equipment: Receiving: Horn T243, and Chamber A SMA Cables Substitution: Horn T416 Substitution, T1096 SMA Cable Warehouse								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes
	Low Ch								
	824.20	23.20	V	0.9		22.35	38.5	-16.2	
	824.20	26.37	H	0.9		25.52	38.5	-13.0	
	Mid Ch								
	836.60	22.40	V	0.9		21.55	38.5	-17.0	
	836.60	25.80	H	0.9		24.95	38.5	-13.6	
High Ch									
848.80	22.80	V	0.9		21.95	38.5	-16.6		
848.80	25.50	H	0.9		24.65	38.5	-13.9		
Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm									

Band GSM 850 GPRS	High Frequency Substitution Measurement UL Verification Services, Inc. Chamber A																																																																																																	
	Company: LG																																																																																																	
	Project #: 15I21552																																																																																																	
	Date: 5/26/2015																																																																																																	
	Test Engineer: Jude Semana																																																																																																	
	Configuration: X-pos EUT only																																																																																																	
	Mode: GPRS 850																																																																																																	
	Test Equipment:																																																																																																	
	Receiving: Horn T243, and Chamber A SMA Cables																																																																																																	
	Substitution: Horn T416 Substitution, T1096 SMA Cable Warehouse																																																																																																	
<table border="1"> <thead> <tr> <th>f MHz</th> <th>SG reading (dBm)</th> <th>Ant. Pol. (H/V)</th> <th>Cable Loss (dB)</th> <th>Antenna Gain (dBi)</th> <th>EIRP (dBm)</th> <th>Limit (dBm)</th> <th>Margin (dB)</th> <th>Notes</th> </tr> </thead> <tbody> <tr> <td colspan="9">Low Ch</td> </tr> <tr> <td>824.20</td> <td>24.10</td> <td>V</td> <td>0.9</td> <td></td> <td>23.25</td> <td>38.5</td> <td>-15.3</td> <td></td> </tr> <tr> <td>824.20</td> <td>30.80</td> <td>H</td> <td>0.9</td> <td></td> <td>29.95</td> <td>38.5</td> <td>-8.6</td> <td></td> </tr> <tr> <td colspan="9">Mid Ch</td> </tr> <tr> <td>836.60</td> <td>23.20</td> <td>V</td> <td>0.9</td> <td></td> <td>22.35</td> <td>38.5</td> <td>-16.2</td> <td></td> </tr> <tr> <td>836.60</td> <td>30.20</td> <td>H</td> <td>0.9</td> <td></td> <td>29.35</td> <td>38.5</td> <td>-9.2</td> <td></td> </tr> <tr> <td colspan="9">High Ch</td> </tr> <tr> <td>848.80</td> <td>22.60</td> <td>V</td> <td>0.9</td> <td></td> <td>21.75</td> <td>38.5</td> <td>-16.8</td> <td></td> </tr> <tr> <td>848.80</td> <td>29.90</td> <td>H</td> <td>0.9</td> <td></td> <td>29.05</td> <td>38.5</td> <td>-9.5</td> <td></td> </tr> </tbody> </table>									f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes	Low Ch									824.20	24.10	V	0.9		23.25	38.5	-15.3		824.20	30.80	H	0.9		29.95	38.5	-8.6		Mid Ch									836.60	23.20	V	0.9		22.35	38.5	-16.2		836.60	30.20	H	0.9		29.35	38.5	-9.2		High Ch									848.80	22.60	V	0.9		21.75	38.5	-16.8		848.80	29.90	H	0.9		29.05	38.5	-9.5	
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes																																																																																										
Low Ch																																																																																																		
824.20	24.10	V	0.9		23.25	38.5	-15.3																																																																																											
824.20	30.80	H	0.9		29.95	38.5	-8.6																																																																																											
Mid Ch																																																																																																		
836.60	23.20	V	0.9		22.35	38.5	-16.2																																																																																											
836.60	30.20	H	0.9		29.35	38.5	-9.2																																																																																											
High Ch																																																																																																		
848.80	22.60	V	0.9		21.75	38.5	-16.8																																																																																											
848.80	29.90	H	0.9		29.05	38.5	-9.5																																																																																											
Rev. 3.17.11																																																																																																		
Note: For Band 4 EIRP limit is 30dBm																																																																																																		

WCDMA

Band Band 2 HSDPA	High Frequency Substitution Measurement UL Verification Services, Inc. Chamber C								
	Company: LG Project #: 15I21552 Date: 08/21/15 Test Engineer: Charles Vergonio Configuration: EUT X-Position Only Mode: WCDMA B2 HSDPA								
	Test Equipment: Receiving: Horn T119, and Chamber C SMA Cables Substitution: Horn T59 Substitution, T1096 SMA Cable Warehouse								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes
	Low Ch								
	1852.40	6.99	V	0.9	8.5	14.65	33.0	-18.4	
	1852.40	17.22	H	0.9	8.5	24.88	33.0	-8.1	
	Mid Ch								
	1880.00	6.85	V	0.9	8.5	14.50	33.0	-18.5	
	1880.00	16.71	H	0.9	8.5	24.36	33.0	-8.6	
High Ch									
1907.60	7.19	V	0.9	8.5	14.88	33.0	-18.1		
1907.60	16.37	H	0.9	8.5	24.06	33.0	-8.9		
Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm									

Band Band 2 REL99	High Frequency Substitution Measurement UL Verification Services, Inc. Chamber C								
	Company: LG Project #: 15I21552 Date: 08/21/15 Test Engineer: Charles Vergonio Configuration: EUT X-Position Only Mode: WCDMA B2 REL. 99								
	Test Equipment: Receiving: Horn T119, and Chamber C SMA Cables Substitution: Horn T59 Substitution, T1096 SMA Cable Warehouse								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes
	Low Ch								
	1852.40	8.23	V	0.9	8.5	15.89	33.0	-17.1	
	1852.40	17.51	H	0.9	8.5	25.17	33.0	-7.8	
	Mid Ch								
	1880.00	7.20	V	0.9	8.5	14.85	33.0	-18.2	
	1880.00	17.04	H	0.9	8.5	24.69	33.0	-8.3	
High Ch									
1907.60	7.56	V	0.9	8.5	15.25	33.0	-17.7		
1907.60	16.62	H	0.9	8.5	24.31	33.0	-8.7		
Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm									

Band Band 4 HSDPA	High Frequency Substitution Measurement UL Verification Services, Inc. Chamber C								
	Company: LG								
	Project #: 15I21552								
	Date: 08/21/15								
	Test Engineer: Charles Vergonio								
	Configuration: EUT Y-Position Only								
	Mode: WCDMA B4 HSDPA								
	Test Equipment:								
	Receiving: Horn T119, and Chamber C SMA Cables								
	Substitution: Horn T60 Substitution, T1096 SMA Cable Warehouse								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes
	Low Ch								
	1712.40	16.69	V	0.9	6.2	22.04	33.0	-11.0	
	1712.40	14.87	H	0.9	6.2	20.22	33.0	-12.8	
	Mid Ch								
	1732.60	16.61	V	0.9	6.2	21.96	33.0	-11.0	
	1732.60	15.02	H	0.9	6.2	20.37	33.0	-12.6	
	High Ch								
	1752.60	16.16	V	0.9	6.2	21.51	33.0	-11.5	
	1752.60	15.22	H	0.9	6.2	20.57	33.0	-12.4	
	Rev. 3.17.11								
	Note: For Band 4 EIRP limit is 30dBm								

Band Band 4 REL99	High Frequency Substitution Measurement UL Verification Services, Inc. Chamber C								
	Company: LG								
	Project #: 15I21552								
	Date: 08/21/15								
	Test Engineer: Charles Vergonio								
	Configuration: EUT Y-Position Only								
	Mode: WCDMA B4 REL. 99								
	Test Equipment:								
	Receiving: Horn T119, and Chamber C SMA Cables								
	Substitution: Horn T60 Substitution, T1096 SMA Cable Warehouse								
	f	SG reading	Ant. Pol.	Cable Loss	Antenna Gain	EIRP	Limit	Margin	Notes
	MHz	(dBm)	(H/V)	(dB)	(dBi)	(dBm)	(dBm)	(dB)	
	Low Ch								
	1712.40	17.35	V	0.9	6.2	22.70	33.0	-10.3	
	1712.40	15.21	H	0.9	6.2	20.56	33.0	-12.4	
	Mid Ch								
	1732.60	17.46	V	0.9	6.2	22.81	33.0	-10.2	
	1732.60	14.84	H	0.9	6.2	20.19	33.0	-12.8	
	High Ch								
	1752.60	17.31	V	0.9	6.2	22.66	33.0	-10.3	
	1752.60	14.31	H	0.9	6.2	19.66	33.0	-13.3	
	Rev. 3.17.11								
	Note: For Band 4 EIRP limit is 30dBm								

Band Band 5 HSDPA	High Frequency Substitution Measurement UL Verification Services, Inc. Chamber B																																																																																																	
	Company:		LG																																																																																															
	Project #:		15I21552																																																																																															
	Date:		5/26/2015																																																																																															
	Test Engineer:		Jude Semana																																																																																															
	Configuration:		EUT Only X-Pos																																																																																															
	Mode:		HSDPA B5 FUND																																																																																															
	Test Equipment:																																																																																																	
	Receiving: Horn T243, and Chamber B SMA Cables																																																																																																	
	Substitution: Horn T416 Substitution, T1096 SMA Cable Warehouse																																																																																																	
<table border="1"> <thead> <tr> <th>f MHz</th> <th>SG reading (dBm)</th> <th>Ant. Pol. (H/V)</th> <th>Cable Loss (dB)</th> <th>Antenna Gain (dBd)</th> <th>ERP (dBm)</th> <th>Limit (dBm)</th> <th>Margin (dB)</th> <th>Notes</th> </tr> </thead> <tbody> <tr> <td colspan="9">Low Ch</td> </tr> <tr> <td>826.40</td> <td>17.40</td> <td>V</td> <td>0.9</td> <td>0.0</td> <td>16.50</td> <td>38.5</td> <td>-21.9</td> <td></td> </tr> <tr> <td>826.40</td> <td>20.30</td> <td>H</td> <td>0.9</td> <td>0.0</td> <td>19.40</td> <td>38.5</td> <td>-19.0</td> <td></td> </tr> <tr> <td colspan="9">Mid Ch</td> </tr> <tr> <td>836.60</td> <td>16.90</td> <td>V</td> <td>0.9</td> <td>0.0</td> <td>16.00</td> <td>38.5</td> <td>-22.4</td> <td></td> </tr> <tr> <td>836.60</td> <td>19.90</td> <td>H</td> <td>0.9</td> <td>0.0</td> <td>19.00</td> <td>38.5</td> <td>-19.4</td> <td></td> </tr> <tr> <td colspan="9">High Ch</td> </tr> <tr> <td>846.60</td> <td>16.70</td> <td>V</td> <td>0.9</td> <td>0.0</td> <td>15.80</td> <td>38.5</td> <td>-22.6</td> <td></td> </tr> <tr> <td>846.60</td> <td>19.90</td> <td>H</td> <td>0.9</td> <td>0.0</td> <td>19.00</td> <td>38.5</td> <td>-19.4</td> <td></td> </tr> </tbody> </table>									f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Margin (dB)	Notes	Low Ch									826.40	17.40	V	0.9	0.0	16.50	38.5	-21.9		826.40	20.30	H	0.9	0.0	19.40	38.5	-19.0		Mid Ch									836.60	16.90	V	0.9	0.0	16.00	38.5	-22.4		836.60	19.90	H	0.9	0.0	19.00	38.5	-19.4		High Ch									846.60	16.70	V	0.9	0.0	15.80	38.5	-22.6		846.60	19.90	H	0.9	0.0	19.00	38.5	-19.4	
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Margin (dB)	Notes																																																																																										
Low Ch																																																																																																		
826.40	17.40	V	0.9	0.0	16.50	38.5	-21.9																																																																																											
826.40	20.30	H	0.9	0.0	19.40	38.5	-19.0																																																																																											
Mid Ch																																																																																																		
836.60	16.90	V	0.9	0.0	16.00	38.5	-22.4																																																																																											
836.60	19.90	H	0.9	0.0	19.00	38.5	-19.4																																																																																											
High Ch																																																																																																		
846.60	16.70	V	0.9	0.0	15.80	38.5	-22.6																																																																																											
846.60	19.90	H	0.9	0.0	19.00	38.5	-19.4																																																																																											
Rev. 3.17.11																																																																																																		
Note: For Band 13/17 ERP limit is 34.77dBm; For Band 26 limit is 50dBm																																																																																																		

Band Band 5 REL99	High Frequency Substitution Measurement UL Verification Services, Inc. Chamber B																																																																																																	
	Company:		LG																																																																																															
	Project #:		15I21552																																																																																															
	Date:		5/26/2015																																																																																															
	Test Engineer:		Jude Semana																																																																																															
	Configuration:		EUT Only X-Pos																																																																																															
	Mode:		Rel.99 B5 FUND																																																																																															
	Test Equipment:																																																																																																	
	Receiving: Horn T243, and Chamber B SMA Cables																																																																																																	
	Substitution: Horn T416 Substitution, T1096 SMA Cable Warehouse																																																																																																	
<table border="1"> <thead> <tr> <th>f MHz</th> <th>SG reading (dBm)</th> <th>Ant. Pol. (H/V)</th> <th>Cable Loss (dB)</th> <th>Antenna Gain (dBd)</th> <th>ERP (dBm)</th> <th>Limit (dBm)</th> <th>Margin (dB)</th> <th>Notes</th> </tr> </thead> <tbody> <tr> <td colspan="9">Low Ch</td> </tr> <tr> <td>826.40</td> <td>13.20</td> <td>V</td> <td>0.9</td> <td>0.0</td> <td>12.30</td> <td>38.5</td> <td>-26.1</td> <td></td> </tr> <tr> <td>826.40</td> <td>20.80</td> <td>H</td> <td>0.9</td> <td>0.0</td> <td>19.90</td> <td>38.5</td> <td>-18.5</td> <td></td> </tr> <tr> <td colspan="9">Mid Ch</td> </tr> <tr> <td>836.60</td> <td>12.20</td> <td>V</td> <td>0.9</td> <td>0.0</td> <td>11.30</td> <td>38.5</td> <td>-27.1</td> <td></td> </tr> <tr> <td>836.60</td> <td>20.20</td> <td>H</td> <td>0.9</td> <td>0.0</td> <td>19.30</td> <td>38.5</td> <td>-19.1</td> <td></td> </tr> <tr> <td colspan="9">High Ch</td> </tr> <tr> <td>846.60</td> <td>11.70</td> <td>V</td> <td>0.9</td> <td>0.0</td> <td>10.80</td> <td>38.5</td> <td>-27.6</td> <td></td> </tr> <tr> <td>846.60</td> <td>19.90</td> <td>H</td> <td>0.9</td> <td>0.0</td> <td>19.00</td> <td>38.5</td> <td>-19.4</td> <td></td> </tr> </tbody> </table>									f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Margin (dB)	Notes	Low Ch									826.40	13.20	V	0.9	0.0	12.30	38.5	-26.1		826.40	20.80	H	0.9	0.0	19.90	38.5	-18.5		Mid Ch									836.60	12.20	V	0.9	0.0	11.30	38.5	-27.1		836.60	20.20	H	0.9	0.0	19.30	38.5	-19.1		High Ch									846.60	11.70	V	0.9	0.0	10.80	38.5	-27.6		846.60	19.90	H	0.9	0.0	19.00	38.5	-19.4	
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Margin (dB)	Notes																																																																																										
Low Ch																																																																																																		
826.40	13.20	V	0.9	0.0	12.30	38.5	-26.1																																																																																											
826.40	20.80	H	0.9	0.0	19.90	38.5	-18.5																																																																																											
Mid Ch																																																																																																		
836.60	12.20	V	0.9	0.0	11.30	38.5	-27.1																																																																																											
836.60	20.20	H	0.9	0.0	19.30	38.5	-19.1																																																																																											
High Ch																																																																																																		
846.60	11.70	V	0.9	0.0	10.80	38.5	-27.6																																																																																											
846.60	19.90	H	0.9	0.0	19.00	38.5	-19.4																																																																																											
Rev. 3.17.11 Note: For Band 13/17 ERP limit is 34.77dBm; For Band 26 limit is 50dBm																																																																																																		

LTE Band 2

Band LTE2 20MHz 16QAM	High Frequency Substitution Measurement UL Verification Services, Inc. Chamber C								
	Company: LG Project #: 15I21552 Date: 08/21/15 Test Engineer: Charles Vergonio Configuration: EUT X-Position Only Mode: LTE_16QAM Band 2 Fundamental, 20 MHz Bandwidth								
	Test Equipment: Receiving: Horn T119, and Chamber C SMA Cables Substitution: Horn T59 Substitution, T1096 SMA Cable Warehouse								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes
	Low Ch								
	1860.00	7.81	V	0.9	8.5	15.47	33.0	-17.5	
	1860.00	15.60	H	0.9	8.5	23.26	33.0	-9.7	
	Mid Ch								
	1880.00	7.41	V	0.9	8.5	15.06	33.0	-17.9	
	1880.00	16.22	H	0.9	8.5	23.87	33.0	-9.1	
High Ch									
1900.00	7.72	V	0.9	8.5	15.41	33.0	-17.6		
1900.00	15.56	H	0.9	8.5	23.25	33.0	-9.7		
Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm									

Band LTE2 20MHz QPSK	High Frequency Substitution Measurement UL Verification Services, Inc. Chamber C								
	Company: LG Project #: 15I21552 Date: 08/21/15 Test Engineer: Charles Vergonio Configuration: EUT X-Position Only Mode: LTE_QPSK Band 2 Fundamental, 20 MHz Bandwidth								
	Test Equipment: Receiving: Horn T119, and Chamber C SMA Cables Substitution: Horn T59 Substitution, T1096 SMA Cable Warehouse								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes
	Low Ch								
	1860.00	8.95	V	0.9	8.5	16.61	33.0	-16.4	
	1860.00	16.51	H	0.9	8.5	24.17	33.0	-8.8	
	Mid Ch								
	1880.00	8.71	V	0.9	8.5	16.36	33.0	-16.6	
	1880.00	16.82	H	0.9	8.5	24.47	33.0	-8.5	
High Ch									
1900.00	9.01	V	0.9	8.5	16.70	33.0	-16.3		
1900.00	16.61	H	0.9	8.5	24.30	33.0	-8.7		
Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm									

Band LTE2 15MHz 16QAM	High Frequency Substitution Measurement UL Verification Services, Inc. Chamber C								
	Company: LG								
	Project #: 15I21552								
	Date: 08/21/15								
	Test Engineer: Charles Vergonio								
	Configuration: EUT X-Position Only								
	Mode: LTE_16QAM Band 2 Fundamental, 15 MHz Bandwidth								
	Test Equipment:								
	Receiving: Horn T119, and Chamber C SMA Cables								
	Substitution: Horn T59 Substitution, T1096 SMA Cable Warehouse								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes
	Low Ch								
	1857.50	7.51	V	0.9	8.5	15.17	33.0	-17.8	
	1857.50	15.41	H	0.9	8.5	23.07	33.0	-9.9	
	Mid Ch								
	1880.00	7.42	V	0.9	8.5	15.07	33.0	-17.9	
	1880.00	16.21	H	0.9	8.5	23.86	33.0	-9.1	
	High Ch								
	1902.50	7.71	V	0.9	8.5	15.40	33.0	-17.6	
	1902.50	15.29	H	0.9	8.5	22.98	33.0	-10.0	
	Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm								

Band LTE2 15MHz QPSK	High Frequency Substitution Measurement UL Verification Services, Inc. Chamber C																																																																																																	
	Company: LG																																																																																																	
	Project #: 15I21552																																																																																																	
	Date: 08/21/15																																																																																																	
	Test Engineer: Charles Vergonio																																																																																																	
	Configuration: EUT X-Position Only																																																																																																	
	Mode: LTE_QPSK Band 2 Fundamental, 15 MHz Bandwidth																																																																																																	
	Test Equipment:																																																																																																	
	Receiving: Horn T119, and Chamber C SMA Cables																																																																																																	
	Substitution: Horn T59 Substitution, T1096 SMA Cable Warehouse																																																																																																	
<table border="1"> <thead> <tr> <th>f MHz</th> <th>SG reading (dBm)</th> <th>Ant. Pol. (H/V)</th> <th>Cable Loss (dB)</th> <th>Antenna Gain (dBi)</th> <th>EIRP (dBm)</th> <th>Limit (dBm)</th> <th>Margin (dB)</th> <th>Notes</th> </tr> </thead> <tbody> <tr> <td colspan="9">Low Ch</td> </tr> <tr> <td>1857.50</td> <td>8.85</td> <td>V</td> <td>0.9</td> <td>8.5</td> <td>16.51</td> <td>33.0</td> <td>-16.5</td> <td></td> </tr> <tr> <td>1857.50</td> <td>16.61</td> <td>H</td> <td>0.9</td> <td>8.5</td> <td>24.27</td> <td>33.0</td> <td>-8.7</td> <td></td> </tr> <tr> <td colspan="9">Mid Ch</td> </tr> <tr> <td>1880.00</td> <td>7.89</td> <td>V</td> <td>0.9</td> <td>8.5</td> <td>15.54</td> <td>33.0</td> <td>-17.5</td> <td></td> </tr> <tr> <td>1880.00</td> <td>16.45</td> <td>H</td> <td>0.9</td> <td>8.5</td> <td>24.10</td> <td>33.0</td> <td>-8.9</td> <td></td> </tr> <tr> <td colspan="9">High Ch</td> </tr> <tr> <td>1902.50</td> <td>8.76</td> <td>V</td> <td>0.9</td> <td>8.5</td> <td>16.45</td> <td>33.0</td> <td>-16.5</td> <td></td> </tr> <tr> <td>1902.50</td> <td>16.51</td> <td>H</td> <td>0.9</td> <td>8.5</td> <td>24.20</td> <td>33.0</td> <td>-8.8</td> <td></td> </tr> </tbody> </table>									f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes	Low Ch									1857.50	8.85	V	0.9	8.5	16.51	33.0	-16.5		1857.50	16.61	H	0.9	8.5	24.27	33.0	-8.7		Mid Ch									1880.00	7.89	V	0.9	8.5	15.54	33.0	-17.5		1880.00	16.45	H	0.9	8.5	24.10	33.0	-8.9		High Ch									1902.50	8.76	V	0.9	8.5	16.45	33.0	-16.5		1902.50	16.51	H	0.9	8.5	24.20	33.0	-8.8	
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes																																																																																										
Low Ch																																																																																																		
1857.50	8.85	V	0.9	8.5	16.51	33.0	-16.5																																																																																											
1857.50	16.61	H	0.9	8.5	24.27	33.0	-8.7																																																																																											
Mid Ch																																																																																																		
1880.00	7.89	V	0.9	8.5	15.54	33.0	-17.5																																																																																											
1880.00	16.45	H	0.9	8.5	24.10	33.0	-8.9																																																																																											
High Ch																																																																																																		
1902.50	8.76	V	0.9	8.5	16.45	33.0	-16.5																																																																																											
1902.50	16.51	H	0.9	8.5	24.20	33.0	-8.8																																																																																											
Rev. 3.17.11																																																																																																		
Note: For Band 4 EIRP limit is 30dBm																																																																																																		

Band LTE2 10MHz 16QAM	High Frequency Substitution Measurement UL Verification Services, Inc. Chamber C								
	Company: LG								
	Project #: 15I21552								
	Date: 08/21/15								
	Test Engineer: Charles Vergonio								
	Configuration: EUT X-Position Only								
	Mode: LTE_16QAM Band 2 Fundamental, 10 MHz Bandwidth								
	Test Equipment:								
	Receiving: Horn T119, and Chamber C SMA Cables								
	Substitution: Horn T59 Substitution, T1096 SMA Cable Warehouse								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes
	Low Ch								
	1855.00	7.51	V	0.9	8.5	15.17	33.0	-17.8	
	1855.00	15.39	H	0.9	8.5	23.05	33.0	-10.0	
	Mid Ch								
	1880.00	7.74	V	0.9	8.5	15.39	33.0	-17.6	
	1880.00	16.25	H	0.9	8.5	23.90	33.0	-9.1	
	High Ch								
	1905.00	7.73	V	0.9	8.5	15.42	33.0	-17.6	
	1905.00	15.61	H	0.9	8.5	23.30	33.0	-9.7	
	Rev. 3.17.11								
	Note: For Band 4 EIRP limit is 30dBm								

Band LTE2 10MHz QPSK	High Frequency Substitution Measurement UL Verification Services, Inc. Chamber C								
	Company: LG Project #: 15I21552 Date: 08/21/15 Test Engineer: Charles Vergonio Configuration: EUT X-Position Only Mode: LTE_QPSK Band 2 Fundamental, 10 MHz Bandwidth								
	Test Equipment: Receiving: Horn T119, and Chamber C SMA Cables Substitution: Horn T59 Substitution, T1096 SMA Cable Warehouse								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes
	Low Ch								
	1855.00	8.52	V	0.9	8.5	16.18	33.0	-16.8	
	1855.00	16.71	H	0.9	8.5	24.37	33.0	-8.6	
	Mid Ch								
	1880.00	8.74	V	0.9	8.5	16.39	33.0	-16.6	
	1880.00	16.89	H	0.9	8.5	24.54	33.0	-8.5	
High Ch									
1905.00	8.65	V	0.9	8.5	16.34	33.0	-16.7		
1905.00	16.76	H	0.9	8.5	24.45	33.0	-8.5		
Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm									

Band LTE2 5MHz 16QAM	High Frequency Substitution Measurement UL Verification Services, Inc. Chamber C								
	Company: LG								
	Project #: 15I21552								
	Date: 08/21/15								
	Test Engineer: Charles Vergonio								
	Configuration: EUT X-Position Only								
	Mode: LTE_16QAM Band 2 Fundamental, 5 MHz Bandwidth								
	Test Equipment:								
	Receiving: Horn T119, and Chamber C SMA Cables								
	Substitution: Horn T59 Substitution, T1096 SMA Cable Warehouse								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes
	Low Ch								
	1852.50	7.42	V	0.9	8.5	15.08	33.0	-17.9	
	1852.50	15.41	H	0.9	8.5	23.07	33.0	-9.9	
	Mid Ch								
	1880.00	7.46	V	0.9	8.5	15.11	33.0	-17.9	
	1880.00	16.10	H	0.9	8.5	23.75	33.0	-9.3	
	High Ch								
	1907.50	7.75	V	0.9	8.5	15.44	33.0	-17.6	
	1907.50	15.61	H	0.9	8.5	23.30	33.0	-9.7	
	Rev. 3.17.11								
	Note: For Band 4 EIRP limit is 30dBm								

Band LTE2 5MHz QPSK	High Frequency Substitution Measurement UL Verification Services, Inc. Chamber C																																																																																										
	<p>Company: LG Project #: 15I21552 Date: 08/21/15 Test Engineer: Charles Vergonio Configuration: EUT X-Position Only Mode: LTE_QPSK Band 2 Fundamental, 5 MHz Bandwidth</p> <p>Test Equipment: Receiving: Horn T119, and Chamber C SMA Cables Substitution: Horn T59 Substitution, T1096 SMA Cable Warehouse</p>																																																																																										
	<table border="1"> <thead> <tr> <th>f MHz</th> <th>SG reading (dBm)</th> <th>Ant. Pol. (H/V)</th> <th>Cable Loss (dB)</th> <th>Antenna Gain (dBi)</th> <th>EIRP (dBm)</th> <th>Limit (dBm)</th> <th>Margin (dB)</th> <th>Notes</th> </tr> </thead> <tbody> <tr> <td colspan="9">Low Ch</td> </tr> <tr> <td>1852.50</td> <td>8.39</td> <td>V</td> <td>0.9</td> <td>8.5</td> <td>16.05</td> <td>33.0</td> <td>-17.0</td> <td></td> </tr> <tr> <td>1852.50</td> <td>16.59</td> <td>H</td> <td>0.9</td> <td>8.5</td> <td>24.25</td> <td>33.0</td> <td>-8.8</td> <td></td> </tr> <tr> <td colspan="9">Mid Ch</td> </tr> <tr> <td>1880.00</td> <td>8.19</td> <td>V</td> <td>0.9</td> <td>8.5</td> <td>15.84</td> <td>33.0</td> <td>-17.2</td> <td></td> </tr> <tr> <td>1880.00</td> <td>17.04</td> <td>H</td> <td>0.9</td> <td>8.5</td> <td>24.69</td> <td>33.0</td> <td>-8.3</td> <td></td> </tr> <tr> <td colspan="9">High Ch</td> </tr> <tr> <td>1907.50</td> <td>8.41</td> <td>V</td> <td>0.9</td> <td>8.5</td> <td>16.10</td> <td>33.0</td> <td>-16.9</td> <td></td> </tr> <tr> <td>1907.50</td> <td>16.52</td> <td>H</td> <td>0.9</td> <td>8.5</td> <td>24.21</td> <td>33.0</td> <td>-8.8</td> <td></td> </tr> </tbody> </table>	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes	Low Ch									1852.50	8.39	V	0.9	8.5	16.05	33.0	-17.0		1852.50	16.59	H	0.9	8.5	24.25	33.0	-8.8		Mid Ch									1880.00	8.19	V	0.9	8.5	15.84	33.0	-17.2		1880.00	17.04	H	0.9	8.5	24.69	33.0	-8.3		High Ch									1907.50	8.41	V	0.9	8.5	16.10	33.0	-16.9		1907.50	16.52	H	0.9	8.5	24.21	33.0	-8.8	
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes																																																																																			
Low Ch																																																																																											
1852.50	8.39	V	0.9	8.5	16.05	33.0	-17.0																																																																																				
1852.50	16.59	H	0.9	8.5	24.25	33.0	-8.8																																																																																				
Mid Ch																																																																																											
1880.00	8.19	V	0.9	8.5	15.84	33.0	-17.2																																																																																				
1880.00	17.04	H	0.9	8.5	24.69	33.0	-8.3																																																																																				
High Ch																																																																																											
1907.50	8.41	V	0.9	8.5	16.10	33.0	-16.9																																																																																				
1907.50	16.52	H	0.9	8.5	24.21	33.0	-8.8																																																																																				
	<p>Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm</p>																																																																																										

Band LTE2 3MHz 16QAM	High Frequency Substitution Measurement UL Verification Services, Inc. Chamber C																																																																																																	
	Company: LG																																																																																																	
	Project #: 15I21552																																																																																																	
	Date: 08/21/15																																																																																																	
	Test Engineer: Charles Vergonio																																																																																																	
	Configuration: EUT X-Position Only																																																																																																	
	Mode: LTE_16QAM Band 2 Fundamental, 3 MHz Bandwidth																																																																																																	
	Test Equipment:																																																																																																	
	Receiving: Horn T119, and Chamber C SMA Cables																																																																																																	
	Substitution: Horn T59 Substitution, T1096 SMA Cable Warehouse																																																																																																	
<table border="1"> <thead> <tr> <th>f MHz</th> <th>SG reading (dBm)</th> <th>Ant. Pol. (H/V)</th> <th>Cable Loss (dB)</th> <th>Antenna Gain (dBi)</th> <th>EIRP (dBm)</th> <th>Limit (dBm)</th> <th>Margin (dB)</th> <th>Notes</th> </tr> </thead> <tbody> <tr> <td colspan="9">Low Ch</td> </tr> <tr> <td>1857.50</td> <td>7.51</td> <td>V</td> <td>0.9</td> <td>8.5</td> <td>15.17</td> <td>33.0</td> <td>-17.8</td> <td></td> </tr> <tr> <td>1857.50</td> <td>15.65</td> <td>H</td> <td>0.9</td> <td>8.5</td> <td>23.31</td> <td>33.0</td> <td>-9.7</td> <td></td> </tr> <tr> <td colspan="9">Mid Ch</td> </tr> <tr> <td>1880.00</td> <td>7.56</td> <td>V</td> <td>0.9</td> <td>8.5</td> <td>15.21</td> <td>33.0</td> <td>-17.8</td> <td></td> </tr> <tr> <td>1880.00</td> <td>15.89</td> <td>H</td> <td>0.9</td> <td>8.5</td> <td>23.54</td> <td>33.0</td> <td>-9.5</td> <td></td> </tr> <tr> <td colspan="9">High Ch</td> </tr> <tr> <td>1902.50</td> <td>7.61</td> <td>V</td> <td>0.9</td> <td>8.5</td> <td>15.30</td> <td>33.0</td> <td>-17.7</td> <td></td> </tr> <tr> <td>1902.50</td> <td>15.59</td> <td>H</td> <td>0.9</td> <td>8.5</td> <td>23.28</td> <td>33.0</td> <td>-9.7</td> <td></td> </tr> </tbody> </table>									f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes	Low Ch									1857.50	7.51	V	0.9	8.5	15.17	33.0	-17.8		1857.50	15.65	H	0.9	8.5	23.31	33.0	-9.7		Mid Ch									1880.00	7.56	V	0.9	8.5	15.21	33.0	-17.8		1880.00	15.89	H	0.9	8.5	23.54	33.0	-9.5		High Ch									1902.50	7.61	V	0.9	8.5	15.30	33.0	-17.7		1902.50	15.59	H	0.9	8.5	23.28	33.0	-9.7	
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes																																																																																										
Low Ch																																																																																																		
1857.50	7.51	V	0.9	8.5	15.17	33.0	-17.8																																																																																											
1857.50	15.65	H	0.9	8.5	23.31	33.0	-9.7																																																																																											
Mid Ch																																																																																																		
1880.00	7.56	V	0.9	8.5	15.21	33.0	-17.8																																																																																											
1880.00	15.89	H	0.9	8.5	23.54	33.0	-9.5																																																																																											
High Ch																																																																																																		
1902.50	7.61	V	0.9	8.5	15.30	33.0	-17.7																																																																																											
1902.50	15.59	H	0.9	8.5	23.28	33.0	-9.7																																																																																											
Rev. 3.17.11																																																																																																		
Note: For Band 4 EIRP limit is 30dBm																																																																																																		

Band LTE2 3MHz QPSK	High Frequency Substitution Measurement UL Verification Services, Inc. Chamber C																																																																																										
	<p> Company: LG Project #: 15I21552 Date: 08/21/15 Test Engineer: Charles Vergonio Configuration: EUT X-Position Only Mode: LTE_QPSK Band 2 Fundamental, 3 MHz Bandwidth </p> <p> Test Equipment: Receiving: Horn T119, and Chamber C SMA Cables Substitution: Horn T59 Substitution, T1096 SMA Cable Warehouse </p>																																																																																										
	<table border="1"> <thead> <tr> <th>f MHz</th> <th>SG reading (dBm)</th> <th>Ant. Pol. (H/V)</th> <th>Cable Loss (dB)</th> <th>Antenna Gain (dBi)</th> <th>EIRP (dBm)</th> <th>Limit (dBm)</th> <th>Margin (dB)</th> <th>Notes</th> </tr> </thead> <tbody> <tr> <td colspan="9">Low Ch</td> </tr> <tr> <td>1851.50</td> <td>8.43</td> <td>V</td> <td>0.9</td> <td>8.5</td> <td>16.09</td> <td>33.0</td> <td>-16.9</td> <td></td> </tr> <tr> <td>1851.50</td> <td>16.51</td> <td>H</td> <td>0.9</td> <td>8.5</td> <td>24.17</td> <td>33.0</td> <td>-8.8</td> <td></td> </tr> <tr> <td colspan="9">Mid Ch</td> </tr> <tr> <td>1880.00</td> <td>8.56</td> <td>V</td> <td>0.9</td> <td>8.5</td> <td>16.21</td> <td>33.0</td> <td>-16.8</td> <td></td> </tr> <tr> <td>1880.00</td> <td>17.09</td> <td>H</td> <td>0.9</td> <td>8.5</td> <td>24.74</td> <td>33.0</td> <td>-8.3</td> <td></td> </tr> <tr> <td colspan="9">High Ch</td> </tr> <tr> <td>1908.50</td> <td>8.65</td> <td>V</td> <td>0.9</td> <td>8.5</td> <td>16.34</td> <td>33.0</td> <td>-16.7</td> <td></td> </tr> <tr> <td>1908.50</td> <td>16.84</td> <td>H</td> <td>0.9</td> <td>8.5</td> <td>24.53</td> <td>33.0</td> <td>-8.5</td> <td></td> </tr> </tbody> </table>	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes	Low Ch									1851.50	8.43	V	0.9	8.5	16.09	33.0	-16.9		1851.50	16.51	H	0.9	8.5	24.17	33.0	-8.8		Mid Ch									1880.00	8.56	V	0.9	8.5	16.21	33.0	-16.8		1880.00	17.09	H	0.9	8.5	24.74	33.0	-8.3		High Ch									1908.50	8.65	V	0.9	8.5	16.34	33.0	-16.7		1908.50	16.84	H	0.9	8.5	24.53	33.0	-8.5	
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes																																																																																			
Low Ch																																																																																											
1851.50	8.43	V	0.9	8.5	16.09	33.0	-16.9																																																																																				
1851.50	16.51	H	0.9	8.5	24.17	33.0	-8.8																																																																																				
Mid Ch																																																																																											
1880.00	8.56	V	0.9	8.5	16.21	33.0	-16.8																																																																																				
1880.00	17.09	H	0.9	8.5	24.74	33.0	-8.3																																																																																				
High Ch																																																																																											
1908.50	8.65	V	0.9	8.5	16.34	33.0	-16.7																																																																																				
1908.50	16.84	H	0.9	8.5	24.53	33.0	-8.5																																																																																				
	Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm																																																																																										

Band LTE2 1.4MHz 16QAM	High Frequency Substitution Measurement UL Verification Services, Inc. Chamber C								
	Company: LG								
	Project #: 15I21552								
	Date: 08/21/15								
	Test Engineer: Charles Vergonio								
	Configuration: EUT X-Position Only								
	Mode: LTE_16QAM Band 2 Fundamental, 1.4 MHz Bandwidth								
	Test Equipment:								
	Receiving: Horn T119, and Chamber C SMA Cables								
	Substitution: Horn T59 Substitution, T1096 SMA Cable Warehouse								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes
	Low Ch								
	1850.70	7.51	V	0.9	8.5	15.17	33.0	-17.8	
	1850.70	15.41	H	0.9	8.5	23.07	33.0	-9.9	
	Mid Ch								
	1880.00	7.34	V	0.9	8.5	14.99	33.0	-18.0	
	1880.00	16.06	H	0.9	8.5	23.71	33.0	-9.3	
	High Ch								
	1909.30	8.04	V	0.9	8.5	15.73	33.0	-17.3	
	1909.30	15.89	H	0.9	8.5	23.58	33.0	-9.4	
	Rev. 3.17.11								
	Note: For Band 4 EIRP limit is 30dBm								

Band LTE2 1.4MHz QPSK	High Frequency Substitution Measurement UL Verification Services, Inc. Chamber C								
	Company: LG Project #: 15I21552 Date: 08/21/15 Test Engineer: Charles Vergonio Configuration: EUT X-Position Only Mode: LTE_QPSK Band 2 Fundamental, 1.4 MHz Bandwidth								
	Test Equipment: Receiving: Horn T119, and Chamber C SMA Cables Substitution: Horn T59 Substitution, T1096 SMA Cable Warehouse								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes
	Low Ch								
	1850.70	8.62	V	0.9	8.5	16.28	33.0	-16.7	
	1850.70	16.59	H	0.9	8.5	24.25	33.0	-8.8	
	Mid Ch								
	1880.00	8.59	V	0.9	8.5	16.24	33.0	-16.8	
	1880.00	17.04	H	0.9	8.5	24.69	33.0	-8.3	
High Ch									
1909.30	8.53	V	0.9	8.5	16.22	33.0	-16.8		
1909.30	16.54	H	0.9	8.5	24.23	33.0	-8.8		
Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm									

LTE Band 4

Band LTE4 20MHz 16QAM	High Frequency Substitution Measurement UL Verification Services, Inc.																																																																																																	
	Company:		LG																																																																																															
	Project #:		15I21552																																																																																															
	Date:		8/25/2015																																																																																															
	Test Engineer:		R. Alegre																																																																																															
	Configuration:		EUT only																																																																																															
	Location:		Chamber C																																																																																															
	Mode:		LTE_16QAM Band 4 Fundamentals, 20MHz Bandwidth																																																																																															
	Test Equipment:		Receiving: Horn T119, and Chamber C SMA Cables Substitution: Horn T59, Xft SMA Cable (SN # 506392) Warehouse																																																																																															
	<table border="1"> <thead> <tr> <th>f MHz</th> <th>SG reading (dBm)</th> <th>Ant. Pol. (H/V)</th> <th>Cable Loss (dB)</th> <th>Antenna Gain (dBi)</th> <th>EIRP (dBm)</th> <th>Limit (dBm)</th> <th>Delta (dB)</th> <th>Notes</th> </tr> </thead> <tbody> <tr> <td colspan="9">Low Ch</td> </tr> <tr> <td>1720.00</td> <td>18.06</td> <td>V</td> <td>0.9</td> <td>8.2</td> <td>25.38</td> <td>30.0</td> <td>-4.6</td> <td></td> </tr> <tr> <td>1720.00</td> <td>16.07</td> <td>H</td> <td>0.9</td> <td>8.2</td> <td>23.39</td> <td>30.0</td> <td>-6.6</td> <td></td> </tr> <tr> <td colspan="9">Mid Ch</td> </tr> <tr> <td>1732.50</td> <td>17.73</td> <td>V</td> <td>0.9</td> <td>8.2</td> <td>25.00</td> <td>30.0</td> <td>-5.0</td> <td></td> </tr> <tr> <td>1732.50</td> <td>15.78</td> <td>H</td> <td>0.9</td> <td>8.2</td> <td>23.05</td> <td>30.0</td> <td>-6.9</td> <td></td> </tr> <tr> <td colspan="9">High Ch</td> </tr> <tr> <td>1745.00</td> <td>16.26</td> <td>V</td> <td>0.9</td> <td>8.1</td> <td>23.49</td> <td>30.0</td> <td>-6.5</td> <td></td> </tr> <tr> <td>1745.00</td> <td>13.35</td> <td>H</td> <td>0.9</td> <td>8.1</td> <td>20.58</td> <td>30.0</td> <td>-9.4</td> <td></td> </tr> </tbody> </table>									f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	Low Ch									1720.00	18.06	V	0.9	8.2	25.38	30.0	-4.6		1720.00	16.07	H	0.9	8.2	23.39	30.0	-6.6		Mid Ch									1732.50	17.73	V	0.9	8.2	25.00	30.0	-5.0		1732.50	15.78	H	0.9	8.2	23.05	30.0	-6.9		High Ch									1745.00	16.26	V	0.9	8.1	23.49	30.0	-6.5		1745.00	13.35	H	0.9	8.1	20.58	30.0	-9.4
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes																																																																																										
Low Ch																																																																																																		
1720.00	18.06	V	0.9	8.2	25.38	30.0	-4.6																																																																																											
1720.00	16.07	H	0.9	8.2	23.39	30.0	-6.6																																																																																											
Mid Ch																																																																																																		
1732.50	17.73	V	0.9	8.2	25.00	30.0	-5.0																																																																																											
1732.50	15.78	H	0.9	8.2	23.05	30.0	-6.9																																																																																											
High Ch																																																																																																		
1745.00	16.26	V	0.9	8.1	23.49	30.0	-6.5																																																																																											
1745.00	13.35	H	0.9	8.1	20.58	30.0	-9.4																																																																																											

Band LTE4 15MHz 16QAM	High Frequency Substitution Measurement UL Verification Services, Inc.																																																																																																	
	Company:		LG																																																																																															
	Project #:		15I21552																																																																																															
	Date:		8/25/2015																																																																																															
	Test Engineer:		R. Alegre																																																																																															
	Configuration:		EUT only																																																																																															
	Location:		Chamber C																																																																																															
	Mode:		LTE_16QAM Band 4 Fundamentals, 15MHz Bandwidth																																																																																															
	Test Equipment:																																																																																																	
	Receiving: Horn T119, and Chamber C SMA Cables Substitution: Horn T59, Xft SMA Cable (SN # 506392) Warehouse																																																																																																	
<table border="1"> <thead> <tr> <th>f MHz</th> <th>SG reading (dBm)</th> <th>Ant. Pol. (H/V)</th> <th>Cable Loss (dB)</th> <th>Antenna Gain (dBi)</th> <th>EIRP (dBm)</th> <th>Limit (dBm)</th> <th>Delta (dB)</th> <th>Notes</th> </tr> </thead> <tbody> <tr> <td colspan="9">Low Ch</td> </tr> <tr> <td>1717.50</td> <td>18.13</td> <td>V</td> <td>0.9</td> <td>8.2</td> <td>25.46</td> <td>30.0</td> <td>-4.5</td> <td></td> </tr> <tr> <td>1717.50</td> <td>16.16</td> <td>H</td> <td>0.9</td> <td>8.2</td> <td>23.49</td> <td>30.0</td> <td>-6.5</td> <td></td> </tr> <tr> <td colspan="9">Mid Ch</td> </tr> <tr> <td>1732.50</td> <td>17.75</td> <td>V</td> <td>0.9</td> <td>8.2</td> <td>25.02</td> <td>30.0</td> <td>-5.0</td> <td></td> </tr> <tr> <td>1732.50</td> <td>15.75</td> <td>H</td> <td>0.9</td> <td>8.2</td> <td>23.02</td> <td>30.0</td> <td>-7.0</td> <td></td> </tr> <tr> <td colspan="9">High Ch</td> </tr> <tr> <td>1747.50</td> <td>16.45</td> <td>V</td> <td>0.9</td> <td>8.1</td> <td>23.67</td> <td>30.0</td> <td>-6.3</td> <td></td> </tr> <tr> <td>1747.50</td> <td>13.37</td> <td>H</td> <td>0.9</td> <td>8.1</td> <td>20.59</td> <td>30.0</td> <td>-9.4</td> <td></td> </tr> </tbody> </table>									f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	Low Ch									1717.50	18.13	V	0.9	8.2	25.46	30.0	-4.5		1717.50	16.16	H	0.9	8.2	23.49	30.0	-6.5		Mid Ch									1732.50	17.75	V	0.9	8.2	25.02	30.0	-5.0		1732.50	15.75	H	0.9	8.2	23.02	30.0	-7.0		High Ch									1747.50	16.45	V	0.9	8.1	23.67	30.0	-6.3		1747.50	13.37	H	0.9	8.1	20.59	30.0	-9.4	
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes																																																																																										
Low Ch																																																																																																		
1717.50	18.13	V	0.9	8.2	25.46	30.0	-4.5																																																																																											
1717.50	16.16	H	0.9	8.2	23.49	30.0	-6.5																																																																																											
Mid Ch																																																																																																		
1732.50	17.75	V	0.9	8.2	25.02	30.0	-5.0																																																																																											
1732.50	15.75	H	0.9	8.2	23.02	30.0	-7.0																																																																																											
High Ch																																																																																																		
1747.50	16.45	V	0.9	8.1	23.67	30.0	-6.3																																																																																											
1747.50	13.37	H	0.9	8.1	20.59	30.0	-9.4																																																																																											

Band LTE4 15MHz QPSK	High Frequency Substitution Measurement UL Verification Services, Inc.																																																																																																	
	Company:		LG																																																																																															
	Project #:		15I21552																																																																																															
	Date:		8/25/2015																																																																																															
	Test Engineer:		R. Alegre																																																																																															
	Configuration:		EUT only																																																																																															
	Location:		Chamber C																																																																																															
	Mode:		LTE_QPSK Band 4 Fundamentals, 15MHz Bandwidth																																																																																															
	Test Equipment:																																																																																																	
	Receiving: Horn T119, and Chamber C SMA Cables Substitution: Horn T59, Xft SMA Cable (SN # 506392) Warehouse																																																																																																	
<table border="1"> <thead> <tr> <th>f MHz</th> <th>SG reading (dBm)</th> <th>Ant. Pol. (H/V)</th> <th>Cable Loss (dB)</th> <th>Antenna Gain (dBi)</th> <th>EIRP (dBm)</th> <th>Limit (dBm)</th> <th>Delta (dB)</th> <th>Notes</th> </tr> </thead> <tbody> <tr> <td colspan="9">Low Ch</td> </tr> <tr> <td>1717.50</td> <td>18.61</td> <td>V</td> <td>0.9</td> <td>8.2</td> <td>25.94</td> <td>30.0</td> <td>-4.1</td> <td></td> </tr> <tr> <td>1717.50</td> <td>17.05</td> <td>H</td> <td>0.9</td> <td>8.2</td> <td>24.38</td> <td>30.0</td> <td>-5.6</td> <td></td> </tr> <tr> <td colspan="9">Mid Ch</td> </tr> <tr> <td>1732.50</td> <td>18.54</td> <td>V</td> <td>0.9</td> <td>8.2</td> <td>25.81</td> <td>30.0</td> <td>-4.2</td> <td></td> </tr> <tr> <td>1732.50</td> <td>16.60</td> <td>H</td> <td>0.9</td> <td>8.2</td> <td>23.87</td> <td>30.0</td> <td>-6.1</td> <td></td> </tr> <tr> <td colspan="9">High Ch</td> </tr> <tr> <td>1747.50</td> <td>17.39</td> <td>V</td> <td>0.9</td> <td>8.1</td> <td>24.61</td> <td>30.0</td> <td>-5.4</td> <td></td> </tr> <tr> <td>1747.50</td> <td>13.99</td> <td>H</td> <td>0.9</td> <td>8.1</td> <td>21.21</td> <td>30.0</td> <td>-8.8</td> <td></td> </tr> </tbody> </table>									f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	Low Ch									1717.50	18.61	V	0.9	8.2	25.94	30.0	-4.1		1717.50	17.05	H	0.9	8.2	24.38	30.0	-5.6		Mid Ch									1732.50	18.54	V	0.9	8.2	25.81	30.0	-4.2		1732.50	16.60	H	0.9	8.2	23.87	30.0	-6.1		High Ch									1747.50	17.39	V	0.9	8.1	24.61	30.0	-5.4		1747.50	13.99	H	0.9	8.1	21.21	30.0	-8.8	
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes																																																																																										
Low Ch																																																																																																		
1717.50	18.61	V	0.9	8.2	25.94	30.0	-4.1																																																																																											
1717.50	17.05	H	0.9	8.2	24.38	30.0	-5.6																																																																																											
Mid Ch																																																																																																		
1732.50	18.54	V	0.9	8.2	25.81	30.0	-4.2																																																																																											
1732.50	16.60	H	0.9	8.2	23.87	30.0	-6.1																																																																																											
High Ch																																																																																																		
1747.50	17.39	V	0.9	8.1	24.61	30.0	-5.4																																																																																											
1747.50	13.99	H	0.9	8.1	21.21	30.0	-8.8																																																																																											

Band LTE4 10MHz 16QAM	High Frequency Substitution Measurement UL Verification Services, Inc.																																																																																																	
	Company:		LG																																																																																															
	Project #:		15I21552																																																																																															
	Date:		8/25/2015																																																																																															
	Test Engineer:		R. Alegre																																																																																															
	Configuration:		EUT only																																																																																															
	Location:		Chamber C																																																																																															
	Mode:		LTE_16QAM Band 4 Fundamentals, 10MHz Bandwidth																																																																																															
	Test Equipment:																																																																																																	
	Receiving: Horn T119, and Chamber C SMA Cables Substitution: Horn T59, Xft SMA Cable (SN # 506392) Warehouse																																																																																																	
<table border="1"> <thead> <tr> <th>f MHz</th> <th>SG reading (dBm)</th> <th>Ant. Pol. (H/V)</th> <th>Cable Loss (dB)</th> <th>Antenna Gain (dBi)</th> <th>EIRP (dBm)</th> <th>Limit (dBm)</th> <th>Delta (dB)</th> <th>Notes</th> </tr> </thead> <tbody> <tr> <td colspan="9">Low Ch</td> </tr> <tr> <td>1715.00</td> <td>18.10</td> <td>V</td> <td>0.9</td> <td>8.2</td> <td>25.44</td> <td>30.0</td> <td>-4.6</td> <td></td> </tr> <tr> <td>1715.00</td> <td>16.09</td> <td>H</td> <td>0.9</td> <td>8.2</td> <td>23.43</td> <td>30.0</td> <td>-6.6</td> <td></td> </tr> <tr> <td colspan="9">Mid Ch</td> </tr> <tr> <td>1732.50</td> <td>17.78</td> <td>V</td> <td>0.9</td> <td>8.2</td> <td>25.05</td> <td>30.0</td> <td>-4.9</td> <td></td> </tr> <tr> <td>1732.50</td> <td>15.87</td> <td>H</td> <td>0.9</td> <td>8.2</td> <td>23.14</td> <td>30.0</td> <td>-6.9</td> <td></td> </tr> <tr> <td colspan="9">High Ch</td> </tr> <tr> <td>1750.00</td> <td>16.50</td> <td>V</td> <td>0.9</td> <td>8.1</td> <td>23.71</td> <td>30.0</td> <td>-6.3</td> <td></td> </tr> <tr> <td>1750.00</td> <td>13.32</td> <td>H</td> <td>0.9</td> <td>8.1</td> <td>20.53</td> <td>30.0</td> <td>-9.5</td> <td></td> </tr> </tbody> </table>									f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	Low Ch									1715.00	18.10	V	0.9	8.2	25.44	30.0	-4.6		1715.00	16.09	H	0.9	8.2	23.43	30.0	-6.6		Mid Ch									1732.50	17.78	V	0.9	8.2	25.05	30.0	-4.9		1732.50	15.87	H	0.9	8.2	23.14	30.0	-6.9		High Ch									1750.00	16.50	V	0.9	8.1	23.71	30.0	-6.3		1750.00	13.32	H	0.9	8.1	20.53	30.0	-9.5	
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes																																																																																										
Low Ch																																																																																																		
1715.00	18.10	V	0.9	8.2	25.44	30.0	-4.6																																																																																											
1715.00	16.09	H	0.9	8.2	23.43	30.0	-6.6																																																																																											
Mid Ch																																																																																																		
1732.50	17.78	V	0.9	8.2	25.05	30.0	-4.9																																																																																											
1732.50	15.87	H	0.9	8.2	23.14	30.0	-6.9																																																																																											
High Ch																																																																																																		
1750.00	16.50	V	0.9	8.1	23.71	30.0	-6.3																																																																																											
1750.00	13.32	H	0.9	8.1	20.53	30.0	-9.5																																																																																											

Band LTE4 10MHz QPSK	High Frequency Substitution Measurement UL Verification Services, Inc.																																																																																																	
	Company:		LG																																																																																															
	Project #:		15I21552																																																																																															
	Date:		8/25/2015																																																																																															
	Test Engineer:		R. Alegre																																																																																															
	Configuration:		EUT only																																																																																															
	Location:		Chamber C																																																																																															
	Mode:		LTE_QPSK Band 4 Fundamentals, 10MHz Bandwidth																																																																																															
	Test Equipment:		Receiving: Horn T119, and Chamber C SMA Cables Substitution: Horn T59, Xft SMA Cable (SN # 506392) Warehouse																																																																																															
	<table border="1"> <thead> <tr> <th>f MHz</th> <th>SG reading (dBm)</th> <th>Ant. Pol. (H/V)</th> <th>Cable Loss (dB)</th> <th>Antenna Gain (dBi)</th> <th>EIRP (dBm)</th> <th>Limit (dBm)</th> <th>Delta (dB)</th> <th>Notes</th> </tr> </thead> <tbody> <tr> <td colspan="9">Low Ch</td> </tr> <tr> <td>1715.00</td> <td>18.71</td> <td>V</td> <td>0.9</td> <td>8.2</td> <td>26.05</td> <td>30.0</td> <td>-4.0</td> <td></td> </tr> <tr> <td>1715.00</td> <td>17.11</td> <td>H</td> <td>0.9</td> <td>8.2</td> <td>24.45</td> <td>30.0</td> <td>-5.6</td> <td></td> </tr> <tr> <td colspan="9">Mid Ch</td> </tr> <tr> <td>1732.50</td> <td>18.54</td> <td>V</td> <td>0.9</td> <td>8.2</td> <td>25.81</td> <td>30.0</td> <td>-4.2</td> <td></td> </tr> <tr> <td>1732.50</td> <td>16.78</td> <td>H</td> <td>0.9</td> <td>8.2</td> <td>24.05</td> <td>30.0</td> <td>-5.9</td> <td></td> </tr> <tr> <td colspan="9">High Ch</td> </tr> <tr> <td>1750.00</td> <td>17.41</td> <td>V</td> <td>0.9</td> <td>8.1</td> <td>24.62</td> <td>30.0</td> <td>-5.4</td> <td></td> </tr> <tr> <td>1750.00</td> <td>14.05</td> <td>H</td> <td>0.9</td> <td>8.1</td> <td>21.26</td> <td>30.0</td> <td>-8.7</td> <td></td> </tr> </tbody> </table>									f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	Low Ch									1715.00	18.71	V	0.9	8.2	26.05	30.0	-4.0		1715.00	17.11	H	0.9	8.2	24.45	30.0	-5.6		Mid Ch									1732.50	18.54	V	0.9	8.2	25.81	30.0	-4.2		1732.50	16.78	H	0.9	8.2	24.05	30.0	-5.9		High Ch									1750.00	17.41	V	0.9	8.1	24.62	30.0	-5.4		1750.00	14.05	H	0.9	8.1	21.26	30.0	-8.7
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes																																																																																										
Low Ch																																																																																																		
1715.00	18.71	V	0.9	8.2	26.05	30.0	-4.0																																																																																											
1715.00	17.11	H	0.9	8.2	24.45	30.0	-5.6																																																																																											
Mid Ch																																																																																																		
1732.50	18.54	V	0.9	8.2	25.81	30.0	-4.2																																																																																											
1732.50	16.78	H	0.9	8.2	24.05	30.0	-5.9																																																																																											
High Ch																																																																																																		
1750.00	17.41	V	0.9	8.1	24.62	30.0	-5.4																																																																																											
1750.00	14.05	H	0.9	8.1	21.26	30.0	-8.7																																																																																											

Band LTE4 5MHz 16QAM	High Frequency Substitution Measurement UL Verification Services, Inc.																																																																																																										
	Company:		LG																																																																																																								
	Project #:		15I21552																																																																																																								
	Date:		8/25/2015																																																																																																								
	Test Engineer:		R. Alegre																																																																																																								
	Configuration:		EUT only																																																																																																								
	Location:		Chamber C																																																																																																								
	Mode:		LTE_16QAM Band 4 Fundamentals, 5MHz Bandwidth																																																																																																								
	Test Equipment:																																																																																																										
	Receiving: Horn T119, and Chamber C SMA Cables Substitution: Horn T59, Xft SMA Cable (SN # 506392) Warehouse																																																																																																										
<table border="1"> <thead> <tr> <th>f MHz</th> <th>SG reading (dBm)</th> <th>Ant. Pol. (H/V)</th> <th>Cable Loss (dB)</th> <th>Antenna Gain (dBi)</th> <th>EIRP (dBm)</th> <th>Limit (dBm)</th> <th>Delta (dB)</th> <th>Notes</th> </tr> </thead> <tbody> <tr> <td colspan="9">Low Ch</td> </tr> <tr> <td>1712.50</td> <td>18.07</td> <td>V</td> <td>0.9</td> <td>8.2</td> <td>25.41</td> <td>30.0</td> <td>-4.6</td> <td></td> </tr> <tr> <td>1712.50</td> <td>16.10</td> <td>H</td> <td>0.9</td> <td>8.2</td> <td>23.44</td> <td>30.0</td> <td>-6.6</td> <td></td> </tr> <tr> <td colspan="9">Mid Ch</td> </tr> <tr> <td>1732.50</td> <td>17.81</td> <td>V</td> <td>0.9</td> <td>8.2</td> <td>25.08</td> <td>30.0</td> <td>-4.9</td> <td></td> </tr> <tr> <td>1732.50</td> <td>15.85</td> <td>H</td> <td>0.9</td> <td>8.2</td> <td>23.12</td> <td>30.0</td> <td>-6.9</td> <td></td> </tr> <tr> <td colspan="9">High Ch</td> </tr> <tr> <td>1752.50</td> <td>16.70</td> <td>V</td> <td>0.9</td> <td>8.1</td> <td>23.90</td> <td>30.0</td> <td>-6.1</td> <td></td> </tr> <tr> <td>1752.50</td> <td>13.36</td> <td>H</td> <td>0.9</td> <td>8.1</td> <td>20.56</td> <td>30.0</td> <td>-9.4</td> <td></td> </tr> <tr> <td colspan="9" style="text-align: center;">0</td> </tr> </tbody> </table>									f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	Low Ch									1712.50	18.07	V	0.9	8.2	25.41	30.0	-4.6		1712.50	16.10	H	0.9	8.2	23.44	30.0	-6.6		Mid Ch									1732.50	17.81	V	0.9	8.2	25.08	30.0	-4.9		1732.50	15.85	H	0.9	8.2	23.12	30.0	-6.9		High Ch									1752.50	16.70	V	0.9	8.1	23.90	30.0	-6.1		1752.50	13.36	H	0.9	8.1	20.56	30.0	-9.4		0								
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes																																																																																																			
Low Ch																																																																																																											
1712.50	18.07	V	0.9	8.2	25.41	30.0	-4.6																																																																																																				
1712.50	16.10	H	0.9	8.2	23.44	30.0	-6.6																																																																																																				
Mid Ch																																																																																																											
1732.50	17.81	V	0.9	8.2	25.08	30.0	-4.9																																																																																																				
1732.50	15.85	H	0.9	8.2	23.12	30.0	-6.9																																																																																																				
High Ch																																																																																																											
1752.50	16.70	V	0.9	8.1	23.90	30.0	-6.1																																																																																																				
1752.50	13.36	H	0.9	8.1	20.56	30.0	-9.4																																																																																																				
0																																																																																																											

Band LTE4 5MHz QPSK	High Frequency Substitution Measurement UL Verification Services, Inc.																																																																																																	
	Company:		LG																																																																																															
	Project #:		15I21552																																																																																															
	Date:		8/25/2015																																																																																															
	Test Engineer:		R. Alegre																																																																																															
	Configuration:		EUT only																																																																																															
	Location:		Chamber C																																																																																															
	Mode:		LTE_QPSK Band 4 Fundamentals, 5MHz Bandwidth																																																																																															
	Test Equipment:																																																																																																	
	Receiving: Horn T119, and Chamber C SMA Cables Substitution: Horn T59, Xft SMA Cable (SN # 506392) Warehouse																																																																																																	
<table border="1"> <thead> <tr> <th>f MHz</th> <th>SG reading (dBm)</th> <th>Ant. Pol. (H/V)</th> <th>Cable Loss (dB)</th> <th>Antenna Gain (dBi)</th> <th>EIRP (dBm)</th> <th>Limit (dBm)</th> <th>Delta (dB)</th> <th>Notes</th> </tr> </thead> <tbody> <tr> <td colspan="9">Low Ch</td> </tr> <tr> <td>1712.50</td> <td>18.71</td> <td>V</td> <td>0.9</td> <td>8.2</td> <td>26.05</td> <td>30.0</td> <td>-3.9</td> <td></td> </tr> <tr> <td>1712.50</td> <td>17.11</td> <td>H</td> <td>0.9</td> <td>8.2</td> <td>24.45</td> <td>30.0</td> <td>-5.5</td> <td></td> </tr> <tr> <td colspan="9">Mid Ch</td> </tr> <tr> <td>1732.50</td> <td>18.54</td> <td>V</td> <td>0.9</td> <td>8.2</td> <td>25.81</td> <td>30.0</td> <td>-4.2</td> <td></td> </tr> <tr> <td>1732.50</td> <td>16.62</td> <td>H</td> <td>0.9</td> <td>8.2</td> <td>23.89</td> <td>30.0</td> <td>-6.1</td> <td></td> </tr> <tr> <td colspan="9">High Ch</td> </tr> <tr> <td>1752.50</td> <td>17.31</td> <td>V</td> <td>0.9</td> <td>8.1</td> <td>24.51</td> <td>30.0</td> <td>-5.5</td> <td></td> </tr> <tr> <td>1752.50</td> <td>14.10</td> <td>H</td> <td>0.9</td> <td>8.1</td> <td>21.30</td> <td>30.0</td> <td>-8.7</td> <td></td> </tr> </tbody> </table>									f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	Low Ch									1712.50	18.71	V	0.9	8.2	26.05	30.0	-3.9		1712.50	17.11	H	0.9	8.2	24.45	30.0	-5.5		Mid Ch									1732.50	18.54	V	0.9	8.2	25.81	30.0	-4.2		1732.50	16.62	H	0.9	8.2	23.89	30.0	-6.1		High Ch									1752.50	17.31	V	0.9	8.1	24.51	30.0	-5.5		1752.50	14.10	H	0.9	8.1	21.30	30.0	-8.7	
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes																																																																																										
Low Ch																																																																																																		
1712.50	18.71	V	0.9	8.2	26.05	30.0	-3.9																																																																																											
1712.50	17.11	H	0.9	8.2	24.45	30.0	-5.5																																																																																											
Mid Ch																																																																																																		
1732.50	18.54	V	0.9	8.2	25.81	30.0	-4.2																																																																																											
1732.50	16.62	H	0.9	8.2	23.89	30.0	-6.1																																																																																											
High Ch																																																																																																		
1752.50	17.31	V	0.9	8.1	24.51	30.0	-5.5																																																																																											
1752.50	14.10	H	0.9	8.1	21.30	30.0	-8.7																																																																																											

Band LTE4 3MHz 16QAM	High Frequency Substitution Measurement UL Verification Services, Inc.																																																																																																
	Company:		LG																																																																																														
	Project #:		15I21552																																																																																														
	Date:		8/25/2015																																																																																														
	Test Engineer:		R. Alegre																																																																																														
	Configuration:		EUT only																																																																																														
	Location:		Chamber C																																																																																														
	Mode:		LTE_16QAM Band 4 Fundamentals, 3MHz Bandwidth																																																																																														
	Test Equipment:																																																																																																
	Receiving: Horn T119, and Chamber C SMA Cables Substitution: Horn T59, Xft SMA Cable (SN # 506392) Warehouse																																																																																																
<table border="1"> <thead> <tr> <th>f MHz</th> <th>SG reading (dBm)</th> <th>Ant. Pol. (H/V)</th> <th>Cable Loss (dB)</th> <th>Antenna Gain (dBi)</th> <th>EIRP (dBm)</th> <th>Limit (dBm)</th> <th>Delta (dB)</th> <th>Notes</th> </tr> </thead> <tbody> <tr> <td colspan="9">Low Ch</td> </tr> <tr> <td>1711.50</td> <td>18.08</td> <td>V</td> <td>0.9</td> <td>8.2</td> <td>25.43</td> <td>30.0</td> <td>-4.6</td> <td></td> </tr> <tr> <td>1711.50</td> <td>16.13</td> <td>H</td> <td>0.9</td> <td>8.2</td> <td>23.48</td> <td>30.0</td> <td>-6.5</td> <td></td> </tr> <tr> <td colspan="9">Mid Ch</td> </tr> <tr> <td>1732.50</td> <td>17.76</td> <td>V</td> <td>0.9</td> <td>8.2</td> <td>25.03</td> <td>30.0</td> <td>-5.0</td> <td></td> </tr> <tr> <td>1732.50</td> <td>15.84</td> <td>H</td> <td>0.9</td> <td>8.2</td> <td>23.11</td> <td>30.0</td> <td>-6.9</td> <td></td> </tr> <tr> <td colspan="9">High Ch</td> </tr> <tr> <td>1753.50</td> <td>16.50</td> <td>V</td> <td>0.9</td> <td>8.1</td> <td>23.69</td> <td>30.0</td> <td>-6.3</td> <td></td> </tr> <tr> <td>1753.50</td> <td>13.36</td> <td>H</td> <td>0.9</td> <td>8.1</td> <td>20.55</td> <td>30.0</td> <td>-9.4</td> <td></td> </tr> </tbody> </table>								f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	Low Ch									1711.50	18.08	V	0.9	8.2	25.43	30.0	-4.6		1711.50	16.13	H	0.9	8.2	23.48	30.0	-6.5		Mid Ch									1732.50	17.76	V	0.9	8.2	25.03	30.0	-5.0		1732.50	15.84	H	0.9	8.2	23.11	30.0	-6.9		High Ch									1753.50	16.50	V	0.9	8.1	23.69	30.0	-6.3		1753.50	13.36	H	0.9	8.1	20.55	30.0	-9.4	
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes																																																																																									
Low Ch																																																																																																	
1711.50	18.08	V	0.9	8.2	25.43	30.0	-4.6																																																																																										
1711.50	16.13	H	0.9	8.2	23.48	30.0	-6.5																																																																																										
Mid Ch																																																																																																	
1732.50	17.76	V	0.9	8.2	25.03	30.0	-5.0																																																																																										
1732.50	15.84	H	0.9	8.2	23.11	30.0	-6.9																																																																																										
High Ch																																																																																																	
1753.50	16.50	V	0.9	8.1	23.69	30.0	-6.3																																																																																										
1753.50	13.36	H	0.9	8.1	20.55	30.0	-9.4																																																																																										

Band LTE4 3MHz QPSK	High Frequency Substitution Measurement UL Verification Services, Inc.																																																																																																	
	Company:		LG																																																																																															
	Project #:		15I21552																																																																																															
	Date:		8/25/2015																																																																																															
	Test Engineer:		R. Alegre																																																																																															
	Configuration:		EUT only																																																																																															
	Location:		Chamber C																																																																																															
	Mode:		LTE_QPSK Band 4 Fundamentals, 3MHz Bandwidth																																																																																															
	Test Equipment:		Receiving: Horn T119, and Chamber C SMA Cables Substitution: Horn T59, Xft SMA Cable (SN # 506392) Warehouse																																																																																															
	<table border="1"> <thead> <tr> <th>f MHz</th> <th>SG reading (dBm)</th> <th>Ant. Pol. (H/V)</th> <th>Cable Loss (dB)</th> <th>Antenna Gain (dBi)</th> <th>EIRP (dBm)</th> <th>Limit (dBm)</th> <th>Delta (dB)</th> <th>Notes</th> </tr> </thead> <tbody> <tr> <td colspan="9">Low Ch</td> </tr> <tr> <td>1711.50</td> <td>18.72</td> <td>V</td> <td>0.9</td> <td>8.2</td> <td>26.07</td> <td>30.0</td> <td>-3.9</td> <td></td> </tr> <tr> <td>1711.50</td> <td>17.16</td> <td>H</td> <td>0.9</td> <td>8.2</td> <td>24.51</td> <td>30.0</td> <td>-5.5</td> <td></td> </tr> <tr> <td colspan="9">Mid Ch</td> </tr> <tr> <td>1732.50</td> <td>18.55</td> <td>V</td> <td>0.9</td> <td>8.2</td> <td>25.82</td> <td>30.0</td> <td>-4.2</td> <td></td> </tr> <tr> <td>1732.50</td> <td>16.61</td> <td>H</td> <td>0.9</td> <td>8.2</td> <td>23.88</td> <td>30.0</td> <td>-6.1</td> <td></td> </tr> <tr> <td colspan="9">High Ch</td> </tr> <tr> <td>1753.50</td> <td>17.33</td> <td>V</td> <td>0.9</td> <td>8.1</td> <td>24.52</td> <td>30.0</td> <td>-5.5</td> <td></td> </tr> <tr> <td>1753.50</td> <td>14.12</td> <td>H</td> <td>0.9</td> <td>8.1</td> <td>21.31</td> <td>30.0</td> <td>-8.7</td> <td></td> </tr> </tbody> </table>									f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	Low Ch									1711.50	18.72	V	0.9	8.2	26.07	30.0	-3.9		1711.50	17.16	H	0.9	8.2	24.51	30.0	-5.5		Mid Ch									1732.50	18.55	V	0.9	8.2	25.82	30.0	-4.2		1732.50	16.61	H	0.9	8.2	23.88	30.0	-6.1		High Ch									1753.50	17.33	V	0.9	8.1	24.52	30.0	-5.5		1753.50	14.12	H	0.9	8.1	21.31	30.0	-8.7
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes																																																																																										
Low Ch																																																																																																		
1711.50	18.72	V	0.9	8.2	26.07	30.0	-3.9																																																																																											
1711.50	17.16	H	0.9	8.2	24.51	30.0	-5.5																																																																																											
Mid Ch																																																																																																		
1732.50	18.55	V	0.9	8.2	25.82	30.0	-4.2																																																																																											
1732.50	16.61	H	0.9	8.2	23.88	30.0	-6.1																																																																																											
High Ch																																																																																																		
1753.50	17.33	V	0.9	8.1	24.52	30.0	-5.5																																																																																											
1753.50	14.12	H	0.9	8.1	21.31	30.0	-8.7																																																																																											

Band LTE4 1.4MHz 16QAM	High Frequency Substitution Measurement UL Verification Services, Inc.									
	Company: LG Project #: 15I21552 Date: 8/25/2015 Test Engineer: R.Alegre Configuration: EUT only Location: Chamber C Mode: LTE_16QAM Band 4 Fundamentals, 1.4MHz Bandwidth									
	Test Equipment: Receiving: Horn T119, and Chamber C SMA Cables Substitution: Horn T59, Xft SMA Cable (SN # 506392) Warehouse									
	f	SG reading	Ant. Pol.	Cable Loss	Antenna Gain	EIRP	Limit	Delta	Notes	
	MHz	(dBm)	(H/V)	(dB)	(dBi)	(dBm)	(dBm)	(dB)		
	Low Ch									
	1710.70	18.10	V	0.9	8.3	25.45	30.0	-4.5		
	1710.70	16.12	H	0.9	8.3	23.47	30.0	-6.5		
	Mid Ch									
	1732.50	17.76	V	0.9	8.2	25.03	30.0	-5.0		
1732.50	15.80	H	0.9	8.2	23.07	30.0	-6.9			
High Ch										
1754.30	16.47	V	0.9	8.1	23.66	30.0	-6.3			
1754.30	13.33	H	0.9	8.1	20.52	30.0	-9.5			

Band LTE4 1.4MHz QPSK	High Frequency Substitution Measurement UL Verification Services, Inc.									
	Company: LG Project #: 15I21552 Date: 8/25/2015 Test Engineer: R.Alegre Configuration: EUT only Location: Chamber C Mode: LTE_QPSK Band 4 Fundamentals, 1.4MHz Bandwidth									
	Test Equipment: Receiving: Horn T119, and Chamber C SMA Cables Substitution: Horn T59, Xft SMA Cable (SN # 506392) Warehouse									
	f	SG reading	Ant. Pol.	Cable Loss	Antenna Gain	EIRP	Limit	Delta	Notes	
	MHz	(dBm)	(H/V)	(dB)	(dBi)	(dBm)	(dBm)	(dB)		
	Low Ch									
	1710.70	18.75	V	0.9	8.3	26.10	30.0	-3.9		
	1710.70	17.15	H	0.9	8.3	24.50	30.0	-5.5		
	Mid Ch									
	1732.50	18.49	V	0.9	8.2	25.76	30.0	-4.2		
1732.50	16.59	H	0.9	8.2	23.86	30.0	-6.1			
High Ch										
1754.30	17.32	V	0.9	8.1	24.51	30.0	-5.5			
1754.30	14.11	H	0.9	8.1	21.30	30.0	-8.7			

LTE Band 5

Band LTE5 10MHz 16QAM	High Frequency Substitution Measurement UL Verification Services, Inc.																																																																																																	
	Company: LG																																																																																																	
	Project #: 15I21552																																																																																																	
	Date: 8/27/2015																																																																																																	
	Test Engineer: D. Mun & J. Ko																																																																																																	
	Configuration: EUT only																																																																																																	
	Location: Chamber B																																																																																																	
	Mode: LTE_16QAM Band 5 Fundamentals, 10MHz Bandwidth																																																																																																	
	Test Equipment:																																																																																																	
	Receiving: Hybrid T243, and Chamber B SMA Cables Substitution: Dipole T416, Xft SMA Cable (SN # SERIALNUMBER) Warehouse																																																																																																	
<table border="1"> <thead> <tr> <th>f MHz</th> <th>SG reading (dBm)</th> <th>Ant. Pol. (H/V)</th> <th>Cable Loss (dB)</th> <th>Antenna Gain (dBd)</th> <th>ERP (dBm)</th> <th>Limit (dBm)</th> <th>Delta (dB)</th> <th>Notes</th> </tr> </thead> <tbody> <tr> <td colspan="9">Low Ch</td> </tr> <tr> <td>829.00</td> <td>14.67</td> <td>V</td> <td>0.9</td> <td>0.0</td> <td>13.77</td> <td>38.5</td> <td>-24.7</td> <td></td> </tr> <tr> <td>829.00</td> <td>22.18</td> <td>H</td> <td>0.9</td> <td>0.0</td> <td>21.28</td> <td>38.5</td> <td>-17.2</td> <td></td> </tr> <tr> <td colspan="9">Mid Ch</td> </tr> <tr> <td>836.50</td> <td>14.77</td> <td>V</td> <td>0.9</td> <td>0.0</td> <td>13.87</td> <td>38.5</td> <td>-24.6</td> <td></td> </tr> <tr> <td>836.50</td> <td>21.79</td> <td>H</td> <td>0.9</td> <td>0.0</td> <td>20.89</td> <td>38.5</td> <td>-17.6</td> <td></td> </tr> <tr> <td colspan="9">High Ch</td> </tr> <tr> <td>844.00</td> <td>13.92</td> <td>V</td> <td>0.9</td> <td>0.0</td> <td>13.02</td> <td>38.5</td> <td>-25.5</td> <td></td> </tr> <tr> <td>844.00</td> <td>21.88</td> <td>H</td> <td>0.9</td> <td>0.0</td> <td>20.98</td> <td>38.5</td> <td>-17.5</td> <td></td> </tr> </tbody> </table>									f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes	Low Ch									829.00	14.67	V	0.9	0.0	13.77	38.5	-24.7		829.00	22.18	H	0.9	0.0	21.28	38.5	-17.2		Mid Ch									836.50	14.77	V	0.9	0.0	13.87	38.5	-24.6		836.50	21.79	H	0.9	0.0	20.89	38.5	-17.6		High Ch									844.00	13.92	V	0.9	0.0	13.02	38.5	-25.5		844.00	21.88	H	0.9	0.0	20.98	38.5	-17.5	
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes																																																																																										
Low Ch																																																																																																		
829.00	14.67	V	0.9	0.0	13.77	38.5	-24.7																																																																																											
829.00	22.18	H	0.9	0.0	21.28	38.5	-17.2																																																																																											
Mid Ch																																																																																																		
836.50	14.77	V	0.9	0.0	13.87	38.5	-24.6																																																																																											
836.50	21.79	H	0.9	0.0	20.89	38.5	-17.6																																																																																											
High Ch																																																																																																		
844.00	13.92	V	0.9	0.0	13.02	38.5	-25.5																																																																																											
844.00	21.88	H	0.9	0.0	20.98	38.5	-17.5																																																																																											

Band LTE5 5MHz 16QAM	High Frequency Substitution Measurement UL Verification Services, Inc.								
	Company:		LG						
	Project #:		15I21552						
	Date:		8/27/2015						
	Test Engineer:		D. Mun & J. Ko						
	Configuration:		EUT only						
	Location:		Chamber B						
	Mode:		LTE_16QAM Band 5 Fundamentals, 5MHz Bandwidth						
	Test Equipment:								
	Receiving: Hybrid T243, and Chamber B SMA Cables Substitution: Dipole T416, Xft SMA Cable (SN # SERIALNUMBER) Warehouse								
f		SG reading	Ant. Pol.	Cable Loss	Antenna Gain	ERP	Limit	Delta	Notes
MHz		(dBm)	(H/V)	(dB)	(dBd)	(dBm)	(dBm)	(dB)	
Low Ch									
826.50		13.74	V	0.9	0.0	12.84	38.5	-25.7	
826.50		21.63	H	0.9	0.0	20.73	38.5	-17.8	
Mid Ch									
836.50		13.65	V	0.9	0.0	12.75	38.5	-25.8	
836.50		21.65	H	0.9	0.0	20.75	38.5	-17.8	
High Ch									
846.50		13.18	V	0.9	0.0	12.28	38.5	-26.2	
846.50		21.36	H	0.9	0.0	20.46	38.5	-18.0	

Band LTE5 5MHz QPSK	High Frequency Substitution Measurement UL Verification Services, Inc.																																																																																																					
	Company:		LG																																																																																																			
	Project #:		15I21552																																																																																																			
	Date:		8/27/2015																																																																																																			
	Test Engineer:		D. Mun & J. Ko																																																																																																			
	Configuration:		EUT only																																																																																																			
	Location:		Chamber B																																																																																																			
	Mode:		LTE_QPSK Band 5 Fundamentals, 5MHz Bandwidth																																																																																																			
	Test Equipment:		Receiving: Hybrid T243, and Chamber B SMA Cables Substitution: Dipole T416, Xft SMA Cable (SN # SERIALNUMBER) Warehouse																																																																																																			
	<table border="1"> <thead> <tr> <th>f MHz</th> <th>SG reading (dBm)</th> <th>Ant. Pol. (H/V)</th> <th>Cable Loss (dB)</th> <th>Antenna Gain (dBd)</th> <th>ERP (dBm)</th> <th>Limit (dBm)</th> <th>Delta (dB)</th> <th>Notes</th> </tr> </thead> <tbody> <tr> <td colspan="10">Low Ch</td> </tr> <tr> <td>826.50</td> <td>14.70</td> <td>V</td> <td>0.9</td> <td>0.0</td> <td>13.80</td> <td>38.5</td> <td>-24.7</td> <td></td> </tr> <tr> <td>826.50</td> <td>21.98</td> <td>H</td> <td>0.9</td> <td>0.0</td> <td>21.08</td> <td>38.5</td> <td>-17.4</td> <td></td> </tr> <tr> <td colspan="10">Mid Ch</td> </tr> <tr> <td>836.50</td> <td>14.06</td> <td>V</td> <td>0.9</td> <td>0.0</td> <td>13.16</td> <td>38.5</td> <td>-25.3</td> <td></td> </tr> <tr> <td>836.50</td> <td>21.80</td> <td>H</td> <td>0.9</td> <td>0.0</td> <td>20.90</td> <td>38.5</td> <td>-17.6</td> <td></td> </tr> <tr> <td colspan="10">High Ch</td> </tr> <tr> <td>846.50</td> <td>13.48</td> <td>V</td> <td>0.9</td> <td>0.0</td> <td>12.58</td> <td>38.5</td> <td>-25.9</td> <td></td> </tr> <tr> <td>846.50</td> <td>21.58</td> <td>H</td> <td>0.9</td> <td>0.0</td> <td>20.68</td> <td>38.5</td> <td>-17.8</td> <td></td> </tr> </tbody> </table>										f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes	Low Ch										826.50	14.70	V	0.9	0.0	13.80	38.5	-24.7		826.50	21.98	H	0.9	0.0	21.08	38.5	-17.4		Mid Ch										836.50	14.06	V	0.9	0.0	13.16	38.5	-25.3		836.50	21.80	H	0.9	0.0	20.90	38.5	-17.6		High Ch										846.50	13.48	V	0.9	0.0	12.58	38.5	-25.9		846.50	21.58	H	0.9	0.0	20.68	38.5	-17.8
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes																																																																																														
Low Ch																																																																																																						
826.50	14.70	V	0.9	0.0	13.80	38.5	-24.7																																																																																															
826.50	21.98	H	0.9	0.0	21.08	38.5	-17.4																																																																																															
Mid Ch																																																																																																						
836.50	14.06	V	0.9	0.0	13.16	38.5	-25.3																																																																																															
836.50	21.80	H	0.9	0.0	20.90	38.5	-17.6																																																																																															
High Ch																																																																																																						
846.50	13.48	V	0.9	0.0	12.58	38.5	-25.9																																																																																															
846.50	21.58	H	0.9	0.0	20.68	38.5	-17.8																																																																																															

Band LTE5 3MHz QPSK	High Frequency Substitution Measurement UL Verification Services, Inc.																																																																																																					
	Company:		LG																																																																																																			
	Project #:		15I21552																																																																																																			
	Date:		8/27/2015																																																																																																			
	Test Engineer:		D. Mun & J. Ko																																																																																																			
	Configuration:		EUT only																																																																																																			
	Location:		Chamber B																																																																																																			
	Mode:		LTE_QPSK Band 5 Fundamentals, 3MHz Bandwidth																																																																																																			
	Test Equipment:		Receiving: Hybrid T243, and Chamber B SMA Cables Substitution: Dipole T416, Xft SMA Cable (SN # SERIALNUMBER) Warehouse																																																																																																			
	<table border="1"> <thead> <tr> <th>f MHz</th> <th>SG reading (dBm)</th> <th>Ant. Pol. (H/V)</th> <th>Cable Loss (dB)</th> <th>Antenna Gain (dBd)</th> <th>ERP (dBm)</th> <th>Limit (dBm)</th> <th>Delta (dB)</th> <th>Notes</th> </tr> </thead> <tbody> <tr> <td colspan="10">Low Ch</td> </tr> <tr> <td>825.50</td> <td>13.78</td> <td>V</td> <td>0.9</td> <td>0.0</td> <td>12.88</td> <td>38.5</td> <td>-25.6</td> <td></td> </tr> <tr> <td>825.50</td> <td>22.40</td> <td>H</td> <td>0.9</td> <td>0.0</td> <td>21.50</td> <td>38.5</td> <td>-17.0</td> <td></td> </tr> <tr> <td colspan="10">Mid Ch</td> </tr> <tr> <td>836.50</td> <td>13.45</td> <td>V</td> <td>0.9</td> <td>0.0</td> <td>12.55</td> <td>38.5</td> <td>-26.0</td> <td></td> </tr> <tr> <td>836.50</td> <td>21.56</td> <td>H</td> <td>0.9</td> <td>0.0</td> <td>20.66</td> <td>38.5</td> <td>-17.8</td> <td></td> </tr> <tr> <td colspan="10">High Ch</td> </tr> <tr> <td>847.50</td> <td>14.68</td> <td>V</td> <td>0.9</td> <td>0.0</td> <td>13.78</td> <td>38.5</td> <td>-24.7</td> <td></td> </tr> <tr> <td>847.50</td> <td>22.59</td> <td>H</td> <td>0.9</td> <td>0.0</td> <td>21.69</td> <td>38.5</td> <td>-16.8</td> <td></td> </tr> </tbody> </table>										f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes	Low Ch										825.50	13.78	V	0.9	0.0	12.88	38.5	-25.6		825.50	22.40	H	0.9	0.0	21.50	38.5	-17.0		Mid Ch										836.50	13.45	V	0.9	0.0	12.55	38.5	-26.0		836.50	21.56	H	0.9	0.0	20.66	38.5	-17.8		High Ch										847.50	14.68	V	0.9	0.0	13.78	38.5	-24.7		847.50	22.59	H	0.9	0.0	21.69	38.5	-16.8
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes																																																																																														
Low Ch																																																																																																						
825.50	13.78	V	0.9	0.0	12.88	38.5	-25.6																																																																																															
825.50	22.40	H	0.9	0.0	21.50	38.5	-17.0																																																																																															
Mid Ch																																																																																																						
836.50	13.45	V	0.9	0.0	12.55	38.5	-26.0																																																																																															
836.50	21.56	H	0.9	0.0	20.66	38.5	-17.8																																																																																															
High Ch																																																																																																						
847.50	14.68	V	0.9	0.0	13.78	38.5	-24.7																																																																																															
847.50	22.59	H	0.9	0.0	21.69	38.5	-16.8																																																																																															

Band LTE5 1.4MHz 16QAM	High Frequency Substitution Measurement UL Verification Services, Inc.																																																																																																	
	Company:		LG																																																																																															
	Project #:		15I21552																																																																																															
	Date:		8/27/2015																																																																																															
	Test Engineer:		D. Mun & J, Ko																																																																																															
	Configuration:		EUT only																																																																																															
	Location:		Chamber B																																																																																															
	Mode:		LTE_16QAM Band 5 Fundamentals, 1.4MHz Bandwidth																																																																																															
	Test Equipment:		Receiving: Hybrid T243, and Chamber B SMA Cables Substitution: Dipole T416, Xft SMA Cable (SN # SERIALNUMBER) Warehouse																																																																																															
<table border="1"> <thead> <tr> <th>f MHz</th> <th>SG reading (dBm)</th> <th>Ant. Pol. (H/V)</th> <th>Cable Loss (dB)</th> <th>Antenna Gain (dBd)</th> <th>ERP (dBm)</th> <th>Limit (dBm)</th> <th>Delta (dB)</th> <th>Notes</th> </tr> </thead> <tbody> <tr> <td colspan="9">Low Ch</td> </tr> <tr> <td>824.70</td> <td>14.76</td> <td>V</td> <td>0.9</td> <td>0.0</td> <td>13.86</td> <td>38.5</td> <td>-24.6</td> <td></td> </tr> <tr> <td>824.70</td> <td>22.48</td> <td>H</td> <td>0.9</td> <td>0.0</td> <td>21.58</td> <td>38.5</td> <td>-16.9</td> <td></td> </tr> <tr> <td colspan="9">Mid Ch</td> </tr> <tr> <td>836.50</td> <td>14.24</td> <td>V</td> <td>0.9</td> <td>0.0</td> <td>13.34</td> <td>38.5</td> <td>-25.2</td> <td></td> </tr> <tr> <td>836.50</td> <td>21.59</td> <td>H</td> <td>0.9</td> <td>0.0</td> <td>20.69</td> <td>38.5</td> <td>-17.8</td> <td></td> </tr> <tr> <td colspan="9">High Ch</td> </tr> <tr> <td>848.30</td> <td>14.89</td> <td>V</td> <td>0.9</td> <td>0.0</td> <td>13.99</td> <td>38.5</td> <td>-24.5</td> <td></td> </tr> <tr> <td>848.30</td> <td>22.66</td> <td>H</td> <td>0.9</td> <td>0.0</td> <td>21.76</td> <td>38.5</td> <td>-16.7</td> <td></td> </tr> </tbody> </table>									f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes	Low Ch									824.70	14.76	V	0.9	0.0	13.86	38.5	-24.6		824.70	22.48	H	0.9	0.0	21.58	38.5	-16.9		Mid Ch									836.50	14.24	V	0.9	0.0	13.34	38.5	-25.2		836.50	21.59	H	0.9	0.0	20.69	38.5	-17.8		High Ch									848.30	14.89	V	0.9	0.0	13.99	38.5	-24.5		848.30	22.66	H	0.9	0.0	21.76	38.5	-16.7	
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes																																																																																										
Low Ch																																																																																																		
824.70	14.76	V	0.9	0.0	13.86	38.5	-24.6																																																																																											
824.70	22.48	H	0.9	0.0	21.58	38.5	-16.9																																																																																											
Mid Ch																																																																																																		
836.50	14.24	V	0.9	0.0	13.34	38.5	-25.2																																																																																											
836.50	21.59	H	0.9	0.0	20.69	38.5	-17.8																																																																																											
High Ch																																																																																																		
848.30	14.89	V	0.9	0.0	13.99	38.5	-24.5																																																																																											
848.30	22.66	H	0.9	0.0	21.76	38.5	-16.7																																																																																											

Band LTE7 20MHz QPSK	High Frequency Substitution Measurement UL Verification Services, Inc.																																																																																																	
	Company:		LG																																																																																															
	Project #:		15I21552																																																																																															
	Date:		8/26/2015																																																																																															
	Test Engineer:		R. Alegre																																																																																															
	Configuration:		EUT Only																																																																																															
	Location:		Chamber C																																																																																															
	Mode:		LTE_QPSK Band 7 Fundamentals, 20MHz Bandwidth																																																																																															
	Test Equipment:		Receiving: Horn T119, and Chamber C SMA Cables Substitution: Horn T59, SMA Cable (SN # 506392) Warehouse																																																																																															
	<table border="1"> <thead> <tr> <th>f MHz</th> <th>SG reading (dBm)</th> <th>Ant. Pol. (H/V)</th> <th>Cable Loss (dB)</th> <th>Antenna Gain (dBi)</th> <th>EIRP (dBm)</th> <th>Limit (dBm)</th> <th>Delta (dB)</th> <th>Notes</th> </tr> </thead> <tbody> <tr> <td colspan="9">Low Ch</td> </tr> <tr> <td>2510.00</td> <td>10.50</td> <td>V</td> <td>0.9</td> <td>9.5</td> <td>19.08</td> <td>33.0</td> <td>-13.9</td> <td></td> </tr> <tr> <td>2510.00</td> <td>11.77</td> <td>H</td> <td>0.9</td> <td>9.5</td> <td>20.35</td> <td>33.0</td> <td>-12.6</td> <td></td> </tr> <tr> <td colspan="9">Mid Ch</td> </tr> <tr> <td>2535.00</td> <td>10.27</td> <td>V</td> <td>0.9</td> <td>9.5</td> <td>18.86</td> <td>33.0</td> <td>-14.1</td> <td></td> </tr> <tr> <td>2535.00</td> <td>11.92</td> <td>H</td> <td>0.9</td> <td>9.5</td> <td>20.51</td> <td>33.0</td> <td>-12.5</td> <td></td> </tr> <tr> <td colspan="9">High Ch</td> </tr> <tr> <td>2560.00</td> <td>10.25</td> <td>V</td> <td>0.9</td> <td>9.5</td> <td>18.85</td> <td>33.0</td> <td>-14.2</td> <td></td> </tr> <tr> <td>2560.00</td> <td>12.26</td> <td>H</td> <td>0.9</td> <td>9.5</td> <td>20.86</td> <td>33.0</td> <td>-12.1</td> <td></td> </tr> </tbody> </table>									f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	Low Ch									2510.00	10.50	V	0.9	9.5	19.08	33.0	-13.9		2510.00	11.77	H	0.9	9.5	20.35	33.0	-12.6		Mid Ch									2535.00	10.27	V	0.9	9.5	18.86	33.0	-14.1		2535.00	11.92	H	0.9	9.5	20.51	33.0	-12.5		High Ch									2560.00	10.25	V	0.9	9.5	18.85	33.0	-14.2		2560.00	12.26	H	0.9	9.5	20.86	33.0	-12.1
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes																																																																																										
Low Ch																																																																																																		
2510.00	10.50	V	0.9	9.5	19.08	33.0	-13.9																																																																																											
2510.00	11.77	H	0.9	9.5	20.35	33.0	-12.6																																																																																											
Mid Ch																																																																																																		
2535.00	10.27	V	0.9	9.5	18.86	33.0	-14.1																																																																																											
2535.00	11.92	H	0.9	9.5	20.51	33.0	-12.5																																																																																											
High Ch																																																																																																		
2560.00	10.25	V	0.9	9.5	18.85	33.0	-14.2																																																																																											
2560.00	12.26	H	0.9	9.5	20.86	33.0	-12.1																																																																																											

Band LTE7 15MHz 16QAM	High Frequency Substitution Measurement UL Verification Services, Inc.																																																																																																	
	Company:		LG																																																																																															
	Project #:		15I21552																																																																																															
	Date:		8/26/2015																																																																																															
	Test Engineer:		R. Alegre																																																																																															
	Configuration:		EUT Only																																																																																															
	Location:		Chamber C																																																																																															
	Mode:		LTE_16QAM Band 7 Fundamentals, 15MHz Bandwidth																																																																																															
	Test Equipment:		Receiving: Horn T119, and Chamber C SMA Cables Substitution: Horn T59, SMA Cable (SN # 506392) Warehouse																																																																																															
	<table border="1"> <thead> <tr> <th>f MHz</th> <th>SG reading (dBm)</th> <th>Ant. Pol. (H/V)</th> <th>Cable Loss (dB)</th> <th>Antenna Gain (dBi)</th> <th>EIRP (dBm)</th> <th>Limit (dBm)</th> <th>Delta (dB)</th> <th>Notes</th> </tr> </thead> <tbody> <tr> <td colspan="9">Low Ch</td> </tr> <tr> <td>2507.50</td> <td>9.64</td> <td>V</td> <td>0.9</td> <td>9.5</td> <td>18.22</td> <td>33.0</td> <td>-14.8</td> <td></td> </tr> <tr> <td>2507.50</td> <td>11.39</td> <td>H</td> <td>0.9</td> <td>9.5</td> <td>19.97</td> <td>33.0</td> <td>-13.0</td> <td></td> </tr> <tr> <td colspan="9">Mid Ch</td> </tr> <tr> <td>2535.00</td> <td>9.51</td> <td>V</td> <td>0.9</td> <td>9.5</td> <td>18.10</td> <td>33.0</td> <td>-14.9</td> <td></td> </tr> <tr> <td>2535.00</td> <td>10.98</td> <td>H</td> <td>0.9</td> <td>9.5</td> <td>19.57</td> <td>33.0</td> <td>-13.4</td> <td></td> </tr> <tr> <td colspan="9">High Ch</td> </tr> <tr> <td>2562.50</td> <td>9.26</td> <td>V</td> <td>0.9</td> <td>9.5</td> <td>17.86</td> <td>33.0</td> <td>-15.1</td> <td></td> </tr> <tr> <td>2562.50</td> <td>11.52</td> <td>H</td> <td>0.9</td> <td>9.5</td> <td>20.12</td> <td>33.0</td> <td>-12.9</td> <td></td> </tr> </tbody> </table>									f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	Low Ch									2507.50	9.64	V	0.9	9.5	18.22	33.0	-14.8		2507.50	11.39	H	0.9	9.5	19.97	33.0	-13.0		Mid Ch									2535.00	9.51	V	0.9	9.5	18.10	33.0	-14.9		2535.00	10.98	H	0.9	9.5	19.57	33.0	-13.4		High Ch									2562.50	9.26	V	0.9	9.5	17.86	33.0	-15.1		2562.50	11.52	H	0.9	9.5	20.12	33.0	-12.9
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes																																																																																										
Low Ch																																																																																																		
2507.50	9.64	V	0.9	9.5	18.22	33.0	-14.8																																																																																											
2507.50	11.39	H	0.9	9.5	19.97	33.0	-13.0																																																																																											
Mid Ch																																																																																																		
2535.00	9.51	V	0.9	9.5	18.10	33.0	-14.9																																																																																											
2535.00	10.98	H	0.9	9.5	19.57	33.0	-13.4																																																																																											
High Ch																																																																																																		
2562.50	9.26	V	0.9	9.5	17.86	33.0	-15.1																																																																																											
2562.50	11.52	H	0.9	9.5	20.12	33.0	-12.9																																																																																											

Band LTE7 15MHz QPSK	High Frequency Substitution Measurement UL Verification Services, Inc.																																																																																																	
	Company:		LG																																																																																															
	Project #:		15I21552																																																																																															
	Date:		8/26/2015																																																																																															
	Test Engineer:		R.Alegre																																																																																															
	Configuration:		EUT Only																																																																																															
	Location:		Chamber C																																																																																															
	Mode:		LTE_QPSK Band 7 Fundamentals, 15MHz Bandwidth																																																																																															
	Test Equipment:		Receiving: Horn T119, and Chamber C SMA Cables Substitution: Horn T59, SMA Cable (SN # 506392) Warehouse																																																																																															
	<table border="1"> <thead> <tr> <th>f MHz</th> <th>SG reading (dBm)</th> <th>Ant. Pol. (H/V)</th> <th>Cable Loss (dB)</th> <th>Antenna Gain (dBi)</th> <th>EIRP (dBm)</th> <th>Limit (dBm)</th> <th>Delta (dB)</th> <th>Notes</th> </tr> </thead> <tbody> <tr> <td colspan="9">Low Ch</td> </tr> <tr> <td>2507.50</td> <td>10.49</td> <td>V</td> <td>0.9</td> <td>9.5</td> <td>19.07</td> <td>33.0</td> <td>-13.9</td> <td></td> </tr> <tr> <td>2507.50</td> <td>11.90</td> <td>H</td> <td>0.9</td> <td>9.5</td> <td>20.48</td> <td>33.0</td> <td>-12.5</td> <td></td> </tr> <tr> <td colspan="9">Mid Ch</td> </tr> <tr> <td>2535.00</td> <td>10.38</td> <td>V</td> <td>0.9</td> <td>9.5</td> <td>18.97</td> <td>33.0</td> <td>-14.0</td> <td></td> </tr> <tr> <td>2535.00</td> <td>11.83</td> <td>H</td> <td>0.9</td> <td>9.5</td> <td>20.42</td> <td>33.0</td> <td>-12.6</td> <td></td> </tr> <tr> <td colspan="9">High Ch</td> </tr> <tr> <td>2562.50</td> <td>10.25</td> <td>V</td> <td>0.9</td> <td>9.5</td> <td>18.85</td> <td>33.0</td> <td>-14.2</td> <td></td> </tr> <tr> <td>2562.50</td> <td>12.31</td> <td>H</td> <td>0.9</td> <td>9.5</td> <td>20.91</td> <td>33.0</td> <td>-12.1</td> <td></td> </tr> </tbody> </table>									f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	Low Ch									2507.50	10.49	V	0.9	9.5	19.07	33.0	-13.9		2507.50	11.90	H	0.9	9.5	20.48	33.0	-12.5		Mid Ch									2535.00	10.38	V	0.9	9.5	18.97	33.0	-14.0		2535.00	11.83	H	0.9	9.5	20.42	33.0	-12.6		High Ch									2562.50	10.25	V	0.9	9.5	18.85	33.0	-14.2		2562.50	12.31	H	0.9	9.5	20.91	33.0	-12.1
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes																																																																																										
Low Ch																																																																																																		
2507.50	10.49	V	0.9	9.5	19.07	33.0	-13.9																																																																																											
2507.50	11.90	H	0.9	9.5	20.48	33.0	-12.5																																																																																											
Mid Ch																																																																																																		
2535.00	10.38	V	0.9	9.5	18.97	33.0	-14.0																																																																																											
2535.00	11.83	H	0.9	9.5	20.42	33.0	-12.6																																																																																											
High Ch																																																																																																		
2562.50	10.25	V	0.9	9.5	18.85	33.0	-14.2																																																																																											
2562.50	12.31	H	0.9	9.5	20.91	33.0	-12.1																																																																																											

Band LTE7 10MHz 16QAM	High Frequency Substitution Measurement UL Verification Services, Inc.																																																																																																	
	Company:		LG																																																																																															
	Project #:		15I21552																																																																																															
	Date:		8/26/2015																																																																																															
	Test Engineer:		R. Alegre																																																																																															
	Configuration:		EUT Only																																																																																															
	Location:		Chamber C																																																																																															
	Mode:		LTE_16QAM Band 7 Fundamentals, 10MHz Bandwidth																																																																																															
	Test Equipment:		Receiving: Horn T119, and Chamber C SMA Cables Substitution: Horn T59, SMA Cable (SN # 506392) Warehouse																																																																																															
	<table border="1"> <thead> <tr> <th>f MHz</th> <th>SG reading (dBm)</th> <th>Ant. Pol. (H/V)</th> <th>Cable Loss (dB)</th> <th>Antenna Gain (dBi)</th> <th>EIRP (dBm)</th> <th>Limit (dBm)</th> <th>Delta (dB)</th> <th>Notes</th> </tr> </thead> <tbody> <tr> <td colspan="9">Low Ch</td> </tr> <tr> <td>2505.00</td> <td>10.24</td> <td>V</td> <td>0.9</td> <td>9.5</td> <td>18.82</td> <td>33.0</td> <td>-14.2</td> <td></td> </tr> <tr> <td>2505.00</td> <td>11.24</td> <td>H</td> <td>0.9</td> <td>9.5</td> <td>19.82</td> <td>33.0</td> <td>-13.2</td> <td></td> </tr> <tr> <td colspan="9">Mid Ch</td> </tr> <tr> <td>2535.00</td> <td>9.49</td> <td>V</td> <td>0.9</td> <td>9.5</td> <td>18.08</td> <td>33.0</td> <td>-14.9</td> <td></td> </tr> <tr> <td>2535.00</td> <td>11.31</td> <td>H</td> <td>0.9</td> <td>9.5</td> <td>19.90</td> <td>33.0</td> <td>-13.1</td> <td></td> </tr> <tr> <td colspan="9">High Ch</td> </tr> <tr> <td>2565.00</td> <td>9.70</td> <td>V</td> <td>0.9</td> <td>9.5</td> <td>18.30</td> <td>33.0</td> <td>-14.7</td> <td></td> </tr> <tr> <td>2565.00</td> <td>11.27</td> <td>H</td> <td>0.9</td> <td>9.5</td> <td>19.87</td> <td>33.0</td> <td>-13.1</td> <td></td> </tr> </tbody> </table>									f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	Low Ch									2505.00	10.24	V	0.9	9.5	18.82	33.0	-14.2		2505.00	11.24	H	0.9	9.5	19.82	33.0	-13.2		Mid Ch									2535.00	9.49	V	0.9	9.5	18.08	33.0	-14.9		2535.00	11.31	H	0.9	9.5	19.90	33.0	-13.1		High Ch									2565.00	9.70	V	0.9	9.5	18.30	33.0	-14.7		2565.00	11.27	H	0.9	9.5	19.87	33.0	-13.1
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes																																																																																										
Low Ch																																																																																																		
2505.00	10.24	V	0.9	9.5	18.82	33.0	-14.2																																																																																											
2505.00	11.24	H	0.9	9.5	19.82	33.0	-13.2																																																																																											
Mid Ch																																																																																																		
2535.00	9.49	V	0.9	9.5	18.08	33.0	-14.9																																																																																											
2535.00	11.31	H	0.9	9.5	19.90	33.0	-13.1																																																																																											
High Ch																																																																																																		
2565.00	9.70	V	0.9	9.5	18.30	33.0	-14.7																																																																																											
2565.00	11.27	H	0.9	9.5	19.87	33.0	-13.1																																																																																											

Band LTE7 10MHz QPSK	High Frequency Substitution Measurement UL Verification Services, Inc.																																																																																																	
	Company:		LG																																																																																															
	Project #:		15I21552																																																																																															
	Date:		8/26/2015																																																																																															
	Test Engineer:		R. Alegre																																																																																															
	Configuration:		EUT Only																																																																																															
	Location:		Chamber C																																																																																															
	Mode:		LTE_QPSK Band 7 Fundamentals, 10MHz Bandwidth																																																																																															
	Test Equipment:		Receiving: Horn T119, and Chamber C SMA Cables Substitution: Horn T59, SMA Cable (SN # 506392) Warehouse																																																																																															
	<table border="1"> <thead> <tr> <th>f MHz</th> <th>SG reading (dBm)</th> <th>Ant. Pol. (H/V)</th> <th>Cable Loss (dB)</th> <th>Antenna Gain (dBi)</th> <th>EIRP (dBm)</th> <th>Limit (dBm)</th> <th>Delta (dB)</th> <th>Notes</th> </tr> </thead> <tbody> <tr> <td colspan="9">Low Ch</td> </tr> <tr> <td>2505.00</td> <td>10.79</td> <td>V</td> <td>0.9</td> <td>9.5</td> <td>19.37</td> <td>33.0</td> <td>-13.6</td> <td></td> </tr> <tr> <td>2505.00</td> <td>11.87</td> <td>H</td> <td>0.9</td> <td>9.5</td> <td>20.45</td> <td>33.0</td> <td>-12.6</td> <td></td> </tr> <tr> <td colspan="9">Mid Ch</td> </tr> <tr> <td>2535.00</td> <td>10.27</td> <td>V</td> <td>0.9</td> <td>9.5</td> <td>18.86</td> <td>33.0</td> <td>-14.1</td> <td></td> </tr> <tr> <td>2535.00</td> <td>11.99</td> <td>H</td> <td>0.9</td> <td>9.5</td> <td>20.58</td> <td>33.0</td> <td>-12.4</td> <td></td> </tr> <tr> <td colspan="9">High Ch</td> </tr> <tr> <td>2565.00</td> <td>10.44</td> <td>V</td> <td>0.9</td> <td>9.5</td> <td>19.04</td> <td>33.0</td> <td>-14.0</td> <td></td> </tr> <tr> <td>2565.00</td> <td>12.11</td> <td>H</td> <td>0.9</td> <td>9.5</td> <td>20.71</td> <td>33.0</td> <td>-12.3</td> <td></td> </tr> </tbody> </table>									f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	Low Ch									2505.00	10.79	V	0.9	9.5	19.37	33.0	-13.6		2505.00	11.87	H	0.9	9.5	20.45	33.0	-12.6		Mid Ch									2535.00	10.27	V	0.9	9.5	18.86	33.0	-14.1		2535.00	11.99	H	0.9	9.5	20.58	33.0	-12.4		High Ch									2565.00	10.44	V	0.9	9.5	19.04	33.0	-14.0		2565.00	12.11	H	0.9	9.5	20.71	33.0	-12.3
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes																																																																																										
Low Ch																																																																																																		
2505.00	10.79	V	0.9	9.5	19.37	33.0	-13.6																																																																																											
2505.00	11.87	H	0.9	9.5	20.45	33.0	-12.6																																																																																											
Mid Ch																																																																																																		
2535.00	10.27	V	0.9	9.5	18.86	33.0	-14.1																																																																																											
2535.00	11.99	H	0.9	9.5	20.58	33.0	-12.4																																																																																											
High Ch																																																																																																		
2565.00	10.44	V	0.9	9.5	19.04	33.0	-14.0																																																																																											
2565.00	12.11	H	0.9	9.5	20.71	33.0	-12.3																																																																																											

Band LTE7 5MHz 16QAM	High Frequency Substitution Measurement UL Verification Services, Inc.																																																																																																	
	Company:		LG																																																																																															
	Project #:		15I21552																																																																																															
	Date:		8/26/2015																																																																																															
	Test Engineer:		R. Alegre																																																																																															
	Configuration:		EUT Only																																																																																															
	Location:		Chamber C																																																																																															
	Mode:		LTE_16QAM Band 7 Fundamentals, 5MHz Bandwidth																																																																																															
	Test Equipment:																																																																																																	
	Receiving: Horn T119, and Chamber C SMA Cables Substitution: Horn T59, SMA Cable (SN # 506392) Warehouse																																																																																																	
<table border="1"> <thead> <tr> <th>f MHz</th> <th>SG reading (dBm)</th> <th>Ant. Pol. (H/V)</th> <th>Cable Loss (dB)</th> <th>Antenna Gain (dBi)</th> <th>EIRP (dBm)</th> <th>Limit (dBm)</th> <th>Delta (dB)</th> <th>Notes</th> </tr> </thead> <tbody> <tr> <td colspan="9">Low Ch</td> </tr> <tr> <td>2502.50</td> <td>10.16</td> <td>V</td> <td>0.9</td> <td>9.5</td> <td>18.74</td> <td>33.0</td> <td>-14.3</td> <td></td> </tr> <tr> <td>2502.50</td> <td>11.27</td> <td>H</td> <td>0.9</td> <td>9.5</td> <td>19.85</td> <td>33.0</td> <td>-13.2</td> <td></td> </tr> <tr> <td colspan="9">Mid Ch</td> </tr> <tr> <td>2535.00</td> <td>9.49</td> <td>V</td> <td>0.9</td> <td>9.5</td> <td>18.08</td> <td>33.0</td> <td>-14.9</td> <td></td> </tr> <tr> <td>2535.00</td> <td>11.36</td> <td>H</td> <td>0.9</td> <td>9.5</td> <td>19.95</td> <td>33.0</td> <td>-13.1</td> <td></td> </tr> <tr> <td colspan="9">High Ch</td> </tr> <tr> <td>2567.50</td> <td>9.47</td> <td>V</td> <td>0.9</td> <td>9.5</td> <td>18.07</td> <td>33.0</td> <td>-14.9</td> <td></td> </tr> <tr> <td>2567.50</td> <td>11.33</td> <td>H</td> <td>0.9</td> <td>9.5</td> <td>19.93</td> <td>33.0</td> <td>-13.1</td> <td></td> </tr> </tbody> </table>									f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	Low Ch									2502.50	10.16	V	0.9	9.5	18.74	33.0	-14.3		2502.50	11.27	H	0.9	9.5	19.85	33.0	-13.2		Mid Ch									2535.00	9.49	V	0.9	9.5	18.08	33.0	-14.9		2535.00	11.36	H	0.9	9.5	19.95	33.0	-13.1		High Ch									2567.50	9.47	V	0.9	9.5	18.07	33.0	-14.9		2567.50	11.33	H	0.9	9.5	19.93	33.0	-13.1	
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes																																																																																										
Low Ch																																																																																																		
2502.50	10.16	V	0.9	9.5	18.74	33.0	-14.3																																																																																											
2502.50	11.27	H	0.9	9.5	19.85	33.0	-13.2																																																																																											
Mid Ch																																																																																																		
2535.00	9.49	V	0.9	9.5	18.08	33.0	-14.9																																																																																											
2535.00	11.36	H	0.9	9.5	19.95	33.0	-13.1																																																																																											
High Ch																																																																																																		
2567.50	9.47	V	0.9	9.5	18.07	33.0	-14.9																																																																																											
2567.50	11.33	H	0.9	9.5	19.93	33.0	-13.1																																																																																											

Band LTE7 5MHz QPSK	High Frequency Substitution Measurement UL Verification Services, Inc.																																																																																																	
	Company:		LG																																																																																															
	Project #:		15I21552																																																																																															
	Date:		8/26/2015																																																																																															
	Test Engineer:		R. Alegre																																																																																															
	Configuration:		EUT Only																																																																																															
	Location:		Chamber C																																																																																															
	Mode:		LTE_QPSK Band 7 Fundamentals, 5MHz Bandwidth																																																																																															
	Test Equipment:		Receiving: Horn T119, and Chamber C SMA Cables Substitution: Horn T59, SMA Cable (SN # 506392) Warehouse																																																																																															
	<table border="1"> <thead> <tr> <th>f MHz</th> <th>SG reading (dBm)</th> <th>Ant. Pol. (H/V)</th> <th>Cable Loss (dB)</th> <th>Antenna Gain (dBi)</th> <th>EIRP (dBm)</th> <th>Limit (dBm)</th> <th>Delta (dB)</th> <th>Notes</th> </tr> </thead> <tbody> <tr> <td colspan="9">Low Ch</td> </tr> <tr> <td>2502.50</td> <td>10.79</td> <td>V</td> <td>0.9</td> <td>9.5</td> <td>19.37</td> <td>33.0</td> <td>-13.6</td> <td></td> </tr> <tr> <td>2502.50</td> <td>11.80</td> <td>H</td> <td>0.9</td> <td>9.5</td> <td>20.38</td> <td>33.0</td> <td>-12.6</td> <td></td> </tr> <tr> <td colspan="9">Mid Ch</td> </tr> <tr> <td>2535.00</td> <td>10.06</td> <td>V</td> <td>0.9</td> <td>9.5</td> <td>18.65</td> <td>33.0</td> <td>-14.4</td> <td></td> </tr> <tr> <td>2535.00</td> <td>12.06</td> <td>H</td> <td>0.9</td> <td>9.5</td> <td>20.65</td> <td>33.0</td> <td>-12.4</td> <td></td> </tr> <tr> <td colspan="9">High Ch</td> </tr> <tr> <td>2567.50</td> <td>10.40</td> <td>V</td> <td>0.9</td> <td>9.5</td> <td>19.00</td> <td>33.0</td> <td>-14.0</td> <td></td> </tr> <tr> <td>2567.50</td> <td>12.08</td> <td>H</td> <td>0.9</td> <td>9.5</td> <td>20.68</td> <td>33.0</td> <td>-12.3</td> <td></td> </tr> </tbody> </table>									f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	Low Ch									2502.50	10.79	V	0.9	9.5	19.37	33.0	-13.6		2502.50	11.80	H	0.9	9.5	20.38	33.0	-12.6		Mid Ch									2535.00	10.06	V	0.9	9.5	18.65	33.0	-14.4		2535.00	12.06	H	0.9	9.5	20.65	33.0	-12.4		High Ch									2567.50	10.40	V	0.9	9.5	19.00	33.0	-14.0		2567.50	12.08	H	0.9	9.5	20.68	33.0	-12.3
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes																																																																																										
Low Ch																																																																																																		
2502.50	10.79	V	0.9	9.5	19.37	33.0	-13.6																																																																																											
2502.50	11.80	H	0.9	9.5	20.38	33.0	-12.6																																																																																											
Mid Ch																																																																																																		
2535.00	10.06	V	0.9	9.5	18.65	33.0	-14.4																																																																																											
2535.00	12.06	H	0.9	9.5	20.65	33.0	-12.4																																																																																											
High Ch																																																																																																		
2567.50	10.40	V	0.9	9.5	19.00	33.0	-14.0																																																																																											
2567.50	12.08	H	0.9	9.5	20.68	33.0	-12.3																																																																																											

LTE Band 17

Band LTE17 10MHz 16QAM	High Frequency Substitution Measurement UL Verification Services, Inc.								
	Company: LG								
	Project #: 15I21552								
	Date: 8/26/2015								
	Test Engineer: R.Alegre								
	Configuration: EUT only								
	Location: Chamber C								
	Mode: LTE_16QAM Band 17 Fundamentals, 10MHz Bandwidth								
	Test Equipment:								
	Receiving: Hybrid T185, and Chamber C SMA Cables Substitution: Dipole T416, 4ft SMA Cable (SN # 506392) Warehouse								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch								
	709.00	6.02	V	0.9	0.0	5.12	34.8	-29.7	
	709.00	17.29	H	0.9	0.0	16.39	34.8	-18.4	
	Mid Ch								
	710.00	6.01	V	0.9	0.0	5.11	34.8	-29.7	
	710.00	17.24	H	0.9	0.0	16.34	34.8	-18.4	
	High Ch								
	711.00	6.13	V	0.9	0.0	5.23	34.8	-29.5	
	711.00	17.33	H	0.9	0.0	16.43	34.8	-18.3	

Band LTE17 10MHz QPSK	High Frequency Substitution Measurement UL Verification Services, Inc.																																																																																																	
	Company:		LG																																																																																															
	Project #:		15I21552																																																																																															
	Date:		8/26/2015																																																																																															
	Test Engineer:		R. Alegre																																																																																															
	Configuration:		EUT only																																																																																															
	Location:		Chamber C																																																																																															
	Mode:		LTE_QPSK Band 17 Fundamentals, 10MHz Bandwidth																																																																																															
	Test Equipment:		Receiving: Hybrid T185, and Chamber C SMA Cables Substitution: Dipole T416, 4ft SMA Cable (SN # 506392) Warehouse																																																																																															
	<table border="1"> <thead> <tr> <th>f MHz</th> <th>SG reading (dBm)</th> <th>Ant. Pol. (H/V)</th> <th>Cable Loss (dB)</th> <th>Antenna Gain (dBd)</th> <th>ERP (dBm)</th> <th>Limit (dBm)</th> <th>Delta (dB)</th> <th>Notes</th> </tr> </thead> <tbody> <tr> <td colspan="9">Low Ch</td> </tr> <tr> <td>709.00</td> <td>7.10</td> <td>V</td> <td>0.9</td> <td>0.0</td> <td>6.20</td> <td>34.8</td> <td>-28.6</td> <td></td> </tr> <tr> <td>709.00</td> <td>18.10</td> <td>H</td> <td>0.9</td> <td>0.0</td> <td>17.20</td> <td>34.8</td> <td>-17.6</td> <td></td> </tr> <tr> <td colspan="9">Mid Ch</td> </tr> <tr> <td>710.00</td> <td>6.71</td> <td>V</td> <td>0.9</td> <td>0.0</td> <td>5.81</td> <td>34.8</td> <td>-29.0</td> <td></td> </tr> <tr> <td>710.00</td> <td>17.90</td> <td>H</td> <td>0.9</td> <td>0.0</td> <td>17.00</td> <td>34.8</td> <td>-17.8</td> <td></td> </tr> <tr> <td colspan="9">High Ch</td> </tr> <tr> <td>711.00</td> <td>7.09</td> <td>V</td> <td>0.9</td> <td>0.0</td> <td>6.19</td> <td>34.8</td> <td>-28.6</td> <td></td> </tr> <tr> <td>711.00</td> <td>18.11</td> <td>H</td> <td>0.9</td> <td>0.0</td> <td>17.21</td> <td>34.8</td> <td>-17.6</td> <td></td> </tr> </tbody> </table>									f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes	Low Ch									709.00	7.10	V	0.9	0.0	6.20	34.8	-28.6		709.00	18.10	H	0.9	0.0	17.20	34.8	-17.6		Mid Ch									710.00	6.71	V	0.9	0.0	5.81	34.8	-29.0		710.00	17.90	H	0.9	0.0	17.00	34.8	-17.8		High Ch									711.00	7.09	V	0.9	0.0	6.19	34.8	-28.6		711.00	18.11	H	0.9	0.0	17.21	34.8	-17.6
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes																																																																																										
Low Ch																																																																																																		
709.00	7.10	V	0.9	0.0	6.20	34.8	-28.6																																																																																											
709.00	18.10	H	0.9	0.0	17.20	34.8	-17.6																																																																																											
Mid Ch																																																																																																		
710.00	6.71	V	0.9	0.0	5.81	34.8	-29.0																																																																																											
710.00	17.90	H	0.9	0.0	17.00	34.8	-17.8																																																																																											
High Ch																																																																																																		
711.00	7.09	V	0.9	0.0	6.19	34.8	-28.6																																																																																											
711.00	18.11	H	0.9	0.0	17.21	34.8	-17.6																																																																																											

LTE Band 26

Band LTE26 15MHz 16QAM	High Frequency Substitution Measurement UL Verification Services, Inc.																																																																																																	
	Company:		LG																																																																																															
	Project #:		15I21552																																																																																															
	Date:		5/26/2015																																																																																															
	Test Engineer:		Jude Semana																																																																																															
	Configuration:		EUT Only																																																																																															
	Location:		Chamber B																																																																																															
	Mode:		LTE_16QAM Band 26 Fundamentals, 15MHz Bandwidth																																																																																															
	Test Equipment:		Receiving: Horn T243, and Chamber B SMA Cables Substitution: Horn T416 Substitution, T1096 SMA Cable Warehouse																																																																																															
	<table border="1"> <thead> <tr> <th>f MHz</th> <th>SG reading (dBm)</th> <th>Ant. Pol. (H/V)</th> <th>Cable Loss (dB)</th> <th>Antenna Gain (dBd)</th> <th>ERP (dBm)</th> <th>Limit (dBm)</th> <th>Delta (dB)</th> <th>Notes</th> </tr> </thead> <tbody> <tr> <td colspan="9">Low Ch</td> </tr> <tr> <td>831.50</td> <td>13.90</td> <td>V</td> <td>0.9</td> <td>0.0</td> <td>13.00</td> <td>38.5</td> <td>-25.5</td> <td></td> </tr> <tr> <td>831.50</td> <td>21.80</td> <td>H</td> <td>0.9</td> <td>0.0</td> <td>20.90</td> <td>38.5</td> <td>-17.6</td> <td></td> </tr> <tr> <td colspan="9">Mid Ch</td> </tr> <tr> <td>836.50</td> <td>14.00</td> <td>V</td> <td>0.9</td> <td>0.0</td> <td>13.10</td> <td>38.5</td> <td>-25.4</td> <td></td> </tr> <tr> <td>836.50</td> <td>21.78</td> <td>H</td> <td>0.9</td> <td>0.0</td> <td>20.88</td> <td>38.5</td> <td>-17.6</td> <td></td> </tr> <tr> <td colspan="9">High Ch</td> </tr> <tr> <td>841.50</td> <td>11.70</td> <td>V</td> <td>0.9</td> <td>0.0</td> <td>10.80</td> <td>38.5</td> <td>-27.7</td> <td></td> </tr> <tr> <td>841.50</td> <td>21.60</td> <td>H</td> <td>0.9</td> <td>0.0</td> <td>20.70</td> <td>38.5</td> <td>-17.8</td> <td></td> </tr> </tbody> </table>									f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes	Low Ch									831.50	13.90	V	0.9	0.0	13.00	38.5	-25.5		831.50	21.80	H	0.9	0.0	20.90	38.5	-17.6		Mid Ch									836.50	14.00	V	0.9	0.0	13.10	38.5	-25.4		836.50	21.78	H	0.9	0.0	20.88	38.5	-17.6		High Ch									841.50	11.70	V	0.9	0.0	10.80	38.5	-27.7		841.50	21.60	H	0.9	0.0	20.70	38.5	-17.8
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes																																																																																										
Low Ch																																																																																																		
831.50	13.90	V	0.9	0.0	13.00	38.5	-25.5																																																																																											
831.50	21.80	H	0.9	0.0	20.90	38.5	-17.6																																																																																											
Mid Ch																																																																																																		
836.50	14.00	V	0.9	0.0	13.10	38.5	-25.4																																																																																											
836.50	21.78	H	0.9	0.0	20.88	38.5	-17.6																																																																																											
High Ch																																																																																																		
841.50	11.70	V	0.9	0.0	10.80	38.5	-27.7																																																																																											
841.50	21.60	H	0.9	0.0	20.70	38.5	-17.8																																																																																											

Band LTE26 15MHz QPSK	High Frequency Substitution Measurement UL Verification Services, Inc.								
	Company: LG Project #: 15I21552 Date: 5/26/2015 Test Engineer: Jude Semana Configuration: EUT Only Location: Chamber B Mode: LTE_QPSK Band 26 Fundamentals, 15MHz Bandwidth								
	Test Equipment: Receiving: Horn T243, and Chamber B SMA Cables Substitution: Horn T416 Substitution, T1096 SMA Cable Warehouse								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch								
	831.50	14.20	V	0.9	0.0	13.30	38.5	-25.2	
	831.50	22.10	H	0.9	0.0	21.20	38.5	-17.3	
	Mid Ch								
	836.50	14.30	V	0.9	0.0	13.40	38.5	-25.1	
	836.50	22.08	H	0.9	0.0	21.18	38.5	-17.3	
High Ch									
841.50	12.20	V	0.9	0.0	11.30	38.5	-27.2		
841.50	21.90	H	0.9	0.0	21.00	38.5	-17.5		

Band LTE26 10MHz 16QAM	High Frequency Substitution Measurement UL Verification Services, Inc.																																																																																																	
	Company:		LG																																																																																															
	Project #:		15I21552																																																																																															
	Date:		5/26/2015																																																																																															
	Test Engineer:		Jude Semana																																																																																															
	Configuration:		EUT Only																																																																																															
	Location:		Chamber C																																																																																															
	Mode:		LTE_16QAM Band 26 Fundamentals, 10MHz Bandwidth																																																																																															
	Test Equipment:		Receiving: Horn T243, and Chamber B SMA Cables Substitution: Horn T416 Substitution, T1096 SMA Cable Warehouse																																																																																															
	<table border="1"> <thead> <tr> <th>f MHz</th> <th>SG reading (dBm)</th> <th>Ant. Pol. (H/V)</th> <th>Cable Loss (dB)</th> <th>Antenna Gain (dBd)</th> <th>ERP (dBm)</th> <th>Limit (dBm)</th> <th>Delta (dB)</th> <th>Notes</th> </tr> </thead> <tbody> <tr> <td colspan="9">Low Ch</td> </tr> <tr> <td>819.00</td> <td>13.70</td> <td>V</td> <td>0.9</td> <td>0.0</td> <td>12.80</td> <td>50.0</td> <td>-37.2</td> <td></td> </tr> <tr> <td>819.00</td> <td>21.60</td> <td>H</td> <td>0.9</td> <td>0.0</td> <td>20.70</td> <td>50.0</td> <td>-29.3</td> <td></td> </tr> <tr> <td colspan="9">Mid Ch</td> </tr> <tr> <td>831.50</td> <td>13.70</td> <td>V</td> <td>0.9</td> <td>0.0</td> <td>12.80</td> <td>38.5</td> <td>-25.7</td> <td></td> </tr> <tr> <td>831.50</td> <td>21.68</td> <td>H</td> <td>0.9</td> <td>0.0</td> <td>20.78</td> <td>38.5</td> <td>-17.7</td> <td></td> </tr> <tr> <td colspan="9">High Ch</td> </tr> <tr> <td>844.00</td> <td>11.30</td> <td>V</td> <td>0.9</td> <td>0.0</td> <td>10.40</td> <td>38.5</td> <td>-28.1</td> <td></td> </tr> <tr> <td>844.00</td> <td>21.00</td> <td>H</td> <td>0.9</td> <td>0.0</td> <td>20.10</td> <td>38.5</td> <td>-18.4</td> <td></td> </tr> </tbody> </table>									f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes	Low Ch									819.00	13.70	V	0.9	0.0	12.80	50.0	-37.2		819.00	21.60	H	0.9	0.0	20.70	50.0	-29.3		Mid Ch									831.50	13.70	V	0.9	0.0	12.80	38.5	-25.7		831.50	21.68	H	0.9	0.0	20.78	38.5	-17.7		High Ch									844.00	11.30	V	0.9	0.0	10.40	38.5	-28.1		844.00	21.00	H	0.9	0.0	20.10	38.5	-18.4
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes																																																																																										
Low Ch																																																																																																		
819.00	13.70	V	0.9	0.0	12.80	50.0	-37.2																																																																																											
819.00	21.60	H	0.9	0.0	20.70	50.0	-29.3																																																																																											
Mid Ch																																																																																																		
831.50	13.70	V	0.9	0.0	12.80	38.5	-25.7																																																																																											
831.50	21.68	H	0.9	0.0	20.78	38.5	-17.7																																																																																											
High Ch																																																																																																		
844.00	11.30	V	0.9	0.0	10.40	38.5	-28.1																																																																																											
844.00	21.00	H	0.9	0.0	20.10	38.5	-18.4																																																																																											

Band LTE26 10MHz QPSK	High Frequency Substitution Measurement UL Verification Services, Inc.																																																																																																
	Company: LG																																																																																																
	Project #: 15I21552																																																																																																
	Date: 5/26/2015																																																																																																
	Test Engineer: Jude Semana																																																																																																
	Configuration: EUT Only																																																																																																
	Location: Chamber B																																																																																																
	Mode: LTE_QPSK Band 26 Fundamentals, 10MHz Bandwidth																																																																																																
	Test Equipment: Receiving: Horn T243, and Chamber B SMA Cables Substitution: Horn T416 Substitution, T1096 SMA Cable Warehouse																																																																																																
	<table border="1"> <thead> <tr> <th>f MHz</th> <th>SG reading (dBm)</th> <th>Ant. Pol. (H/V)</th> <th>Cable Loss (dB)</th> <th>Antenna Gain (dBd)</th> <th>ERP (dBm)</th> <th>Limit (dBm)</th> <th>Delta (dB)</th> <th>Notes</th> </tr> </thead> <tbody> <tr> <td colspan="9">Low Ch</td> </tr> <tr> <td>819.00</td> <td>13.90</td> <td>V</td> <td>0.9</td> <td>0.0</td> <td>13.00</td> <td>50.0</td> <td>-37.0</td> <td></td> </tr> <tr> <td>819.00</td> <td>21.80</td> <td>H</td> <td>0.9</td> <td>0.0</td> <td>20.90</td> <td>50.0</td> <td>-29.1</td> <td></td> </tr> <tr> <td colspan="9">Mid Ch</td> </tr> <tr> <td>831.50</td> <td>14.00</td> <td>V</td> <td>0.9</td> <td>0.0</td> <td>13.10</td> <td>38.5</td> <td>-25.4</td> <td></td> </tr> <tr> <td>831.50</td> <td>21.98</td> <td>H</td> <td>0.9</td> <td>0.0</td> <td>21.08</td> <td>38.5</td> <td>-17.4</td> <td></td> </tr> <tr> <td colspan="9">High Ch</td> </tr> <tr> <td>844.00</td> <td>11.30</td> <td>V</td> <td>0.9</td> <td>0.0</td> <td>10.40</td> <td>38.5</td> <td>-28.1</td> <td></td> </tr> <tr> <td>844.00</td> <td>21.20</td> <td>H</td> <td>0.9</td> <td>0.0</td> <td>20.30</td> <td>38.5</td> <td>-18.2</td> <td></td> </tr> </tbody> </table>								f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes	Low Ch									819.00	13.90	V	0.9	0.0	13.00	50.0	-37.0		819.00	21.80	H	0.9	0.0	20.90	50.0	-29.1		Mid Ch									831.50	14.00	V	0.9	0.0	13.10	38.5	-25.4		831.50	21.98	H	0.9	0.0	21.08	38.5	-17.4		High Ch									844.00	11.30	V	0.9	0.0	10.40	38.5	-28.1		844.00	21.20	H	0.9	0.0	20.30	38.5	-18.2
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes																																																																																									
Low Ch																																																																																																	
819.00	13.90	V	0.9	0.0	13.00	50.0	-37.0																																																																																										
819.00	21.80	H	0.9	0.0	20.90	50.0	-29.1																																																																																										
Mid Ch																																																																																																	
831.50	14.00	V	0.9	0.0	13.10	38.5	-25.4																																																																																										
831.50	21.98	H	0.9	0.0	21.08	38.5	-17.4																																																																																										
High Ch																																																																																																	
844.00	11.30	V	0.9	0.0	10.40	38.5	-28.1																																																																																										
844.00	21.20	H	0.9	0.0	20.30	38.5	-18.2																																																																																										

Band LTE26 5MHz 16QAM	High Frequency Substitution Measurement UL Verification Services, Inc.																																																																																																	
	Company:		LG																																																																																															
	Project #:		15I21552																																																																																															
	Date:		5/26/2015																																																																																															
	Test Engineer:		Jude Semana																																																																																															
	Configuration:		EUT Only																																																																																															
	Location:		Chamber B																																																																																															
	Mode:		LTE_16QAM Band 26 Fundamentals, 5MHz Bandwidth																																																																																															
	Test Equipment:		Receiving: Horn T243, and Chamber B SMA Cables Substitution: Horn T416 Substitution, T1096 SMA Cable Warehouse																																																																																															
	<table border="1"> <thead> <tr> <th>f MHz</th> <th>SG reading (dBm)</th> <th>Ant. Pol. (H/V)</th> <th>Cable Loss (dB)</th> <th>Antenna Gain (dBd)</th> <th>ERP (dBm)</th> <th>Limit (dBm)</th> <th>Delta (dB)</th> <th>Notes</th> </tr> </thead> <tbody> <tr> <td colspan="9">Low Ch</td> </tr> <tr> <td>816.50</td> <td>14.60</td> <td>V</td> <td>0.9</td> <td>0.0</td> <td>13.70</td> <td>50.0</td> <td>-36.3</td> <td></td> </tr> <tr> <td>816.50</td> <td>22.53</td> <td>H</td> <td>0.9</td> <td>0.0</td> <td>21.63</td> <td>50.0</td> <td>-28.4</td> <td></td> </tr> <tr> <td colspan="9">Mid Ch</td> </tr> <tr> <td>831.50</td> <td>13.70</td> <td>V</td> <td>0.9</td> <td>0.0</td> <td>12.80</td> <td>38.5</td> <td>-25.7</td> <td></td> </tr> <tr> <td>831.50</td> <td>21.82</td> <td>H</td> <td>0.9</td> <td>0.0</td> <td>20.92</td> <td>38.5</td> <td>-17.6</td> <td></td> </tr> <tr> <td colspan="9">High Ch</td> </tr> <tr> <td>846.50</td> <td>12.25</td> <td>V</td> <td>0.9</td> <td>0.0</td> <td>11.35</td> <td>38.5</td> <td>-27.2</td> <td></td> </tr> <tr> <td>846.50</td> <td>21.20</td> <td>H</td> <td>0.9</td> <td>0.0</td> <td>20.30</td> <td>38.5</td> <td>-18.2</td> <td></td> </tr> </tbody> </table>									f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes	Low Ch									816.50	14.60	V	0.9	0.0	13.70	50.0	-36.3		816.50	22.53	H	0.9	0.0	21.63	50.0	-28.4		Mid Ch									831.50	13.70	V	0.9	0.0	12.80	38.5	-25.7		831.50	21.82	H	0.9	0.0	20.92	38.5	-17.6		High Ch									846.50	12.25	V	0.9	0.0	11.35	38.5	-27.2		846.50	21.20	H	0.9	0.0	20.30	38.5	-18.2
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes																																																																																										
Low Ch																																																																																																		
816.50	14.60	V	0.9	0.0	13.70	50.0	-36.3																																																																																											
816.50	22.53	H	0.9	0.0	21.63	50.0	-28.4																																																																																											
Mid Ch																																																																																																		
831.50	13.70	V	0.9	0.0	12.80	38.5	-25.7																																																																																											
831.50	21.82	H	0.9	0.0	20.92	38.5	-17.6																																																																																											
High Ch																																																																																																		
846.50	12.25	V	0.9	0.0	11.35	38.5	-27.2																																																																																											
846.50	21.20	H	0.9	0.0	20.30	38.5	-18.2																																																																																											

Band LTE26 5MHz QPSK	High Frequency Substitution Measurement UL Verification Services, Inc.																																																																																																
	Company: LG																																																																																																
	Project #: 15I21552																																																																																																
	Date: 5/26/2015																																																																																																
	Test Engineer: Jude Semana																																																																																																
	Configuration: EUT Only																																																																																																
	Location: Chamber B																																																																																																
	Mode: LTE_QPSK Band 26 Fundamentals, 5MHz Bandwidth																																																																																																
	Test Equipment:																																																																																																
	Receiving: Horn T243, and Chamber B SMA Cables Substitution: Horn T416 Substitution, T1096 SMA Cable Warehouse																																																																																																
<table border="1"> <thead> <tr> <th>f MHz</th> <th>SG reading (dBm)</th> <th>Ant. Pol. (H/V)</th> <th>Cable Loss (dB)</th> <th>Antenna Gain (dBd)</th> <th>ERP (dBm)</th> <th>Limit (dBm)</th> <th>Delta (dB)</th> <th>Notes</th> </tr> </thead> <tbody> <tr> <td colspan="9">Low Ch</td> </tr> <tr> <td>816.50</td> <td>14.10</td> <td>V</td> <td>0.9</td> <td>0.0</td> <td>13.20</td> <td>50.0</td> <td>-36.8</td> <td></td> </tr> <tr> <td>816.50</td> <td>23.21</td> <td>H</td> <td>0.9</td> <td>0.0</td> <td>22.31</td> <td>50.0</td> <td>-27.7</td> <td></td> </tr> <tr> <td colspan="9">Mid Ch</td> </tr> <tr> <td>831.50</td> <td>13.80</td> <td>V</td> <td>0.9</td> <td>0.0</td> <td>12.90</td> <td>38.5</td> <td>-25.6</td> <td></td> </tr> <tr> <td>831.50</td> <td>21.68</td> <td>H</td> <td>0.9</td> <td>0.0</td> <td>20.78</td> <td>38.5</td> <td>-17.7</td> <td></td> </tr> <tr> <td colspan="9">High Ch</td> </tr> <tr> <td>846.50</td> <td>12.05</td> <td>V</td> <td>0.9</td> <td>0.0</td> <td>11.15</td> <td>38.5</td> <td>-27.4</td> <td></td> </tr> <tr> <td>846.50</td> <td>20.90</td> <td>H</td> <td>0.9</td> <td>0.0</td> <td>20.00</td> <td>38.5</td> <td>-18.5</td> <td></td> </tr> </tbody> </table>								f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes	Low Ch									816.50	14.10	V	0.9	0.0	13.20	50.0	-36.8		816.50	23.21	H	0.9	0.0	22.31	50.0	-27.7		Mid Ch									831.50	13.80	V	0.9	0.0	12.90	38.5	-25.6		831.50	21.68	H	0.9	0.0	20.78	38.5	-17.7		High Ch									846.50	12.05	V	0.9	0.0	11.15	38.5	-27.4		846.50	20.90	H	0.9	0.0	20.00	38.5	-18.5	
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes																																																																																									
Low Ch																																																																																																	
816.50	14.10	V	0.9	0.0	13.20	50.0	-36.8																																																																																										
816.50	23.21	H	0.9	0.0	22.31	50.0	-27.7																																																																																										
Mid Ch																																																																																																	
831.50	13.80	V	0.9	0.0	12.90	38.5	-25.6																																																																																										
831.50	21.68	H	0.9	0.0	20.78	38.5	-17.7																																																																																										
High Ch																																																																																																	
846.50	12.05	V	0.9	0.0	11.15	38.5	-27.4																																																																																										
846.50	20.90	H	0.9	0.0	20.00	38.5	-18.5																																																																																										

Band LTE26 3MHz 16QAM	High Frequency Substitution Measurement UL Verification Services, Inc.																																																																																																	
	Company:		LG																																																																																															
	Project #:		15I21552																																																																																															
	Date:		5/26/2015																																																																																															
	Test Engineer:		Jude Semana																																																																																															
	Configuration:		EUT Only																																																																																															
	Location:		Chamber B																																																																																															
	Mode:		LTE_16QAM Band 26 Fundamentals, 3MHz Bandwidth																																																																																															
	Test Equipment:		Receiving: Horn T243, and Chamber B SMA Cables Substitution: Horn T416 Substitution, T1096 SMA Cable Warehouse																																																																																															
	<table border="1"> <thead> <tr> <th>f MHz</th> <th>SG reading (dBm)</th> <th>Ant. Pol. (H/V)</th> <th>Cable Loss (dB)</th> <th>Antenna Gain (dBd)</th> <th>ERP (dBm)</th> <th>Limit (dBm)</th> <th>Delta (dB)</th> <th>Notes</th> </tr> </thead> <tbody> <tr> <td colspan="9">Low Ch</td> </tr> <tr> <td>815.50</td> <td>14.70</td> <td>V</td> <td>0.9</td> <td>0.0</td> <td>13.80</td> <td>50.0</td> <td>-36.2</td> <td></td> </tr> <tr> <td>815.50</td> <td>22.63</td> <td>H</td> <td>0.9</td> <td>0.0</td> <td>21.73</td> <td>50.0</td> <td>-28.3</td> <td></td> </tr> <tr> <td colspan="9">Mid Ch</td> </tr> <tr> <td>831.50</td> <td>13.40</td> <td>V</td> <td>0.9</td> <td>0.0</td> <td>12.50</td> <td>38.5</td> <td>-26.0</td> <td></td> </tr> <tr> <td>831.50</td> <td>21.48</td> <td>H</td> <td>0.9</td> <td>0.0</td> <td>20.58</td> <td>38.5</td> <td>-17.9</td> <td></td> </tr> <tr> <td colspan="9">High Ch</td> </tr> <tr> <td>847.50</td> <td>12.05</td> <td>V</td> <td>0.9</td> <td>0.0</td> <td>11.15</td> <td>38.5</td> <td>-27.4</td> <td></td> </tr> <tr> <td>847.50</td> <td>20.80</td> <td>H</td> <td>0.9</td> <td>0.0</td> <td>19.90</td> <td>38.5</td> <td>-18.6</td> <td></td> </tr> </tbody> </table>									f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes	Low Ch									815.50	14.70	V	0.9	0.0	13.80	50.0	-36.2		815.50	22.63	H	0.9	0.0	21.73	50.0	-28.3		Mid Ch									831.50	13.40	V	0.9	0.0	12.50	38.5	-26.0		831.50	21.48	H	0.9	0.0	20.58	38.5	-17.9		High Ch									847.50	12.05	V	0.9	0.0	11.15	38.5	-27.4		847.50	20.80	H	0.9	0.0	19.90	38.5	-18.6
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes																																																																																										
Low Ch																																																																																																		
815.50	14.70	V	0.9	0.0	13.80	50.0	-36.2																																																																																											
815.50	22.63	H	0.9	0.0	21.73	50.0	-28.3																																																																																											
Mid Ch																																																																																																		
831.50	13.40	V	0.9	0.0	12.50	38.5	-26.0																																																																																											
831.50	21.48	H	0.9	0.0	20.58	38.5	-17.9																																																																																											
High Ch																																																																																																		
847.50	12.05	V	0.9	0.0	11.15	38.5	-27.4																																																																																											
847.50	20.80	H	0.9	0.0	19.90	38.5	-18.6																																																																																											

Band LTE26 3MHz QPSK	High Frequency Substitution Measurement UL Verification Services, Inc.																																																																																																
	Company: LG																																																																																																
	Project #: 15I21552																																																																																																
	Date: 5/26/2015																																																																																																
	Test Engineer: Jude Semana																																																																																																
	Configuration: EUT Only																																																																																																
	Location: Chamber B																																																																																																
	Mode: LTE_QPSK Band 26 Fundamentals, 3MHz Bandwidth																																																																																																
	Test Equipment:																																																																																																
	Receiving: Horn T243, and Chamber B SMA Cables Substitution: Horn T416 Substitution, T1096 SMA Cable Warehouse																																																																																																
<table border="1"> <thead> <tr> <th>f MHz</th> <th>SG reading (dBm)</th> <th>Ant. Pol. (H/V)</th> <th>Cable Loss (dB)</th> <th>Antenna Gain (dBd)</th> <th>ERP (dBm)</th> <th>Limit (dBm)</th> <th>Delta (dB)</th> <th>Notes</th> </tr> </thead> <tbody> <tr> <td colspan="9">Low Ch</td> </tr> <tr> <td>815.50</td> <td>14.90</td> <td>V</td> <td>0.9</td> <td>0.0</td> <td>14.00</td> <td>50.0</td> <td>-36.0</td> <td></td> </tr> <tr> <td>815.50</td> <td>22.83</td> <td>H</td> <td>0.9</td> <td>0.0</td> <td>21.93</td> <td>50.0</td> <td>-28.1</td> <td></td> </tr> <tr> <td colspan="9">Mid Ch</td> </tr> <tr> <td>831.50</td> <td>13.70</td> <td>V</td> <td>0.9</td> <td>0.0</td> <td>12.80</td> <td>38.5</td> <td>-25.7</td> <td></td> </tr> <tr> <td>831.50</td> <td>21.88</td> <td>H</td> <td>0.9</td> <td>0.0</td> <td>20.98</td> <td>38.5</td> <td>-17.5</td> <td></td> </tr> <tr> <td colspan="9">High Ch</td> </tr> <tr> <td>847.50</td> <td>12.15</td> <td>V</td> <td>0.9</td> <td>0.0</td> <td>11.25</td> <td>38.5</td> <td>-27.3</td> <td></td> </tr> <tr> <td>847.50</td> <td>21.10</td> <td>H</td> <td>0.9</td> <td>0.0</td> <td>20.20</td> <td>38.5</td> <td>-18.3</td> <td></td> </tr> </tbody> </table>								f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes	Low Ch									815.50	14.90	V	0.9	0.0	14.00	50.0	-36.0		815.50	22.83	H	0.9	0.0	21.93	50.0	-28.1		Mid Ch									831.50	13.70	V	0.9	0.0	12.80	38.5	-25.7		831.50	21.88	H	0.9	0.0	20.98	38.5	-17.5		High Ch									847.50	12.15	V	0.9	0.0	11.25	38.5	-27.3		847.50	21.10	H	0.9	0.0	20.20	38.5	-18.3	
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes																																																																																									
Low Ch																																																																																																	
815.50	14.90	V	0.9	0.0	14.00	50.0	-36.0																																																																																										
815.50	22.83	H	0.9	0.0	21.93	50.0	-28.1																																																																																										
Mid Ch																																																																																																	
831.50	13.70	V	0.9	0.0	12.80	38.5	-25.7																																																																																										
831.50	21.88	H	0.9	0.0	20.98	38.5	-17.5																																																																																										
High Ch																																																																																																	
847.50	12.15	V	0.9	0.0	11.25	38.5	-27.3																																																																																										
847.50	21.10	H	0.9	0.0	20.20	38.5	-18.3																																																																																										

Band LTE26 1.4MHz 16QAM	High Frequency Substitution Measurement UL Verification Services, Inc.								
	Company: LG Project #: 15I21552 Date: 5/26/2015 Test Engineer: Jude Semana Configuration: EUT Only Location: Chamber B Mode: LTE_16QAM Band 26 Fundamentals, 1.4MHz Bandwidth								
	Test Equipment: Receiving: Horn T243, and Chamber B SMA Cables Substitution: Horn T416 Substitution, T1096 SMA Cable Warehouse								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch								
	814.70	13.60	V	0.9	0.0	12.70	50.0	-37.3	
	814.70	22.33	H	0.9	0.0	21.43	50.0	-28.6	
	Mid Ch								
	831.50	12.70	V	0.9	0.0	11.80	38.5	-26.7	
	831.50	21.58	H	0.9	0.0	20.68	38.5	-17.8	
High Ch									
848.30	12.15	V	0.9	0.0	11.25	38.5	-27.3		
848.30	20.80	H	0.9	0.0	19.90	38.5	-18.6		

Band LTE26 1.4MHz QPSK	High Frequency Substitution Measurement UL Verification Services, Inc.								
	Company: LG Project #: 15I21552 Date: 5/26/2015 Test Engineer: Jude Semana Configuration: EUT Only Location: Chamber B Mode: LTE_QPSK Band 26 Fundamentals, 1.4MHz Bandwidth								
	Test Equipment: Receiving: Horn T243, and Chamber B SMA Cables Substitution: Horn T416 Substitution, T1096 SMA Cable Warehouse								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch								
	814.70	14.60	V	0.9	0.0	13.70	50.0	-36.3	
	814.70	22.63	H	0.9	0.0	21.73	50.0	-28.3	
	Mid Ch								
	831.50	13.80	V	0.9	0.0	12.90	38.5	-25.6	
	831.50	21.78	H	0.9	0.0	20.88	38.5	-17.6	
High Ch									
848.30	12.25	V	0.9	0.0	11.35	38.5	-27.2		
848.30	21.00	H	0.9	0.0	20.10	38.5	-18.4		

LTE Band 41

Band LTE41 20MHz 16QAM	High Frequency Substitution Measurement UL Verification Services, Inc.								
	Company: LG								
	Project #: 15I21552								
	Date: 8/24/2015								
	Test Engineer: Charles Vergonio								
	Configuration: Y-Pos, EUT Only								
	Location: Chamber C								
	Mode: LTE_16QAM Band 41 Fundamentals, 20MHz Bandwidth								
	Test Equipment:								
	Receiving: Horn T119, and Chamber C SMA Cables								
Substitution: Horn T59, Xft SMA Cable (SN # 506392) Warehouse									
	f	SG reading	Ant. Pol.	Cable Loss	Antenna Gain	EIRP	Limit	Delta	Notes
	MHz	(dBm)	(H/V)	(dB)	(dBi)	(dBm)	(dBm)	(dB)	
	Low Ch								
	2506.00	9.37	V	0.9	9.5	17.95	33.0	-15.1	
	2506.00	4.37	H	0.9	9.5	12.95	33.0	-20.1	
	Mid Ch								
	2593.00	11.86	V	0.9	9.5	20.47	33.0	-12.5	
	2593.00	6.95	H	0.9	9.5	15.55	33.0	-17.4	
	High Ch								
	2680.00	10.61	V	0.9	9.7	19.44	33.0	-13.6	
	2680.00	5.44	H	0.9	9.7	14.26	33.0	-18.7	

Band LTE41 20MHz QPSK	High Frequency Substitution Measurement UL Verification Services, Inc.																																																																																																	
	Company:		LG																																																																																															
	Project #:		15I21552																																																																																															
	Date:		8/24/2015																																																																																															
	Test Engineer:		Charles Vergonio																																																																																															
	Configuration:		Y-Pos, EUT Only																																																																																															
	Location:		Chamber C																																																																																															
	Mode:		LTE_QPSK Band 41 Fundamentals, 20MHz Bandwidth																																																																																															
	Test Equipment:		Receiving: Horn T119, and Chamber C SMA Cables Substitution: Horn T59, Xft SMA Cable (SN # 506392) Warehouse																																																																																															
	<table border="1"> <thead> <tr> <th>f MHz</th> <th>SG reading (dBm)</th> <th>Ant. Pol. (H/V)</th> <th>Cable Loss (dB)</th> <th>Antenna Gain (dBi)</th> <th>EIRP (dBm)</th> <th>Limit (dBm)</th> <th>Delta (dB)</th> <th>Notes</th> </tr> </thead> <tbody> <tr> <td colspan="9">Low Ch</td> </tr> <tr> <td>2506.00</td> <td>9.89</td> <td>V</td> <td>0.9</td> <td>9.5</td> <td>18.47</td> <td>33.0</td> <td>-14.5</td> <td></td> </tr> <tr> <td>2506.00</td> <td>4.92</td> <td>H</td> <td>0.9</td> <td>9.5</td> <td>13.50</td> <td>33.0</td> <td>-19.5</td> <td></td> </tr> <tr> <td colspan="9">Mid Ch</td> </tr> <tr> <td>2593.00</td> <td>12.39</td> <td>V</td> <td>0.9</td> <td>9.5</td> <td>21.00</td> <td>33.0</td> <td>-12.0</td> <td></td> </tr> <tr> <td>2593.00</td> <td>7.54</td> <td>H</td> <td>0.9</td> <td>9.5</td> <td>16.14</td> <td>33.0</td> <td>-16.9</td> <td></td> </tr> <tr> <td colspan="9">High Ch</td> </tr> <tr> <td>2680.00</td> <td>11.39</td> <td>V</td> <td>0.9</td> <td>9.7</td> <td>20.22</td> <td>33.0</td> <td>-12.8</td> <td></td> </tr> <tr> <td>2680.00</td> <td>6.34</td> <td>H</td> <td>0.9</td> <td>9.7</td> <td>15.16</td> <td>33.0</td> <td>-17.8</td> <td></td> </tr> </tbody> </table>									f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	Low Ch									2506.00	9.89	V	0.9	9.5	18.47	33.0	-14.5		2506.00	4.92	H	0.9	9.5	13.50	33.0	-19.5		Mid Ch									2593.00	12.39	V	0.9	9.5	21.00	33.0	-12.0		2593.00	7.54	H	0.9	9.5	16.14	33.0	-16.9		High Ch									2680.00	11.39	V	0.9	9.7	20.22	33.0	-12.8		2680.00	6.34	H	0.9	9.7	15.16	33.0	-17.8
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes																																																																																										
Low Ch																																																																																																		
2506.00	9.89	V	0.9	9.5	18.47	33.0	-14.5																																																																																											
2506.00	4.92	H	0.9	9.5	13.50	33.0	-19.5																																																																																											
Mid Ch																																																																																																		
2593.00	12.39	V	0.9	9.5	21.00	33.0	-12.0																																																																																											
2593.00	7.54	H	0.9	9.5	16.14	33.0	-16.9																																																																																											
High Ch																																																																																																		
2680.00	11.39	V	0.9	9.7	20.22	33.0	-12.8																																																																																											
2680.00	6.34	H	0.9	9.7	15.16	33.0	-17.8																																																																																											

Band LTE41 15MHz 16QAM	High Frequency Substitution Measurement UL Verification Services, Inc.																																																																																																	
	Company:		LG																																																																																															
	Project #:		15I21552																																																																																															
	Date:		8/24/2015																																																																																															
	Test Engineer:		Charles Vergonio																																																																																															
	Configuration:		Y-Pos, EUT Only																																																																																															
	Location:		Chamber C																																																																																															
	Mode:		LTE_16QAM Band 41 Fundamentals, 15MHz Bandwidth																																																																																															
	Test Equipment:		Receiving: Horn T119, and Chamber C SMA Cables Substitution: Horn T59, Xft SMA Cable (SN # 506392) Warehouse																																																																																															
	<table border="1"> <thead> <tr> <th>f MHz</th> <th>SG reading (dBm)</th> <th>Ant. Pol. (H/V)</th> <th>Cable Loss (dB)</th> <th>Antenna Gain (dBi)</th> <th>EIRP (dBm)</th> <th>Limit (dBm)</th> <th>Delta (dB)</th> <th>Notes</th> </tr> </thead> <tbody> <tr> <td colspan="9">Low Ch</td> </tr> <tr> <td>2503.50</td> <td>9.13</td> <td>V</td> <td>0.9</td> <td>9.5</td> <td>17.71</td> <td>33.0</td> <td>-15.3</td> <td></td> </tr> <tr> <td>2503.50</td> <td>4.25</td> <td>H</td> <td>0.9</td> <td>9.5</td> <td>12.83</td> <td>33.0</td> <td>-20.2</td> <td></td> </tr> <tr> <td colspan="9">Mid Ch</td> </tr> <tr> <td>2593.00</td> <td>11.98</td> <td>V</td> <td>0.9</td> <td>9.5</td> <td>20.59</td> <td>33.0</td> <td>-12.4</td> <td></td> </tr> <tr> <td>2593.00</td> <td>6.90</td> <td>H</td> <td>0.9</td> <td>9.5</td> <td>15.50</td> <td>33.0</td> <td>-17.5</td> <td></td> </tr> <tr> <td colspan="9">High Ch</td> </tr> <tr> <td>2682.50</td> <td>10.02</td> <td>V</td> <td>0.9</td> <td>9.7</td> <td>18.85</td> <td>33.0</td> <td>-14.1</td> <td></td> </tr> <tr> <td>2682.50</td> <td>5.81</td> <td>H</td> <td>0.9</td> <td>9.7</td> <td>14.64</td> <td>33.0</td> <td>-18.4</td> <td></td> </tr> </tbody> </table>									f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	Low Ch									2503.50	9.13	V	0.9	9.5	17.71	33.0	-15.3		2503.50	4.25	H	0.9	9.5	12.83	33.0	-20.2		Mid Ch									2593.00	11.98	V	0.9	9.5	20.59	33.0	-12.4		2593.00	6.90	H	0.9	9.5	15.50	33.0	-17.5		High Ch									2682.50	10.02	V	0.9	9.7	18.85	33.0	-14.1		2682.50	5.81	H	0.9	9.7	14.64	33.0	-18.4
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes																																																																																										
Low Ch																																																																																																		
2503.50	9.13	V	0.9	9.5	17.71	33.0	-15.3																																																																																											
2503.50	4.25	H	0.9	9.5	12.83	33.0	-20.2																																																																																											
Mid Ch																																																																																																		
2593.00	11.98	V	0.9	9.5	20.59	33.0	-12.4																																																																																											
2593.00	6.90	H	0.9	9.5	15.50	33.0	-17.5																																																																																											
High Ch																																																																																																		
2682.50	10.02	V	0.9	9.7	18.85	33.0	-14.1																																																																																											
2682.50	5.81	H	0.9	9.7	14.64	33.0	-18.4																																																																																											

Band LTE41 15MHz QPSK	High Frequency Substitution Measurement UL Verification Services, Inc.																																																																																																	
	Company:		LG																																																																																															
	Project #:		15I21552																																																																																															
	Date:		8/24/2015																																																																																															
	Test Engineer:		Charles Vergonio																																																																																															
	Configuration:		Y-Pos, EUT Only																																																																																															
	Location:		Chamber C																																																																																															
	Mode:		LTE_QPSK Band 41 Fundamentals, 15MHz Bandwidth																																																																																															
	Test Equipment:		Receiving: Horn T119, and Chamber C SMA Cables Substitution: Horn T59, Xft SMA Cable (SN # 506392) Warehouse																																																																																															
	<table border="1"> <thead> <tr> <th>f MHz</th> <th>SG reading (dBm)</th> <th>Ant. Pol. (H/V)</th> <th>Cable Loss (dB)</th> <th>Antenna Gain (dBi)</th> <th>EIRP (dBm)</th> <th>Limit (dBm)</th> <th>Delta (dB)</th> <th>Notes</th> </tr> </thead> <tbody> <tr> <td colspan="9">Low Ch</td> </tr> <tr> <td>2503.50</td> <td>10.38</td> <td>V</td> <td>0.9</td> <td>9.5</td> <td>18.96</td> <td>33.0</td> <td>-14.0</td> <td></td> </tr> <tr> <td>2503.50</td> <td>5.45</td> <td>H</td> <td>0.9</td> <td>9.5</td> <td>14.03</td> <td>33.0</td> <td>-19.0</td> <td></td> </tr> <tr> <td colspan="9">Mid Ch</td> </tr> <tr> <td>2593.00</td> <td>12.84</td> <td>V</td> <td>0.9</td> <td>9.5</td> <td>21.45</td> <td>33.0</td> <td>-11.6</td> <td></td> </tr> <tr> <td>2593.00</td> <td>7.99</td> <td>H</td> <td>0.9</td> <td>9.5</td> <td>16.59</td> <td>33.0</td> <td>-16.4</td> <td></td> </tr> <tr> <td colspan="9">High Ch</td> </tr> <tr> <td>2682.50</td> <td>11.51</td> <td>V</td> <td>0.9</td> <td>9.7</td> <td>20.34</td> <td>33.0</td> <td>-12.7</td> <td></td> </tr> <tr> <td>2682.50</td> <td>6.64</td> <td>H</td> <td>0.9</td> <td>9.7</td> <td>15.47</td> <td>33.0</td> <td>-17.5</td> <td></td> </tr> </tbody> </table>									f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	Low Ch									2503.50	10.38	V	0.9	9.5	18.96	33.0	-14.0		2503.50	5.45	H	0.9	9.5	14.03	33.0	-19.0		Mid Ch									2593.00	12.84	V	0.9	9.5	21.45	33.0	-11.6		2593.00	7.99	H	0.9	9.5	16.59	33.0	-16.4		High Ch									2682.50	11.51	V	0.9	9.7	20.34	33.0	-12.7		2682.50	6.64	H	0.9	9.7	15.47	33.0	-17.5
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes																																																																																										
Low Ch																																																																																																		
2503.50	10.38	V	0.9	9.5	18.96	33.0	-14.0																																																																																											
2503.50	5.45	H	0.9	9.5	14.03	33.0	-19.0																																																																																											
Mid Ch																																																																																																		
2593.00	12.84	V	0.9	9.5	21.45	33.0	-11.6																																																																																											
2593.00	7.99	H	0.9	9.5	16.59	33.0	-16.4																																																																																											
High Ch																																																																																																		
2682.50	11.51	V	0.9	9.7	20.34	33.0	-12.7																																																																																											
2682.50	6.64	H	0.9	9.7	15.47	33.0	-17.5																																																																																											

Band LTE41 10MHz 16QAM	High Frequency Substitution Measurement UL Verification Services, Inc.																																																																																																	
	Company:		LG																																																																																															
	Project #:		15I21552																																																																																															
	Date:		8/24/2015																																																																																															
	Test Engineer:		Charles Vergonio																																																																																															
	Configuration:		Y-Pos, EUT Only																																																																																															
	Location:		Chamber C																																																																																															
	Mode:		LTE_16QAM Band 41 Fundamentals, 10MHz Bandwidth																																																																																															
	Test Equipment:		Receiving: Horn T119, and Chamber C SMA Cables Substitution: Horn T59, Xft SMA Cable (SN # 506392) Warehouse																																																																																															
	<table border="1"> <thead> <tr> <th>f MHz</th> <th>SG reading (dBm)</th> <th>Ant. Pol. (H/V)</th> <th>Cable Loss (dB)</th> <th>Antenna Gain (dBi)</th> <th>EIRP (dBm)</th> <th>Limit (dBm)</th> <th>Delta (dB)</th> <th>Notes</th> </tr> </thead> <tbody> <tr> <td colspan="9">Low Ch</td> </tr> <tr> <td>2501.00</td> <td>8.92</td> <td>V</td> <td>0.9</td> <td>9.5</td> <td>17.50</td> <td>33.0</td> <td>-15.5</td> <td></td> </tr> <tr> <td>2501.00</td> <td>4.15</td> <td>H</td> <td>0.9</td> <td>9.5</td> <td>12.73</td> <td>33.0</td> <td>-20.3</td> <td></td> </tr> <tr> <td colspan="9">Mid Ch</td> </tr> <tr> <td>2593.00</td> <td>11.86</td> <td>V</td> <td>0.9</td> <td>9.5</td> <td>20.47</td> <td>33.0</td> <td>-12.5</td> <td></td> </tr> <tr> <td>2593.00</td> <td>6.64</td> <td>H</td> <td>0.9</td> <td>9.5</td> <td>15.24</td> <td>33.0</td> <td>-17.8</td> <td></td> </tr> <tr> <td colspan="9">High Ch</td> </tr> <tr> <td>2685.00</td> <td>10.11</td> <td>V</td> <td>0.9</td> <td>9.7</td> <td>18.95</td> <td>33.0</td> <td>-14.1</td> <td></td> </tr> <tr> <td>2685.00</td> <td>5.05</td> <td>H</td> <td>0.9</td> <td>9.7</td> <td>13.89</td> <td>33.0</td> <td>-19.1</td> <td></td> </tr> </tbody> </table>									f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	Low Ch									2501.00	8.92	V	0.9	9.5	17.50	33.0	-15.5		2501.00	4.15	H	0.9	9.5	12.73	33.0	-20.3		Mid Ch									2593.00	11.86	V	0.9	9.5	20.47	33.0	-12.5		2593.00	6.64	H	0.9	9.5	15.24	33.0	-17.8		High Ch									2685.00	10.11	V	0.9	9.7	18.95	33.0	-14.1		2685.00	5.05	H	0.9	9.7	13.89	33.0	-19.1
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes																																																																																										
Low Ch																																																																																																		
2501.00	8.92	V	0.9	9.5	17.50	33.0	-15.5																																																																																											
2501.00	4.15	H	0.9	9.5	12.73	33.0	-20.3																																																																																											
Mid Ch																																																																																																		
2593.00	11.86	V	0.9	9.5	20.47	33.0	-12.5																																																																																											
2593.00	6.64	H	0.9	9.5	15.24	33.0	-17.8																																																																																											
High Ch																																																																																																		
2685.00	10.11	V	0.9	9.7	18.95	33.0	-14.1																																																																																											
2685.00	5.05	H	0.9	9.7	13.89	33.0	-19.1																																																																																											

Band LTE41 5MHz 16QAM	High Frequency Substitution Measurement UL Verification Services, Inc.																																																																																																	
	Company:		LG																																																																																															
	Project #:		15I21552																																																																																															
	Date:		8/24/2015																																																																																															
	Test Engineer:		Charles Vergonio																																																																																															
	Configuration:		Y-Pos, EUT Only																																																																																															
	Location:		Chamber C																																																																																															
	Mode:		LTE_16QAM Band 41 Fundamentals, 5MHz Bandwidth																																																																																															
	Test Equipment:		Receiving: Horn T119, and Chamber C SMA Cables Substitution: Horn T59, Xft SMA Cable (SN # 506392) Warehouse																																																																																															
	<table border="1"> <thead> <tr> <th>f MHz</th> <th>SG reading (dBm)</th> <th>Ant. Pol. (H/V)</th> <th>Cable Loss (dB)</th> <th>Antenna Gain (dBi)</th> <th>EIRP (dBm)</th> <th>Limit (dBm)</th> <th>Delta (dB)</th> <th>Notes</th> </tr> </thead> <tbody> <tr> <td colspan="9">Low Ch</td> </tr> <tr> <td>2498.50</td> <td>9.07</td> <td>V</td> <td>0.9</td> <td>9.5</td> <td>17.64</td> <td>33.0</td> <td>-15.4</td> <td></td> </tr> <tr> <td>2498.50</td> <td>4.07</td> <td>H</td> <td>0.9</td> <td>9.5</td> <td>12.64</td> <td>33.0</td> <td>-20.4</td> <td></td> </tr> <tr> <td colspan="9">Mid Ch</td> </tr> <tr> <td>2593.00</td> <td>11.41</td> <td>V</td> <td>0.9</td> <td>9.5</td> <td>20.02</td> <td>33.0</td> <td>-13.0</td> <td></td> </tr> <tr> <td>2593.00</td> <td>6.78</td> <td>H</td> <td>0.9</td> <td>9.5</td> <td>15.38</td> <td>33.0</td> <td>-17.6</td> <td></td> </tr> <tr> <td colspan="9">High Ch</td> </tr> <tr> <td>2687.50</td> <td>9.93</td> <td>V</td> <td>0.9</td> <td>9.7</td> <td>18.78</td> <td>33.0</td> <td>-14.2</td> <td></td> </tr> <tr> <td>2687.50</td> <td>5.06</td> <td>H</td> <td>0.9</td> <td>9.7</td> <td>13.90</td> <td>33.0</td> <td>-19.1</td> <td></td> </tr> </tbody> </table>									f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	Low Ch									2498.50	9.07	V	0.9	9.5	17.64	33.0	-15.4		2498.50	4.07	H	0.9	9.5	12.64	33.0	-20.4		Mid Ch									2593.00	11.41	V	0.9	9.5	20.02	33.0	-13.0		2593.00	6.78	H	0.9	9.5	15.38	33.0	-17.6		High Ch									2687.50	9.93	V	0.9	9.7	18.78	33.0	-14.2		2687.50	5.06	H	0.9	9.7	13.90	33.0	-19.1
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes																																																																																										
Low Ch																																																																																																		
2498.50	9.07	V	0.9	9.5	17.64	33.0	-15.4																																																																																											
2498.50	4.07	H	0.9	9.5	12.64	33.0	-20.4																																																																																											
Mid Ch																																																																																																		
2593.00	11.41	V	0.9	9.5	20.02	33.0	-13.0																																																																																											
2593.00	6.78	H	0.9	9.5	15.38	33.0	-17.6																																																																																											
High Ch																																																																																																		
2687.50	9.93	V	0.9	9.7	18.78	33.0	-14.2																																																																																											
2687.50	5.06	H	0.9	9.7	13.90	33.0	-19.1																																																																																											

Band LTE41 5MHz QPSK	High Frequency Substitution Measurement UL Verification Services, Inc.																																																																																																	
	Company:		LG																																																																																															
	Project #:		15I21552																																																																																															
	Date:		8/24/2015																																																																																															
	Test Engineer:		Charles Vergonio																																																																																															
	Configuration:		Y-Pos, EUT Only																																																																																															
	Location:		Chamber C																																																																																															
	Mode:		LTE_QPSK Band 41 Fundamentals, 5MHz Bandwidth																																																																																															
	Test Equipment:		Receiving: Horn T119, and Chamber C SMA Cables Substitution: Horn T59, Xft SMA Cable (SN # 506392) Warehouse																																																																																															
	<table border="1"> <thead> <tr> <th>f MHz</th> <th>SG reading (dBm)</th> <th>Ant. Pol. (H/V)</th> <th>Cable Loss (dB)</th> <th>Antenna Gain (dBi)</th> <th>EIRP (dBm)</th> <th>Limit (dBm)</th> <th>Delta (dB)</th> <th>Notes</th> </tr> </thead> <tbody> <tr> <td colspan="9">Low Ch</td> </tr> <tr> <td>2498.50</td> <td>10.00</td> <td>V</td> <td>0.9</td> <td>9.5</td> <td>18.57</td> <td>33.0</td> <td>-14.4</td> <td></td> </tr> <tr> <td>2498.50</td> <td>4.98</td> <td>H</td> <td>0.9</td> <td>9.5</td> <td>13.55</td> <td>33.0</td> <td>-19.4</td> <td></td> </tr> <tr> <td colspan="9">Mid Ch</td> </tr> <tr> <td>2593.00</td> <td>11.79</td> <td>V</td> <td>0.9</td> <td>9.5</td> <td>20.40</td> <td>33.0</td> <td>-12.6</td> <td></td> </tr> <tr> <td>2593.00</td> <td>6.69</td> <td>H</td> <td>0.9</td> <td>9.5</td> <td>15.29</td> <td>33.0</td> <td>-17.7</td> <td></td> </tr> <tr> <td colspan="9">High Ch</td> </tr> <tr> <td>2687.50</td> <td>10.54</td> <td>V</td> <td>0.9</td> <td>9.7</td> <td>19.39</td> <td>33.0</td> <td>-13.6</td> <td></td> </tr> <tr> <td>2687.50</td> <td>5.64</td> <td>H</td> <td>0.9</td> <td>9.7</td> <td>14.48</td> <td>33.0</td> <td>-18.5</td> <td></td> </tr> </tbody> </table>									f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	Low Ch									2498.50	10.00	V	0.9	9.5	18.57	33.0	-14.4		2498.50	4.98	H	0.9	9.5	13.55	33.0	-19.4		Mid Ch									2593.00	11.79	V	0.9	9.5	20.40	33.0	-12.6		2593.00	6.69	H	0.9	9.5	15.29	33.0	-17.7		High Ch									2687.50	10.54	V	0.9	9.7	19.39	33.0	-13.6		2687.50	5.64	H	0.9	9.7	14.48	33.0	-18.5
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes																																																																																										
Low Ch																																																																																																		
2498.50	10.00	V	0.9	9.5	18.57	33.0	-14.4																																																																																											
2498.50	4.98	H	0.9	9.5	13.55	33.0	-19.4																																																																																											
Mid Ch																																																																																																		
2593.00	11.79	V	0.9	9.5	20.40	33.0	-12.6																																																																																											
2593.00	6.69	H	0.9	9.5	15.29	33.0	-17.7																																																																																											
High Ch																																																																																																		
2687.50	10.54	V	0.9	9.7	19.39	33.0	-13.6																																																																																											
2687.50	5.64	H	0.9	9.7	14.48	33.0	-18.5																																																																																											

11.2. FIELD STRENGTH OF SPURIOUS RADIATION

RULE PART(S)

FCC: §2.1053, §22.917, §24.238, §27.53 and §90.691

LIMIT

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) (4) For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

TEST PROCEDURE

For Cellular equipment - Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater. In the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 100 kHz or 1 percent of emission bandwidth, as specified). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

For PCS equipment - Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 1 MHz or 1 percent of emission bandwidth, as specified). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

MODES TESTED

GSM, WCDMA, and LTE

RESULTS

11.2.1. SPURIOUS RADIATION PLOTS

GSM

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG							
Project #:		15I21552							
Date:		27-Aug							
Test Engineer:		D. Mun & J. Ko							
Configuration:		EUT + Earphones + AC Adapter							
Location:		Chamber B							
Mode:		EGPRS 1900 MHz Harmonics							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1850.2									
3700.40	-14.5	V	3.0	35.9	1.0	-49.3	-13.0	-36.3	
5550.60	-28.1	V	3.0	35.5	1.0	-62.6	-13.0	-49.6	
GSM									
7400.80	-26.9	V	3.0	35.7	1.0	-61.7	-13.0	-48.7	
3700.40	10.5	H	3.0	35.9	1.0	-24.4	-13.0	-11.4	
5550.60	-5.4	H	3.0	35.5	1.0	-39.8	-13.0	-26.8	
7400.80	-26.1	H	3.0	35.7	1.0	-60.8	-13.0	-47.8	
EGPRS									
Mid Ch, 1880									
3760.00	-19.7	V	3.0	35.8	1.0	-54.5	-13.0	-41.5	
5640.00	-27.8	V	3.0	35.5	1.0	-62.3	-13.0	-49.3	
7520.00	-27.2	V	3.0	35.7	1.0	-61.9	-13.0	-48.9	
3760.00	1.1	H	3.0	35.8	1.0	-33.7	-13.0	-20.7	
5640.00	-15.0	H	3.0	35.5	1.0	-49.5	-13.0	-36.5	
7520.00	-25.7	H	3.0	35.7	1.0	-60.4	-13.0	-47.4	
High Ch, 1909.8									
3819.60	-19.4	V	3.0	35.8	1.0	-54.2	-13.0	-41.2	
5729.40	-28.5	V	3.0	35.5	1.0	-63.0	-13.0	-50.0	
7639.20	-26.8	V	3.0	35.8	1.0	-61.6	-13.0	-48.6	
3819.60	2.3	H	3.0	35.8	1.0	-32.4	-13.0	-19.4	
5729.40	-15.0	H	3.0	35.5	1.0	-49.5	-13.0	-36.5	
7639.20	-23.9	H	3.0	35.8	1.0	-58.6	-13.0	-45.6	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG							
Project #:		15I21552							
Date:		8/27/2015							
Test Engineer:		D. Mun & J. Ko							
Configuration:		EUT + Earphones + AC Adapter							
Location:		Chamber B							
Mode:		GPRS 1900 MHz Harmonics							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band									
Low Ch, 1850.2									
3700.40	-15.9	V	3.0	35.9	1.0	-50.8	-13.0	-37.8	
5550.60	-19.6	V	3.0	35.5	1.0	-54.1	-13.0	-41.1	
GSM									
7400.80	-25.9	V	3.0	35.7	1.0	-60.6	-13.0	-47.6	
3700.40	12.5	H	3.0	35.9	1.0	-22.3	-13.0	-9.3	
1900									
5550.60	-0.7	H	3.0	35.5	1.0	-35.2	-13.0	-22.2	
7400.80	-25.6	H	3.0	35.7	1.0	-60.3	-13.0	-47.3	
GPRS									
Mid Ch, 1880									
3760.00	-16.9	V	3.0	35.8	1.0	-51.7	-13.0	-38.7	
5640.00	-27.5	V	3.0	35.5	1.0	-62.0	-13.0	-49.0	
7520.00	-26.5	V	3.0	35.7	1.0	-61.2	-13.0	-48.2	
3760.00	9.9	H	3.0	35.8	1.0	-25.0	-13.0	-12.0	
5640.00	-3.5	H	3.0	35.5	1.0	-38.0	-13.0	-25.0	
7520.00	-25.5	H	3.0	35.7	1.0	-60.2	-13.0	-47.2	
High Ch, 1909.8									
3819.60	-9.7	V	3.0	35.8	1.0	-44.5	-13.0	-31.5	
5729.40	-27.6	V	3.0	35.5	1.0	-62.1	-13.0	-49.1	
7639.20	-26.3	V	3.0	35.8	1.0	-61.0	-13.0	-48.0	
3819.60	7.6	H	3.0	35.8	1.0	-27.2	-13.0	-14.2	
5729.40	-9.5	H	3.0	35.5	1.0	-44.0	-13.0	-31.0	
7639.20	-24.3	H	3.0	35.8	1.0	-59.0	-13.0	-46.0	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement												
Company:		LG										
Project #:		15I21523										
Date:		8/27/2015										
Test Engineer:		D. Mun										
Configuration:		EUT + Earphones + Charger										
Location:		Chamber B										
Mode:		EGPRS 850 MHz Harmonics										
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes		
Band	Low Ch, 824.2											
		1648.40	-28.8	V	3.0	37.0	1.0	-64.9	-13.0	-51.9		
		2472.60	-25.0	V	3.0	36.4	1.0	-60.5	-13.0	-47.5		
	GSM		3296.80	-24.7	V	3.0	36.2	1.0	-59.9	-13.0	-46.9	
			1648.40	-29.8	H	3.0	37.0	1.0	-65.8	-13.0	-52.8	
	850		2472.60	-27.1	H	3.0	36.4	1.0	-62.5	-13.0	-49.5	
		3296.80	-25.1	H	3.0	36.2	1.0	-60.3	-13.0	-47.3		
EGPRS	Mid Ch, 836.6											
		1673.20	-26.3	V	3.0	37.0	1.0	-62.3	-13.0	-49.3		
		2509.80	-25.1	V	3.0	36.4	1.0	-60.5	-13.0	-47.5		
		3346.40	-24.4	V	3.0	36.1	1.0	-59.5	-13.0	-46.5		
		1673.20	-27.7	H	3.0	37.0	1.0	-63.7	-13.0	-50.7		
		2509.80	-26.4	H	3.0	36.4	1.0	-61.8	-13.0	-48.8		
		3346.40	-24.8	H	3.0	36.1	1.0	-59.9	-13.0	-46.9		
	High Ch, 848.8											
		1697.60	-28.8	V	3.0	37.0	1.0	-64.8	-13.0	-51.8		
		2546.40	-25.6	V	3.0	36.4	1.0	-61.0	-13.0	-48.0		
	3395.20	-24.1	V	3.0	36.1	1.0	-59.2	-13.0	-46.2			
	1697.60	-27.0	H	3.0	37.0	1.0	-63.0	-13.0	-50.0			
	2546.40	-25.2	H	3.0	36.4	1.0	-60.6	-13.0	-47.6			
	3395.20	-26.0	H	3.0	36.1	1.0	-61.1	-13.0	-48.1			

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement												
Company:		LG										
Project #:		15I21523										
Date:		8/27/2015										
Test Engineer:		D. Mun										
Configuration:		EUT + Earphones + Charger										
Location:		Chamber B										
Mode:		GPRS 850 MHz Harmonics										
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes		
Band	Low Ch, 824.2											
		1648.40	-27.5	V	3.0	37.0	1.0	-63.5	-13.0	-50.5		
		2472.60	-24.2	V	3.0	36.4	1.0	-59.6	-13.0	-46.6		
	GSM		3296.80	-24.1	V	3.0	36.2	1.0	-59.3	-13.0	-46.3	
			1648.40	-28.5	H	3.0	37.0	1.0	-64.5	-13.0	-51.5	
	850		2472.60	-26.4	H	3.0	36.4	1.0	-61.8	-13.0	-48.8	
		3296.80	-23.8	H	3.0	36.2	1.0	-58.9	-13.0	-45.9		
GPRS	Mid Ch, 836.6											
		1673.20	-25.2	V	3.0	37.0	1.0	-61.2	-13.0	-48.2		
		2509.80	-23.7	V	3.0	36.4	1.0	-59.1	-13.0	-46.1		
		3346.40	-23.3	V	3.0	36.1	1.0	-58.5	-13.0	-45.5		
		1673.20	-26.7	H	3.0	37.0	1.0	-62.7	-13.0	-49.7		
		2509.80	-25.6	H	3.0	36.4	1.0	-61.0	-13.0	-48.0		
		3346.40	-23.8	H	3.0	36.1	1.0	-58.9	-13.0	-45.9		
	High Ch, 848.8											
		1697.60	-28.1	V	3.0	37.0	1.0	-64.1	-13.0	-51.1		
		2546.40	-24.5	V	3.0	36.4	1.0	-59.9	-13.0	-46.9		
		3395.20	-23.9	V	3.0	36.1	1.0	-58.9	-13.0	-45.9		
		1697.60	-26.9	H	3.0	37.0	1.0	-62.8	-13.0	-49.8		
	2546.40	-24.2	H	3.0	36.4	1.0	-59.6	-13.0	-46.6			
	3395.20	-24.3	H	3.0	36.1	1.0	-59.4	-13.0	-46.4			