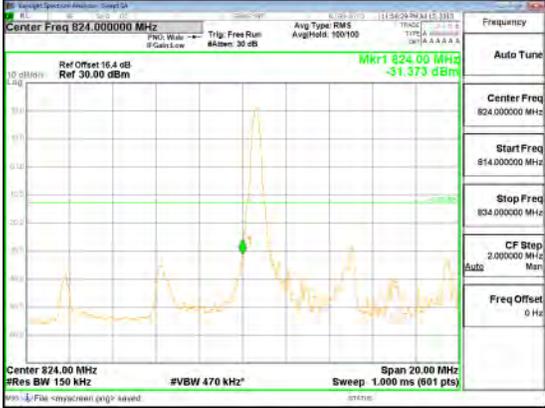
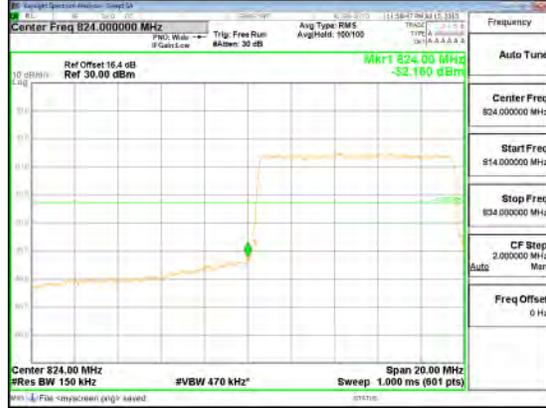
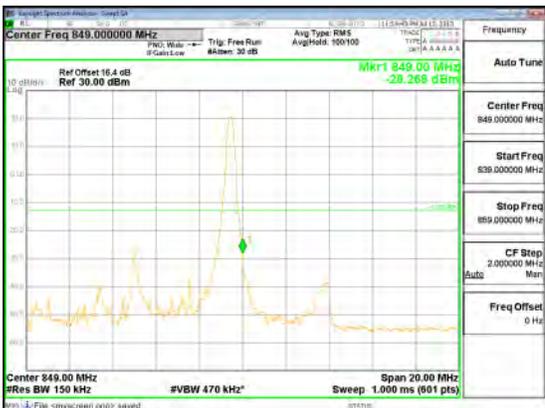
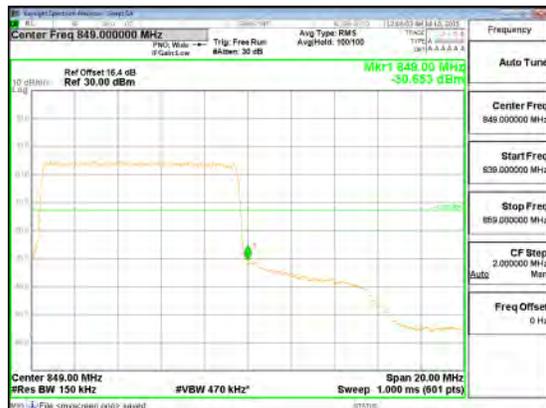
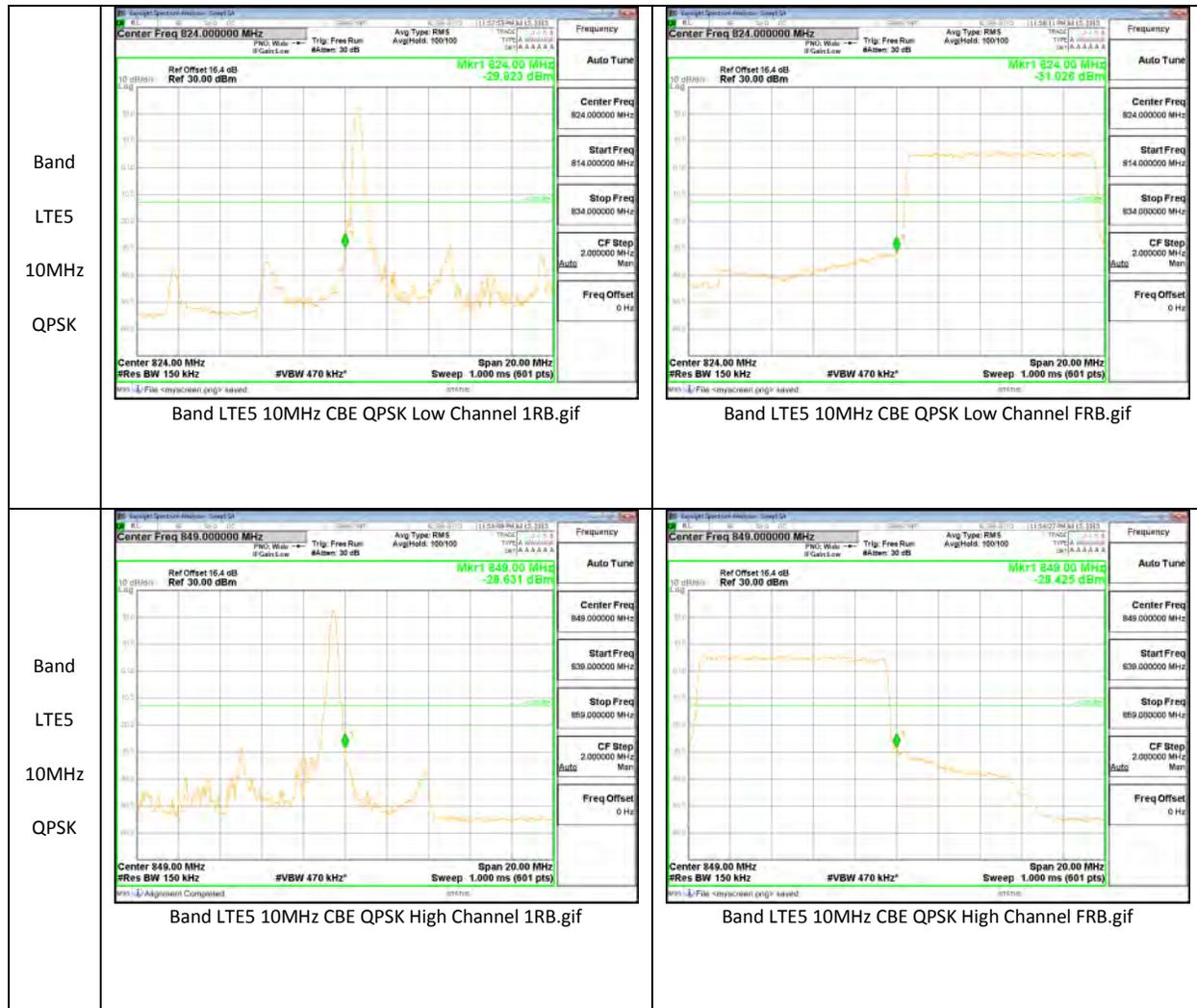
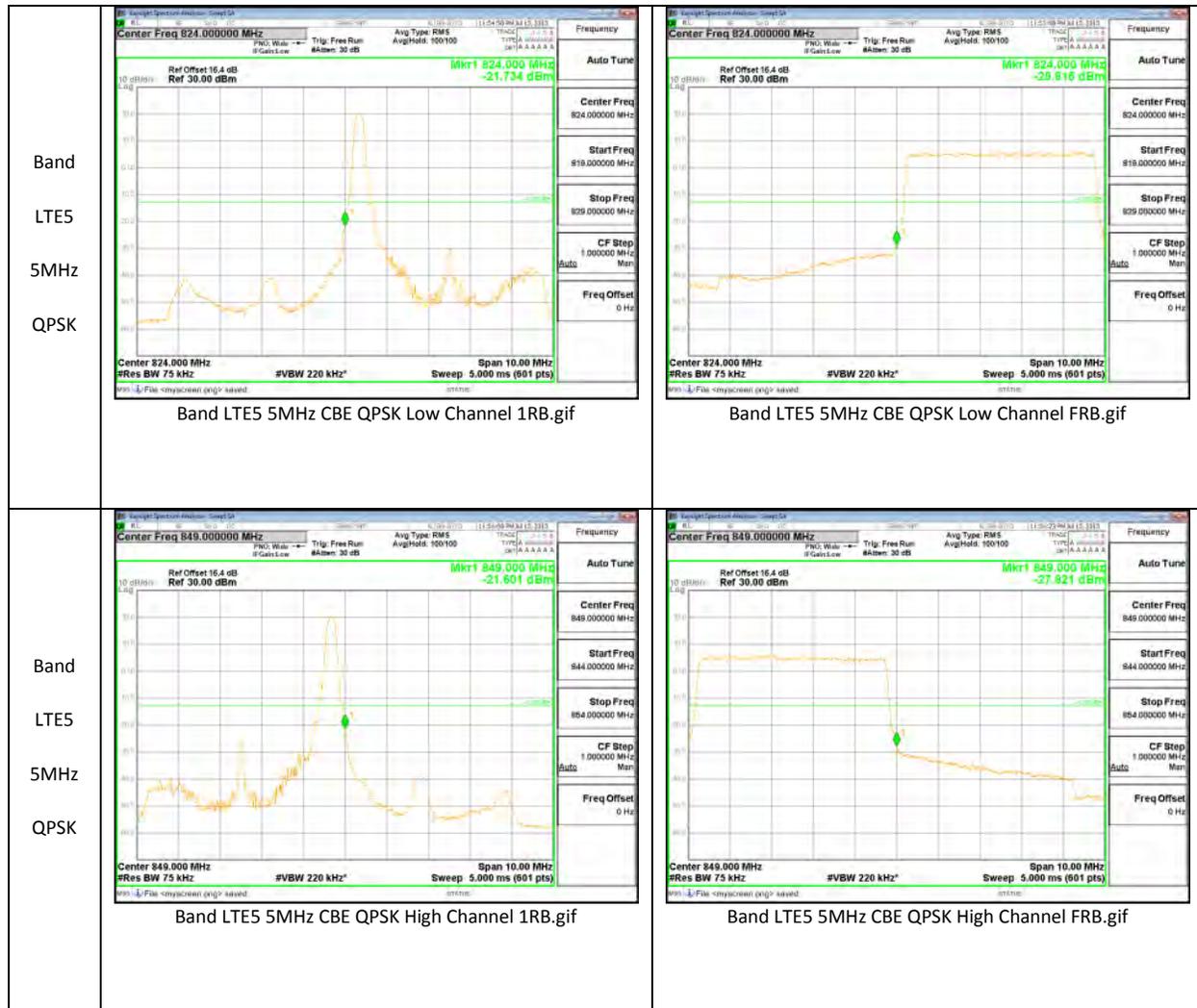


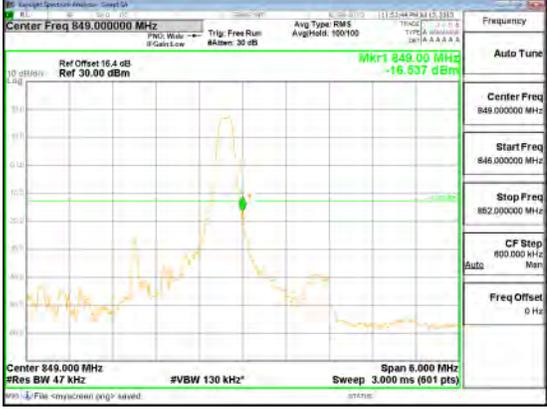
LTE Band 5

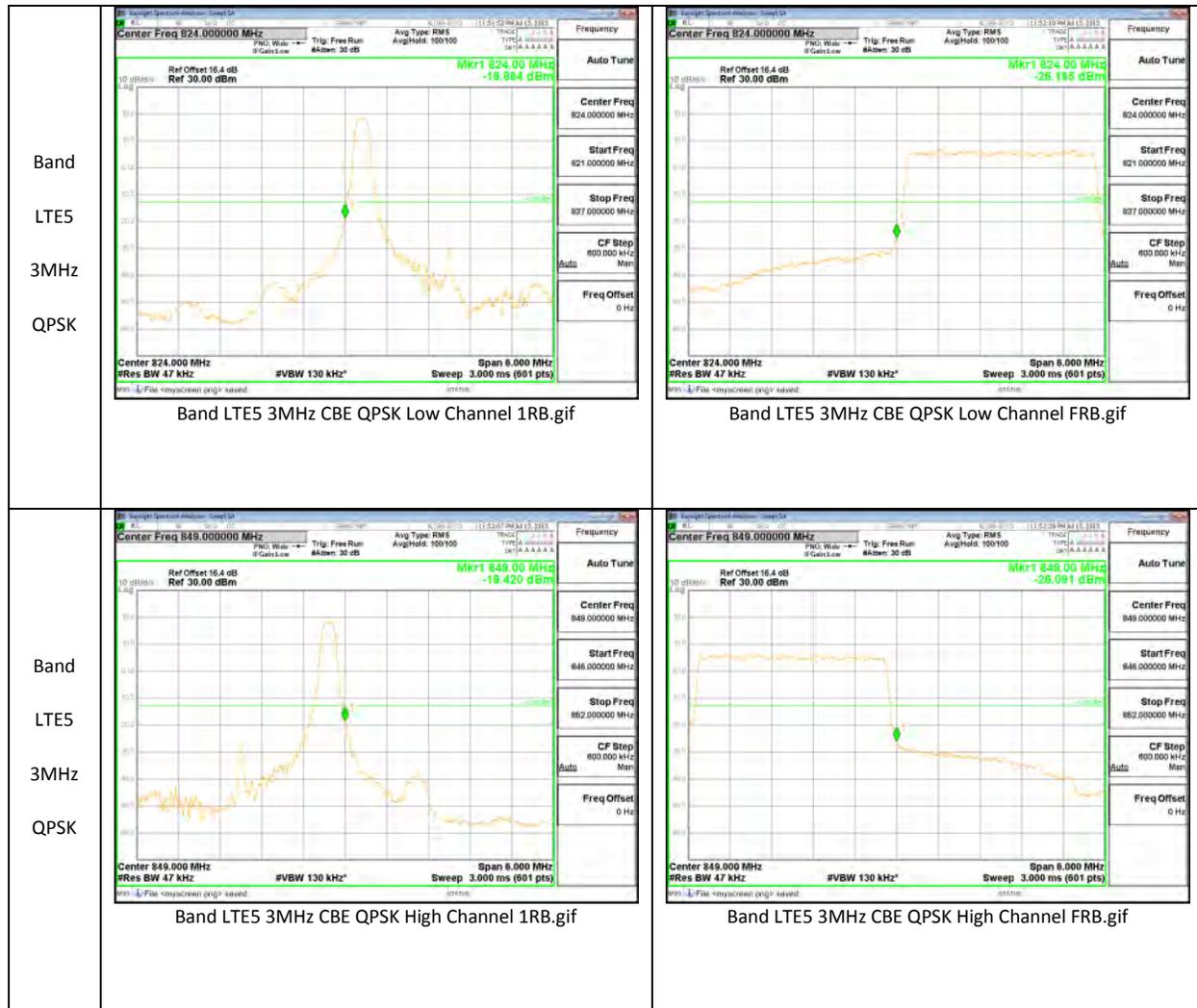
<p>Band LTE5 10MHz 16QAM</p>	 <p>Band LTE5 10MHz CBE 16QAM Low Channel 1RB.gif</p>	 <p>Band LTE5 10MHz CBE 16QAM Low Channel FRB.gif</p>
<p>Band LTE5 10MHz 16QAM</p>	 <p>Band LTE5 10MHz CBE 16QAM High Channel 1RB.gif</p>	 <p>Band LTE5 10MHz CBE 16QAM High Channel FRB.gif</p>

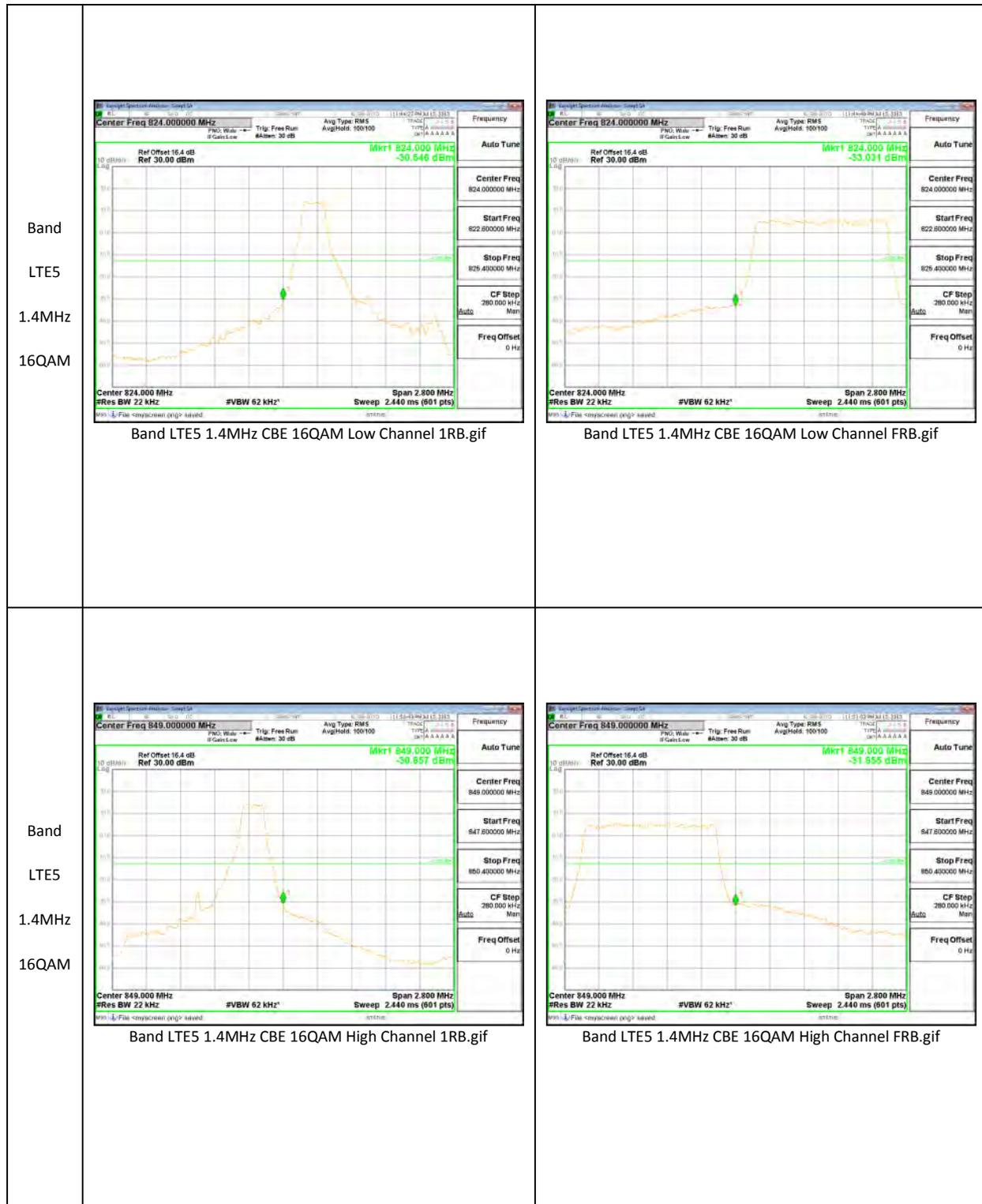


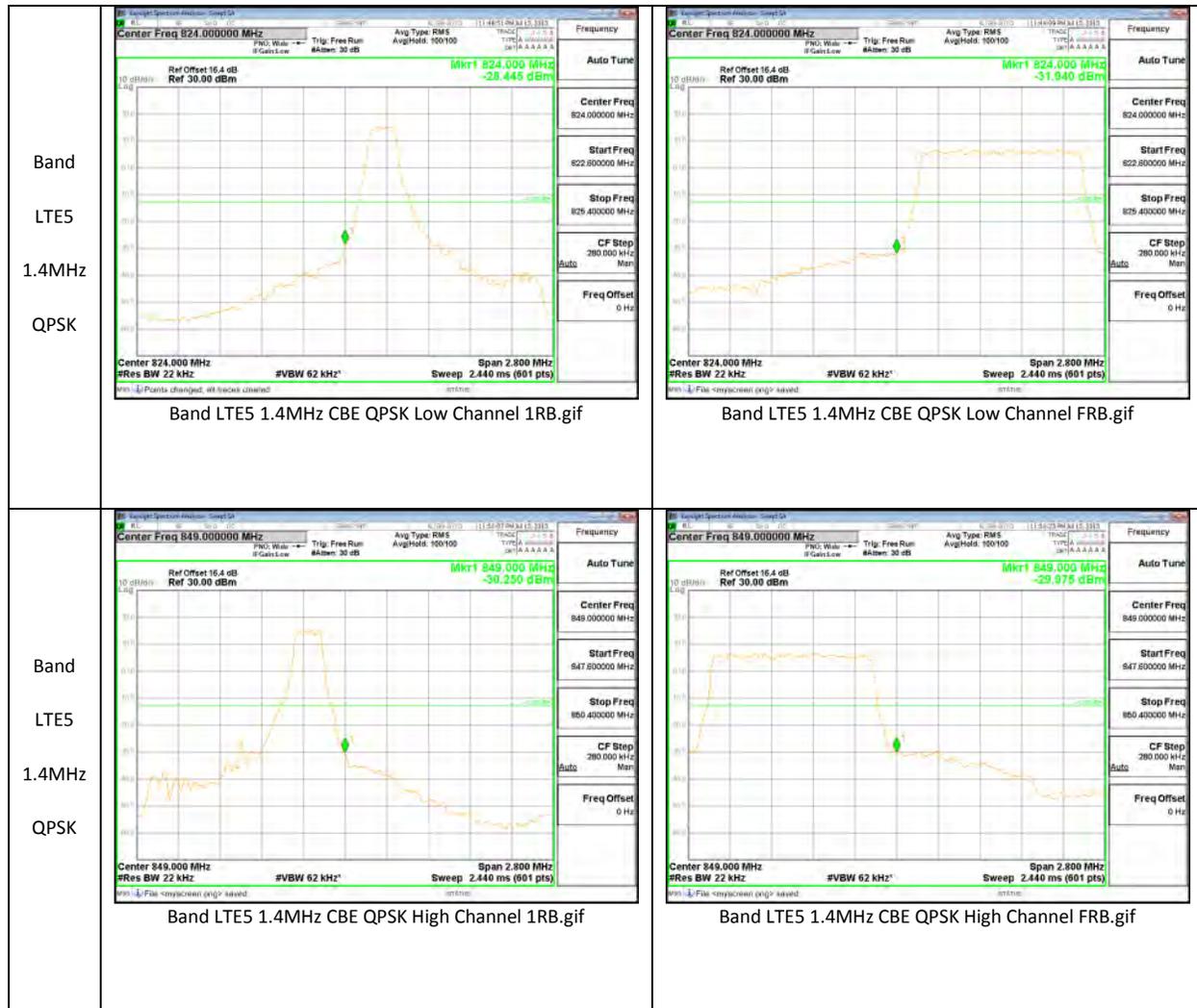
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	<p>Band LTE5 5MHz CBE 16QAM Low Channel 1RB.gif</p>	<p>Band LTE5 5MHz CBE 16QAM Low Channel FRB.gif</p>
<p>Band LTE5 5MHz 16QAM</p>	<p>Center Freq 849.000000 MHz Ref Offset 16.4 dB Ref 30.00 dBm Mkr1 849.000 MHz -21.030 dBm Center Freq 849.000000 MHz Start Freq 844.000000 MHz Stop Freq 854.000000 MHz CF Step 1.000000 MHz Freq Offset 0 Hz Center 849.000 MHz #VBW 220 kHz* Span 10.00 MHz #Res BW 75 kHz Sweep 5.000 ms (601 pts)</p>	<p>Center Freq 849.000000 MHz Ref Offset 16.4 dB Ref 30.00 dBm Mkr1 849.000 MHz -29.019 dBm Center Freq 849.000000 MHz Start Freq 844.000000 MHz Stop Freq 854.000000 MHz CF Step 1.000000 MHz Freq Offset 0 Hz Center 849.000 MHz #VBW 220 kHz* Span 10.00 MHz #Res BW 75 kHz Sweep 5.000 ms (601 pts)</p>
	<p>Band LTE5 5MHz CBE 16QAM High Channel 1RB.gif</p>	<p>Band LTE5 5MHz CBE 16QAM High Channel FRB.gif</p>



<p>Band LTE5 3MHz 16QAM</p>	 <p>Band LTE5 3MHz CBE 16QAM Low Channel 1RB.gif</p>	 <p>Band LTE5 3MHz CBE 16QAM Low Channel FRB.gif</p>
<p>Band LTE5 3MHz 16QAM</p>	 <p>Band LTE5 3MHz CBE 16QAM High Channel 1RB.gif</p>	 <p>Band LTE5 3MHz CBE 16QAM High Channel FRB.gif</p>

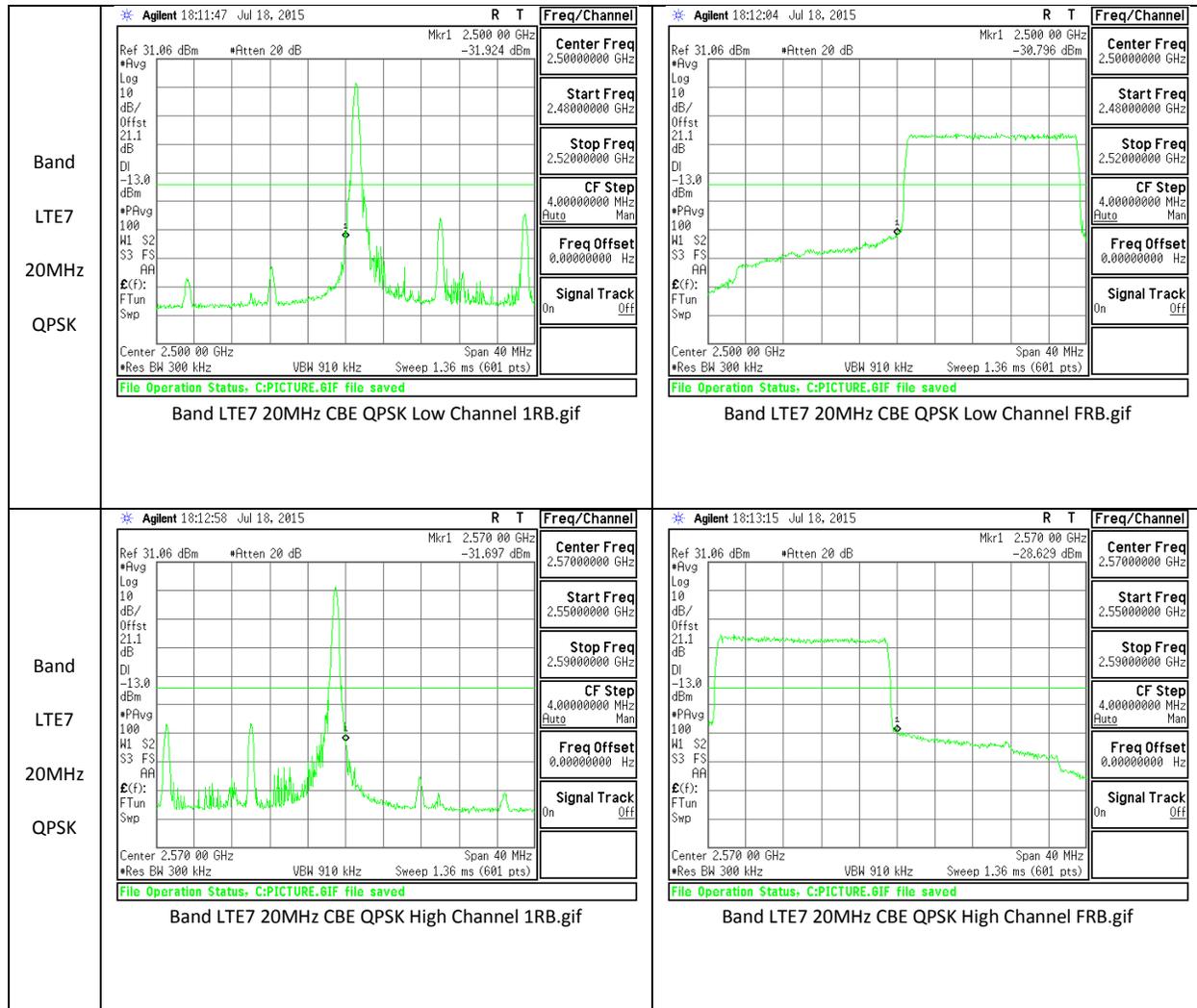


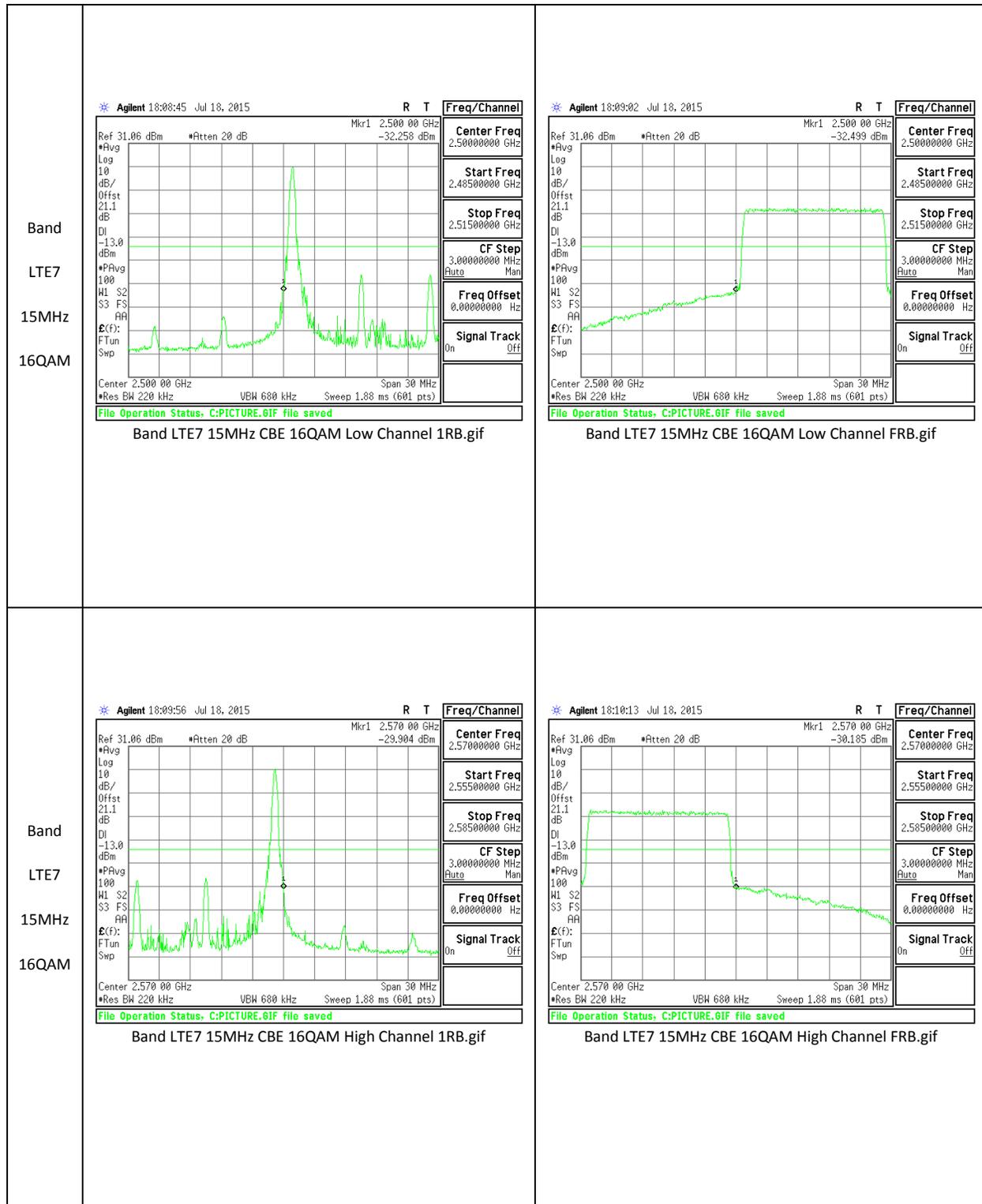


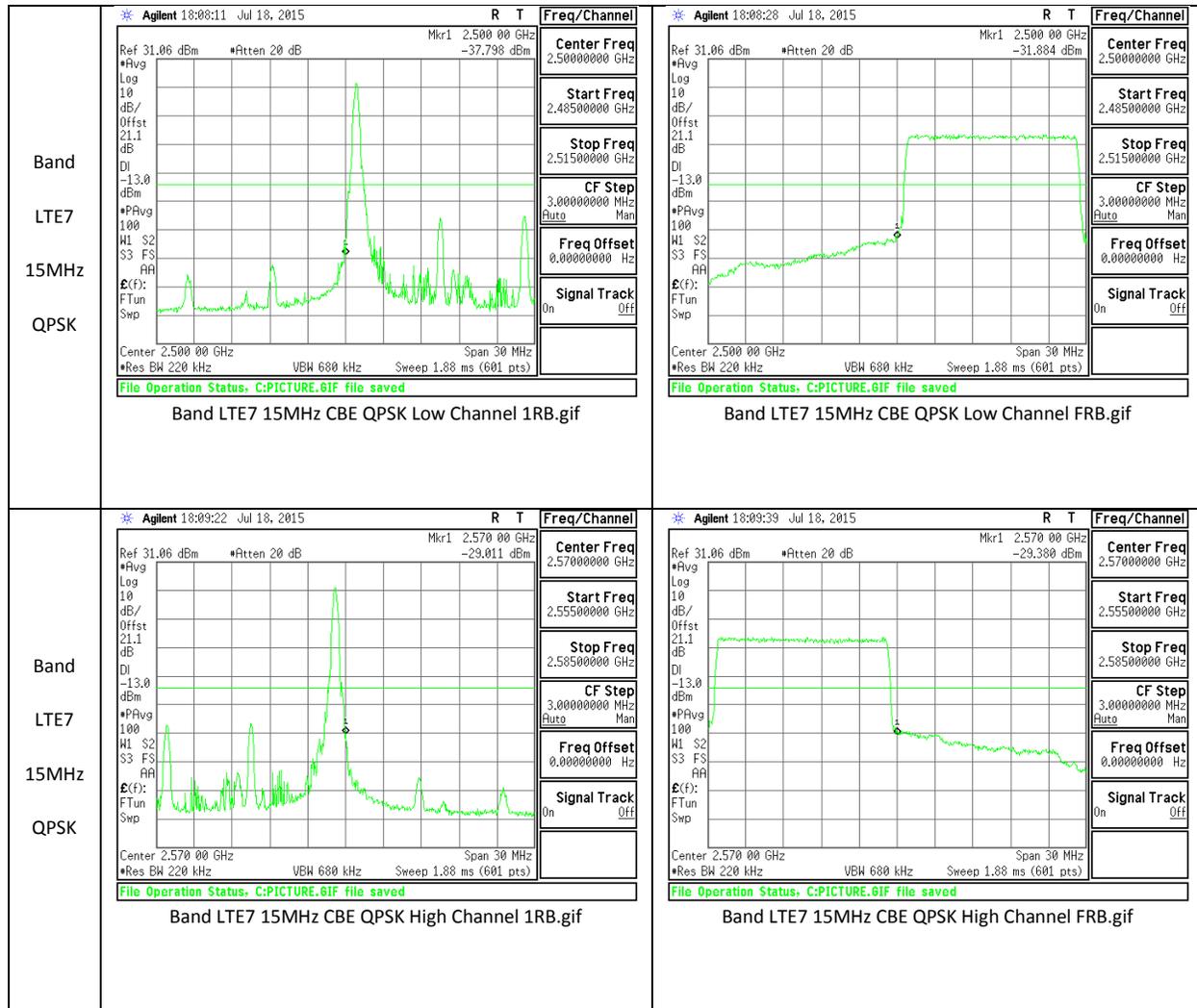


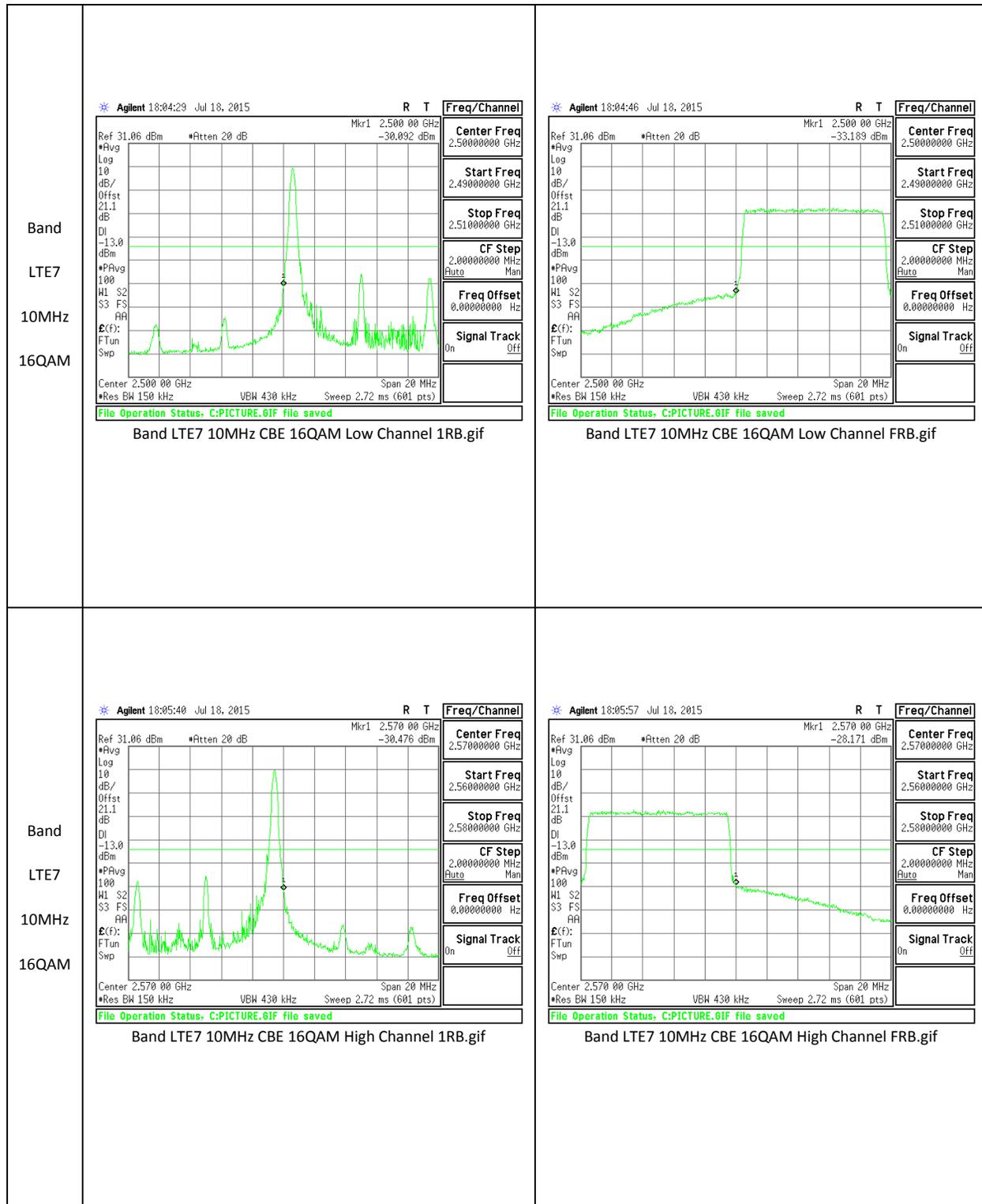
LTE Band 7

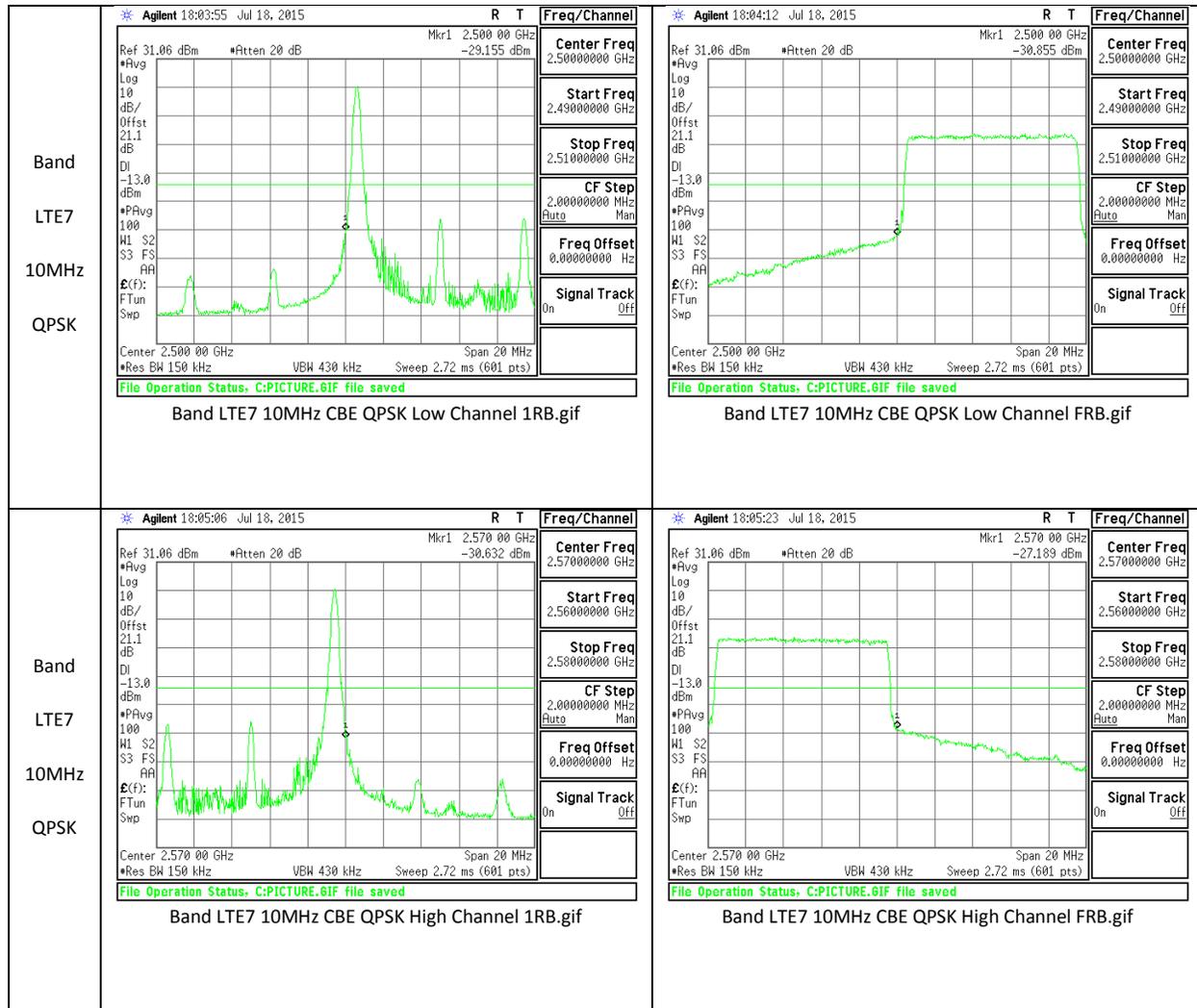
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<p>Band LTE7 20MHz 16QAM</p>	<p>Agilent 18:13:32 Jul 18, 2015</p> <p>Center Freq: 2.57000000 GHz Start Freq: 2.55000000 GHz Stop Freq: 2.59000000 GHz CF Step: 4.00000000 MHz Freq Offset: 0.00000000 Hz Signal Track: On</p> <p>Band LTE7 20MHz CBE 16QAM High Channel 1RB.gif</p>	<p>Agilent 18:13:49 Jul 18, 2015</p> <p>Center Freq: 2.57000000 GHz Start Freq: 2.55000000 GHz Stop Freq: 2.59000000 GHz CF Step: 4.00000000 MHz Freq Offset: 0.00000000 Hz Signal Track: Off</p> <p>Band LTE7 20MHz CBE 16QAM High Channel FRB.gif</p>

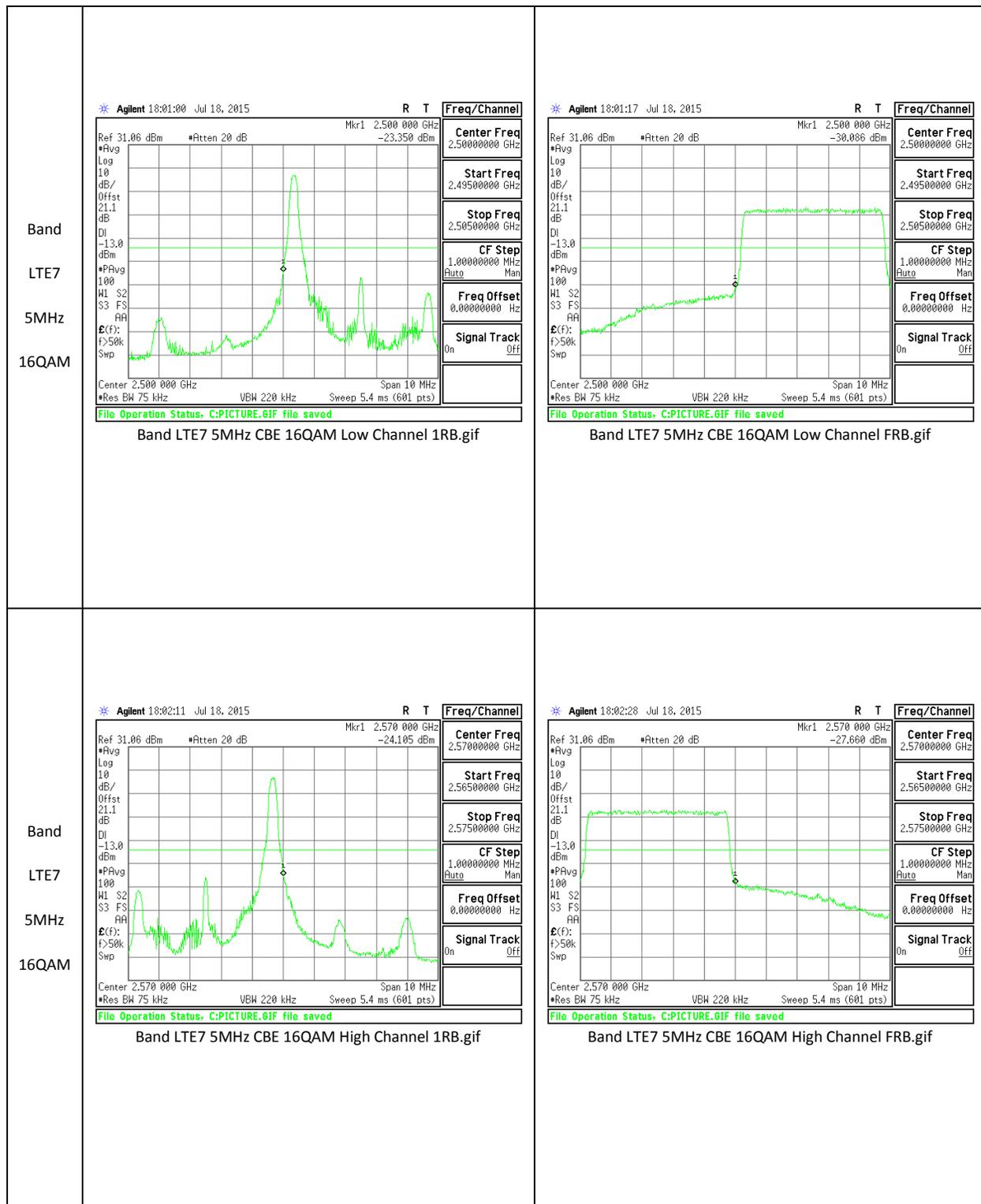


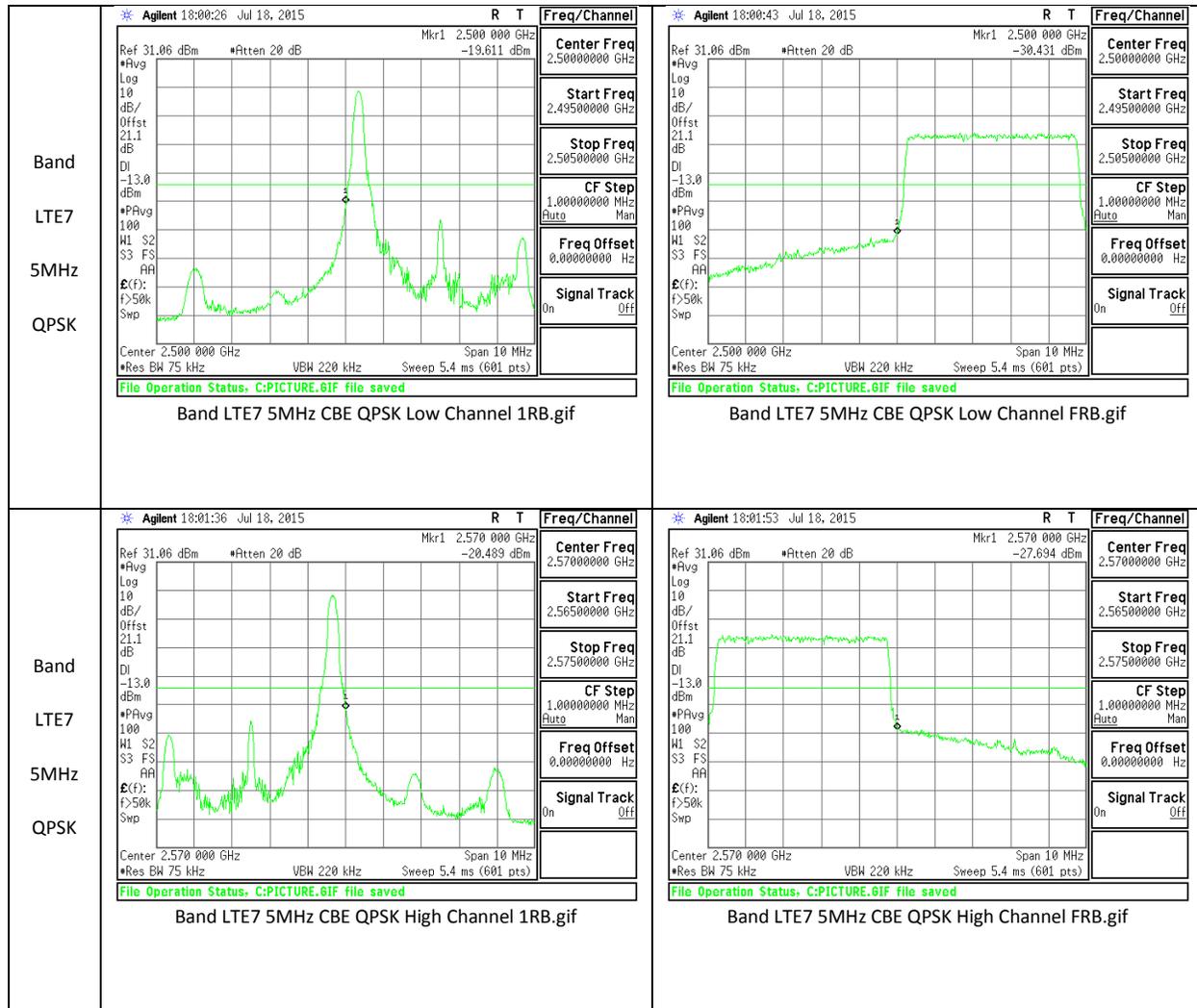




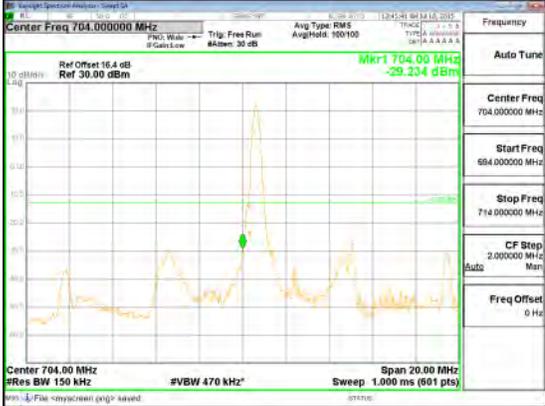
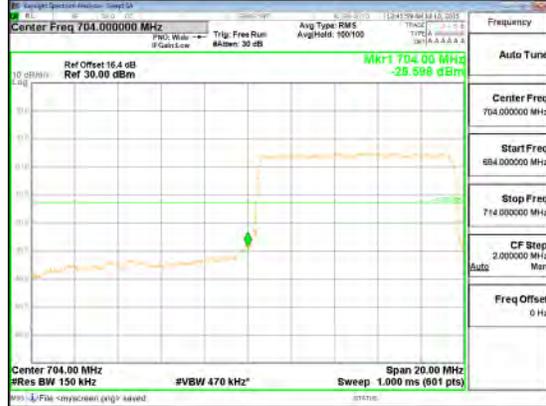


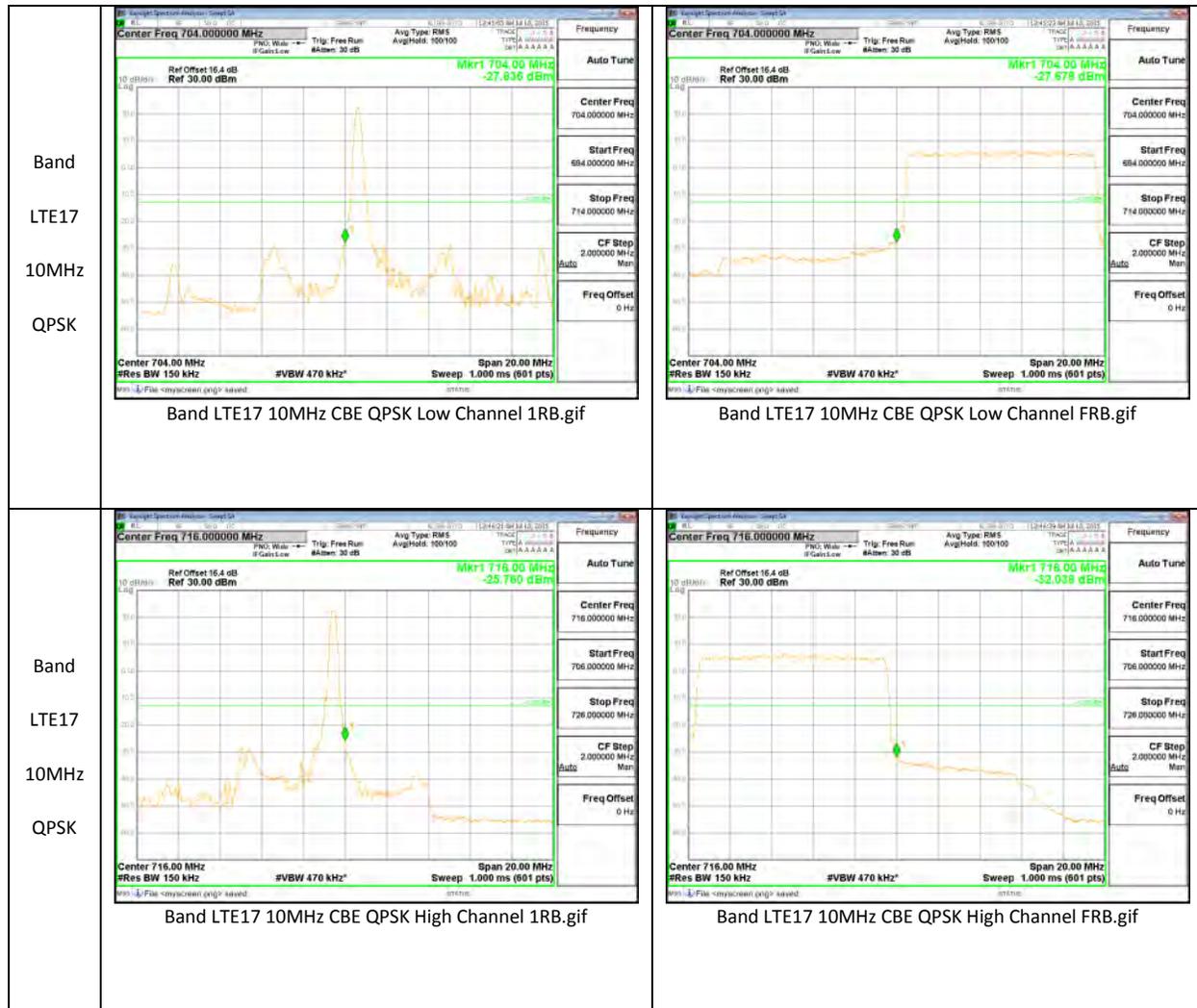




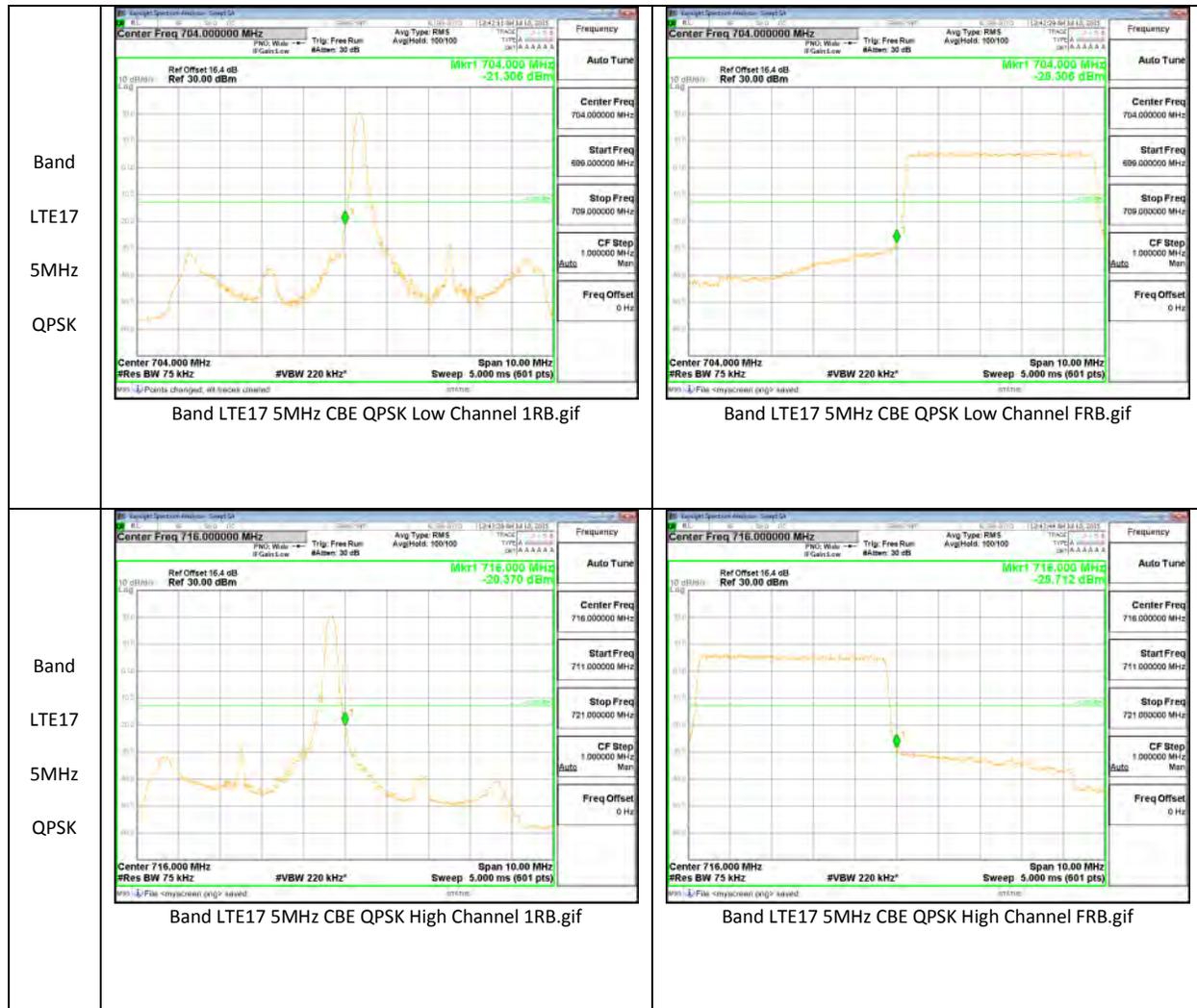


LTE Band 17

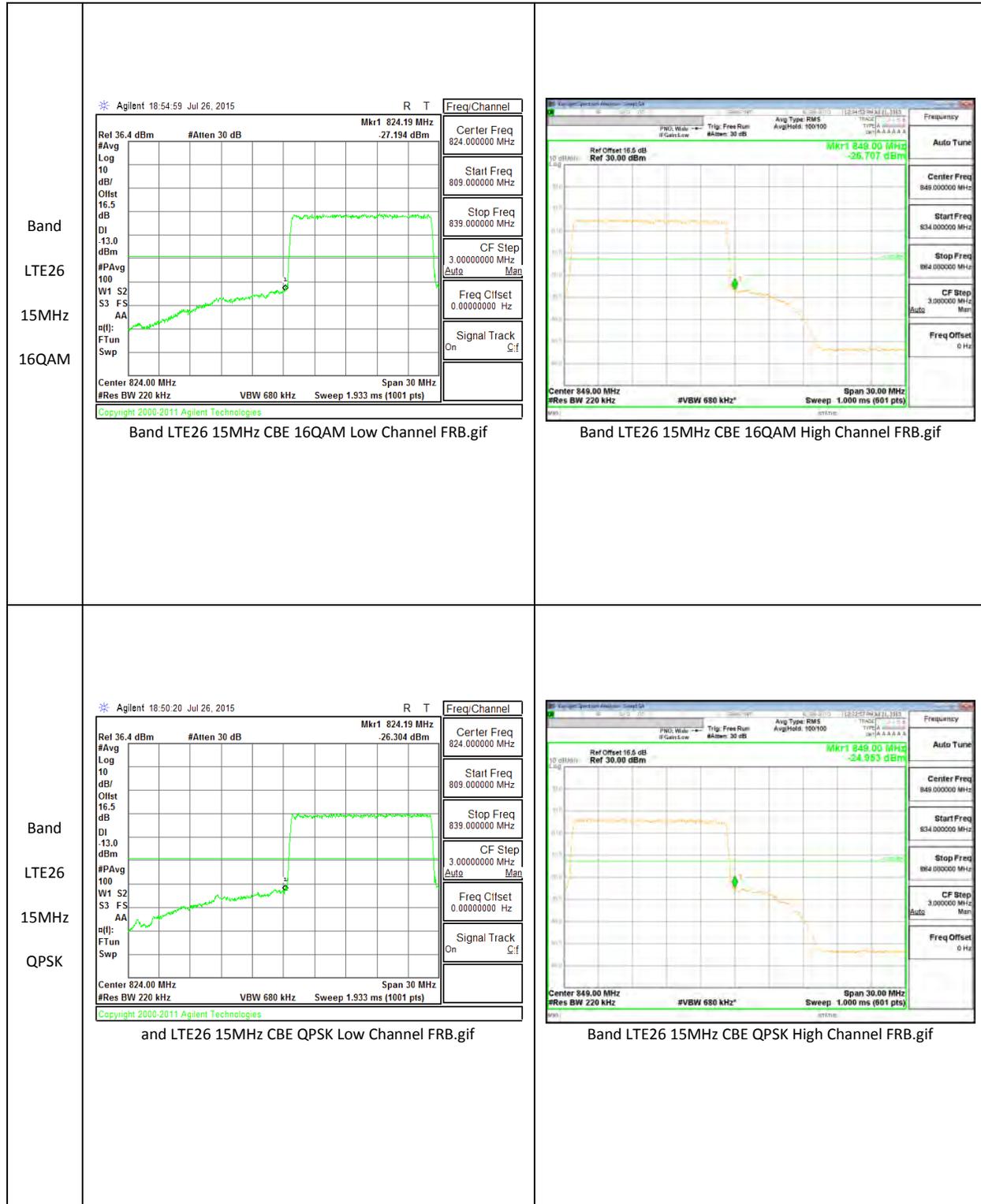
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<p>Band LTE17 10MHz 16QAM</p>	 <p>Band LTE17 10MHz CBE 16QAM High Channel 1RB.gif</p>	 <p>Band LTE17 10MHz CBE 16QAM High Channel FRB.gif</p>

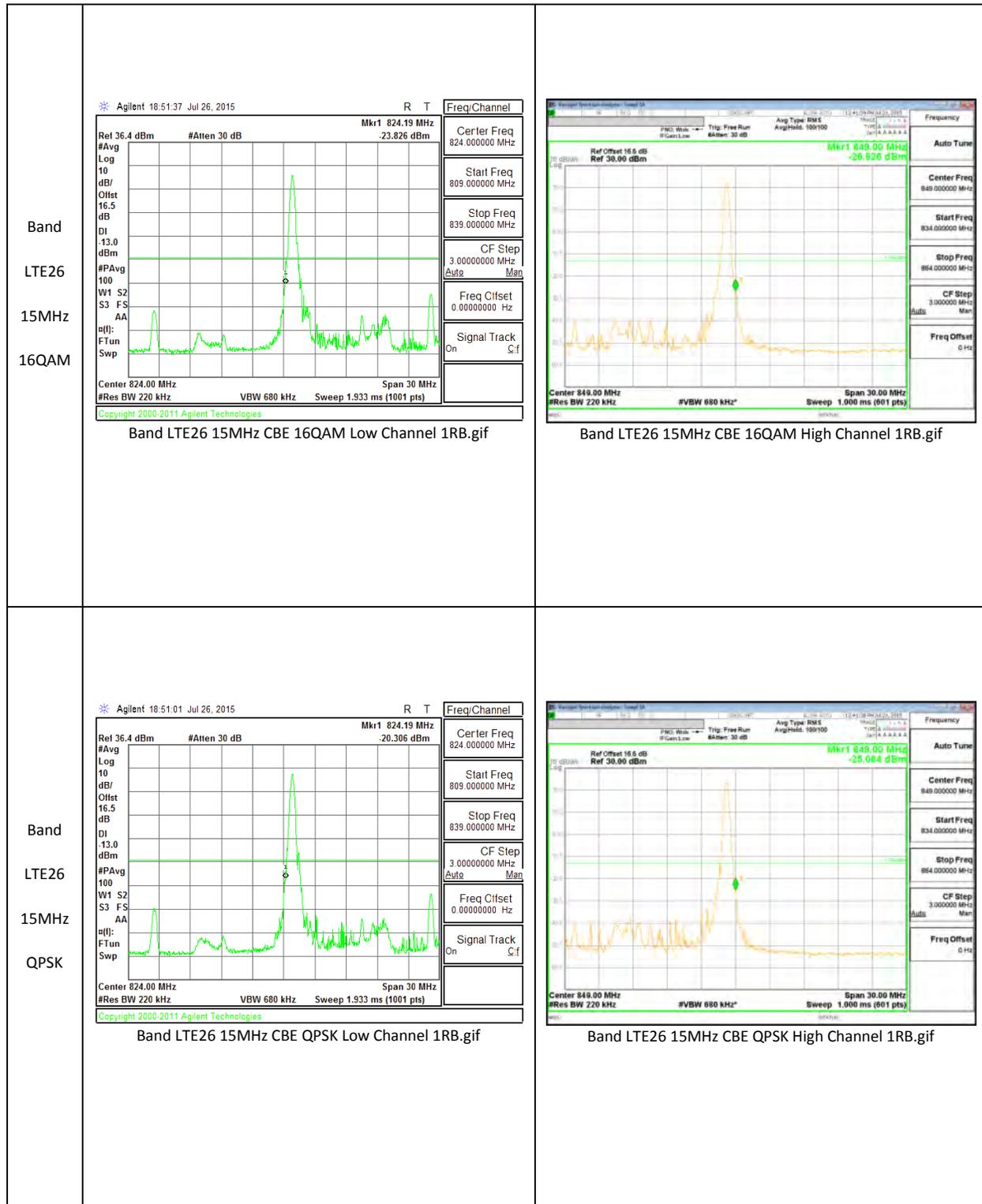


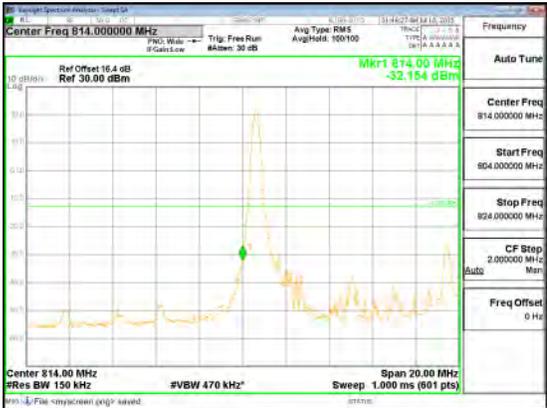
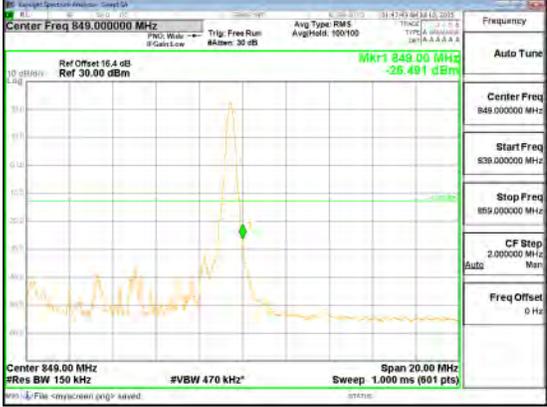
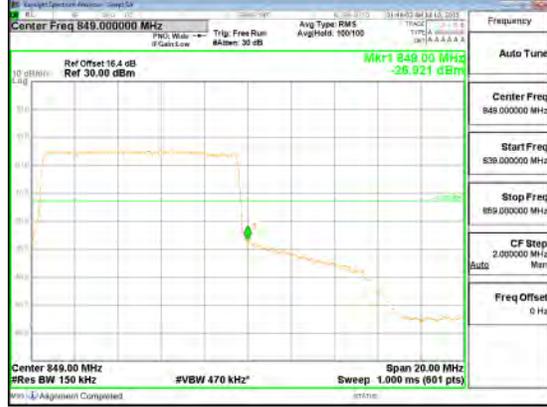
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	<p>Band LTE17 5MHz CBE 16QAM Low Channel 1RB.gif</p>	<p>Band LTE17 5MHz CBE 16QAM Low Channel FRB.gif</p>
<p>Band LTE17 5MHz 16QAM</p>		
	<p>Band LTE17 5MHz CBE 16QAM High Channel 1RB.gif</p>	<p>Band LTE17 5MHz CBE 16QAM High Channel FRB.gif</p>

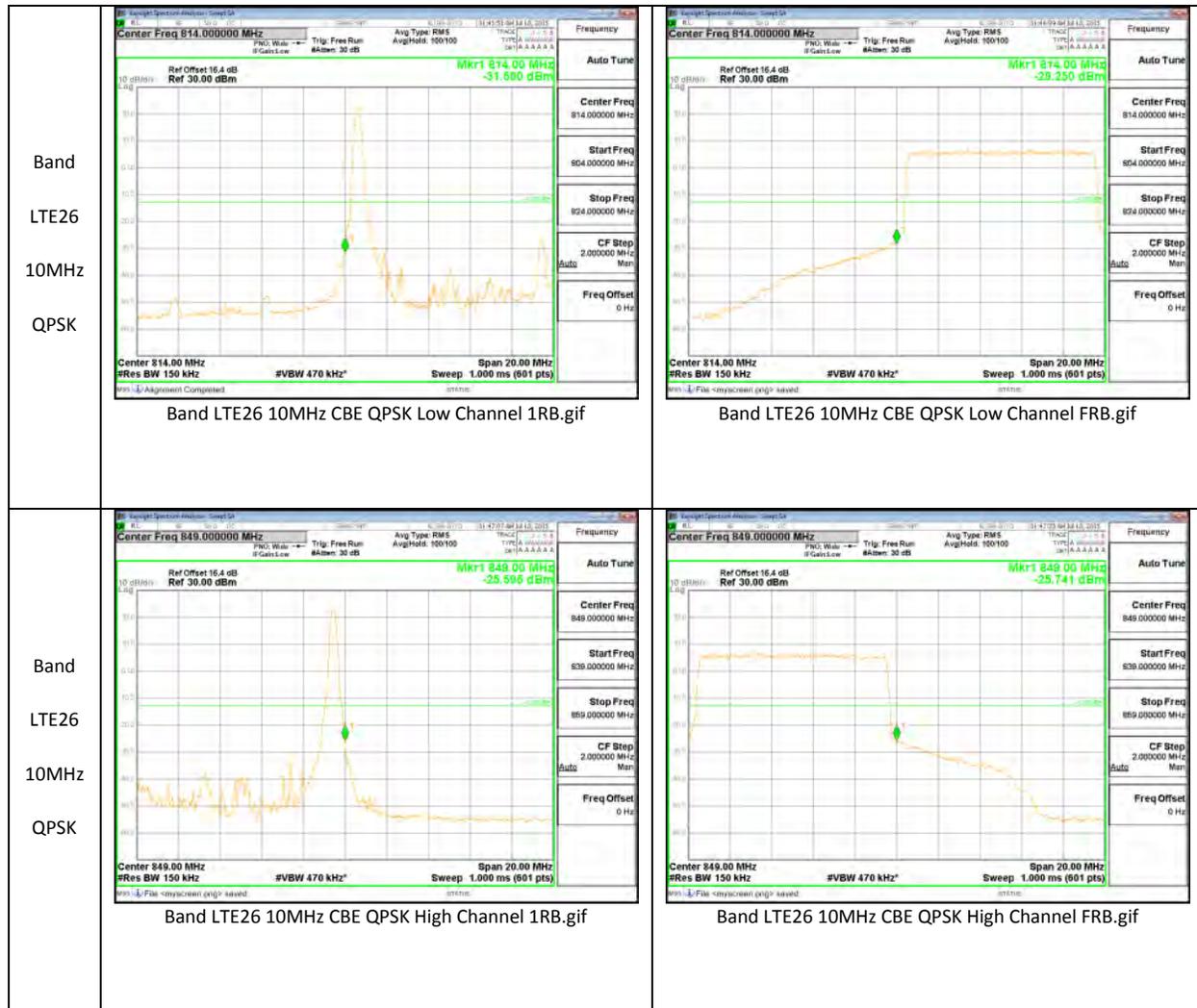


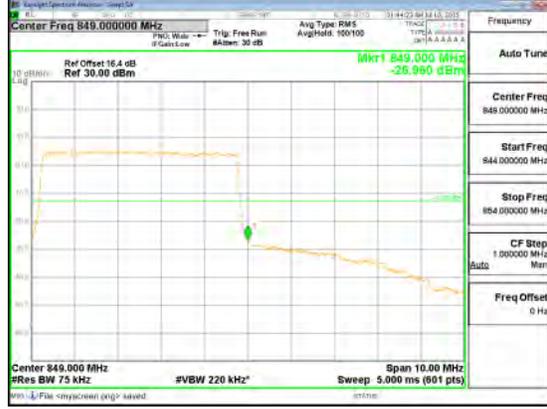
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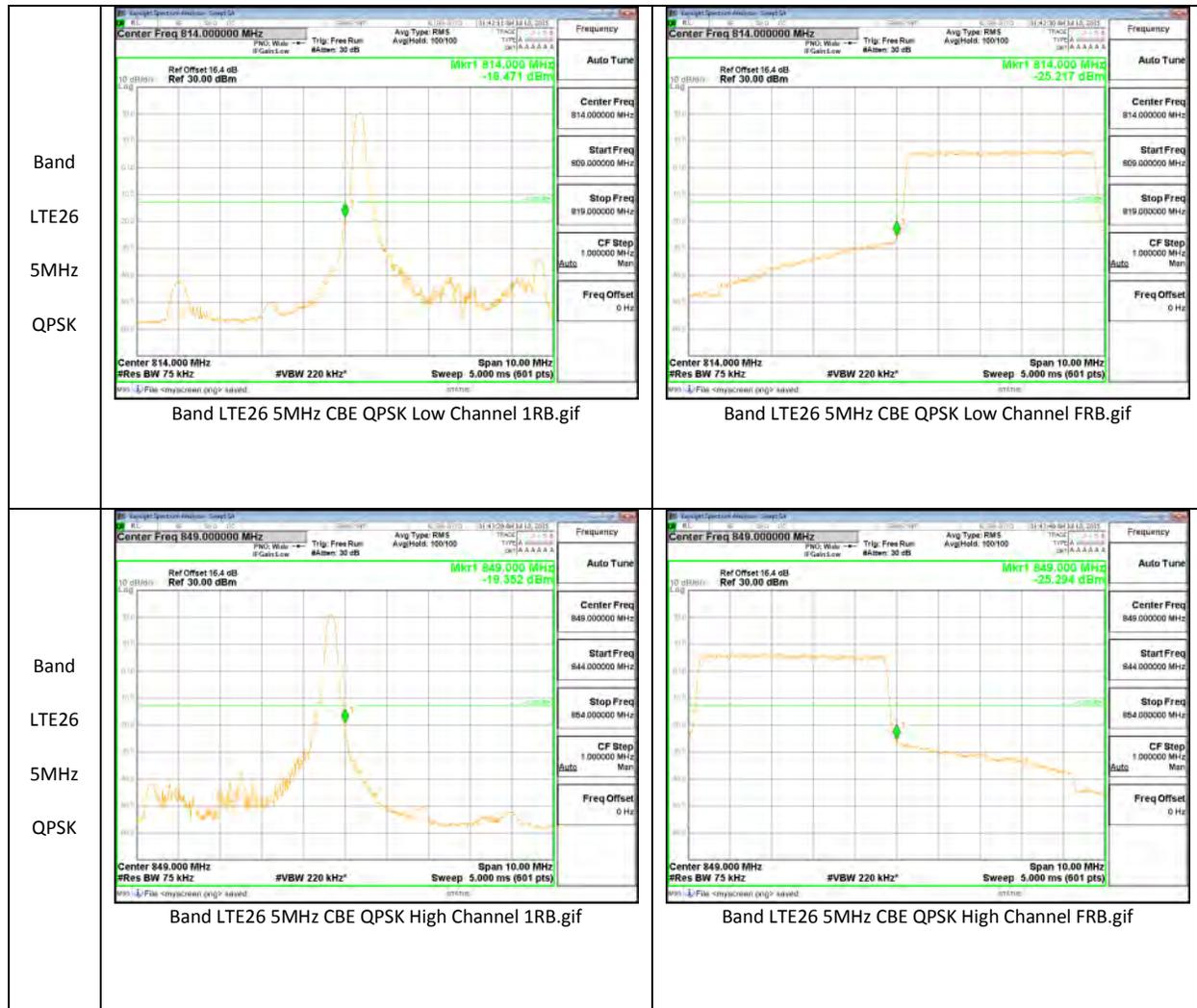


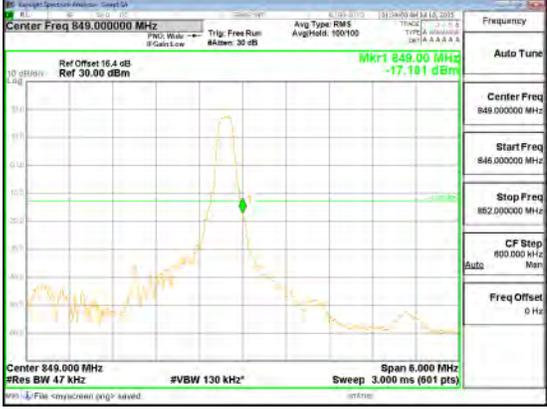


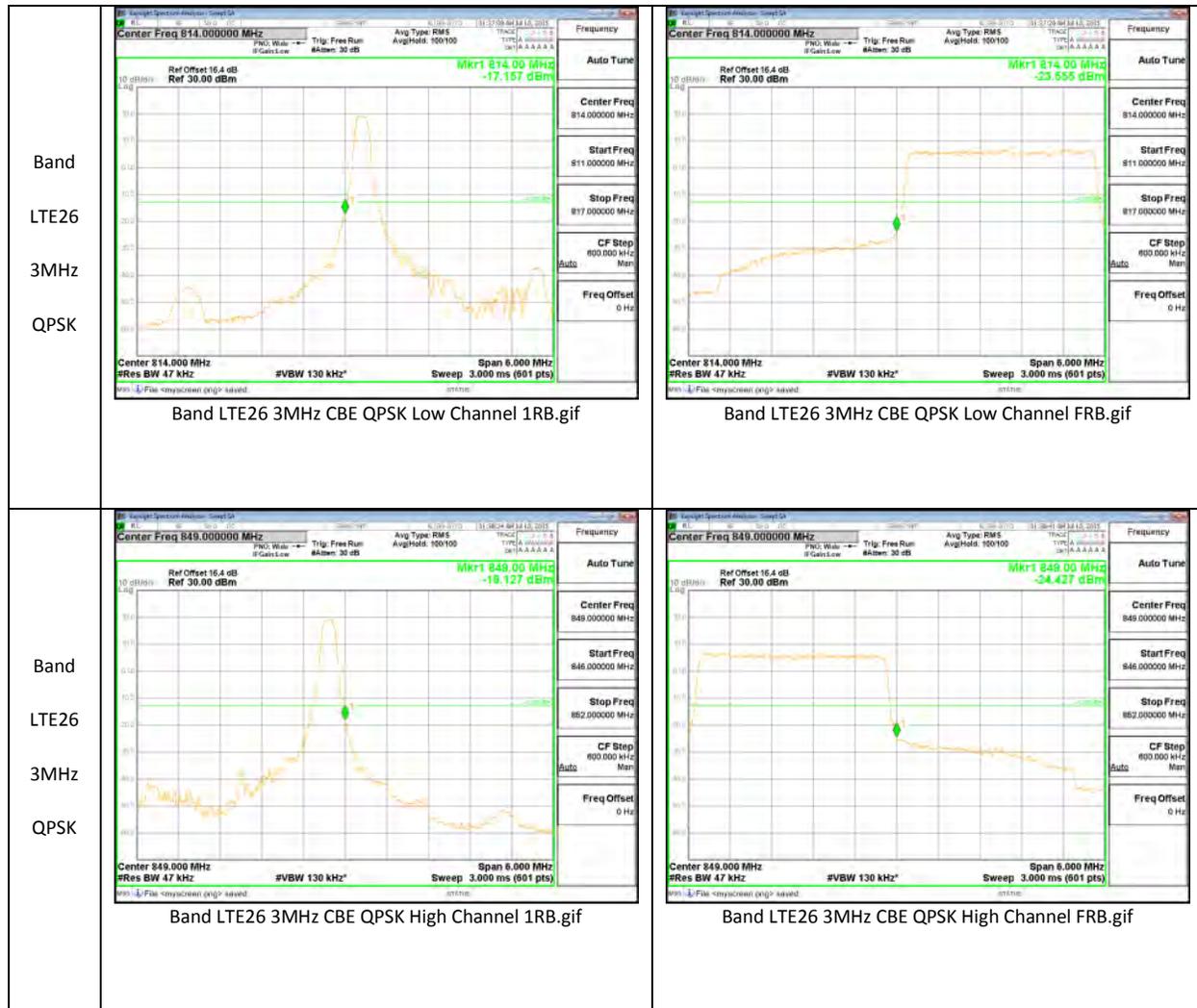
<p>Band LTE26 10MHz 16QAM</p>	 <p>Band LTE26 10MHz CBE 16QAM Low Channel 1RB.gif</p>	 <p>Band LTE26 10MHz CBE 16QAM Low Channel FRB.gif</p>
<p>Band LTE26 10MHz 16QAM</p>	 <p>Band LTE26 10MHz CBE 16QAM High Channel 1RB.gif</p>	 <p>Band LTE26 10MHz CBE 16QAM High Channel FRB.gif</p>



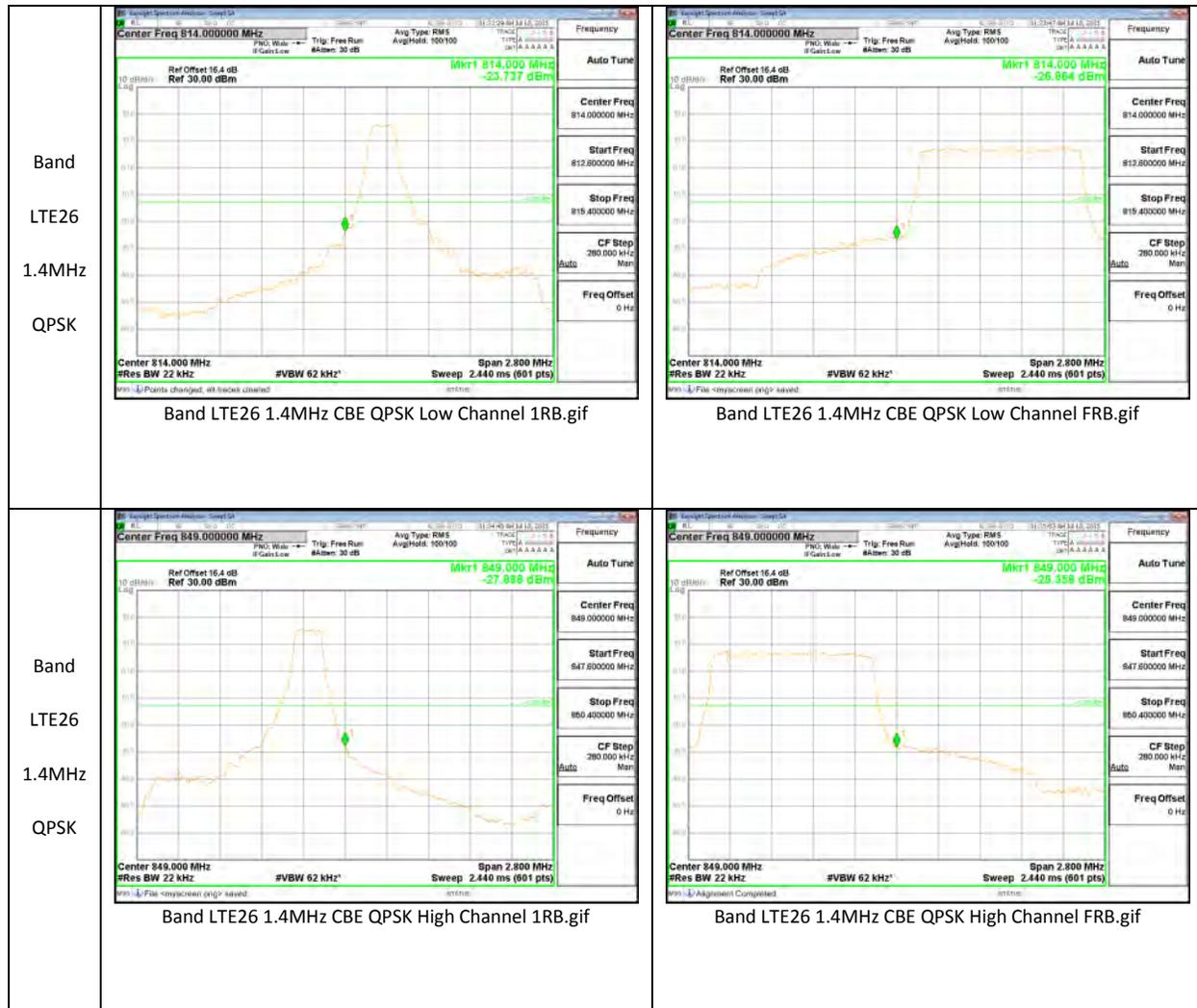
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<p>Band LTE26 5MHz 16QAM</p>	 <p>Band LTE26 5MHz CBE 16QAM High Channel 1RB.gif</p>	 <p>Band LTE26 5MHz CBE 16QAM High Channel FRB.gif</p>



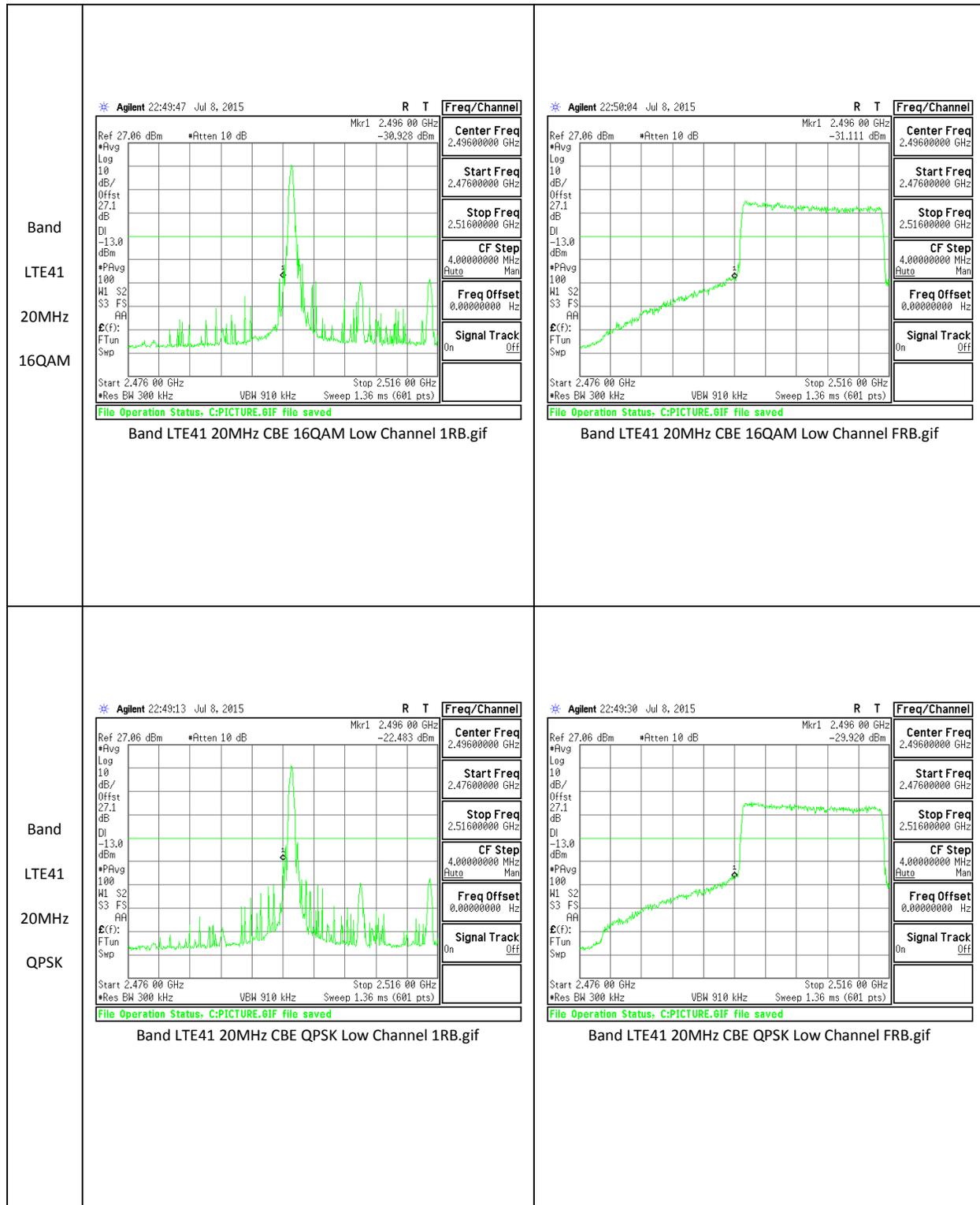
<p>Band LTE26 3MHz 16QAM</p>	 <p>Band LTE26 3MHz CBE 16QAM Low Channel 1RB.gif</p>	 <p>Band LTE26 3MHz CBE 16QAM Low Channel FRB.gif</p>
<p>Band LTE26 3MHz 16QAM</p>	 <p>Band LTE26 3MHz CBE 16QAM High Channel 1RB.gif</p>	 <p>Band LTE26 3MHz CBE 16QAM High Channel FRB.gif</p>

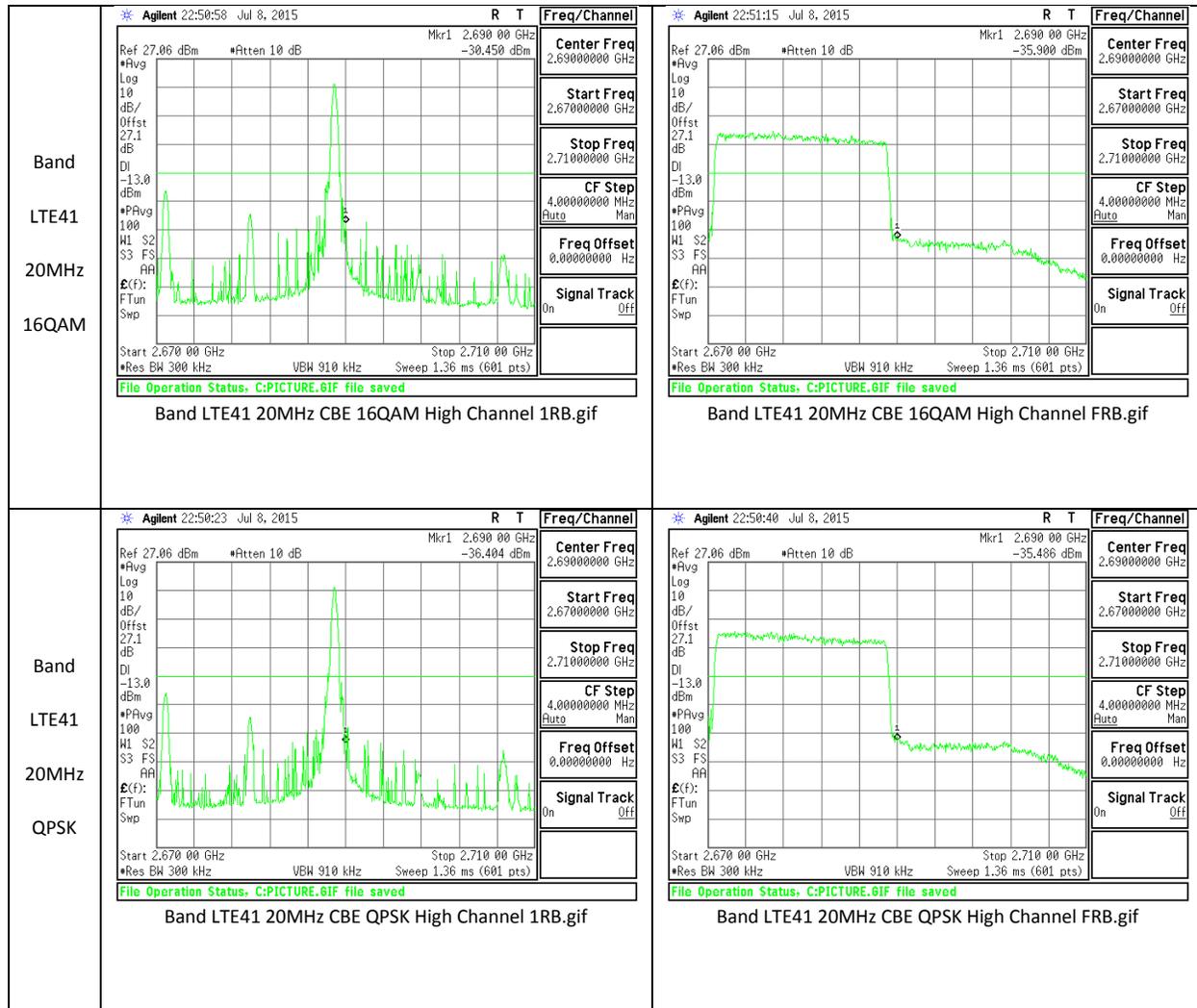


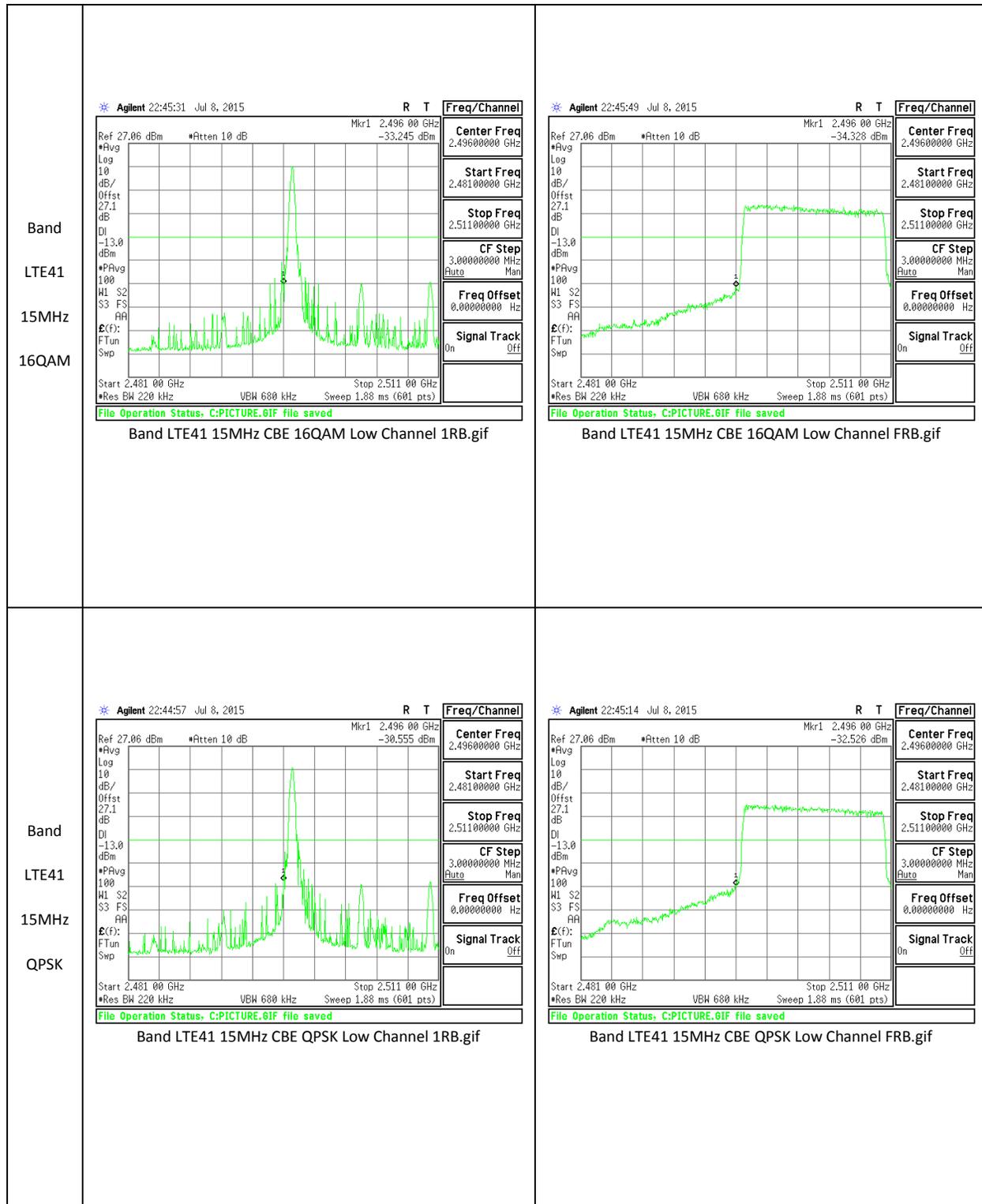
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<p>Band LTE26 1.4MHz 16QAM</p>	 <p>Band LTE26 1.4MHz CBE 16QAM High Channel 1RB.gif</p>	 <p>Band LTE26 1.4MHz CBE 16QAM High Channel FRB.gif</p>

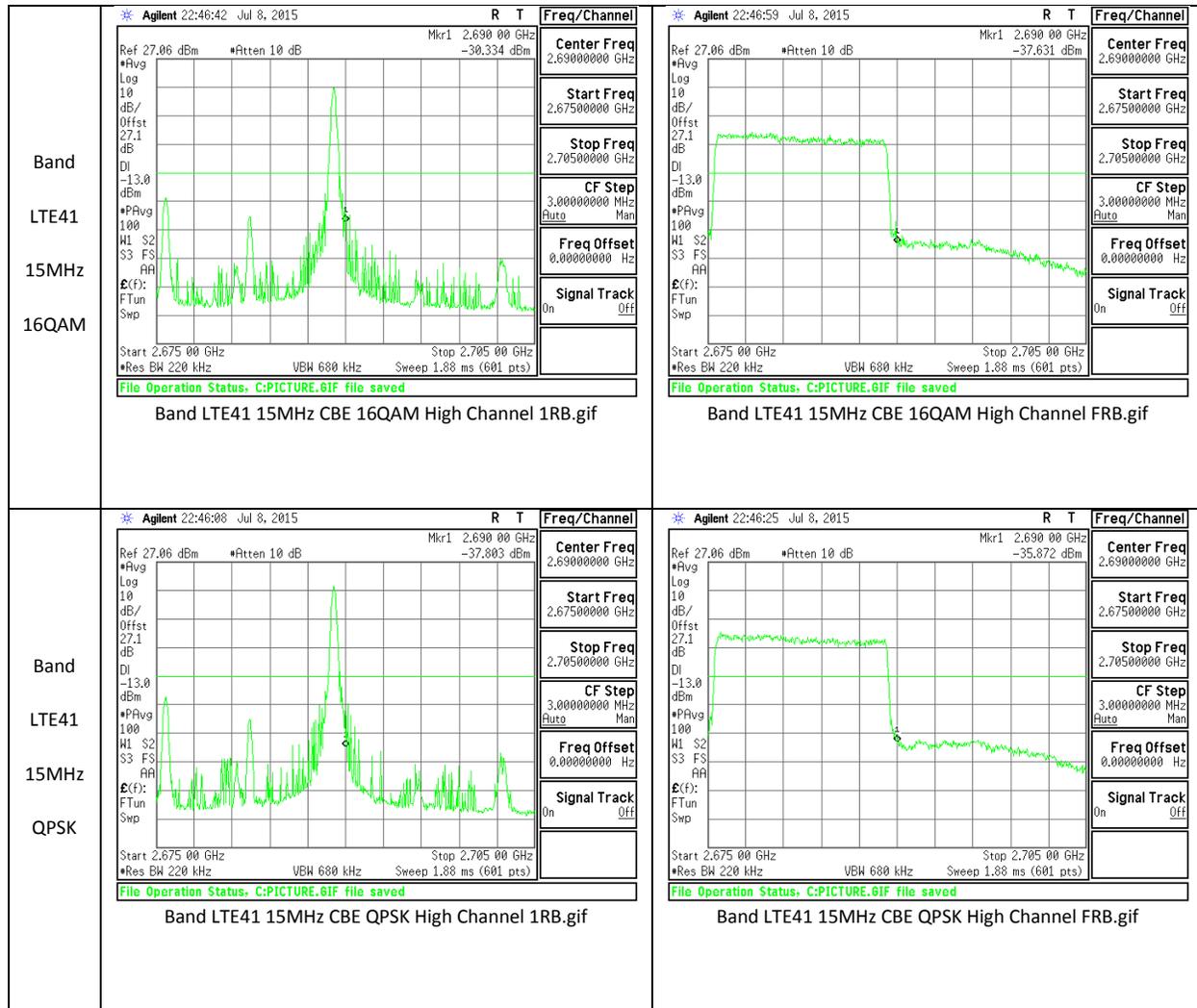


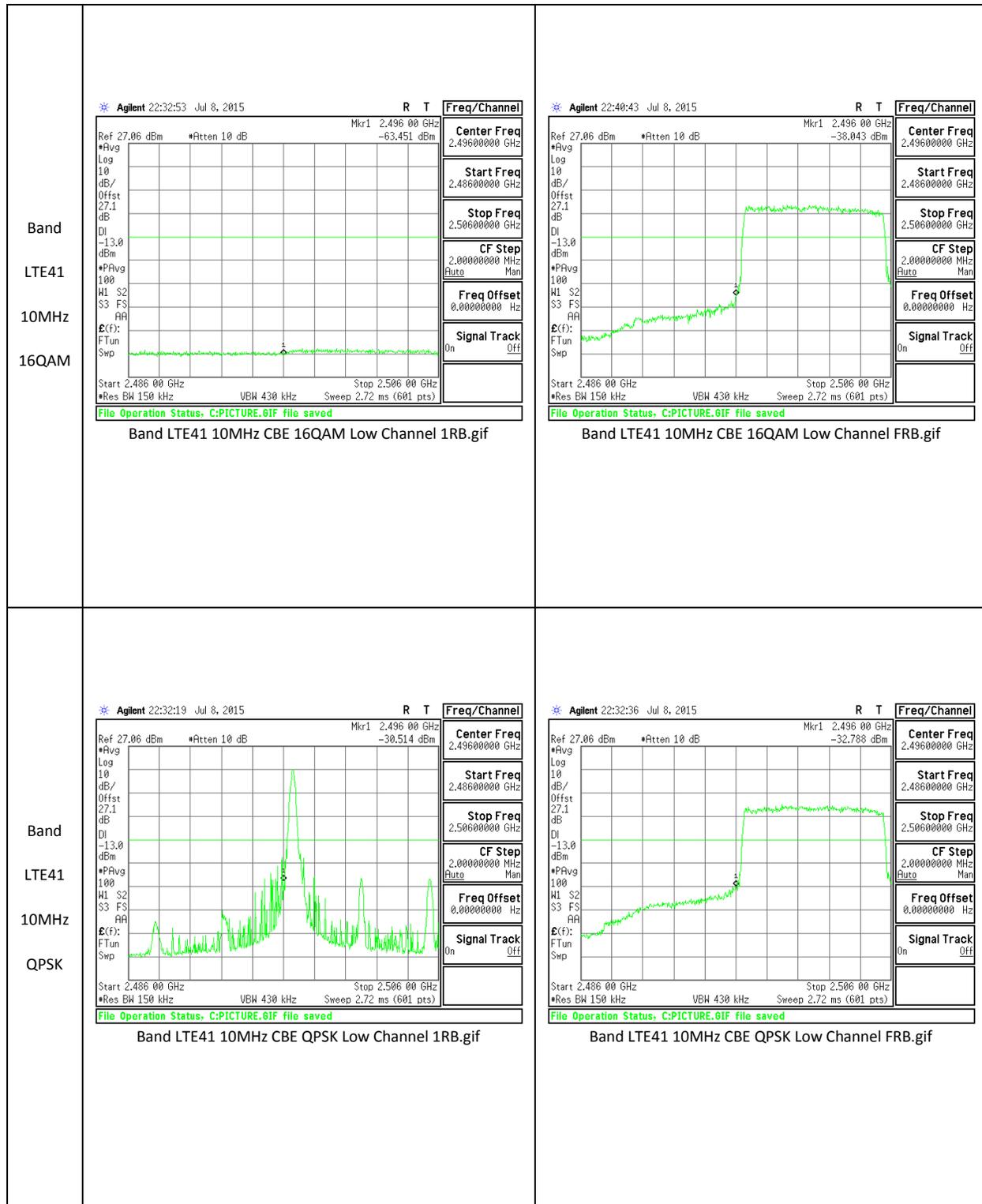
LTE Band 41

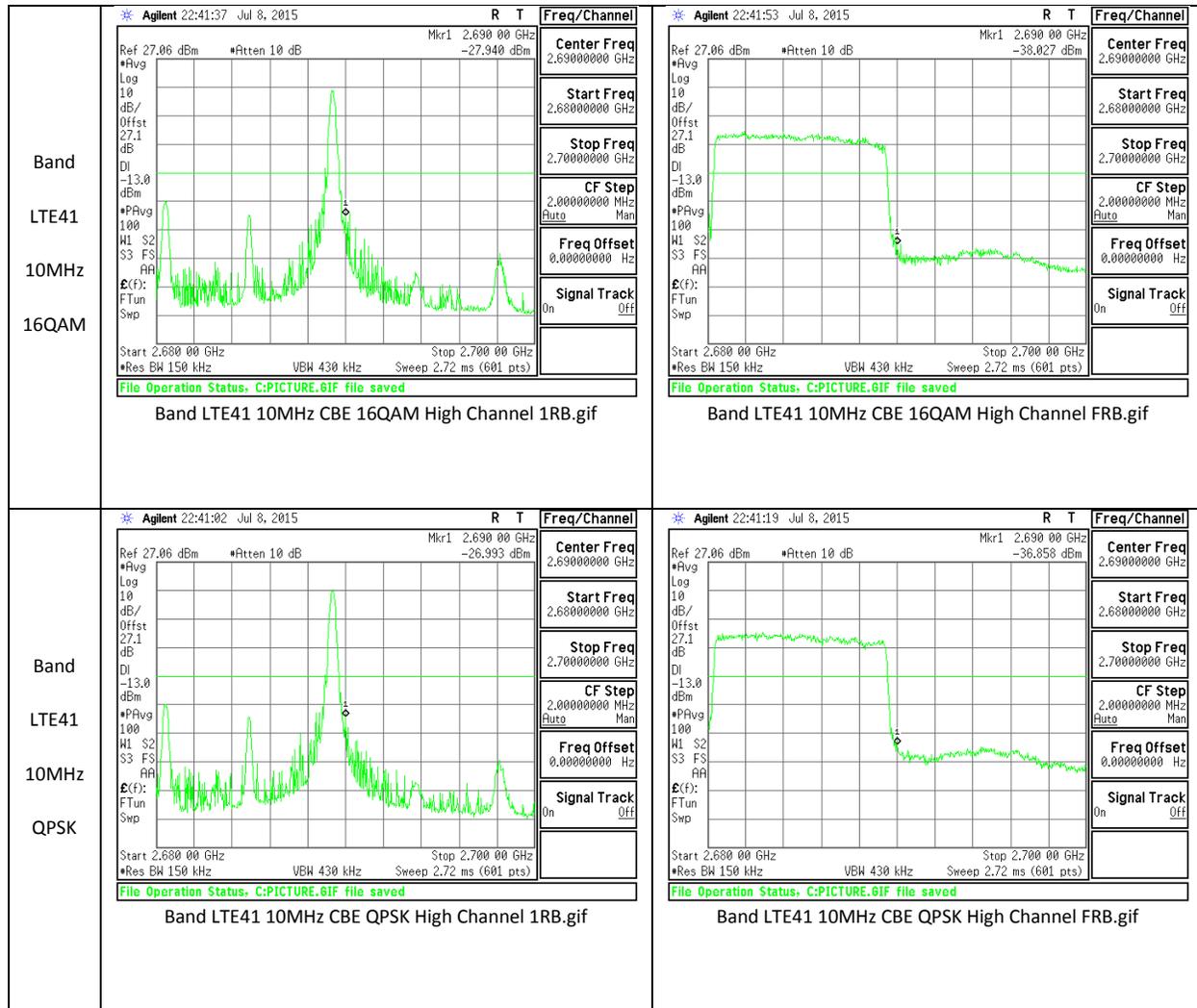


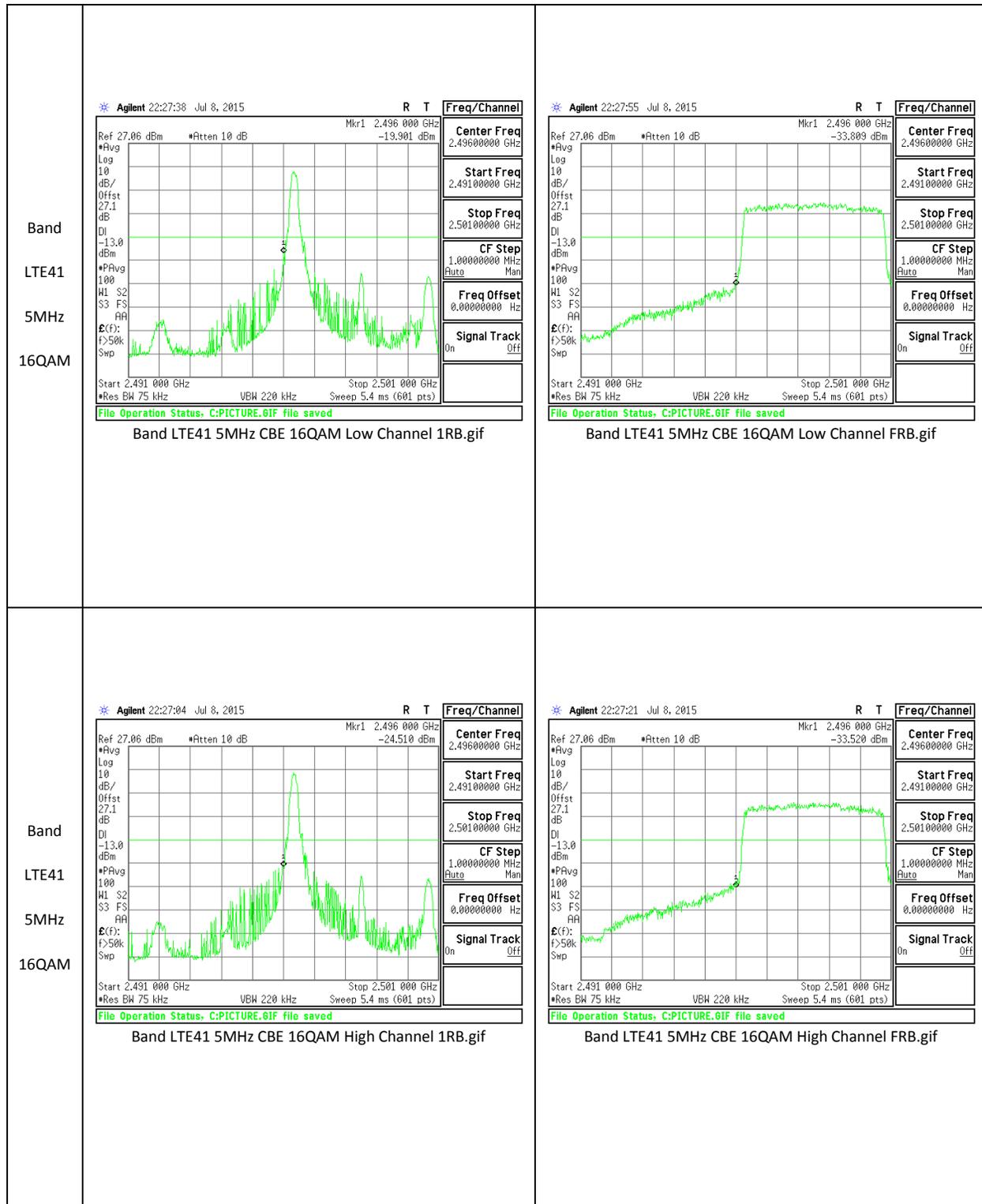


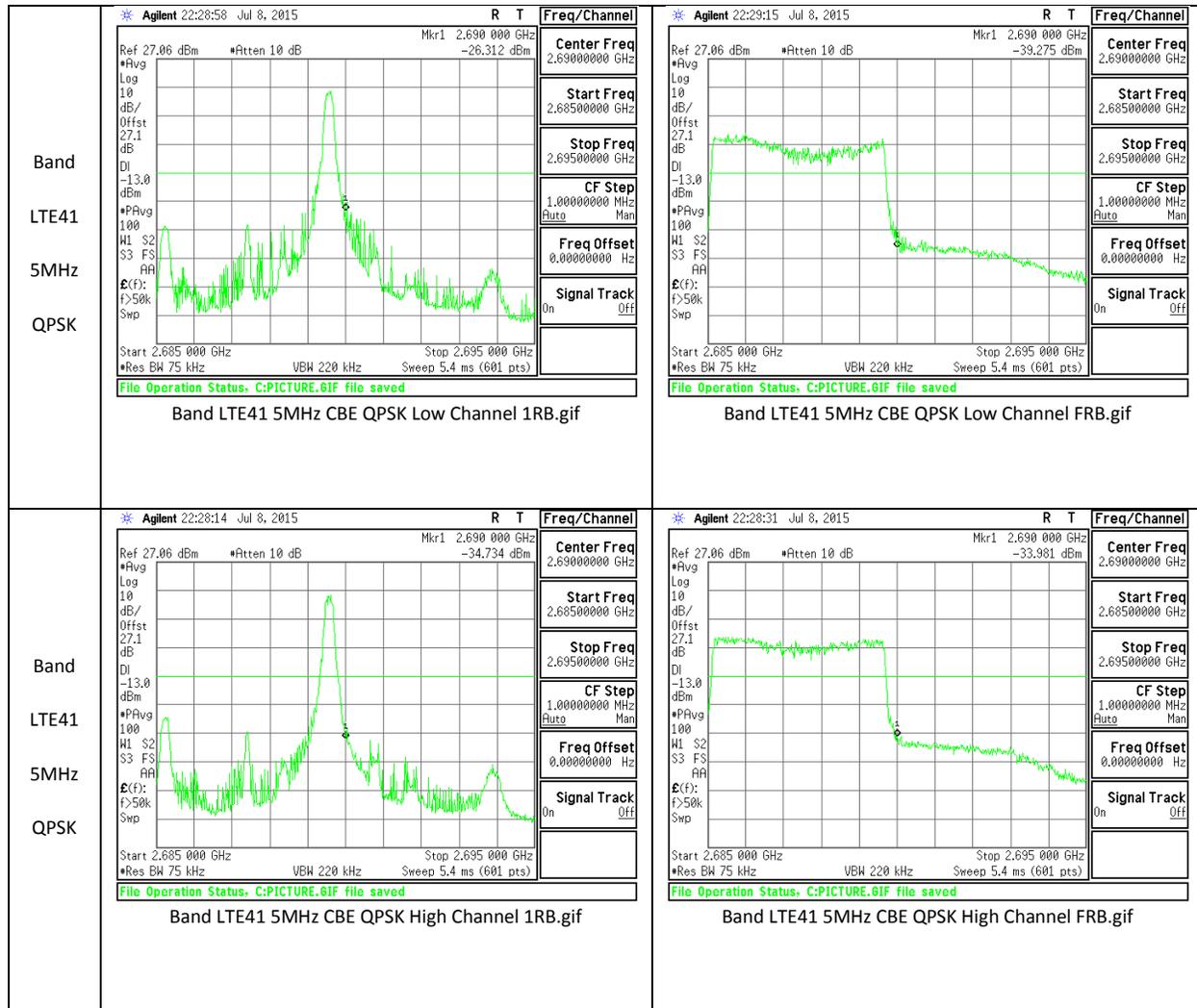


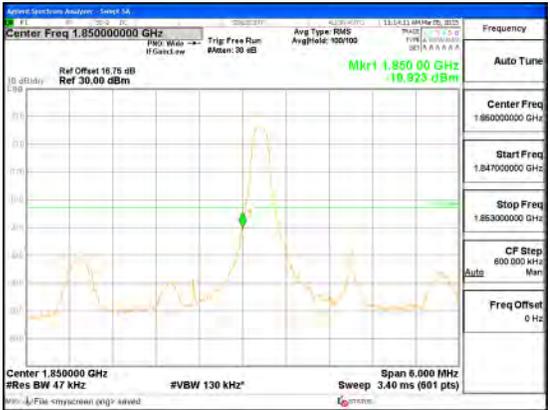
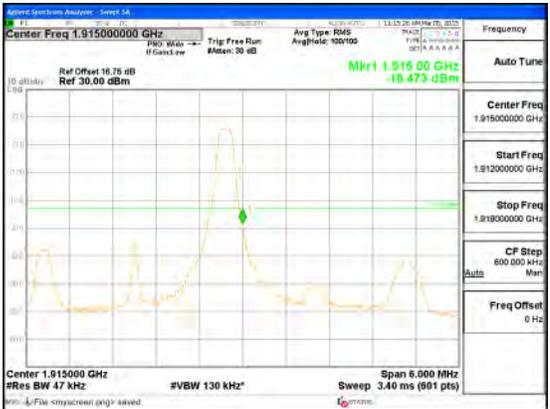
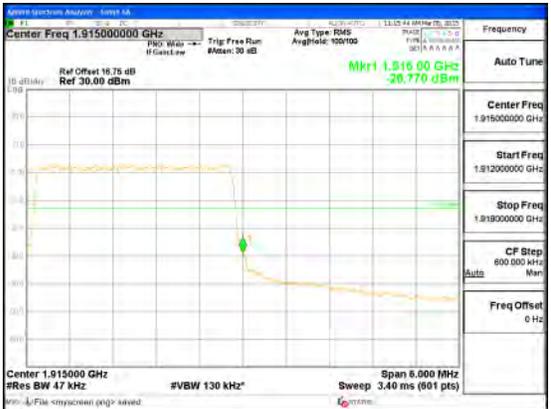


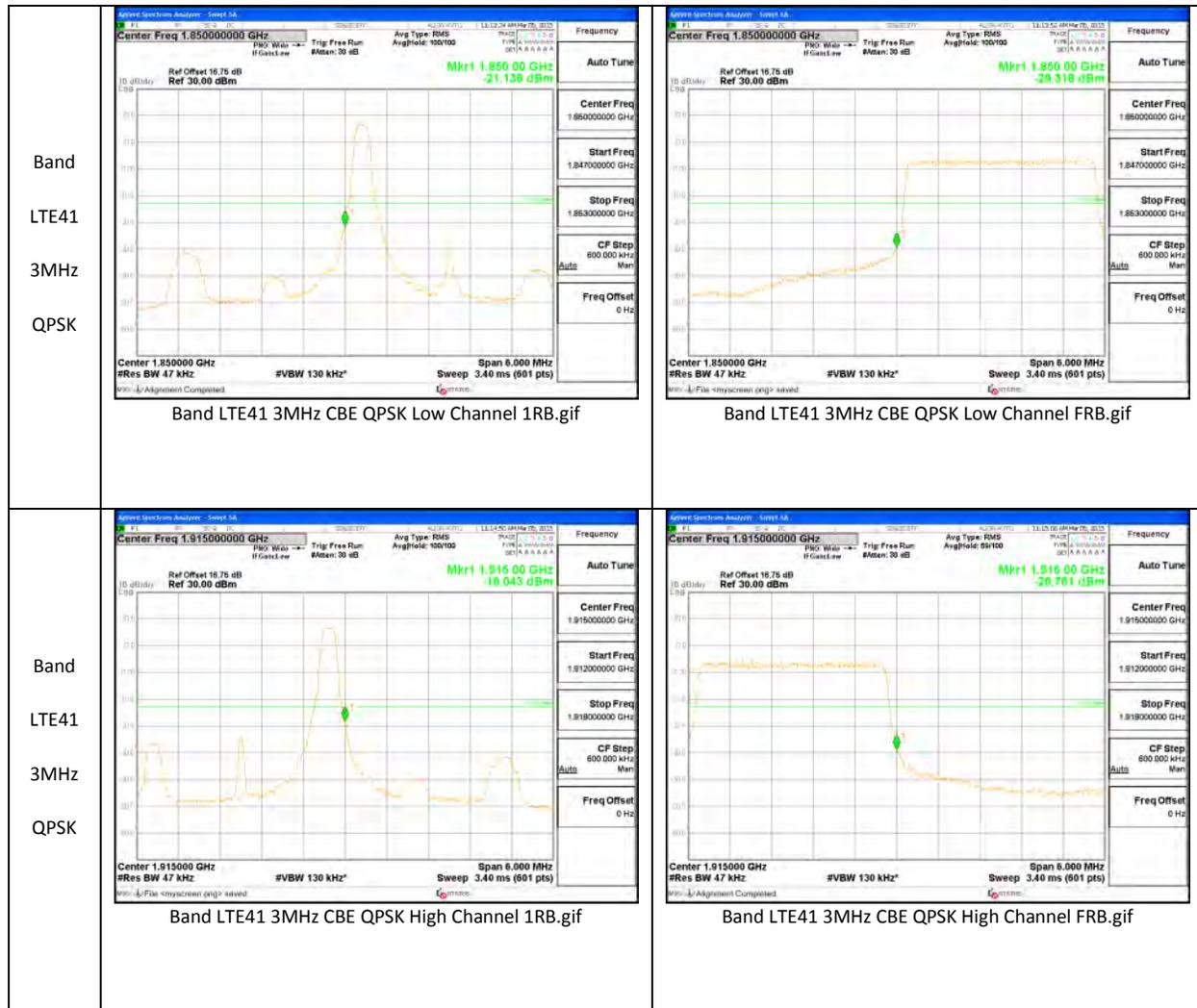


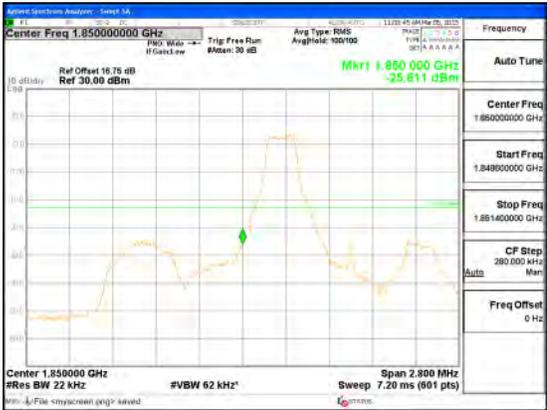
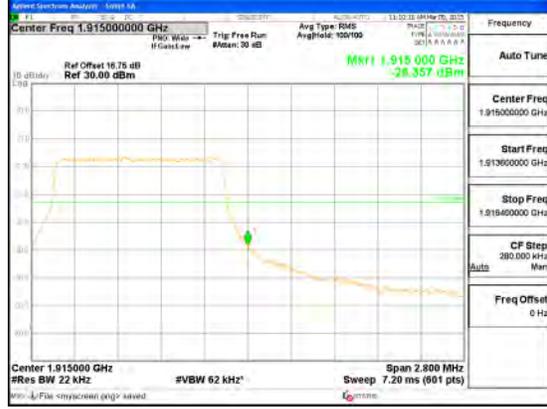


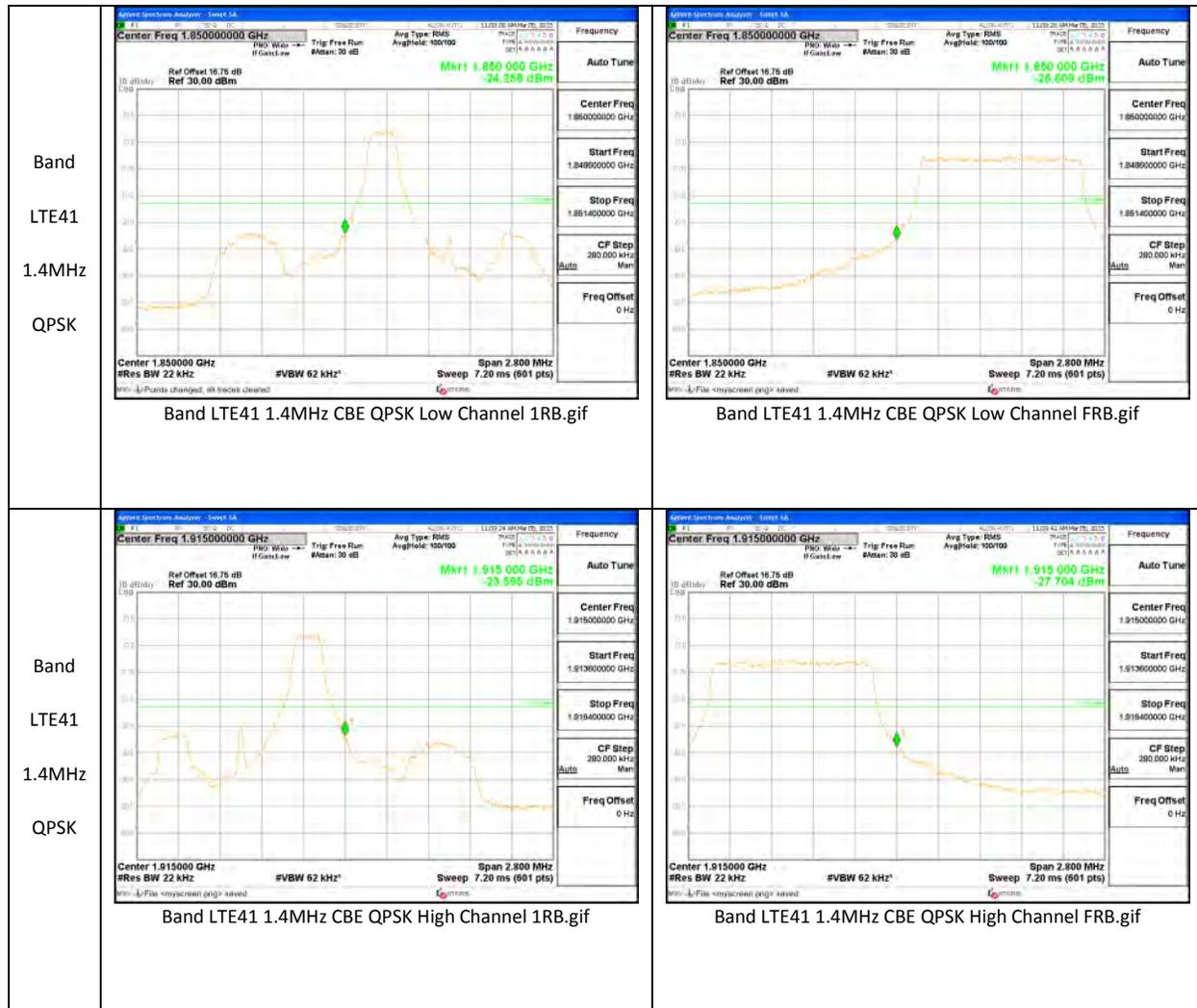




<p>Band LTE41 3MHz 16QAM</p>	 <p>Band LTE41 3MHz CBE 16QAM Low Channel 1RB.gif</p>	 <p>Band LTE41 3MHz CBE 16QAM Low Channel FRB.gif</p>
<p>Band LTE41 3MHz 16QAM</p>	 <p>Band LTE41 3MHz CBE 16QAM High Channel 1RB.gif</p>	 <p>Band LTE41 3MHz CBE 16QAM High Channel FRB.gif</p>



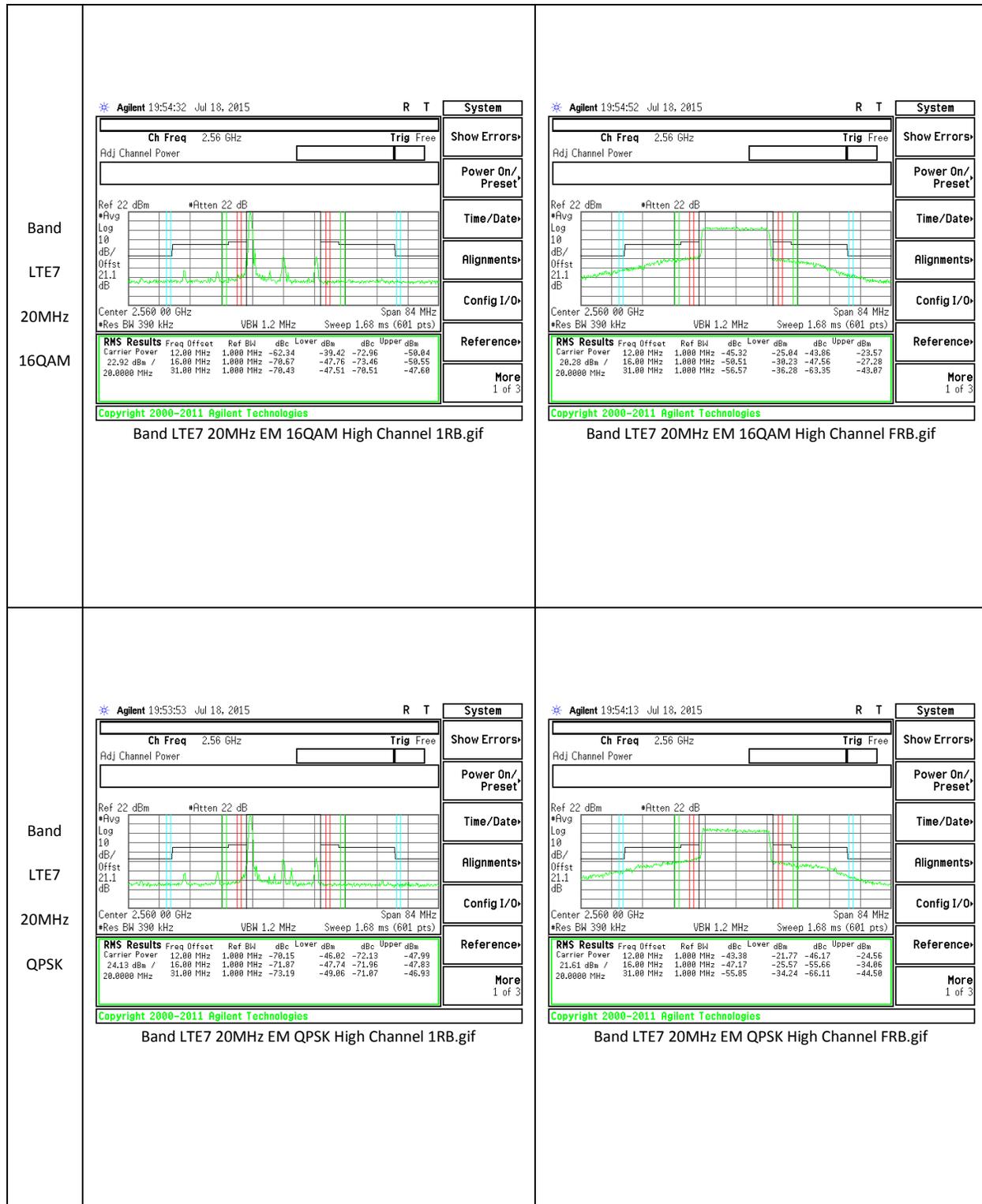
<p>Band LTE41 1.4MHz 16QAM</p>	 <p>Band LTE41 1.4MHz CBE 16QAM Low Channel 1RB.gif</p>	 <p>Band LTE41 1.4MHz CBE 16QAM Low Channel FRB.gif</p>
<p>Band LTE41 1.4MHz 16QAM</p>	 <p>Band LTE41 1.4MHz CBE 16QAM High Channel 1RB.gif</p>	 <p>Band LTE41 1.4MHz CBE 16QAM High Channel FRB.gif</p>



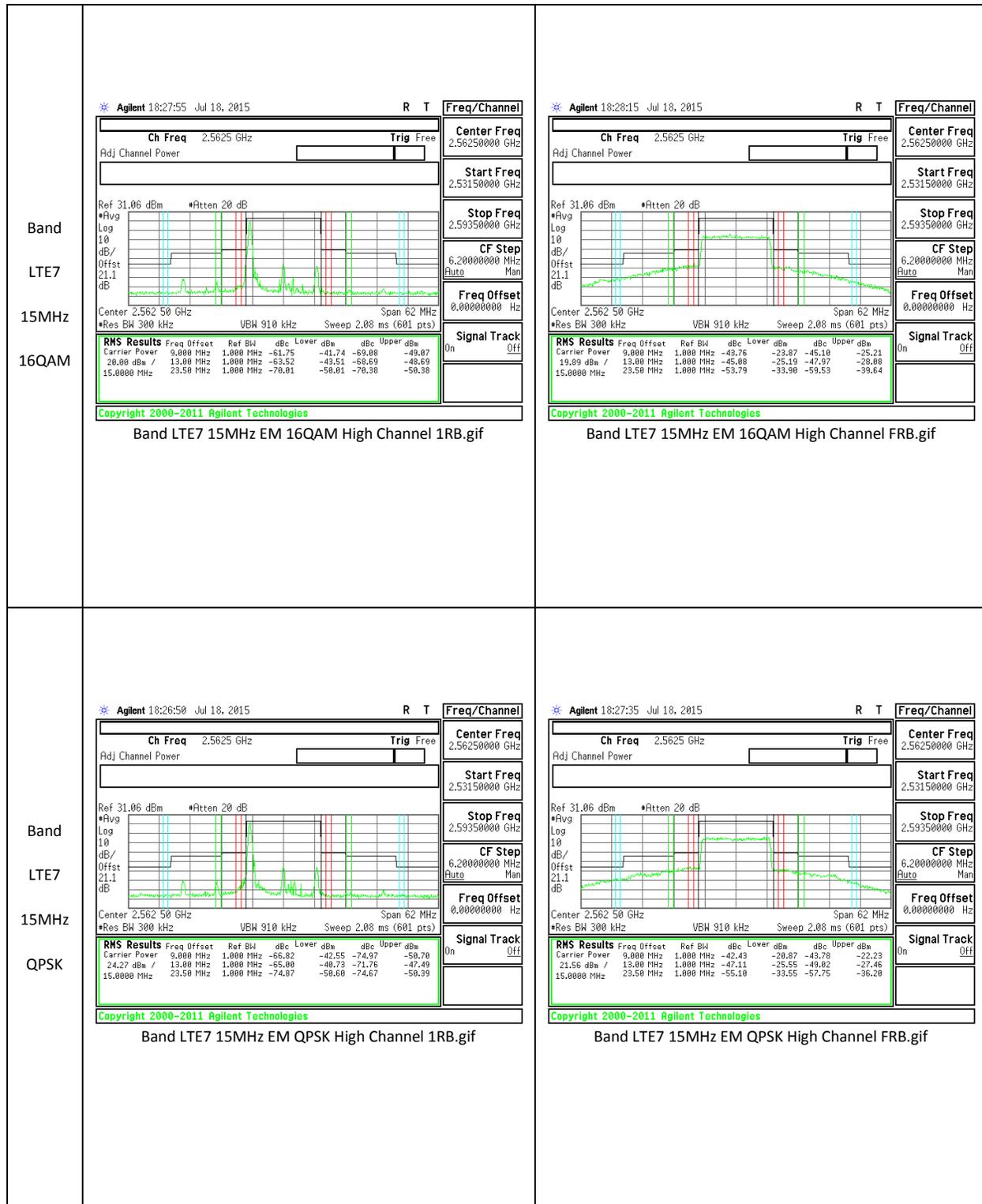
10.2.2. EMISSION MASK PLOTS

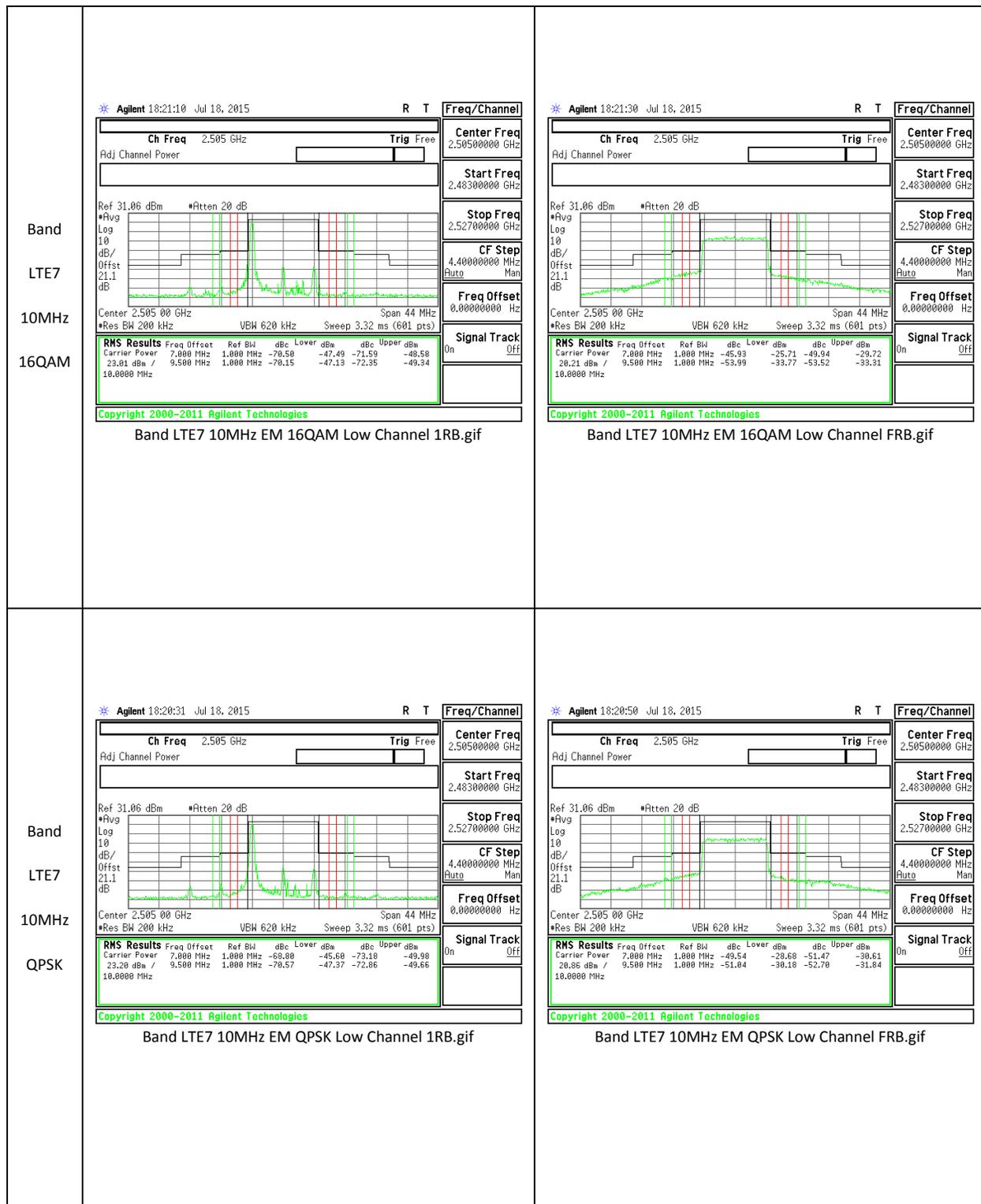
LTE Band 7

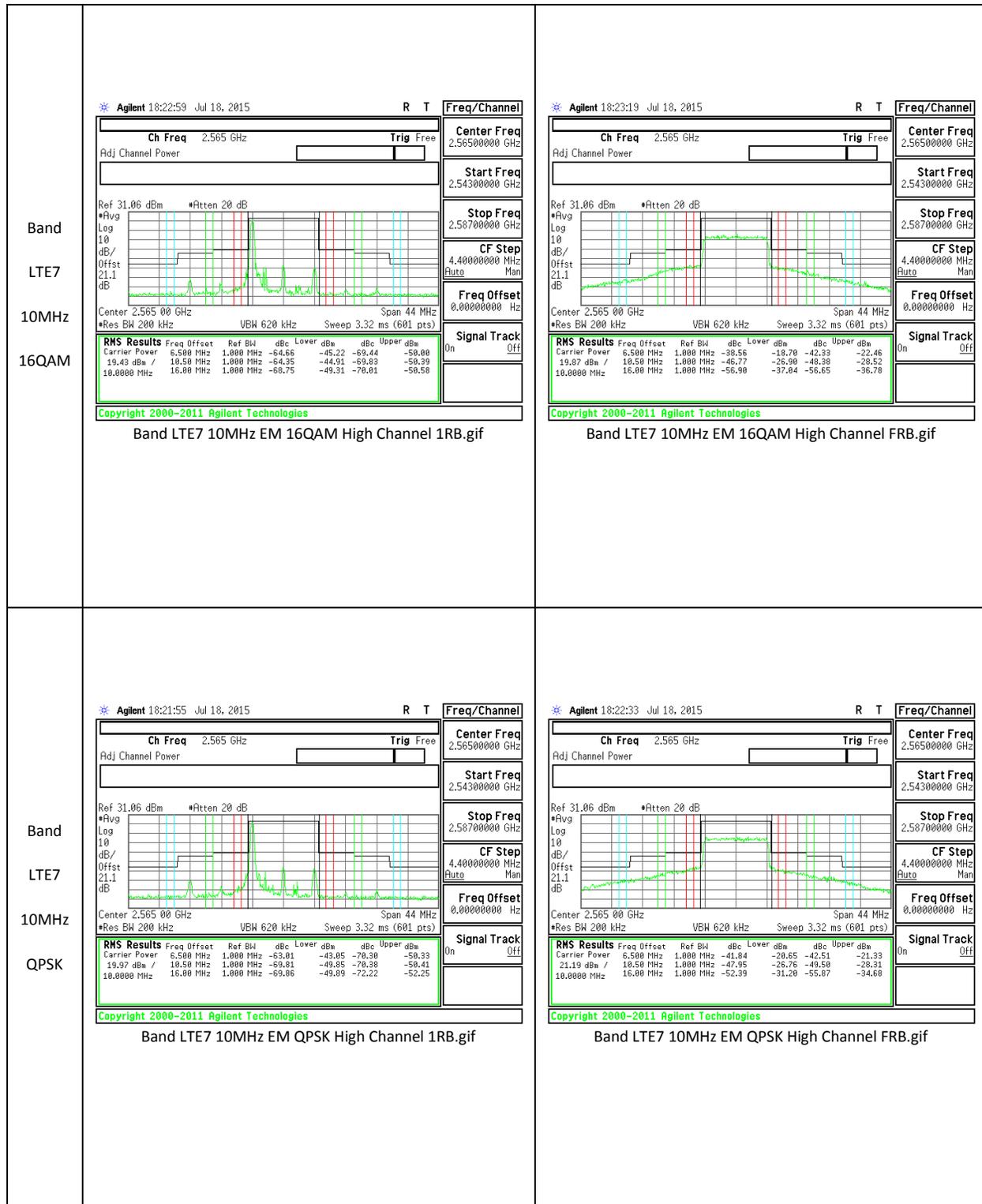
<p>Band LTE7 20MHz 16QAM</p>	<p>Agilent 19:53:08 Jul 18, 2015</p> <p>Ch Freq 2.51 GHz</p> <p>Ref 22 dBm #Avg Log 10 dB/Offst 21.1 dB</p> <p>Center 2.510 00 GHz Span 84 MHz #Res BW 390 kHz VBW 1.2 MHz Sweep 1.68 ms (601 pts)</p> <table border="1"> <thead> <tr> <th>RMS Results</th> <th>Freq</th> <th>Offset</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>Carrier Power</td> <td>12.00 MHz</td> <td>1.000 MHz</td> <td>-57.75</td> <td>-46.71</td> <td>-59.53</td> <td>-48.58</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>21.05 dBm /</td> <td>14.50 MHz</td> <td>1.000 MHz</td> <td>-68.74</td> <td>-47.69</td> <td>-68.18</td> <td>-47.13</td> <td></td> <td></td> </tr> <tr> <td></td> <td>20.0000 MHz</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>Copyright 2000-2011 Agilent Technologies</p> <p>Band LTE7 20MHz EM 16QAM Low Channel 1RB.gif</p>	RMS Results	Freq	Offset	Ref BW	dBc	Lower	dBm	dBc	Upper	dBm	Carrier Power	12.00 MHz	1.000 MHz	-57.75	-46.71	-59.53	-48.58					21.05 dBm /	14.50 MHz	1.000 MHz	-68.74	-47.69	-68.18	-47.13				20.0000 MHz									<p>Agilent 19:53:27 Jul 18, 2015</p> <p>Ch Freq 2.51 GHz</p> <p>Ref 22 dBm #Avg Log 10 dB/Offst 21.1 dB</p> <p>Center 2.510 00 GHz Span 84 MHz #Res BW 390 kHz VBW 1.2 MHz Sweep 1.68 ms (601 pts)</p> <table border="1"> <thead> <tr> <th>RMS Results</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>Carrier Power</td> <td>12.00 MHz</td> <td>1.000 MHz</td> <td>-46.83</td> <td>-26.63</td> <td>-50.27</td> <td>-38.07</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>20.20 dBm /</td> <td>14.50 MHz</td> <td>1.000 MHz</td> <td>-49.92</td> <td>-29.72</td> <td>-55.71</td> <td>-35.51</td> <td></td> <td></td> </tr> <tr> <td></td> <td>20.0000 MHz</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>Copyright 2000-2011 Agilent Technologies</p> <p>Band LTE7 20MHz EM 16QAM Low Channel FRB.gif</p>	RMS Results	Freq	Offset	Ref BW	dBc	Lower	dBm	dBc	Upper	dBm	Carrier Power	12.00 MHz	1.000 MHz	-46.83	-26.63	-50.27	-38.07					20.20 dBm /	14.50 MHz	1.000 MHz	-49.92	-29.72	-55.71	-35.51				20.0000 MHz								
RMS Results	Freq	Offset	Ref BW	dBc	Lower	dBm	dBc	Upper	dBm																																																																									
Carrier Power	12.00 MHz	1.000 MHz	-57.75	-46.71	-59.53	-48.58																																																																												
	21.05 dBm /	14.50 MHz	1.000 MHz	-68.74	-47.69	-68.18	-47.13																																																																											
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Carrier Power	12.00 MHz	1.000 MHz	-46.83	-26.63	-50.27	-38.07																																																																												
	20.20 dBm /	14.50 MHz	1.000 MHz	-49.92	-29.72	-55.71	-35.51																																																																											
	20.0000 MHz																																																																																	
<p>Band LTE7 20MHz QPSK</p>	<p>Agilent 19:52:28 Jul 18, 2015</p> <p>Ch Freq 2.51 GHz</p> <p>Ref 22 dBm #Avg Log 10 dB/Offst 21.1 dB</p> <p>Center 2.510 00 GHz Span 84 MHz #Res BW 390 kHz VBW 1.2 MHz Sweep 1.68 ms (601 pts)</p> <table border="1"> <thead> <tr> <th>RMS Results</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>Carrier Power</td> <td>12.00 MHz</td> <td>1.000 MHz</td> <td>-69.31</td> <td>-45.89</td> <td>-73.66</td> <td>-50.24</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>23.42 dBm /</td> <td>14.50 MHz</td> <td>1.000 MHz</td> <td>-72.00</td> <td>-49.46</td> <td>-78.55</td> <td>-47.13</td> <td></td> <td></td> </tr> <tr> <td></td> <td>20.0000 MHz</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>Copyright 2000-2011 Agilent Technologies</p> <p>Band LTE7 20MHz EM QPSK Low Channel 1RB.gif</p>	RMS Results	Freq	Offset	Ref BW	dBc	Lower	dBm	dBc	Upper	dBm	Carrier Power	12.00 MHz	1.000 MHz	-69.31	-45.89	-73.66	-50.24					23.42 dBm /	14.50 MHz	1.000 MHz	-72.00	-49.46	-78.55	-47.13				20.0000 MHz									<p>Agilent 19:52:48 Jul 18, 2015</p> <p>Ch Freq 2.51 GHz</p> <p>Ref 22 dBm #Avg Log 10 dB/Offst 21.1 dB</p> <p>Center 2.510 00 GHz Span 84 MHz #Res BW 390 kHz VBW 1.2 MHz Sweep 1.68 ms (601 pts)</p> <table border="1"> <thead> <tr> <th>RMS Results</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>Carrier Power</td> <td>12.00 MHz</td> <td>1.000 MHz</td> <td>-47.89</td> <td>-26.40</td> <td>-50.45</td> <td>-28.96</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>21.49 dBm /</td> <td>14.50 MHz</td> <td>1.000 MHz</td> <td>-51.73</td> <td>-30.24</td> <td>-52.05</td> <td>-30.56</td> <td></td> <td></td> </tr> <tr> <td></td> <td>20.0000 MHz</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>Copyright 2000-2011 Agilent Technologies</p> <p>Band LTE7 20MHz EM QPSK Low Channel FRB.gif</p>	RMS Results	Freq	Offset	Ref BW	dBc	Lower	dBm	dBc	Upper	dBm	Carrier Power	12.00 MHz	1.000 MHz	-47.89	-26.40	-50.45	-28.96					21.49 dBm /	14.50 MHz	1.000 MHz	-51.73	-30.24	-52.05	-30.56				20.0000 MHz								
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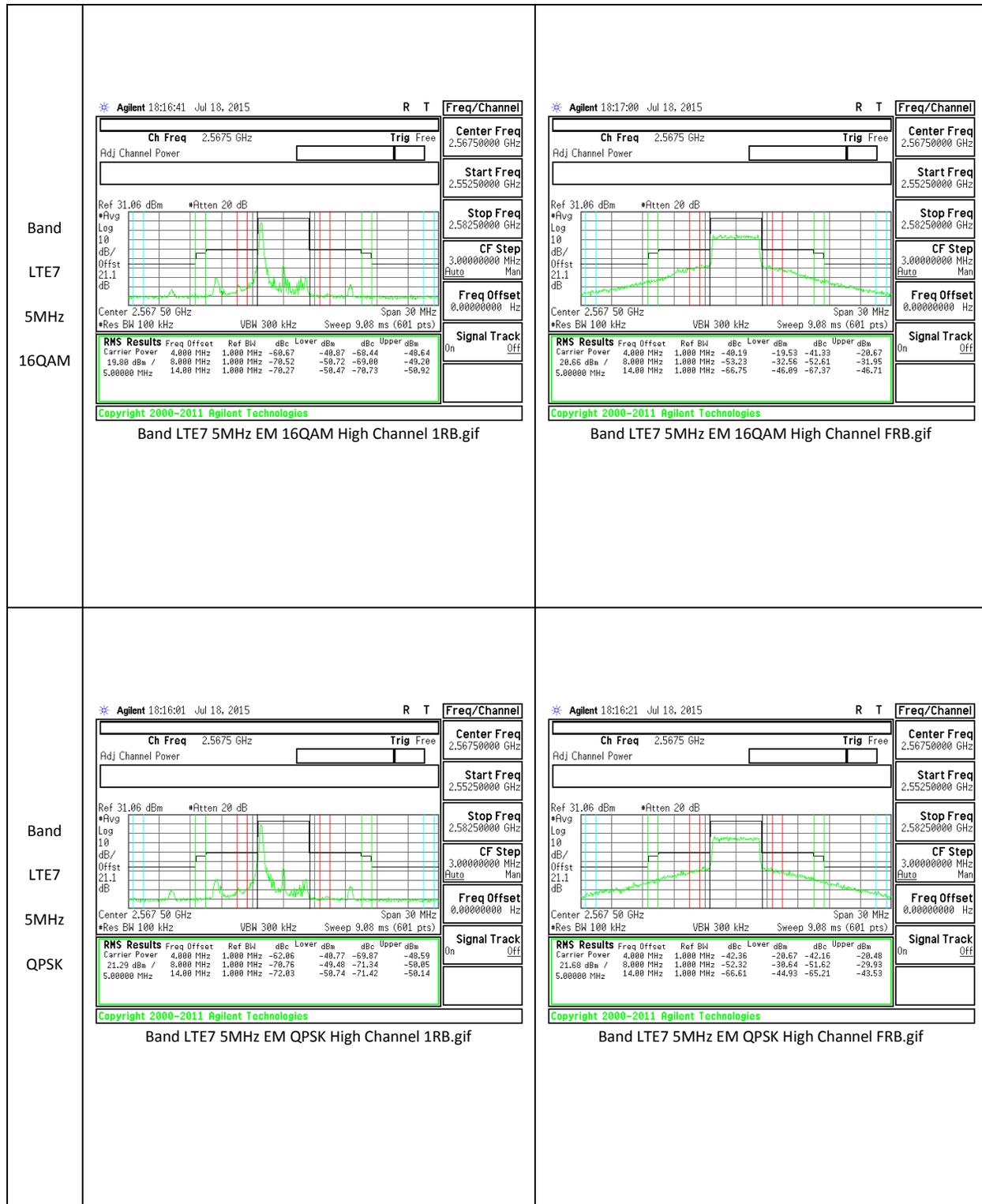
<p>Band LTE7 15MHz 16QAM</p>	<p>Agilent 18:26:04 Jul 18, 2015</p> <p>Ch Freq 2.5075 GHz Trig Free</p> <p>Center Freq 2.50750000 GHz</p> <p>Start Freq 2.47650000 GHz</p> <p>Stop Freq 2.53850000 GHz</p> <p>CF Step 6.20000000 MHz</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On</p> <p>RHS Results</p> <table border="1"> <thead> <tr> <th>Freq Offset</th> <th>Ref BW</th> <th>dBc</th> <th>Lower dBm</th> <th>dBc</th> <th>Upper dBm</th> </tr> </thead> <tbody> <tr> <td>Carrier Power</td> <td>9.000 MHz</td> <td>1.000 MHz</td> <td>-85.48</td> <td>-42.77</td> <td>-74.45</td> </tr> <tr> <td>22.71 dBm /</td> <td>13.00 MHz</td> <td>1.000 MHz</td> <td>-67.71</td> <td>-45.00</td> <td>-70.13</td> </tr> <tr> <td>15.0000 MHz</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>Copyright 2000-2011 Agilent Technologies</p> <p>Band LTE7 15MHz EM 16QAM Low Channel 1RB.gif</p>	Freq Offset	Ref BW	dBc	Lower dBm	dBc	Upper dBm	Carrier Power	9.000 MHz	1.000 MHz	-85.48	-42.77	-74.45	22.71 dBm /	13.00 MHz	1.000 MHz	-67.71	-45.00	-70.13	15.0000 MHz						<p>Agilent 18:26:23 Jul 18, 2015</p> <p>Ch Freq 2.5075 GHz Trig Free</p> <p>Center Freq 2.50750000 GHz</p> <p>Start Freq 2.47650000 GHz</p> <p>Stop Freq 2.53850000 GHz</p> <p>CF Step 6.20000000 MHz</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On</p> <p>RHS Results</p> <table border="1"> <thead> <tr> <th>Freq Offset</th> <th>Ref BW</th> <th>dBc</th> <th>Lower dBm</th> <th>dBc</th> <th>Upper dBm</th> </tr> </thead> <tbody> <tr> <td>Carrier Power</td> <td>9.000 MHz</td> <td>1.000 MHz</td> <td>-47.98</td> <td>-27.76</td> <td>-51.27</td> </tr> <tr> <td>20.22 dBm /</td> <td>13.00 MHz</td> <td>1.000 MHz</td> <td>-51.79</td> <td>-31.57</td> <td>-52.04</td> </tr> <tr> <td>15.0000 MHz</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>Copyright 2000-2011 Agilent Technologies</p> <p>Band LTE7 15MHz EM 16QAM Low Channel FRB.gif</p>	Freq Offset	Ref BW	dBc	Lower dBm	dBc	Upper dBm	Carrier Power	9.000 MHz	1.000 MHz	-47.98	-27.76	-51.27	20.22 dBm /	13.00 MHz	1.000 MHz	-51.79	-31.57	-52.04	15.0000 MHz					
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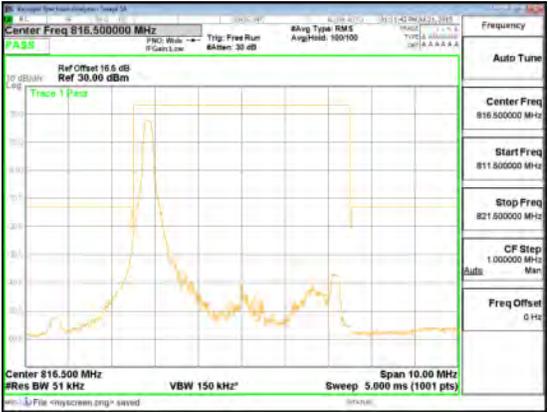
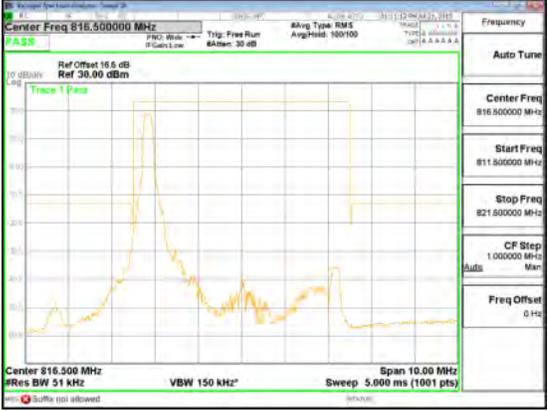
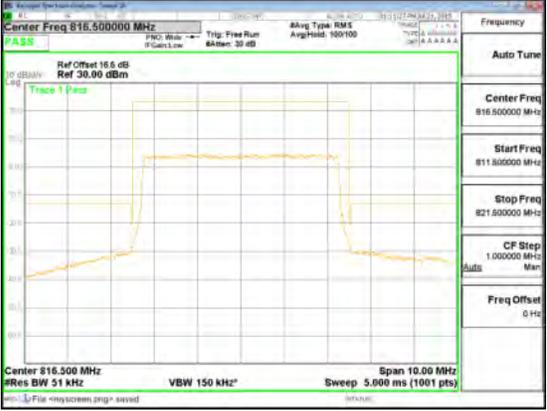


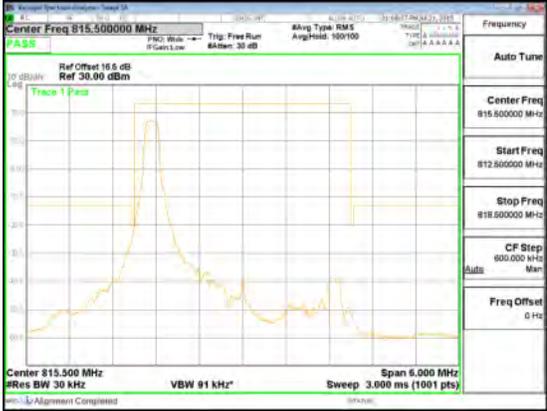
<p>Band LTE7 5MHz 16QAM</p>	<p>Agilent 18:15:16 Jul 18, 2015</p> <p>Ch Freq 2.5025 GHz Trig Free</p> <p>Center Freq 2.50250000 GHz</p> <p>Start Freq 2.48750000 GHz</p> <p>Stop Freq 2.51750000 GHz</p> <p>CF Step 3.00000000 MHz Man</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>RFS Results</p> <table border="1"> <thead> <tr> <th>Freq Offset</th> <th>Ref BW</th> <th>dBc</th> <th>Lower dBm</th> <th>dBc</th> <th>Upper dBm</th> </tr> </thead> <tbody> <tr> <td>Carrier Power</td> <td>4.000 MHz</td> <td>1.000 MHz</td> <td>-62.31</td> <td>-41.93</td> <td>-69.22</td> </tr> <tr> <td></td> <td>7.000 MHz</td> <td>1.000 MHz</td> <td>-60.22</td> <td>-39.85</td> <td>-70.22</td> </tr> <tr> <td></td> <td>5.00000 MHz</td> <td></td> <td></td> <td></td> <td>-49.85</td> </tr> </tbody> </table> <p>Copyright 2000-2011 Agilent Technologies</p> <p>Band LTE7 5MHz EM 16QAM Low Channel 1RB.gif</p>	Freq Offset	Ref BW	dBc	Lower dBm	dBc	Upper dBm	Carrier Power	4.000 MHz	1.000 MHz	-62.31	-41.93	-69.22		7.000 MHz	1.000 MHz	-60.22	-39.85	-70.22		5.00000 MHz				-49.85	<p>Agilent 18:15:36 Jul 18, 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 Man</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>RFS Results</p> <table border="1"> <thead> <tr> <th>Freq Offset</th> <th>Ref BW</th> <th>dBc</th> <th>Lower dBm</th> <th>dBc</th> <th>Upper dBm</th> </tr> </thead> <tbody> <tr> <td>Carrier Power</td> <td>4.000 MHz</td> <td>1.000 MHz</td> <td>-44.06</td> <td>-24.10</td> <td>-46.35</td> </tr> <tr> <td></td> <td>7.000 MHz</td> <td>1.000 MHz</td> <td>-56.42</td> <td>-36.46</td> <td>-54.73</td> </tr> <tr> <td></td> <td>5.00000 MHz</td> <td></td> <td></td> <td></td> <td>-34.77</td> </tr> </tbody> </table> <p>Copyright 2000-2011 Agilent Technologies</p> <p>Band LTE7 5MHz EM 16QAM Low Channel FRB.gif</p>	Freq Offset	Ref BW	dBc	Lower dBm	dBc	Upper dBm	Carrier Power	4.000 MHz	1.000 MHz	-44.06	-24.10	-46.35		7.000 MHz	1.000 MHz	-56.42	-36.46	-54.73		5.00000 MHz				-34.77
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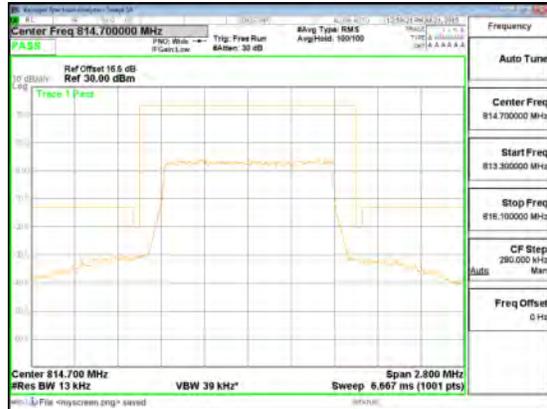
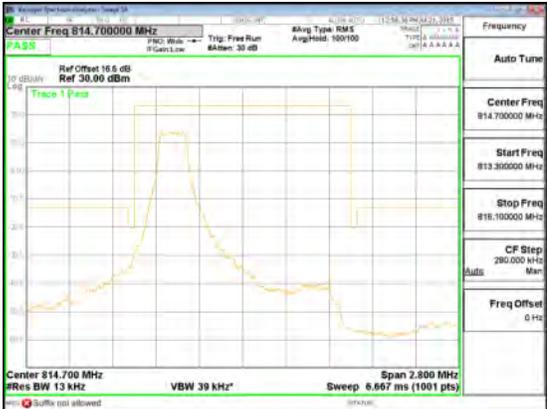
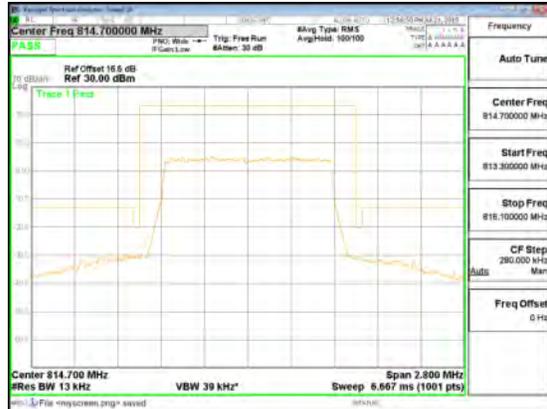


LTE Band 26

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

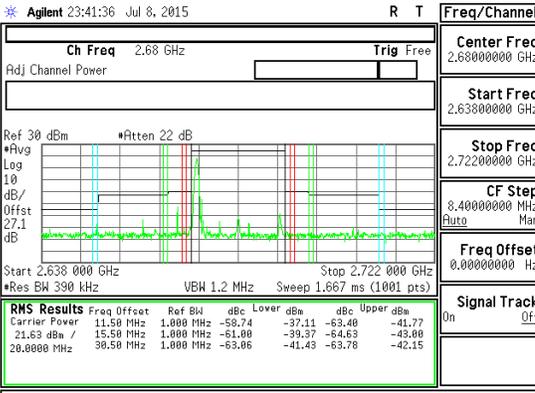
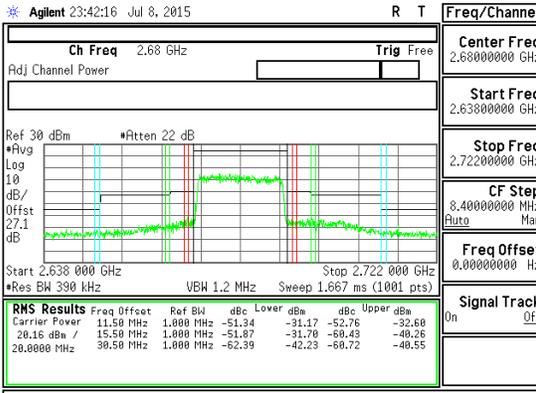
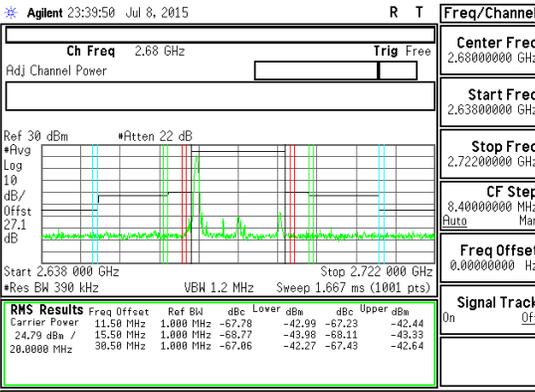
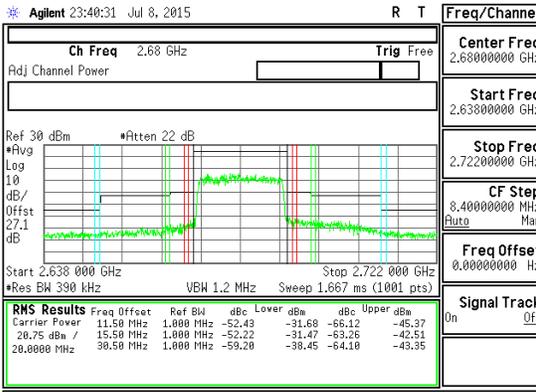
<p>Band LTE26 5MHz 16QAM</p>	 <p>Band LTE26 5MHz EM 16QAM Low Channel 1RB.gif</p>	 <p>Band LTE26 5MHz EM 16QAM Low Channel FRB.gif</p>
<p>Band LTE26 5MHz QPSK</p>	 <p>Band LTE26 5MHz EM QPSK Low Channel 1RB.gif</p>	 <p>Band LTE26 5MHz EM QPSK Low Channel FRB.gif</p>

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

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

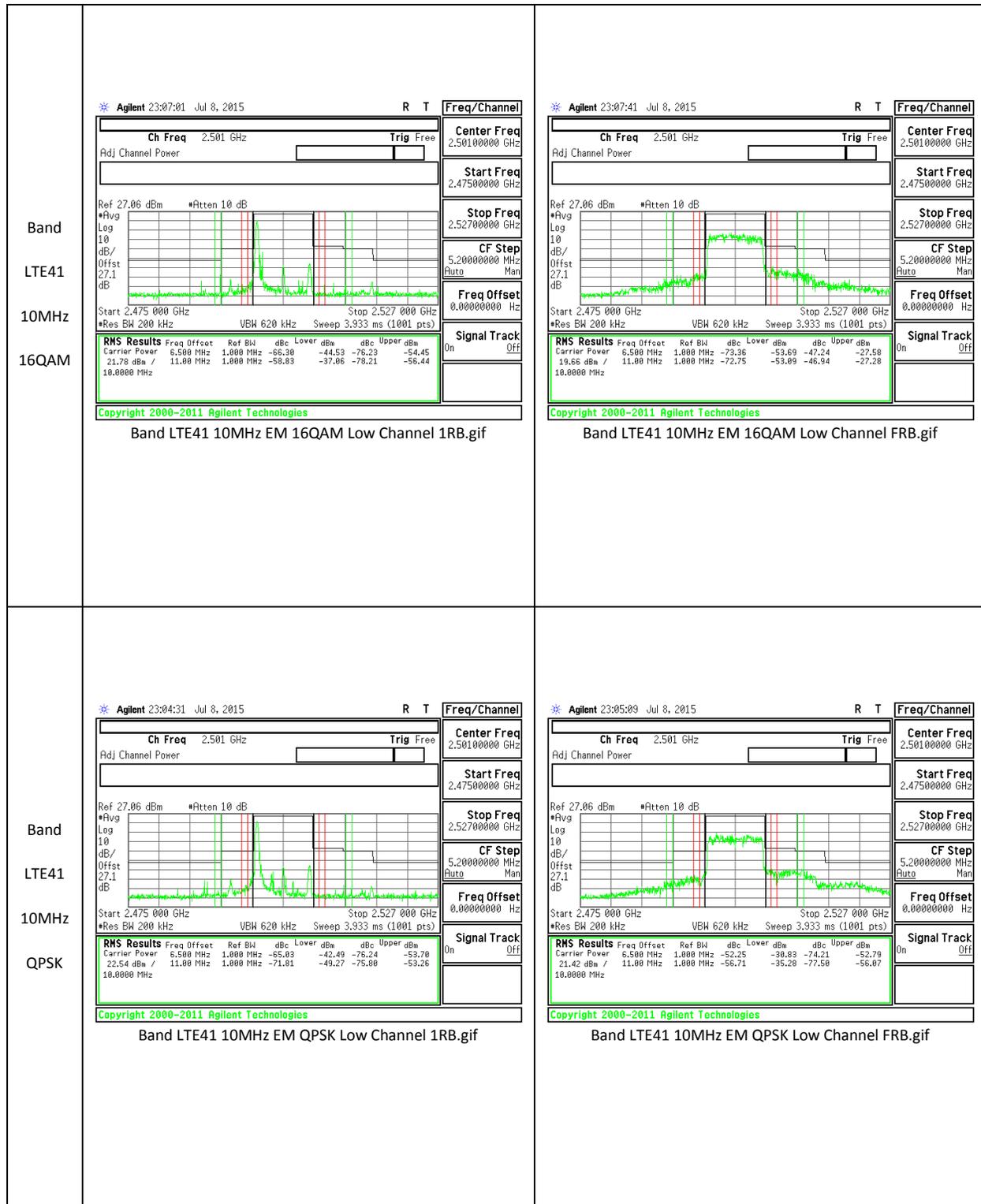
LTE Band 41

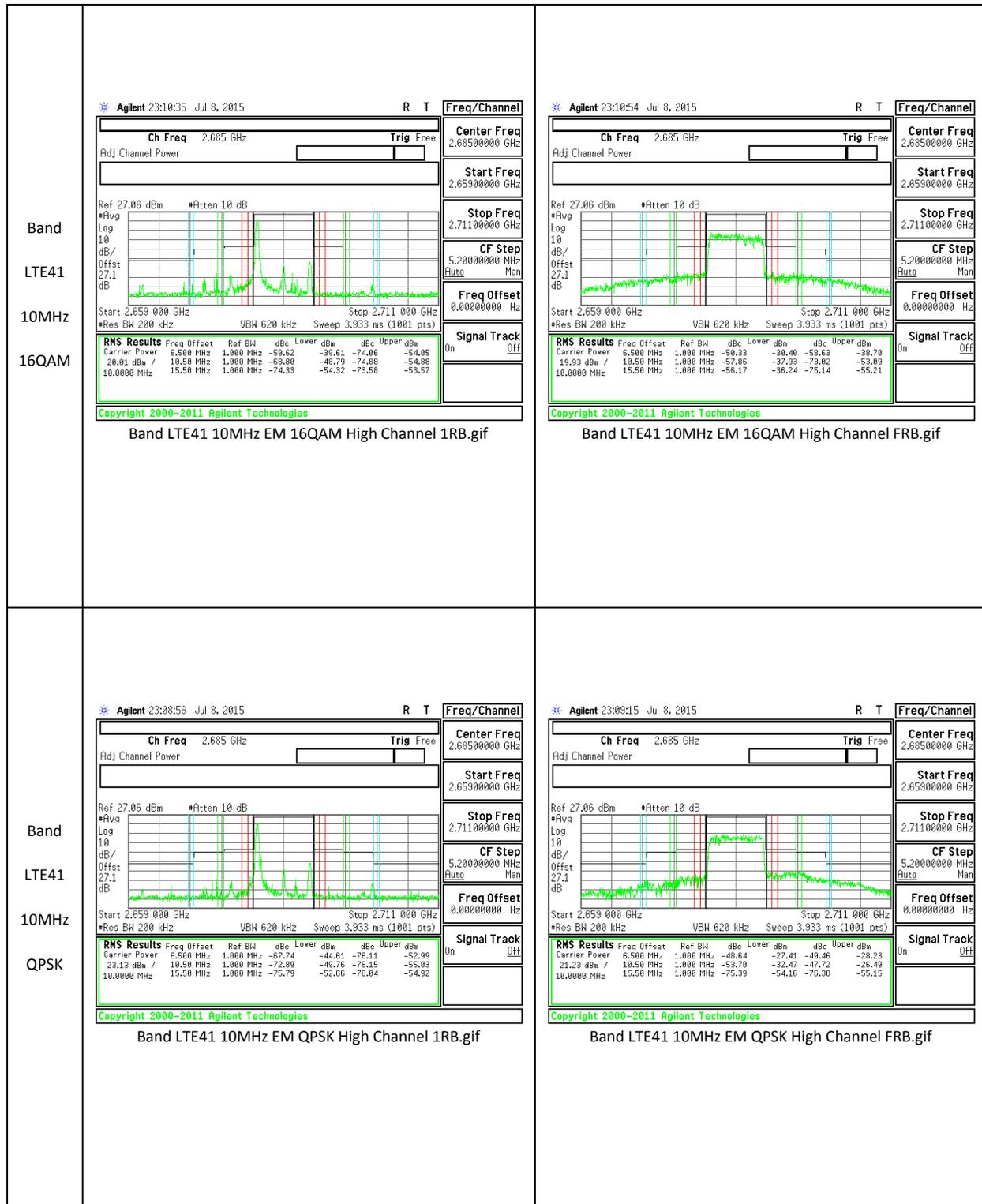
<p>Band LTE41 20MHz 16QAM</p>	<p>Agilent 23:37:51 Jul 8, 2015 R T Freq/Channel</p> <p>Ch Freq 2.506 GHz Trig Free Center Freq 2.50600000 GHz</p> <p>Adj Channel Power Start Freq 2.46400000 GHz</p> <p>Stop Freq 2.54800000 GHz</p> <p>CF Step 8.40000000 MHz Auto Man</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>RMS Results</p> <table border="1"> <thead> <tr> <th>Carrier Power</th> <th>12.00 MHz</th> <th>1.000 MHz</th> <th>-64.43</th> <th>-41.63</th> <th>-66.79</th> <th>-43.98</th> </tr> </thead> <tbody> <tr> <td>22.81 dBm / 16.00 MHz</td> <td>1.000 MHz</td> <td>-64.63</td> <td>-41.82</td> <td>-63.22</td> <td>-40.41</td> <td></td> </tr> </tbody> </table> <p>Copyright 2000-2011 Agilent Technologies</p> <p>Band LTE41 20MHz EM 16QAM Low Channel 1RB.gif</p>	Carrier Power	12.00 MHz	1.000 MHz	-64.43	-41.63	-66.79	-43.98	22.81 dBm / 16.00 MHz	1.000 MHz	-64.63	-41.82	-63.22	-40.41		<p>Agilent 23:38:31 Jul 8, 2015 R T Freq/Channel</p> <p>Ch Freq 2.506 GHz Trig Free Center Freq 2.50600000 GHz</p> <p>Adj Channel Power Start Freq 2.46400000 GHz</p> <p>Stop Freq 2.54800000 GHz</p> <p>CF Step 8.40000000 MHz Auto Man</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>RMS Results</p> <table border="1"> <thead> <tr> <th>Carrier Power</th> <th>12.00 MHz</th> <th>1.000 MHz</th> <th>-46.82</th> <th>-26.40</th> <th>-61.31</th> <th>-40.90</th> </tr> </thead> <tbody> <tr> <td>20.41 dBm / 16.00 MHz</td> <td>1.000 MHz</td> <td>-53.04</td> <td>-32.63</td> <td>-63.45</td> <td>-43.04</td> <td></td> </tr> </tbody> </table> <p>Copyright 2000-2011 Agilent Technologies</p> <p>Band LTE41 20MHz EM 16QAM Low Channel FRB.gif</p>	Carrier Power	12.00 MHz	1.000 MHz	-46.82	-26.40	-61.31	-40.90	20.41 dBm / 16.00 MHz	1.000 MHz	-53.04	-32.63	-63.45	-43.04	
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<p>Band LTE41 20MHz QPSK</p>	<p>Agilent 23:34:09 Jul 8, 2015 R T Freq/Channel</p> <p>Ch Freq 2.506 GHz Trig Free Center Freq 2.50600000 GHz</p> <p>Adj Channel Power Start Freq 2.46400000 GHz</p> <p>Stop Freq 2.54800000 GHz</p> <p>CF Step 8.40000000 MHz Auto Man</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>RMS Results</p> <table border="1"> <thead> <tr> <th>Carrier Power</th> <th>12.00 MHz</th> <th>1.000 MHz</th> <th>-63.78</th> <th>-42.11</th> <th>-65.84</th> <th>-43.45</th> </tr> </thead> <tbody> <tr> <td>21.59 dBm / 16.00 MHz</td> <td>1.000 MHz</td> <td>-64.05</td> <td>-42.46</td> <td>-66.79</td> <td>-45.20</td> <td></td> </tr> </tbody> </table> <p>Copyright 2000-2011 Agilent Technologies</p> <p>Band LTE41 20MHz EM QPSK Low Channel 1RB.gif</p>	Carrier Power	12.00 MHz	1.000 MHz	-63.78	-42.11	-65.84	-43.45	21.59 dBm / 16.00 MHz	1.000 MHz	-64.05	-42.46	-66.79	-45.20		<p>Agilent 23:35:12 Jul 8, 2015 R T Freq/Channel</p> <p>Ch Freq 2.506 GHz Trig Free Center Freq 2.50600000 GHz</p> <p>Adj Channel Power Start Freq 2.46400000 GHz</p> <p>Stop Freq 2.54800000 GHz</p> <p>CF Step 8.40000000 MHz Auto Man</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>RMS Results</p> <table border="1"> <thead> <tr> <th>Carrier Power</th> <th>12.00 MHz</th> <th>1.000 MHz</th> <th>-46.51</th> <th>-25.09</th> <th>-47.66</th> <th>-26.34</th> </tr> </thead> <tbody> <tr> <td>21.42 dBm / 16.00 MHz</td> <td>1.000 MHz</td> <td>-59.20</td> <td>-28.78</td> <td>-51.76</td> <td>-38.34</td> <td></td> </tr> </tbody> </table> <p>Copyright 2000-2011 Agilent Technologies</p> <p>Band LTE41 20MHz EM QPSK Low Channel FRB.gif</p>	Carrier Power	12.00 MHz	1.000 MHz	-46.51	-25.09	-47.66	-26.34	21.42 dBm / 16.00 MHz	1.000 MHz	-59.20	-28.78	-51.76	-38.34	
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<p>Band LTE41 20MHz 16QAM</p>	 <p>Agilent 23:41:36 Jul 8, 2015</p> <p>Ch Freq 2.68 GHz Trig Free</p> <p>Center Freq 2.68000000 GHz</p> <p>Start Freq 2.63800000 GHz</p> <p>Stop Freq 2.72200000 GHz</p> <p>CF Step 8.40000000 MHz</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On</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> </tr> </thead> <tbody> <tr> <td>Carrier Power</td> <td>11.50 MHz</td> <td>1.000 MHz</td> <td>-58.74</td> <td>-37.11</td> <td>-63.40</td> <td>-41.77</td> </tr> <tr> <td>21.63 dBm /</td> <td>15.50 MHz</td> <td>1.000 MHz</td> <td>-61.00</td> <td>-39.37</td> <td>-64.63</td> <td>-43.00</td> </tr> <tr> <td>20.0000 MHz</td> <td>30.50 MHz</td> <td>1.000 MHz</td> <td>-63.06</td> <td>-41.43</td> <td>-63.78</td> <td>-42.15</td> </tr> </tbody> </table> <p>Copyright 2000-2011 Agilent Technologies</p> <p>Band LTE41 20MHz EM 16QAM High Channel 1RB.gif</p>	Freq	Offset	Ref BW	dBc	Lower	dBc	Upper	Carrier Power	11.50 MHz	1.000 MHz	-58.74	-37.11	-63.40	-41.77	21.63 dBm /	15.50 MHz	1.000 MHz	-61.00	-39.37	-64.63	-43.00	20.0000 MHz	30.50 MHz	1.000 MHz	-63.06	-41.43	-63.78	-42.15	 <p>Agilent 23:42:16 Jul 8, 2015</p> <p>Ch Freq 2.68 GHz Trig Free</p> <p>Center Freq 2.68000000 GHz</p> <p>Start Freq 2.63800000 GHz</p> <p>Stop Freq 2.72200000 GHz</p> <p>CF Step 8.40000000 MHz</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On</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> </tr> </thead> <tbody> <tr> <td>Carrier Power</td> <td>11.50 MHz</td> <td>1.000 MHz</td> <td>-51.34</td> <td>-31.17</td> <td>-52.76</td> <td>-32.60</td> </tr> <tr> <td>20.16 dBm /</td> <td>15.50 MHz</td> <td>1.000 MHz</td> <td>-51.87</td> <td>-31.70</td> <td>-60.43</td> <td>-40.26</td> </tr> <tr> <td>20.0000 MHz</td> <td>30.50 MHz</td> <td>1.000 MHz</td> <td>-62.39</td> <td>-42.23</td> <td>-60.72</td> <td>-40.55</td> </tr> </tbody> </table> <p>Copyright 2000-2011 Agilent Technologies</p> <p>Band LTE41 20MHz EM 16QAM High Channel FRB.gif</p>	Freq	Offset	Ref BW	dBc	Lower	dBc	Upper	Carrier Power	11.50 MHz	1.000 MHz	-51.34	-31.17	-52.76	-32.60	20.16 dBm /	15.50 MHz	1.000 MHz	-51.87	-31.70	-60.43	-40.26	20.0000 MHz	30.50 MHz	1.000 MHz	-62.39	-42.23	-60.72	-40.55
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<p>Band LTE41 20MHz QPSK</p>	 <p>Agilent 23:39:50 Jul 8, 2015</p> <p>Ch Freq 2.68 GHz Trig Free</p> <p>Center Freq 2.68000000 GHz</p> <p>Start Freq 2.63800000 GHz</p> <p>Stop Freq 2.72200000 GHz</p> <p>CF Step 8.40000000 MHz</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On</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> </tr> </thead> <tbody> <tr> <td>Carrier Power</td> <td>11.50 MHz</td> <td>1.000 MHz</td> <td>-67.78</td> <td>-42.99</td> <td>-67.23</td> <td>-42.44</td> </tr> <tr> <td>24.79 dBm /</td> <td>15.50 MHz</td> <td>1.000 MHz</td> <td>-68.77</td> <td>-43.98</td> <td>-68.11</td> <td>-43.33</td> </tr> <tr> <td>20.0000 MHz</td> <td>30.50 MHz</td> <td>1.000 MHz</td> <td>-67.06</td> <td>-42.27</td> <td>-67.43</td> <td>-42.64</td> </tr> </tbody> </table> <p>Copyright 2000-2011 Agilent Technologies</p> <p>Band LTE41 20MHz EM QPSK High Channel 1RB.gif</p>	Freq	Offset	Ref BW	dBc	Lower	dBc	Upper	Carrier Power	11.50 MHz	1.000 MHz	-67.78	-42.99	-67.23	-42.44	24.79 dBm /	15.50 MHz	1.000 MHz	-68.77	-43.98	-68.11	-43.33	20.0000 MHz	30.50 MHz	1.000 MHz	-67.06	-42.27	-67.43	-42.64	 <p>Agilent 23:40:31 Jul 8, 2015</p> <p>Ch Freq 2.68 GHz Trig Free</p> <p>Center Freq 2.68000000 GHz</p> <p>Start Freq 2.63800000 GHz</p> <p>Stop Freq 2.72200000 GHz</p> <p>CF Step 8.40000000 MHz</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On</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> </tr> </thead> <tbody> <tr> <td>Carrier Power</td> <td>11.50 MHz</td> <td>1.000 MHz</td> <td>-52.43</td> <td>-31.68</td> <td>-66.12</td> <td>-45.37</td> </tr> <tr> <td>20.75 dBm /</td> <td>15.50 MHz</td> <td>1.000 MHz</td> <td>-52.22</td> <td>-31.47</td> <td>-63.26</td> <td>-42.51</td> </tr> <tr> <td>20.0000 MHz</td> <td>30.50 MHz</td> <td>1.000 MHz</td> <td>-59.20</td> <td>-38.45</td> <td>-64.10</td> <td>-43.35</td> </tr> </tbody> </table> <p>Copyright 2000-2011 Agilent Technologies</p> <p>Band LTE41 20MHz EM QPSK High Channel FRB.gif</p>	Freq	Offset	Ref BW	dBc	Lower	dBc	Upper	Carrier Power	11.50 MHz	1.000 MHz	-52.43	-31.68	-66.12	-45.37	20.75 dBm /	15.50 MHz	1.000 MHz	-52.22	-31.47	-63.26	-42.51	20.0000 MHz	30.50 MHz	1.000 MHz	-59.20	-38.45	-64.10	-43.35
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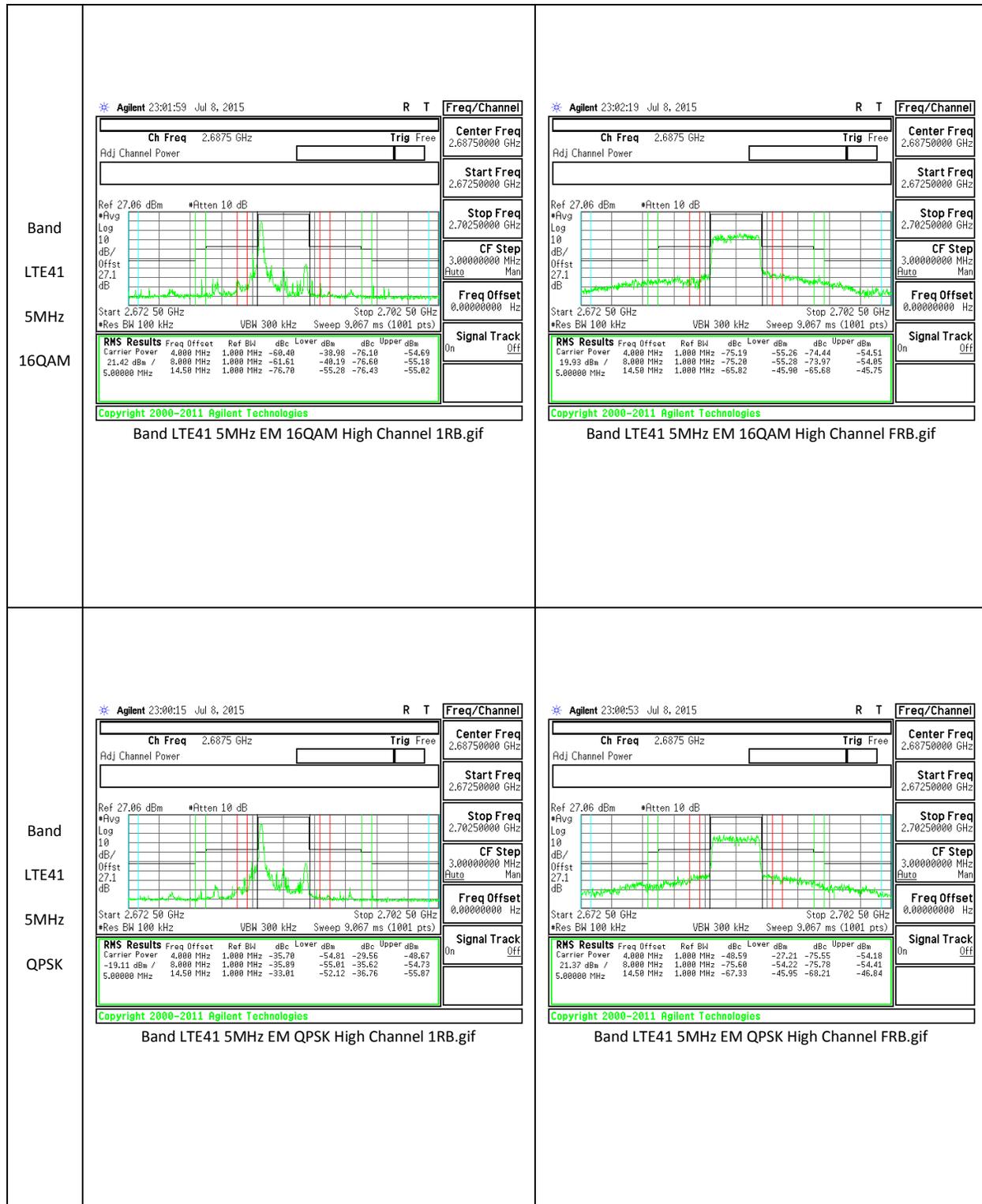
<p>Band LTE41 15MHz 16QAM</p>	<p>Agilent 23:27:19 Jul 8, 2015</p> <p>Ch Freq 2.5355 GHz Trig Free</p> <p>Center Freq 2.53550000 GHz</p> <p>Start Freq 2.50450000 GHz</p> <p>Stop Freq 2.56650000 GHz</p> <p>CF Step 6.20000000 MHz Auto Man</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <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> </tr> </thead> <tbody> <tr> <td>Carrier Power</td> <td>13.58 MHz</td> <td>1.000 MHz</td> <td>-67.89</td> <td>-44.12</td> <td>-65.28</td> <td>-41.50</td> </tr> <tr> <td></td> <td>23.77 dBm / 20.96 MHz</td> <td>1.000 MHz</td> <td>-65.90</td> <td>-42.13</td> <td>-66.70</td> <td>-42.93</td> </tr> </tbody> </table> <p>Copyright 2000-2011 Agilent Technologies</p> <p>Band LTE41 15MHz EM 16QAM Low Channel 1RB.gif</p>	Freq	Offset	Ref BW	dBc	Lower	dBc	Upper	Carrier Power	13.58 MHz	1.000 MHz	-67.89	-44.12	-65.28	-41.50		23.77 dBm / 20.96 MHz	1.000 MHz	-65.90	-42.13	-66.70	-42.93	<p>Agilent 23:27:47 Jul 8, 2015</p> <p>Ch Freq 2.5355 GHz Trig Free</p> <p>Center Freq 2.53550000 GHz</p> <p>Start Freq 2.50450000 GHz</p> <p>Stop Freq 2.56650000 GHz</p> <p>CF Step 6.20000000 MHz Auto Man</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> </tr> </thead> <tbody> <tr> <td>Carrier Power</td> <td>9.000 MHz</td> <td>1.000 MHz</td> <td>-48.24</td> <td>-26.68</td> <td>-48.14</td> <td>-26.58</td> </tr> <tr> <td></td> <td>21.56 dBm / 13.50 MHz</td> <td>1.000 MHz</td> <td>-53.80</td> <td>-32.24</td> <td>-48.03</td> <td>-26.47</td> </tr> </tbody> </table> <p>Copyright 2000-2011 Agilent Technologies</p> <p>Band LTE41 15MHz EM 16QAM Low Channel FRB.gif</p>	Freq	Offset	Ref BW	dBc	Lower	dBc	Upper	Carrier Power	9.000 MHz	1.000 MHz	-48.24	-26.68	-48.14	-26.58		21.56 dBm / 13.50 MHz	1.000 MHz	-53.80	-32.24	-48.03	-26.47
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Carrier Power	9.000 MHz	1.000 MHz	-46.38	-23.87	-52.43	-29.93																																						
	22.50 dBm / 13.50 MHz	1.000 MHz	-52.67	-30.16	-50.72	-28.22																																						

<p>Band LTE41 15MHz 16QAM</p>	<p>Agilent 23:31:02 Jul 8, 2015</p> <p>Ch Freq 2.6825 GHz Trig Free</p> <p>Center Freq 2.68250000 GHz</p> <p>Start Freq 2.65150000 GHz</p> <p>Stop Freq 2.71350000 GHz</p> <p>CF Step 6.20000000 MHz</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On</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 dBc</th> <th>Upper dBc</th> </tr> </thead> <tbody> <tr> <td>20.79 dBm</td> <td>20.34 MHz</td> <td>1.000 MHz</td> <td>-62.81</td> <td>-42.01</td> <td>-63.76</td> </tr> <tr> <td>15.0000 MHz</td> <td>23.00 MHz</td> <td>1.000 MHz</td> <td>-61.50</td> <td>-40.71</td> <td>-64.44</td> </tr> </tbody> </table> <p>Copyright 2000-2011 Agilent Technologies</p> <p>Band LTE41 15MHz EM 16QAM High Channel 1RB.gif</p>	Carrier Power	Freq Offset	Ref BW	dBc	Lower dBc	Upper dBc	20.79 dBm	20.34 MHz	1.000 MHz	-62.81	-42.01	-63.76	15.0000 MHz	23.00 MHz	1.000 MHz	-61.50	-40.71	-64.44	<p>Agilent 23:31:24 Jul 8, 2015</p> <p>Ch Freq 2.6825 GHz Trig Free</p> <p>Center Freq 2.68250000 GHz</p> <p>Start Freq 2.65150000 GHz</p> <p>Stop Freq 2.71350000 GHz</p> <p>CF Step 6.20000000 MHz</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On</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 dBc</th> <th>Upper dBc</th> </tr> </thead> <tbody> <tr> <td>19.91 dBm</td> <td>13.00 MHz</td> <td>1.000 MHz</td> <td>-51.75</td> <td>-31.84</td> <td>-50.24</td> </tr> <tr> <td>15.0000 MHz</td> <td>23.00 MHz</td> <td>1.000 MHz</td> <td>-59.92</td> <td>-40.02</td> <td>-57.03</td> </tr> </tbody> </table> <p>Copyright 2000-2011 Agilent Technologies</p> <p>Band LTE41 15MHz EM 16QAM High Channel FRB.gif</p>	Carrier Power	Freq Offset	Ref BW	dBc	Lower dBc	Upper dBc	19.91 dBm	13.00 MHz	1.000 MHz	-51.75	-31.84	-50.24	15.0000 MHz	23.00 MHz	1.000 MHz	-59.92	-40.02	-57.03
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<p>Band LTE41 15MHz QPSK</p>	<p>Agilent 23:29:58 Jul 8, 2015</p> <p>Ch Freq 2.6825 GHz Trig Free</p> <p>Center Freq 2.68250000 GHz</p> <p>Start Freq 2.65150000 GHz</p> <p>Stop Freq 2.71350000 GHz</p> <p>CF Step 6.20000000 MHz</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On</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 dBc</th> <th>Upper dBc</th> </tr> </thead> <tbody> <tr> <td>21.94 dBm</td> <td>13.00 MHz</td> <td>1.000 MHz</td> <td>-64.17</td> <td>-42.24</td> <td>-63.89</td> </tr> <tr> <td>15.0000 MHz</td> <td>23.00 MHz</td> <td>1.000 MHz</td> <td>-63.86</td> <td>-41.92</td> <td>-63.22</td> </tr> </tbody> </table> <p>Copyright 2000-2011 Agilent Technologies</p> <p>Band LTE41 15MHz EM QPSK High Channel 1RB.gif</p>	Carrier Power	Freq Offset	Ref BW	dBc	Lower dBc	Upper dBc	21.94 dBm	13.00 MHz	1.000 MHz	-64.17	-42.24	-63.89	15.0000 MHz	23.00 MHz	1.000 MHz	-63.86	-41.92	-63.22	<p>Agilent 23:30:26 Jul 8, 2015</p> <p>Ch Freq 2.6825 GHz Trig Free</p> <p>Center Freq 2.68250000 GHz</p> <p>Start Freq 2.65150000 GHz</p> <p>Stop Freq 2.71350000 GHz</p> <p>CF Step 6.20000000 MHz</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On</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 dBc</th> <th>Upper dBc</th> </tr> </thead> <tbody> <tr> <td>21.23 dBm</td> <td>13.00 MHz</td> <td>1.000 MHz</td> <td>-58.43</td> <td>-29.20</td> <td>-48.33</td> </tr> <tr> <td>15.0000 MHz</td> <td>23.00 MHz</td> <td>1.000 MHz</td> <td>-55.73</td> <td>-34.50</td> <td>-65.32</td> </tr> </tbody> </table> <p>Copyright 2000-2011 Agilent Technologies</p> <p>Band LTE41 15MHz EM QPSK High Channel FRB.gif</p>	Carrier Power	Freq Offset	Ref BW	dBc	Lower dBc	Upper dBc	21.23 dBm	13.00 MHz	1.000 MHz	-58.43	-29.20	-48.33	15.0000 MHz	23.00 MHz	1.000 MHz	-55.73	-34.50	-65.32
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<p>Band LTE41 5MHz 16QAM</p>	<p>Agilent 22:56:41 Jul 8, 2015</p> <p>Ch Freq 2.4985 GHz Trig Free</p> <p>Center Freq 2.49350000 GHz</p> <p>Start Freq 2.48350000 GHz</p> <p>Stop Freq 2.51350000 GHz</p> <p>CF Step 3.00000000 MHz Auto Man</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>RFS Results</p> <table border="1"> <thead> <tr> <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> </tr> </thead> <tbody> <tr> <td>Carrier Power</td> <td>4.000 MHz</td> <td>1.000 MHz</td> <td>-74.38</td> <td>-54.54</td> <td>-73.00</td> <td>-53.16</td> <td></td> </tr> <tr> <td>19.84 dBm /</td> <td>8.500 MHz</td> <td>1.000 MHz</td> <td>-74.77</td> <td>-54.93</td> <td>-75.22</td> <td>-55.38</td> <td></td> </tr> </tbody> </table> <p>Copyright 2000-2011 Agilent Technologies</p> <p>Band LTE41 5MHz EM 16QAM Low Channel 1RB.gif</p>	Freq	Offset	Ref BW	dBc	Lower	dBm	dBc	Upper	Carrier Power	4.000 MHz	1.000 MHz	-74.38	-54.54	-73.00	-53.16		19.84 dBm /	8.500 MHz	1.000 MHz	-74.77	-54.93	-75.22	-55.38		<p>Agilent 22:58:34 Jul 8, 2015</p> <p>Ch Freq 2.4985 GHz Trig Free</p> <p>Center Freq 2.49350000 GHz</p> <p>Start Freq 2.48350000 GHz</p> <p>Stop Freq 2.51350000 GHz</p> <p>CF Step 3.00000000 MHz Auto Man</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>RFS Results</p> <table border="1"> <thead> <tr> <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> </tr> </thead> <tbody> <tr> <td>Carrier Power</td> <td>4.000 MHz</td> <td>1.000 MHz</td> <td>-74.54</td> <td>-27.99</td> <td>-74.59</td> <td>-55.04</td> <td></td> </tr> <tr> <td>19.55 dBm /</td> <td>8.500 MHz</td> <td>1.000 MHz</td> <td>-74.81</td> <td>-55.26</td> <td>-74.71</td> <td>-55.16</td> <td></td> </tr> </tbody> </table> <p>Copyright 2000-2011 Agilent Technologies</p> <p>Band LTE41 5MHz EM 16QAM Low Channel FRB.gif</p>	Freq	Offset	Ref BW	dBc	Lower	dBm	dBc	Upper	Carrier Power	4.000 MHz	1.000 MHz	-74.54	-27.99	-74.59	-55.04		19.55 dBm /	8.500 MHz	1.000 MHz	-74.81	-55.26	-74.71	-55.16	
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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	-23.01	-13	-10.01
		836.6	-22.01	-13	-9.01
		848.8	-23.12	-13	-10.12
	EGPRS	824.2	-23.46	-13	-10.46
		836.6	-23.60	-13	-10.60
		848.8	-22.99	-13	-9.99
GSM 1900	GPRS	1850.2	-24.27	-13	-11.27
		1880	-23.97	-13	-10.97
		1909.8	-24.59	-13	-11.59
	EGPRS	1850.2	-23.98	-13	-10.98
		1880	-24.76	-13	-11.76
		1909.8	-24.00	-13	-11.00

WCDMA

Band	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
Band 5	REL99	826.4	-31.328	-13	-18.328
		836.6	-34.064	-13	-21.064
		846.6	-34.492	-13	-21.492
	HSDPA	826.4	-34.467	-13	-21.467
		836.6	-35.013	-13	-22.013
		846.6	-34.569	-13	-21.569
Band 4	REL99	1712.4	-34.259	-13	-21.259
		1732.6	-33.702	-13	-20.702
		1752.6	-33.798	-13	-20.798
	HSDPA	1712.4	-33.78	-13	-20.78
		1732.6	-34.277	-13	-21.277
		1752.6	-34.444	-13	-21.444
Band 2	REL99	1852.4	-19.364	-13	-6.364
		1880	-21.068	-13	-8.068
		1907.6	-17.385	-13	-4.385
	HSDPA	1852.4	-21.365	-13	-8.365
		1880	-22.260	-13	-9.260
		1907.6	-19.384	-13	-6.384

LTE Band 2

Band	BW (MHz)	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
LTE2	20	16QAM	1860	-14.95	-13	-1.95
			1880	-15.61	-13	-2.61
			1900	-15.02	-13	-2.02
		QPSK	1860	-15.22	-13	-2.22
			1880	-14.62	-13	-1.62
			1900	-16.29	-13	-3.29
	15	16QAM	1857.5	-14.98	-13	-1.98
			1880	-16.52	-13	-3.52
			1902.5	-15.51	-13	-2.51
		QPSK	1857.5	-15.02	-13	-2.02
			1880	-18.05	-13	-5.05
			1902.5	-16.20	-13	-3.20
	10	16QAM	1855	-17.15	-13	-4.15
			1880	-16.93	-13	-3.93
			1905	-15.62	-13	-2.62
		QPSK	1855	-14.68	-13	-1.68
			1880	-18.67	-13	-5.67
			1905	-15.15	-13	-2.15
	5	16QAM	1852.5	-15.14	-13	-2.14
			1880	-17.16	-13	-4.16
			1907.5	-14.33	-13	-1.33
		QPSK	1852.5	-14.38	-13	-1.38
			1880	-18.01	-13	-5.01
			1907.5	-13.70	-13	-0.70

Band	BW (MHz)	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
LTE2	3	16QAM	1851.5	-16.04	-13	-3.04
			1880	-16.36	-13	-3.36
			1908.5	-14.56	-13	-1.56
		QPSK	1851.5	-14.73	-13	-1.73
			1880	-16.85	-13	-3.85
			1908.5	-14.82	-13	-1.82
	1.4	16QAM	1850.7	-16.69	-13	-3.69
			1880	-19.24	-13	-6.24
			1909.3	-15.87	-13	-2.87
		QPSK	1850.7	-14.20	-13	-1.20
			1880	-17.11	-13	-4.11
			1909.3	-14.66	-13	-1.66

LTE Band 4

Band	BW (MHz)	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
LTE4	20	16QAM	1720	-27.55	-13	-14.55
			1732.5	-26.59	-13	-13.59
			1745	-26.84	-13	-13.84
		QPSK	1720	-26.89	-13	-13.89
			1732.5	-27.78	-13	-14.78
			1745	-27.78	-13	-14.78
	15	16QAM	1717.5	-26.89	-13	-13.89
			1732.5	-27.24	-13	-14.24
			1747.5	-27.21	-13	-14.21
		QPSK	1717.5	-27.23	-13	-14.23
			1732.5	-27.63	-13	-14.63
			1747.5	-28.22	-13	-15.22
	10	16QAM	1715	-27.09	-13	-14.09
			1732.5	-27.59	-13	-14.59
			1750	-27.81	-13	-14.81
		QPSK	1715	-27.70	-13	-14.70
			1732.5	-27.60	-13	-14.60
			1750	-27.28	-13	-14.28
	5	16QAM	1712.5	-27.72	-13	-14.72
			1732.5	-27.18	-13	-14.18
			1752.5	-27.77	-13	-14.77
		QPSK	1712.5	-26.84	-13	-13.84
			1732.5	-27.08	-13	-14.08
			1752.5	-27.34	-13	-14.34

Band	BW (MHz)	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
LTE4	3	16QAM	1711.5	-27.55	-13	-14.55
			1732.5	-27.56	-13	-14.56
			1753.5	-26.35	-13	-13.35
		QPSK	1711.5	-27.73	-13	-14.73
			1732.5	-25.35	-13	-12.35
			1753.5	-27.47	-13	-14.47
	1.4	16QAM	1710.7	-26.53	-13	-13.53
			1732.5	-26.89	-13	-13.89
			1754.3	-27.61	-13	-14.61
		QPSK	1710.7	-26.99	-13	-13.99
			1732.5	-26.15	-13	-13.15
			1754.3	-28.24	-13	-15.24

LTE Band 5

Band	BW (MHz)	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
LTE5	10	16QAM	829	-22.19	-13	-9.19
			836.5	-21.51	-13	-8.51
			844	-21.95	-13	-8.95
		QPSK	829	-22.25	-13	-9.25
			836.5	-21.93	-13	-8.93
			844	-22.65	-13	-9.65
	5	16QAM	826.5	-22.44	-13	-9.44
			836.5	-22.04	-13	-9.04
			846.5	-22.24	-13	-9.24
		QPSK	826.5	-21.97	-13	-8.97
			836.5	-20.68	-13	-7.68
			846.5	-22.52	-13	-9.52
	3	16QAM	825.5	-21.95	-13	-8.95
			836.5	-22.33	-13	-9.33
			847.5	-21.87	-13	-8.87
		QPSK	825.5	-22.55	-13	-9.55
			836.5	-22.04	-13	-9.04
			847.5	-22.41	-13	-9.41
	1.4	16QAM	824.7	-22.46	-13	-9.46
			836.5	-22.42	-13	-9.42
			848.3	-22.71	-13	-9.71
		QPSK	824.7	-22.36	-13	-9.36
			836.5	-21.81	-13	-8.81
			848.3	-21.70	-13	-8.70

LTE Band 7

Band	BW (MHz)	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
LTE7	20	16QAM	2510	-29.31	-25	-4.31
			2535	-30.01	-25	-5.01
			2560	-29.71	-25	-4.71
		QPSK	2510	-30.23	-25	-5.23
			2535	-30.20	-25	-5.20
			2560	-29.66	-25	-4.66
	15	16QAM	2507.5	-29.55	-25	-4.55
			2535	-29.62	-25	-4.62
			2562.5	-30.41	-25	-5.41
		QPSK	2507.5	-30.44	-25	-5.44
			2535	-30.07	-25	-5.07
			2562.5	-30.49	-25	-5.49
	10	16QAM	2505	-29.85	-25	-4.85
			2535	-30.01	-25	-5.01
			2565	-30.20	-25	-5.20
		QPSK	2505	-29.56	-25	-4.56
			2535	-29.13	-25	-4.13
			2565	-29.18	-25	-4.18
	5	16QAM	2502.5	-29.43	-25	-4.43
			2535	-29.65	-25	-4.65
			2567.5	-30.21	-25	-5.21
		QPSK	2502.5	-31.32	-25	-6.32
			2535	-30.12	-25	-5.12
			2567.5	-29.49	-25	-4.49

LTE Band 17

Band	BW (MHz)	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
LTE17	10	16QAM	709	-21.59	-13	-8.59
			710	-22.76	-13	-9.76
			711	-22.59	-13	-9.59
		QPSK	709	-22.32	-13	-9.32
			710	-22.18	-13	-9.18
			711	-21.29	-13	-8.29
	5	16QAM	706.5	-20.16	-13	-7.16
			710	-22.2	-13	-9.2
			713.5	-22.06	-13	-9.06
		QPSK	706.5	-22.78	-13	-9.78
			710	-22.07	-13	-9.07
			713.5	-22.19	-13	-9.19

LTE Band 26

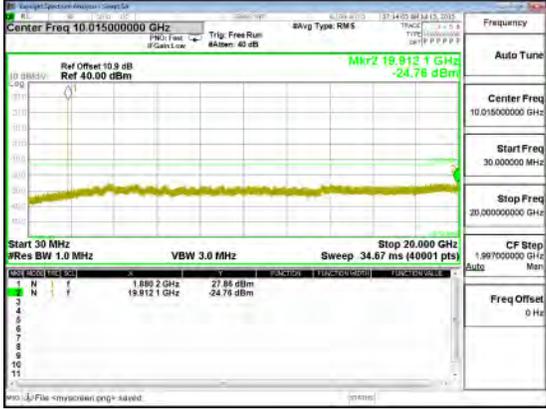
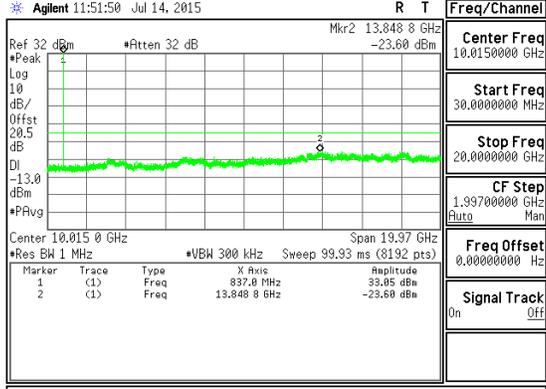
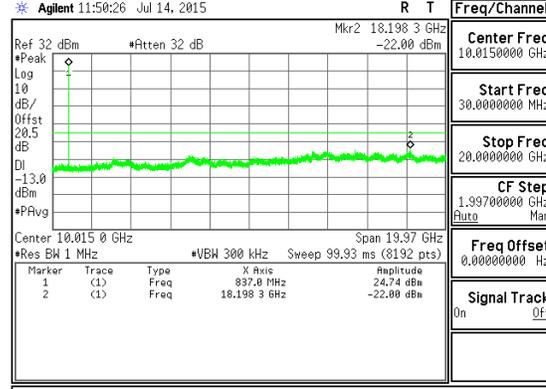
Band	BW (MHz)	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
LTE26	15	16QAM	831.5	-21.48	-13	-8.48
			836.5	-26.22	-13	-13.22
			841.5	-22.03	-13	-9.03
		QPSK	831.5	-21.39	-13	-8.39
			836.5	-24.23	-13	-11.23
			841.5	-22.60	-13	-9.60
	10	16QAM	819	-22.09	-13	-9.09
			831.5	-22.13	-13	-9.13
			844	-21.99	-13	-8.99
		QPSK	819	-21.98	-13	-8.98
			831.5	-21.94	-13	-8.94
			844	-21.86	-13	-8.86
	5	16QAM	816.5	-20.72	-13	-7.72
			831.5	-22.89	-13	-9.89
			846.5	-22.10	-13	-9.10
		QPSK	816.5	-22.13	-13	-9.13
			831.5	-20.30	-13	-7.30
			846.5	-22.00	-13	-9.00
	3	16QAM	815.5	-21.77	-13	-8.77
			831.5	-22.15	-13	-9.15
			847.5	-21.76	-13	-8.76
		QPSK	815.5	-22.21	-13	-9.21
			831.5	-22.28	-13	-9.28
			847.5	-22.66	-13	-9.66
1.4	16QAM	814.7	-21.19	-13	-8.19	
		831.5	-22.57	-13	-9.57	
		848.3	-22.71	-13	-9.71	
	QPSK	814.7	-22.74	-13	-9.74	
		831.5	-21.85	-13	-8.85	
		848.3	-21.53	-13	-8.53	

LTE Band 41

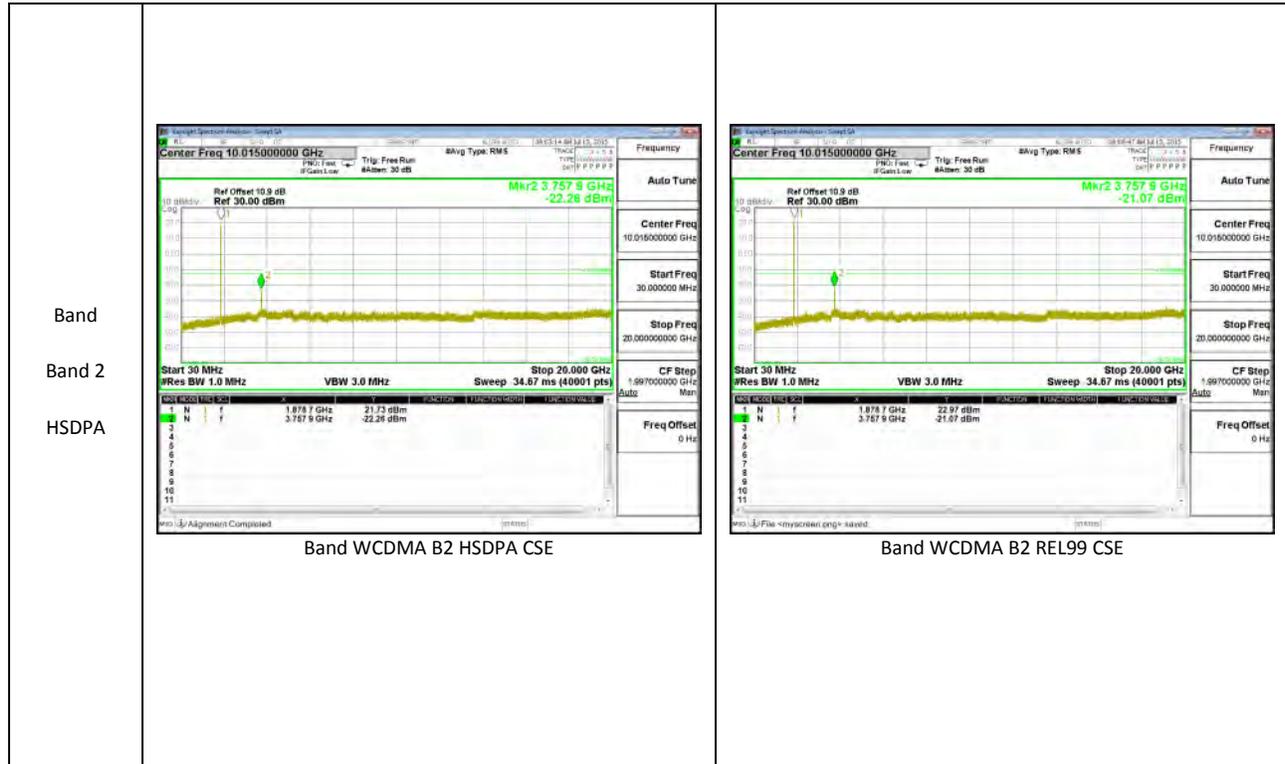
Band	BW (MHz)	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
LTE41	20	16QAM	2506	-33.18	-25	-8.18
			2593	-33.34	-25	-8.34
			2680	-33.76	-25	-8.76
		QPSK	2506	-34.11	-25	-9.11
			2593	-34.30	-25	-9.30
			2680	-34.39	-25	-9.39
	15	16QAM	2503.5	-33.27	-25	-8.27
			2593	-33.81	-25	-8.81
			2682.5	-34.23	-25	-9.23
		QPSK	2503.5	-33.84	-25	-8.84
			2593	-34.10	-25	-9.10
			2682.5	-30.62	-25	-5.62
	10	16QAM	2501	-34.08	-25	-9.08
			2593	-34.09	-25	-9.09
			2685	-34.28	-25	-9.28
		QPSK	2501	-34.08	-25	-9.08
			2593	-33.75	-25	-8.75
			2685	-33.55	-25	-8.55
	5	16QAM	2498.5	-33.65	-25	-8.65
			2593	-33.26	-25	-8.26
			2687.5	-34.75	-25	-9.75
		QPSK	2498.5	-34.10	-25	-9.10
			2593	-34.21	-25	-9.21
			2687.5	-34.24	-25	-9.24

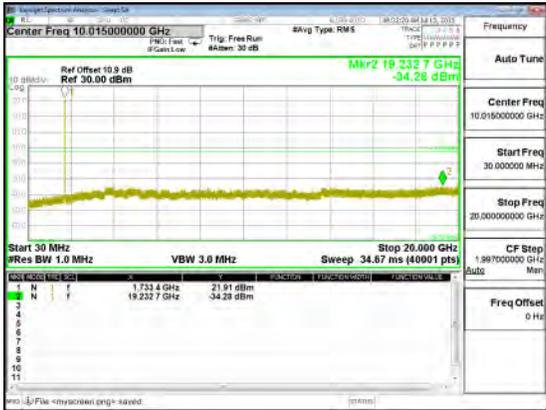
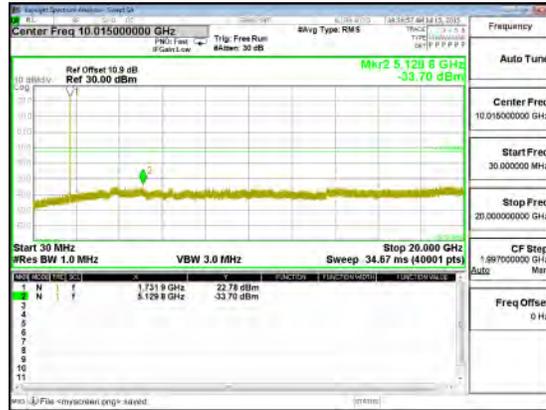
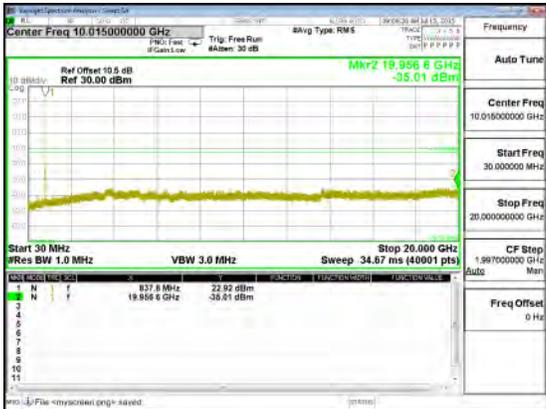
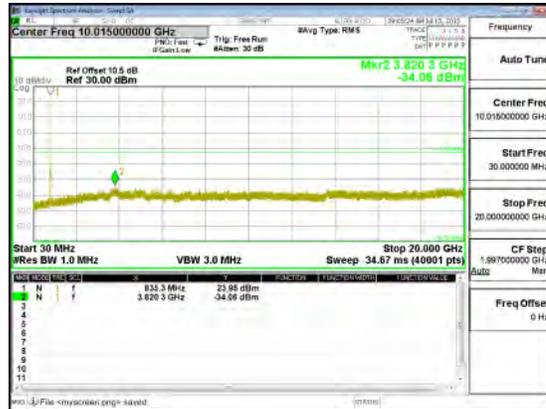
10.3.2. OUT OF BAND EMISSIONS PLOTS

GSM

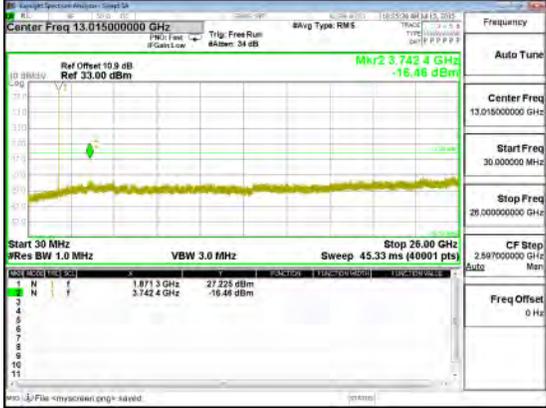
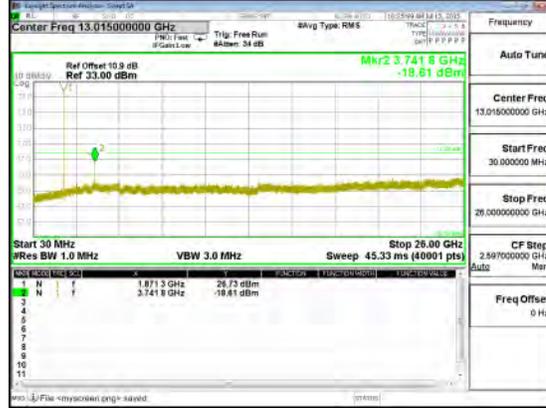
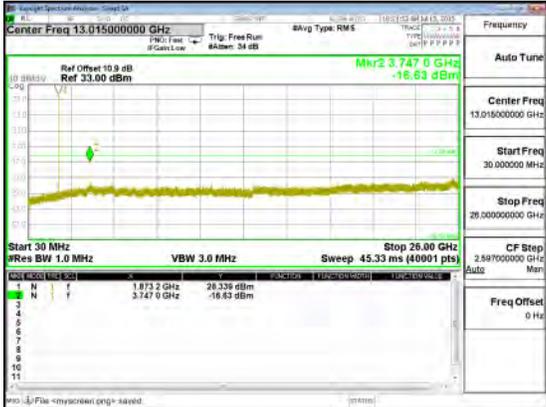
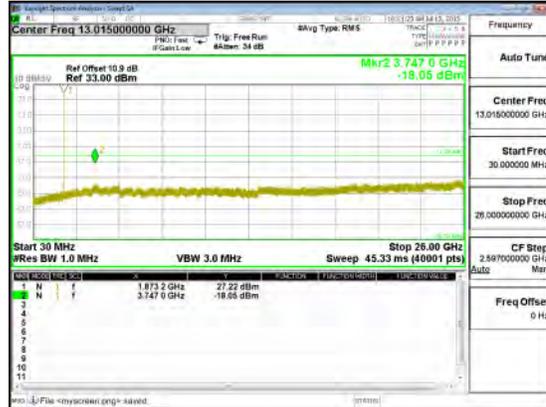
<p>Band GSM1900 EGPRS</p>	 <p>Band GSM1900 EGPRS CSE Mid channel</p>	 <p>Band GSM1900 GPRS CSE Mid channel</p>
<p>Band GSM850 EGPRS</p>	 <p>Band GSM850 EGPRS CSE Mid channel</p>	 <p>Band GSM850 GPRS CSE Mid channel</p>

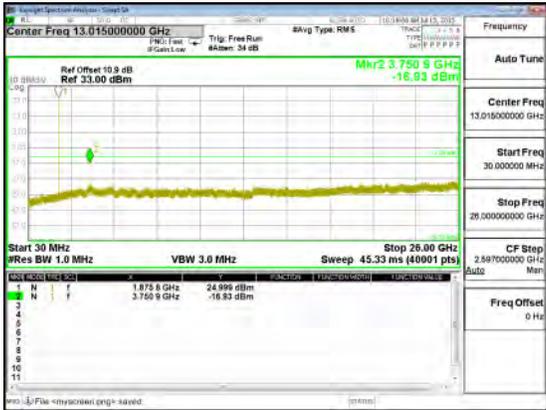
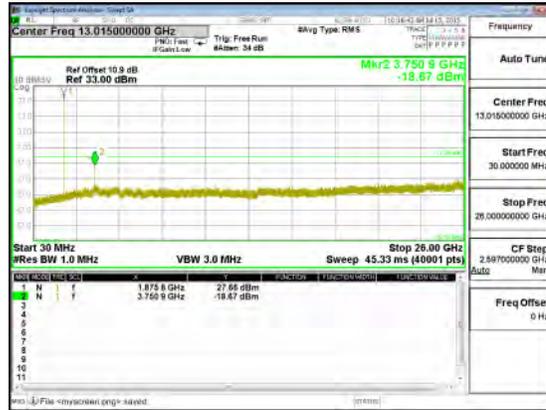
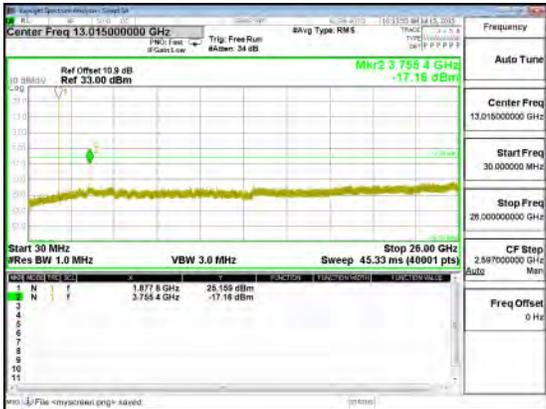
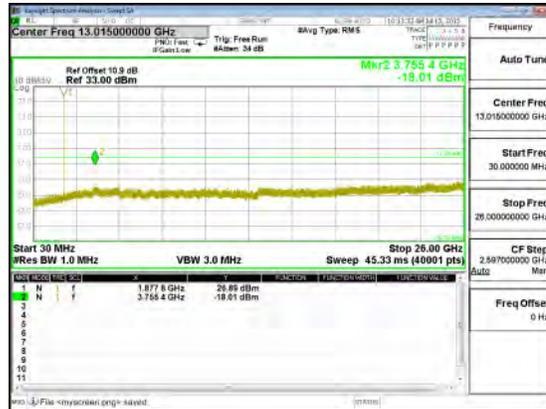
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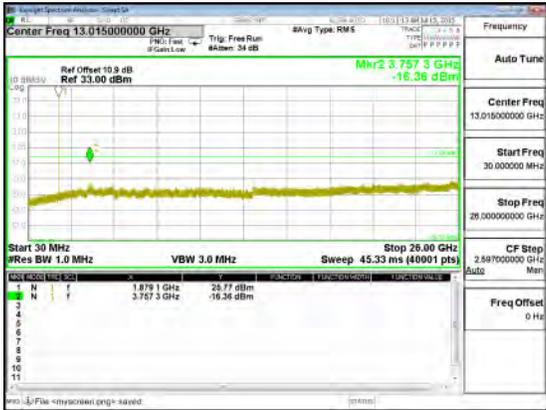
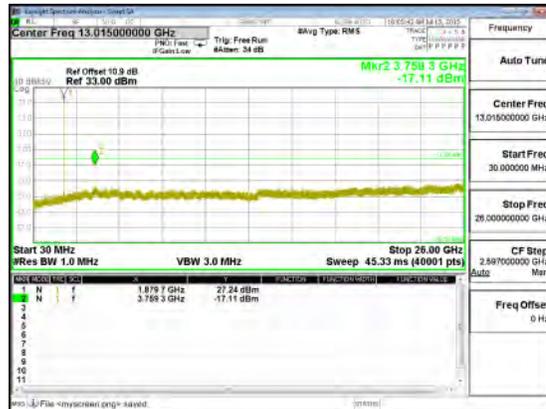


<p>Band Band 4 HSDPA</p>	 <p>Band WCDMA B4 HSDPA CSE</p>	 <p>Band WCDMA B4 REL99 CSE</p>
<p>Band Band 5 HSDPA</p>	 <p>Band WCDMA B5 HSDPA CSE</p>	 <p>Band WCDMA B5 REL99 CSE</p>

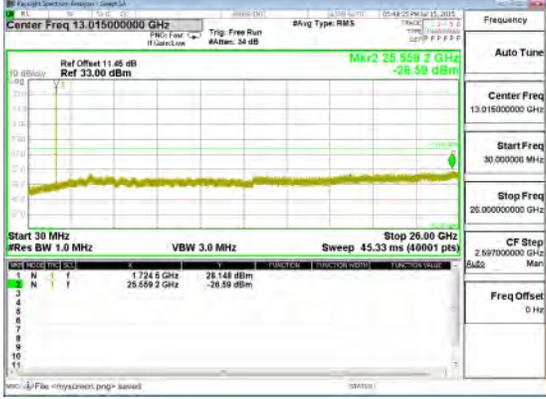
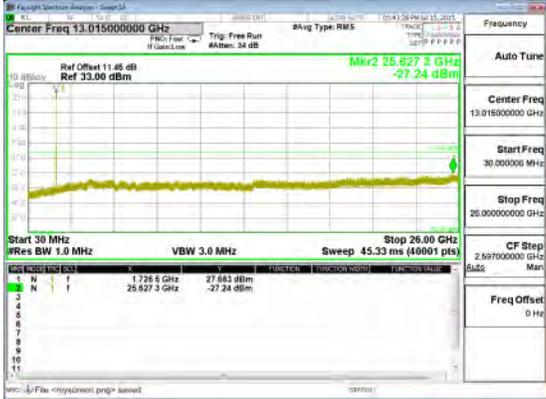
LTE Band 2

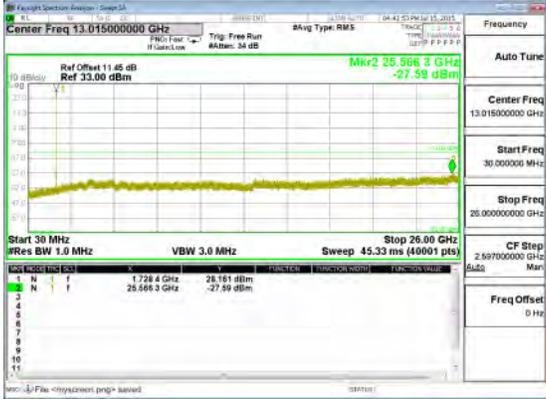
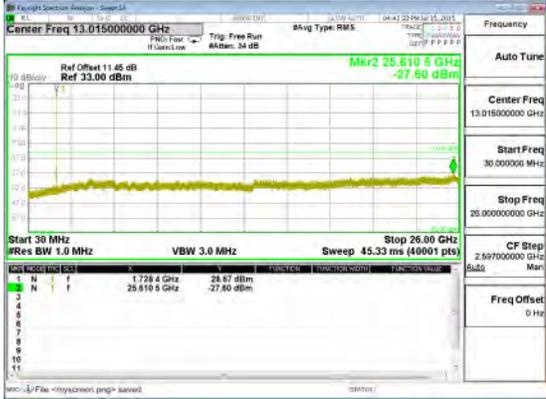
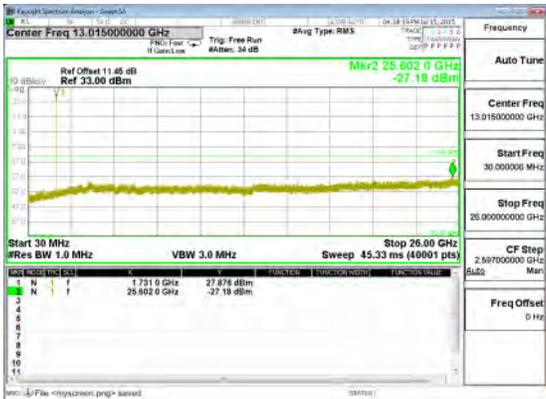
<p>Band LTE2 20MHz 16QAM</p>	 <p>Band LTE2 20MHz CSE 16QAM Mid channel</p>	 <p>Band LTE2 20MHz CSE QPSK Mid channel</p>
<p>Band LTE2 15MHz 16QAM</p>	 <p>Band LTE2 15MHz CSE 16QAM Mid channel</p>	 <p>Band LTE2 15MHz CSE QPSK Mid channel</p>

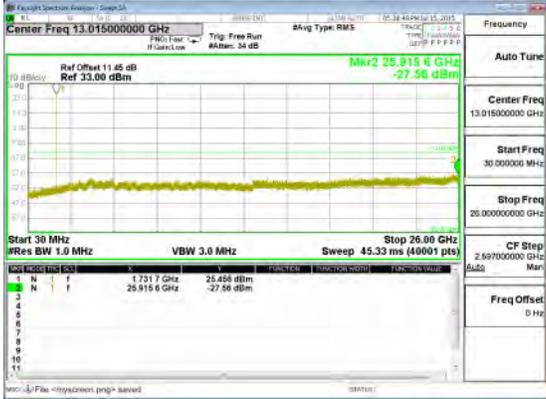
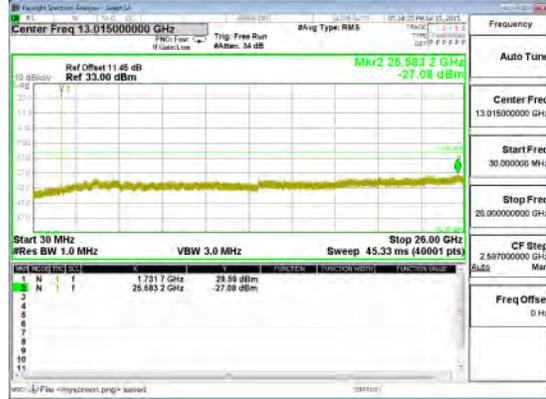
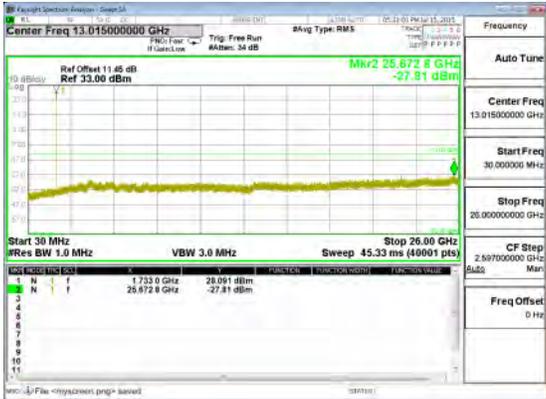
<p>Band LTE2 10MHz 16QAM</p>	 <p>Band LTE2 10MHz CSE 16QAM Mid channel</p>	 <p>Band LTE2 10MHz CSE QPSK Mid channel</p>
<p>Band LTE2 5MHz 16QAM</p>	 <p>Band LTE2 5MHz CSE 16QAM Mid channel</p>	 <p>Band LTE2 5MHz CSE QPSK Mid channel</p>

<p>Band LTE2 3MHz 16QAM</p>	 <p>Band LTE2 3MHz CSE 16QAM Mid channel</p>	 <p>Band LTE2 3MHz CSE QPSK Mid channel</p>
<p>Band LTE2 1.4MHz 16QAM</p>	 <p>Band LTE2 1.4MHz CSE 16QAM Mid channel</p>	 <p>Band LTE2 1.4MHz CSE QPSK Mid channel</p>

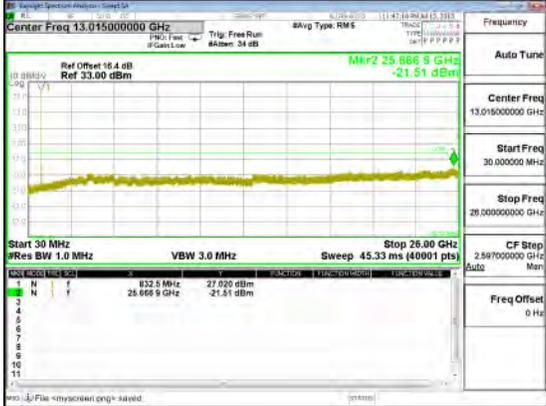
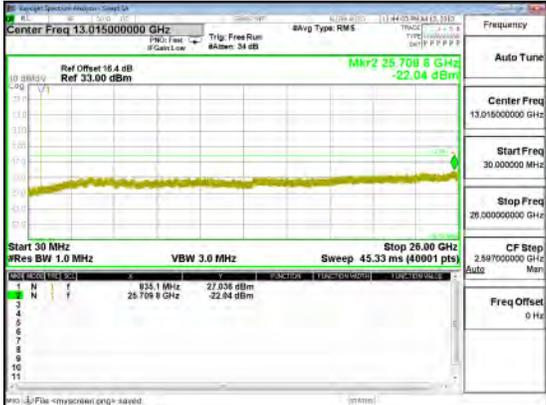
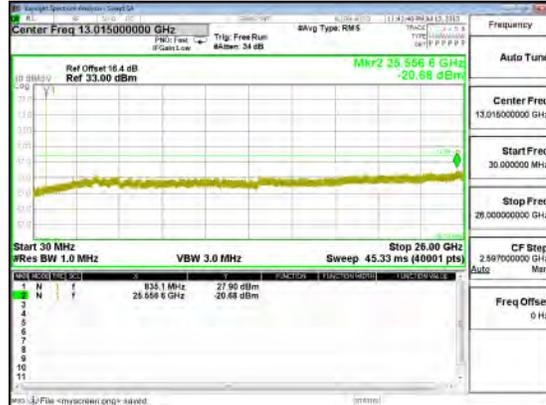
LTE Band 4

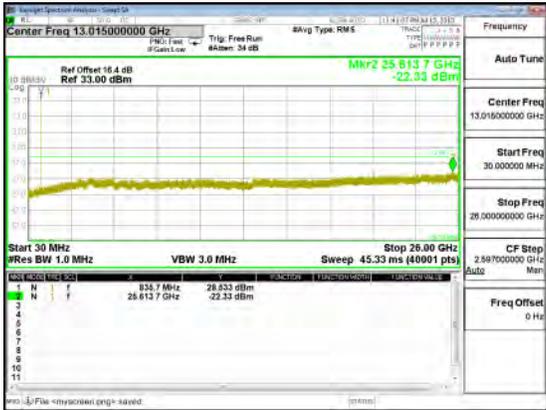
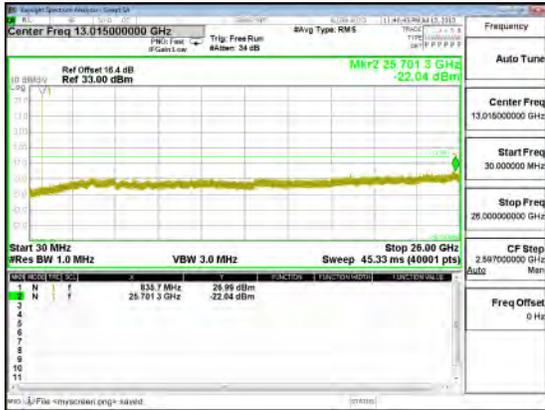
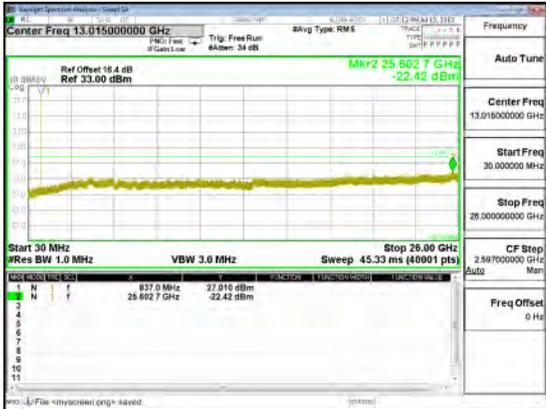
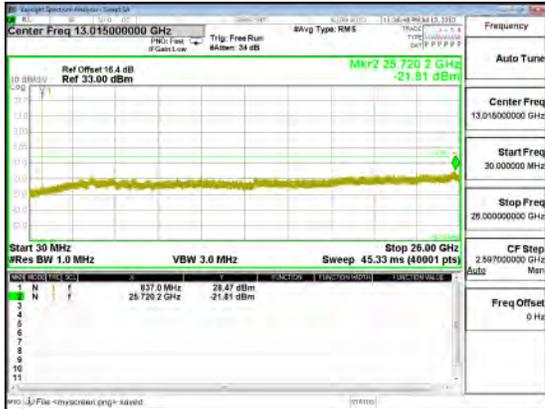
<p>Band LTE4 20MHz 16QAM</p>	 <p>Band LTE4 20MHz CSE 16QAM Mid channel</p>	 <p>Band LTE4 20MHz CSE QPSK Mid channel</p>
<p>Band LTE4 15MHz 16QAM</p>	 <p>Band LTE4 15MHz CSE 16QAM Mid channel</p>	 <p>Band LTE4 15MHz CSE QPSK Mid channel</p>

<p>Band LTE4 10MHz 16QAM</p>	 <p>Band LTE4 10MHz CSE 16QAM Mid channel</p>	 <p>Band LTE4 10MHz CSE QPSK Mid channel</p>
<p>Band LTE4 5MHz 16QAM</p>	 <p>Band LTE4 5MHz CSE 16QAM Mid channel</p>	 <p>Band LTE4 5MHz CSE QPSK Mid channel</p>

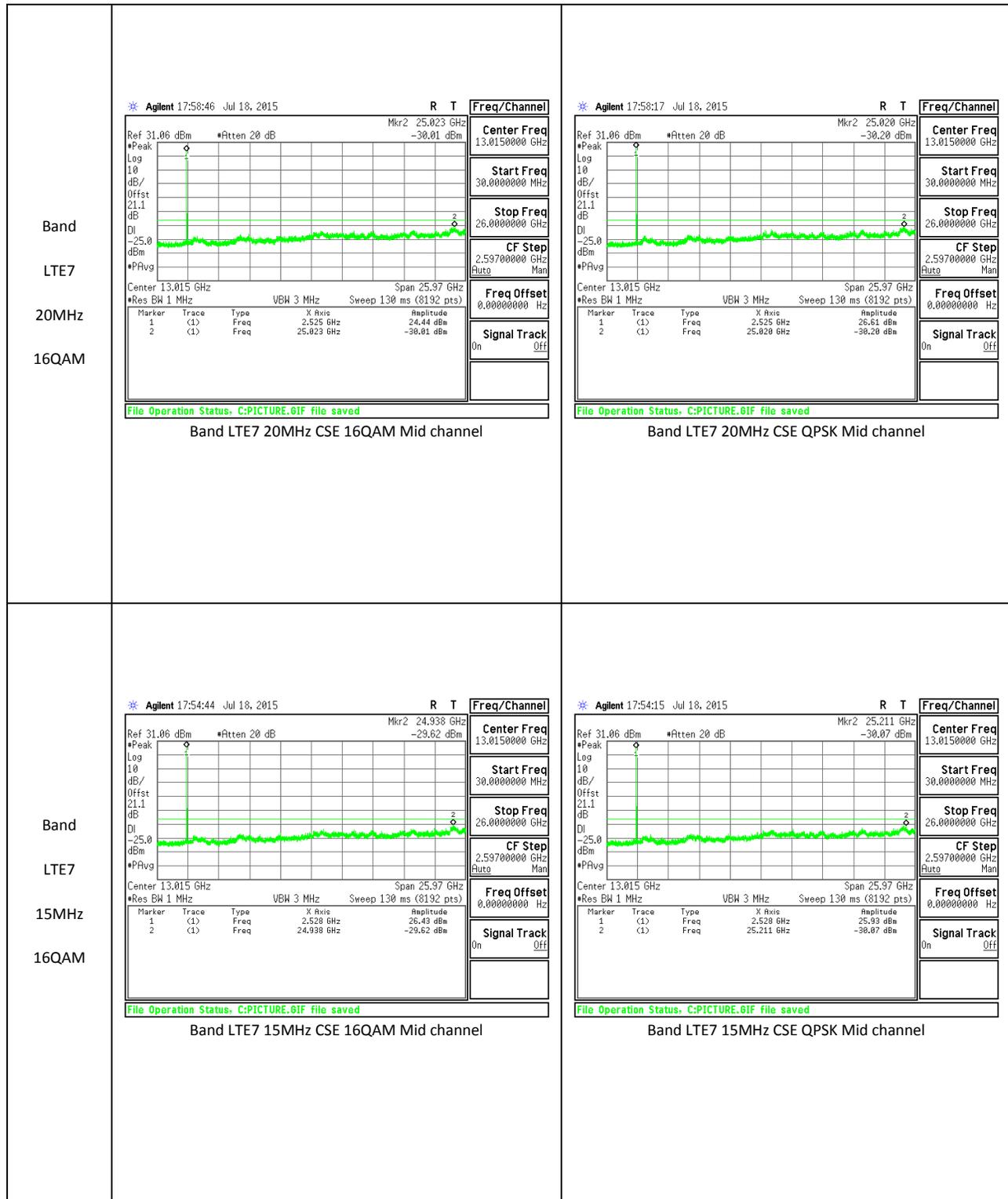
<p>Band LTE4 3MHz 16QAM</p>	 <p>Band LTE4 3MHz CSE 16QAM Mid channel</p>	 <p>Band LTE4 3MHz CSE QPSK Mid channel</p>
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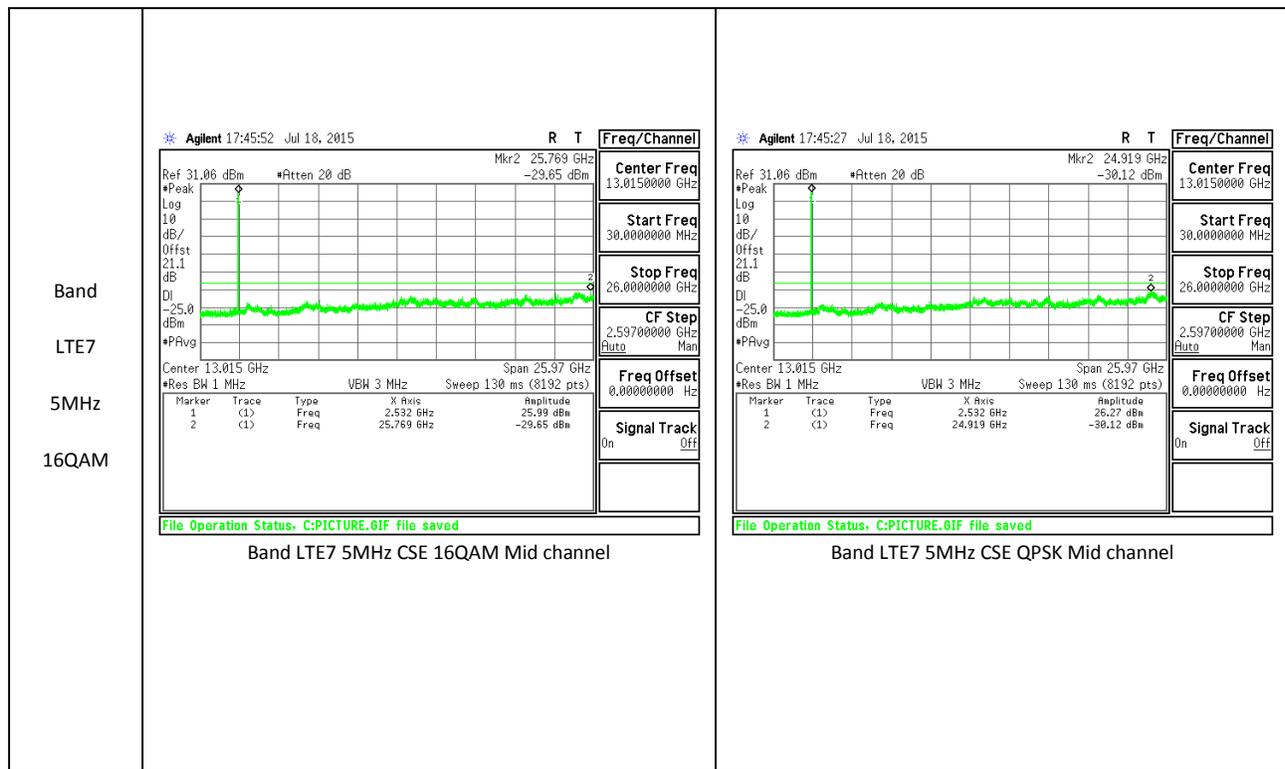
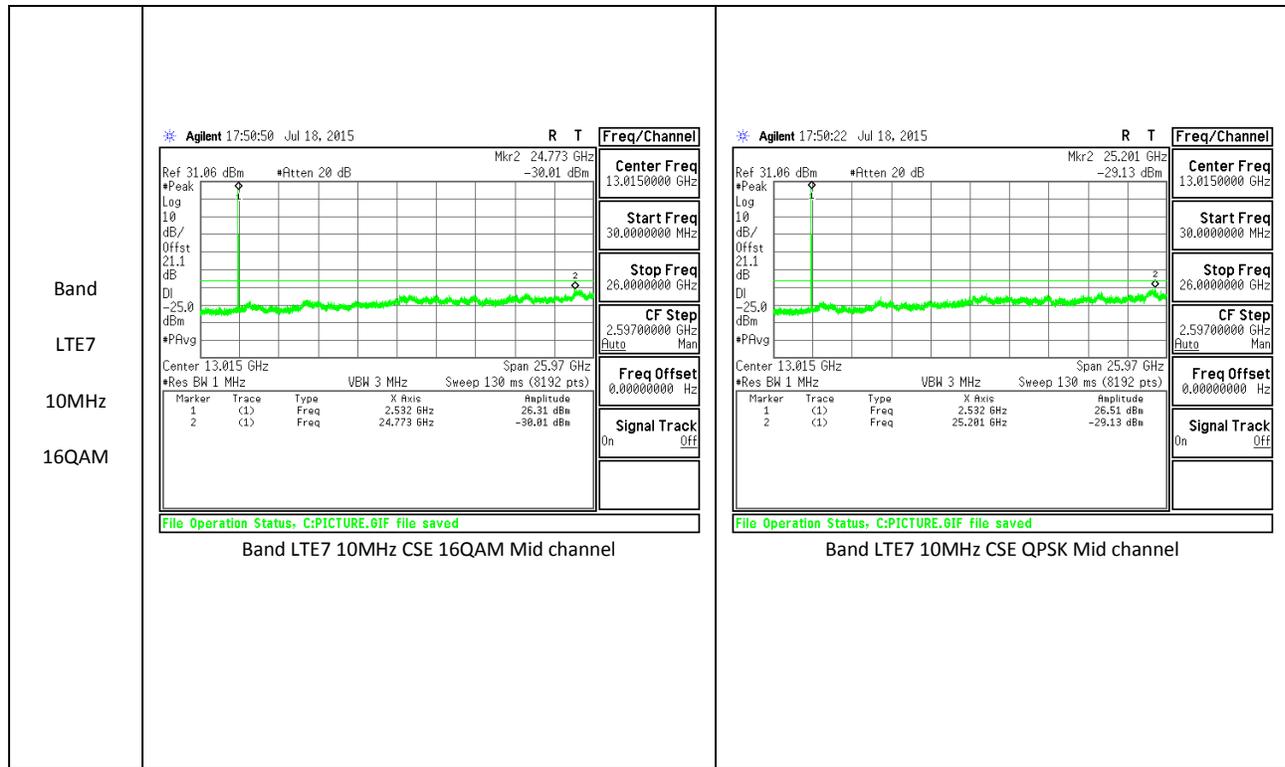
LTE Band 5

<p>Band LTE5 10MHz 16QAM</p>	 <p>Band LTE5 10MHz CSE 16QAM Mid channel</p>	 <p>Band LTE5 10MHz CSE QPSK Mid channel</p>
<p>Band LTE5 5MHz 16QAM</p>	 <p>Band LTE5 5MHz CSE 16QAM Mid channel</p>	 <p>Band LTE5 5MHz CSE QPSK Mid channel</p>

<p>Band LTE5 3MHz 16QAM</p>	 <p>Band LTE5 3MHz CSE 16QAM Mid channel</p>	 <p>Band LTE5 3MHz CSE QPSK Mid channel</p>
<p>Band LTE5 1.4MHz 16QAM</p>	 <p>Band LTE5 1.4MHz CSE 16QAM Mid channel</p>	 <p>Band LTE5 1.4MHz CSE QPSK Mid channel</p>

LTE Band 7

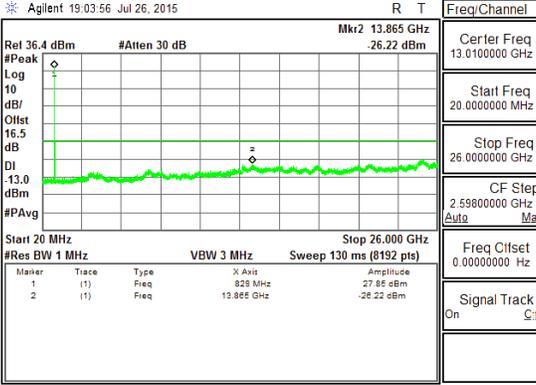
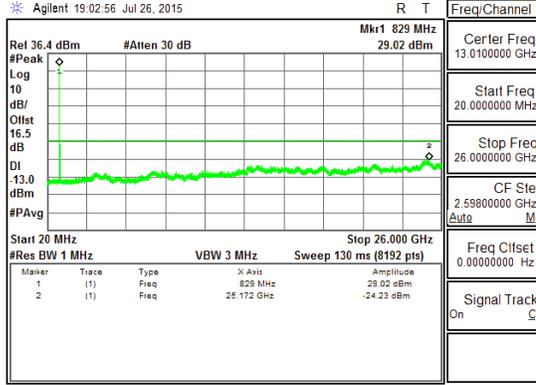
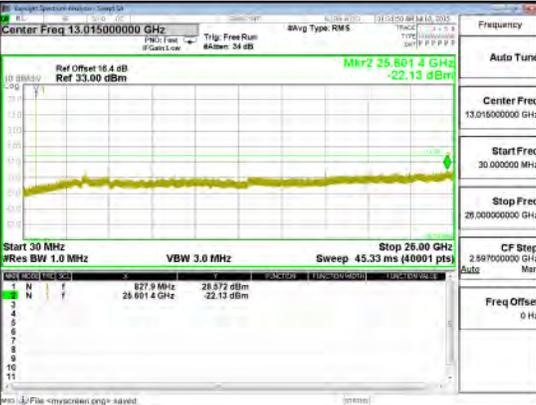
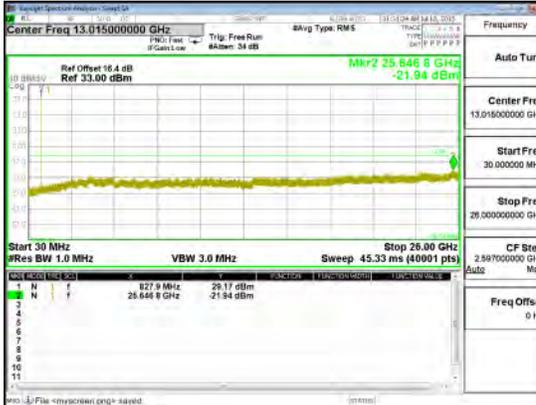


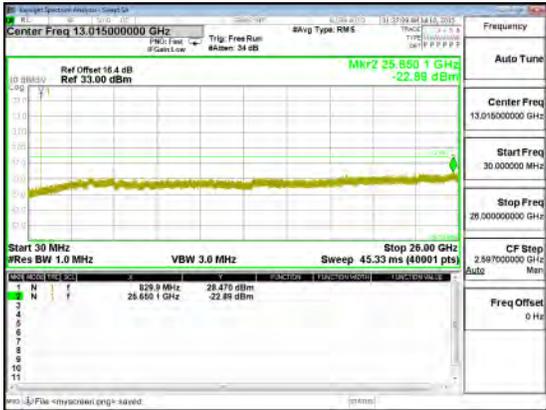
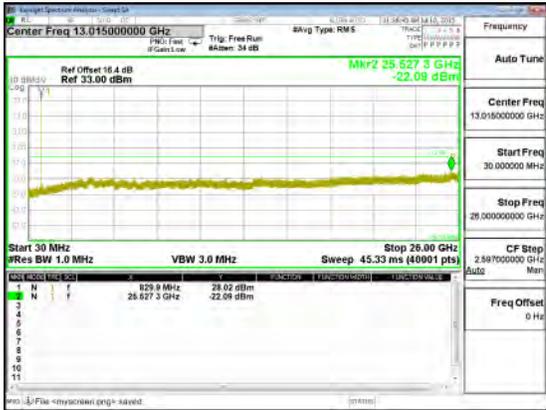
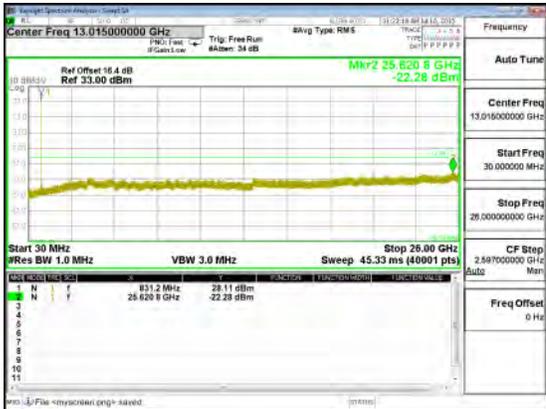


LTE Band 17



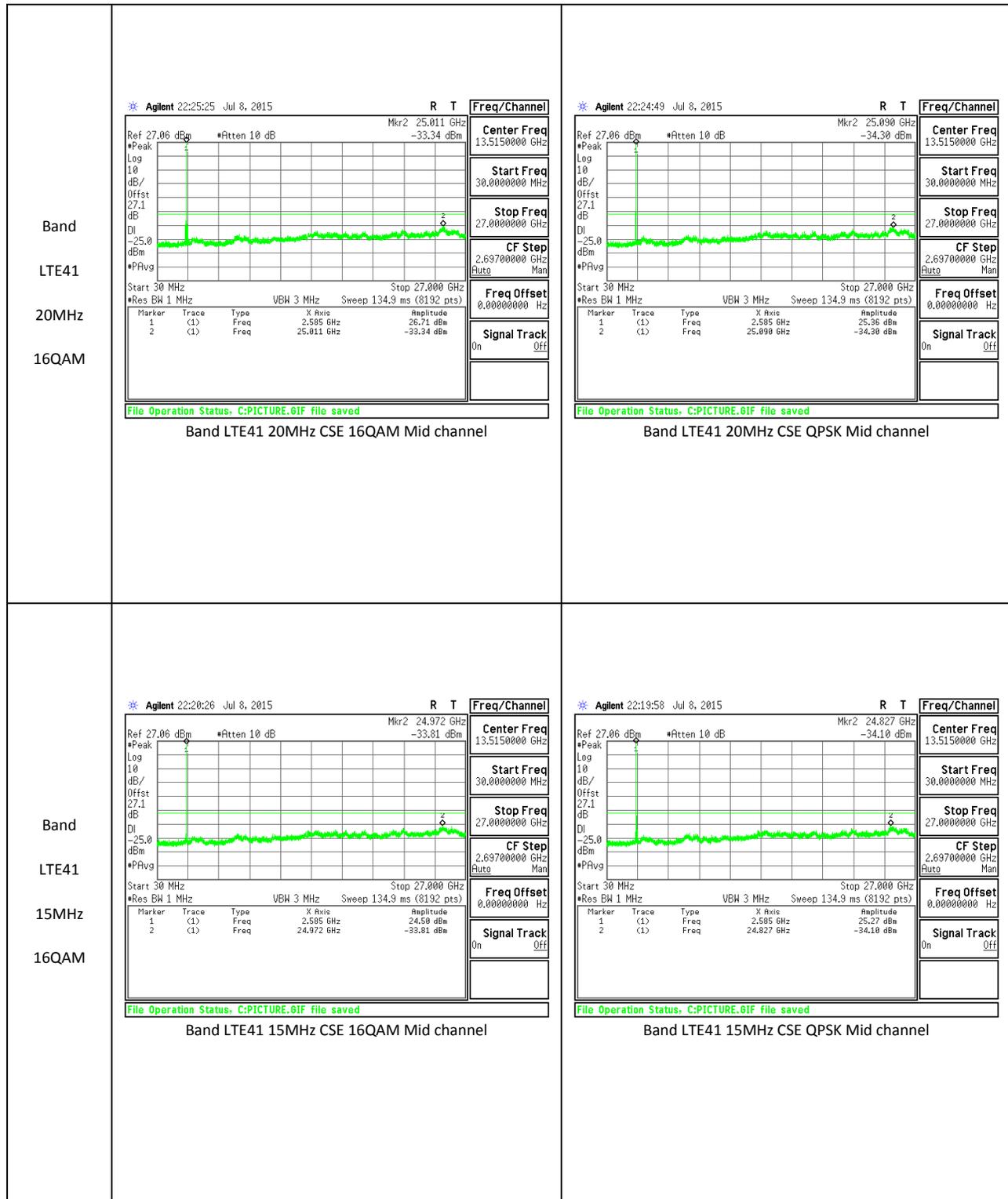
LTE Band 26

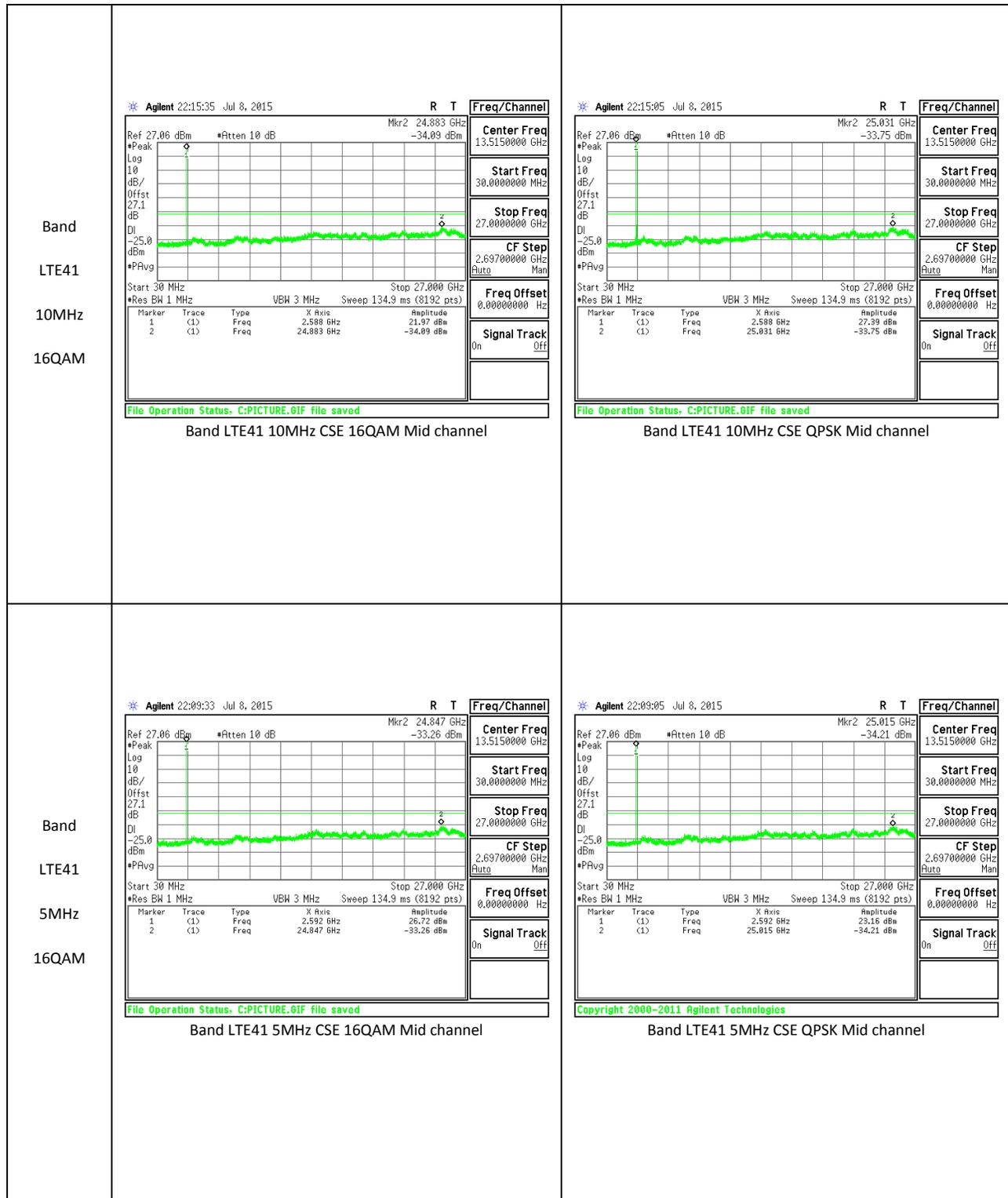
<p>Band LTE26 15MHz 16QAM</p>	 <p>Agilent 19:03:56 Jul 26, 2015</p> <p>Center Freq: 13.865 GHz Mkr2: 13.865 GHz, -26.22 dBm</p> <p>Start Freq: 20.0000000 MHz Stop Freq: 26.0000000 GHz Res BW: 1 MHz, VBW 3 MHz, Sweep 130 ms (8192 pts)</p> <table border="1"> <thead> <tr> <th>Marker</th> <th>Trace</th> <th>Type</th> <th>X Axis</th> <th>Amplitude</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>(1)</td> <td>Freq</td> <td>13.865 GHz</td> <td>-26.22 dBm</td> </tr> </tbody> </table> <p>Signal Track: On</p> <p>Copyright 2000-2011 Agilent Technologies</p> <p>Band LTE26 15MHz CSE 16QAM Mid channel</p>	Marker	Trace	Type	X Axis	Amplitude	2	(1)	Freq	13.865 GHz	-26.22 dBm	 <p>Agilent 19:02:56 Jul 26, 2015</p> <p>Center Freq: 13.0100000 GHz Mkr1: 829 MHz, 29.02 dBm</p> <p>Start Freq: 20.0000000 MHz Stop Freq: 26.0000000 GHz Res BW: 1 MHz, VBW 3 MHz, Sweep 130 ms (8192 pts)</p> <table border="1"> <thead> <tr> <th>Marker</th> <th>Trace</th> <th>Type</th> <th>X Axis</th> <th>Amplitude</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>(1)</td> <td>Freq</td> <td>25.172 GHz</td> <td>-24.23 dBm</td> </tr> </tbody> </table> <p>Signal Track: On</p> <p>Copyright 2000-2011 Agilent Technologies</p> <p>Band LTE26 15MHz CSE QPSK Mid channel</p>	Marker	Trace	Type	X Axis	Amplitude	2	(1)	Freq	25.172 GHz	-24.23 dBm
Marker	Trace	Type	X Axis	Amplitude																		
2	(1)	Freq	13.865 GHz	-26.22 dBm																		
Marker	Trace	Type	X Axis	Amplitude																		
2	(1)	Freq	25.172 GHz	-24.23 dBm																		
<p>Band LTE26 10MHz 16QAM</p>	 <p>Agilent 19:03:56 Jul 26, 2015</p> <p>Center Freq: 13.015000000 GHz Mkr2: 25.8014 GHz, -22.13 dBm</p> <p>Start Freq: 30.0000000 MHz Stop Freq: 26.0000000 GHz Res BW: 1.0 MHz, VBW 3.0 MHz, Sweep 45.33 ms (40001 pts)</p> <table border="1"> <thead> <tr> <th>Marker</th> <th>Trace</th> <th>Type</th> <th>X Axis</th> <th>Amplitude</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>(1)</td> <td>Freq</td> <td>25.8014 GHz</td> <td>-22.13 dBm</td> </tr> </tbody> </table> <p>Freq Offset: 0 Hz</p> <p>Copyright 2000-2011 Agilent Technologies</p> <p>Band LTE26 10MHz CSE 16QAM Mid channel</p>	Marker	Trace	Type	X Axis	Amplitude	2	(1)	Freq	25.8014 GHz	-22.13 dBm	 <p>Agilent 19:03:56 Jul 26, 2015</p> <p>Center Freq: 13.015000000 GHz Mkr2: 25.8468 GHz, -21.94 dBm</p> <p>Start Freq: 30.0000000 MHz Stop Freq: 26.0000000 GHz Res BW: 1.0 MHz, VBW 3.0 MHz, Sweep 45.33 ms (40001 pts)</p> <table border="1"> <thead> <tr> <th>Marker</th> <th>Trace</th> <th>Type</th> <th>X Axis</th> <th>Amplitude</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>(1)</td> <td>Freq</td> <td>25.8468 GHz</td> <td>-21.94 dBm</td> </tr> </tbody> </table> <p>Freq Offset: 0 Hz</p> <p>Copyright 2000-2011 Agilent Technologies</p> <p>Band LTE26 10MHz CSE QPSK Mid channel</p>	Marker	Trace	Type	X Axis	Amplitude	2	(1)	Freq	25.8468 GHz	-21.94 dBm
Marker	Trace	Type	X Axis	Amplitude																		
2	(1)	Freq	25.8014 GHz	-22.13 dBm																		
Marker	Trace	Type	X Axis	Amplitude																		
2	(1)	Freq	25.8468 GHz	-21.94 dBm																		

<p>Band LTE26 5MHz 16QAM</p>	 <p>Band LTE26 5MHz CSE 16QAM Mid channel</p>	 <p>Band LTE26 5MHz CSE QPSK Mid channel</p>
<p>Band LTE26 3MHz 16QAM</p>	 <p>Band LTE26 3MHz CSE 16QAM Mid channel</p>	 <p>Band LTE26 3MHz CSE QPSK Mid channel</p>



LTE Band 41





10.4. FREQUENCY STABILITY

RULE PART(S)

FCC: §2.1055, §22.355, §24.235, §27.54 and §90.213

LIMITS

§22.355 - The carrier frequency shall not depart from the reference frequency in excess of ± 2.5 ppm for mobile stations.

§24.235 - The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

§27.54 - The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

§90.213 - The carrier frequency shall not depart from the reference frequency in excess of ± 2.5 ppm for mobile stations.

TEST PROCEDURE

Per KDB 971168 D01 Power Meas License Digital Systems v02r02

MODES TESTED

GSM and LTE

RESULTS

See the following pages.

10.4.1. FREQUENCY STABILITY RESULTS

GSM 850

Reference Frequency: GSM850 Mid Channel		836.6	MHz @ 20°C	
Limit: to stay +/- 2.5 ppm =		2091.500	Hz	
Power Supply (Vdc)	Environment Temperature (°C)	Frequency Deviation Measured with Time Elapse		
		(MHz)	Delta (ppm)	Limit (ppm)
3.80	50	836.600027	-0.003	2.5
3.80	40	836.600027	-0.003	2.5
3.80	30	836.600026	-0.002	2.5
3.80	20	836.600024	0	2.5
3.80	10	836.600027	-0.003	2.5
3.80	0	836.600028	-0.005	2.5
3.80	-10	836.600024	0.000	2.5
3.80	-20	836.600028	-0.004	2.5
3.80	-30	836.600027	-0.003	2.5

Reference Frequency: GSM850 Mid Channel		836.6	MHz @ 20°C	
Limit: to stay +/- 2.5 ppm =		2091.500	Hz	
Power Supply (Vdc)	Environment Temperature (°C)	Frequency Deviation Measured with Time Elapse		
		(MHz)	Delta (ppm)	Limit (ppm)
3.80	20	836.600024	0	2.5
4.37	20	836.600023	0.001	2.5
3.23	20	836.600032	-0.009	2.5

GSM1900

Reference Frequency: GSM1900 Mid Channel		1880	MHz @ 20°C	
Limit: to stay +/- 2.5 ppm =		4700.000	Hz	
Power Supply (Vdc)	Environment Temperature (°C)	Frequency Deviation Measured with Time Elapse		
		(MHz)	Delta (ppm)	Limit (ppm)
3.80	50	1880.000039	0.005	2.5
3.80	40	1880.000026	0.012	2.5
3.80	30	1880.000037	0.006	2.5
3.80	20	1880.000049	0	2.5
3.80	10	1880.000036	0.007	2.5
3.80	0	1880.000036	0.007	2.5
3.80	-10	1880.000027	0.012	2.5
3.80	-20	1880.000045	0.002	2.5
3.80	-30	1880.000041	0.004	2.5

Reference Frequency: GSM1900 Mid Channel		1880	MHz @ 20°C	
Limit: to stay +/- 2.5 ppm =		4700.000	Hz	
Power Supply (Vdc)	Environment Temperature (°C)	Frequency Deviation Measured with Time Elapse		
		(MHz)	Delta (ppm)	Limit (ppm)
3.80	20	1880.000049	0	2.5
4.37	20	1880.000047	0.001	2.5
3.23	20	1880.000054	-0.003	2.5

LTE Band 4

Reference Frequency: LTE Band 4 Mid Channel		1732.5	MHz @ 20°C	
Limit: to stay +/- 2.5 ppm =		4331.250	Hz	
Power Supply (Vdc)	Environment Temperature (°C)	Frequency Deviation Measured with Time Elapse		
		(MHz)	Delta (ppm)	Limit (ppm)
3.80	50	1732.500006	-0.006	2.5
3.80	40	1732.500005	-0.006	2.5
3.80	30	1732.500005	-0.006	2.5
3.80	20	1732.499995	0	2.5
3.80	10	1732.500006	-0.006	2.5
3.80	0	1732.500006	-0.006	2.5
3.80	-10	1732.500005	-0.006	2.5
3.80	-20	1732.500007	-0.007	2.5
3.80	-30	1732.500006	-0.006	2.5

Reference Frequency: LTE Band 4 Mid Channel		1732.5	MHz @ 20°C	
Limit: to stay +/- 2.5 ppm =		4331.250	Hz	
Power Supply (Vdc)	Environment Temperature (°C)	Frequency Deviation Measured with Time Elapse		
		(MHz)	Delta (ppm)	Limit (ppm)
3.80	20	1732.499995	0	2.5
4.37	20	1732.500006	-0.006	2.5
3.23	20	1732.500006	-0.006	2.5

LTE Band 7

Reference Frequency: LTE Band 7 Mid Channel		2535	MHz @ 20°C	
Limit: to stay +/- 2.5 ppm =		6337.500	Hz	
Power Supply (Vdc)	Environment Temperature (°C)	Frequency Deviation Measured with Time Elapse		
		(MHz)	Delta (ppm)	Limit (ppm)
3.80	50	2534.999989	0.000	2.5
3.80	40	2534.999988	0.000	2.5
3.80	30	2534.999966	0.009	2.5
3.80	20	2534.999989	0	2.5
3.80	10	2534.999991	-0.001	2.5
3.80	0	2534.999990	-0.001	2.5
3.80	-10	2534.999989	0.000	2.5
3.80	-20	2534.999990	-0.001	2.5
3.80	-30	2534.999992	-0.001	2.5

Reference Frequency: LTE Band 7 Mid Channel		2535	MHz @ 20°C	
Limit: to stay +/- 2.5 ppm =		6337.500	Hz	
Power Supply (Vdc)	Environment Temperature (°C)	Frequency Deviation Measured with Time Elapse		
		(MHz)	Delta (ppm)	Limit (ppm)
3.80	20	2534.999989	0	2.5
4.37	20	2534.999989	0.000	2.5
3.23	20	2534.999990	-0.001	2.5

LTE Band 17

Reference Frequency: LTE Band 17 Mid Channel		710	MHz @ 20°C	
Limit: to stay +/- 2.5 ppm =		1775.000	Hz	
Power Supply (Vdc)	Environment Temperature (°C)	Frequency Deviation Measured with Time Elapse		
		(MHz)	Delta (ppm)	Limit (ppm)
3.80	50	709.999997	0.009	2.5
3.80	40	710.000003	0.000	2.5
3.80	30	709.999997	0.009	2.5
3.80	20	710.000003	0	2.5
3.80	10	710.000003	0.000	2.5
3.80	0	710.000003	0.000	2.5
3.80	-10	710.000007	-0.005	2.5
3.80	-20	710.000010	-0.010	2.5
3.80	-30	709.999997	0.009	2.5

Reference Frequency: LTE Band 17 Mid Channel		710	MHz @ 20°C	
Limit: to stay +/- 2.5 ppm =		1775.000	Hz	
Power Supply (Vdc)	Environment Temperature (°C)	Frequency Deviation Measured with Time Elapse		
		(MHz)	Delta (ppm)	Limit (ppm)
3.80	20	710.000003	0	2.5
4.37	20	709.999997	0.009	2.5
3.23	20	709.999997	0.009	2.5

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	30.41	1098.10
		661	1880	30.47	1114.40
		810	1909.8	30.36	1086.58
	EGPRS	512	1850.2	26.44	440.09
		661	1880	26.23	419.70
		810	1909.8	26.32	428.90

Band	Mode	Channel	f(MHz)	ERP / EIRP	
				dBm	mW
GSM850	GPRS	128	824.2	29.45	881.05
		190	836.6	29.35	860.99
		251	848.8	29.15	822.24
	EGPRS	128	824.2	24.45	278.61
		190	836.6	24.35	272.27
		251	848.8	24.38	274.16

WCDMA

Band	Mode	Channel	f(MHz)	ERP / EIRP	
				dBm	mW
Band 2	REL99	9262	1852.4	26.16	412.80
		9400	1880	25.30	338.80
		9538	1907.6	24.24	265.44
	HSDPA	9262	1852.4	25.39	345.81
		9400	1880	24.02	252.20
		9538	1907.6	23.15	206.52

Band	Mode	Channel	f(MHz)	ERP / EIRP	
				dBm	mW
Band 4	REL99	1312	1712.4	21.71	148.25
		1413	1732.6	21.65	146.22
		1513	1752.6	21.25	133.35
	HSDPA	1312	1712.4	20.11	102.57
		1413	1732.6	20.1	102.33
		1513	1752.6	19.65	92.26

Band	Mode	Channel	f(MHz)	ERP / EIRP	
				dBm	mW
Band 5	REL99	4132	826.4	20.81	120.61
		4183	836.6	20.73	118.33
		4233	846.6	20.52	112.77
	HSDPA	4132	826.4	19.83	96.18
		4183	836.6	19.67	92.70
		4233	846.6	19.52	89.56

LTE Band 2

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE2	20	QPSK	1/0	1860	25.76	376.48
			1/0	1880	25.76	376.65
			1/0	1900	25.79	379.63
		16QAM	1/0	1860	25.26	335.54
			1/0	1880	24.75	298.50
			1/0	1900	24.59	287.98

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE2	15	QPSK	1/0	1857.5	26.26	422.42
			1/0	1880	25.85	384.54
			1/0	1902.5	25.89	388.47
		16QAM	1/0	1857.5	24.96	313.14
			1/0	1880	24.55	285.06
			1/0	1902.5	24.69	294.69

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE2	10	QPSK	1/0	1855	25.66	367.91
			1/0	1880	25.45	350.70
			1/0	1905	25.79	379.63
		16QAM	1/0	1855	24.66	292.24
			1/0	1880	24.25	266.04
			1/0	1905	24.59	287.98

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE2	5	QPSK	1/0	1852.5	25.40	346.53
			1/0	1880	25.15	327.30
			1/0	1907.5	25.19	330.64
		16QAM	1/0	1852.5	24.36	272.73
			1/0	1880	23.85	242.63
			1/0	1907.5	24.09	256.66

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE2	3	QPSK	1/0	1851.5	25.46	351.35
			1/0	1880	25.15	327.30
			1/0	1908.5	25.59	362.54
		16QAM	1/0	1851.5	25.26	335.74
			1/0	1880	24.95	312.56
			1/0	1908.5	25.19	330.37

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE2	1.4	QPSK	1/0	1850.7	24.46	279.09
			1/0	1880	24.25	266.04
			1/0	1909.3	24.69	294.69
		16QAM	1/0	1850.7	24.06	254.53
			1/0	1880	24.53	283.75
			1/0	1909.3	23.29	213.48

LTE Band 4

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE4	20	QPSK	1/0	1720	25.20	330.89
			1/0	1732.5	25.06	320.70
			1/0	1745	25.69	370.28
		16QAM	1/0	1720	24.60	288.19
			1/0	1732.5	24.41	276.12
			1/0	1745	24.96	312.99

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE4	15	QPSK	1/0	1717.5	25.57	360.24
			1/0	1732.5	24.98	314.85
			1/0	1747.5	25.80	379.85
		16QAM	1/0	1717.5	24.95	312.32
			1/0	1732.5	24.29	268.60
			1/0	1747.5	25.61	363.59

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE4	10	QPSK	1/0	1715	25.22	332.28
			1/0	1732.5	25.21	331.97
			1/0	1750	25.94	392.37
		16QAM	1/0	1715	24.81	302.35
			1/0	1732.5	24.83	304.16
			1/0	1750	25.15	327.11

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE4	5	QPSK	1/0	1712.5	24.75	298.83
			1/0	1732.5	24.56	285.83
			1/0	1752.5	26.38	434.30
		16QAM	1/0	1712.5	24.24	265.72
			1/0	1732.5	23.75	237.19
			1/0	1752.5	25.74	374.79

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE4	3	QPSK	1/0	1711.5	24.30	269.02
			1/0	1732.5	25.13	325.92
			1/0	1753.5	26.24	421.13
		16QAM	1/0	1711.5	23.80	239.77
			1/0	1732.5	24.56	285.83
			1/0	1753.5	25.58	361.76

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE4	1.4	QPSK	1/0	1710.7	24.86	306.26
			1/0	1732.5	24.95	312.68
			1/0	1754.3	26.42	438.66
		16QAM	1/0	1710.7	24.01	251.82
			1/0	1732.5	24.08	255.92
			1/0	1754.3	25.55	359.03

LTE Band 5

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE5	10	QPSK	1/0	829	22.26	168.27
			1/0	836.5	22.29	169.43
			1/0	844	22.01	158.85
		16QAM	1/0	829	22.05	160.32
			1/0	836.5	22.09	161.81
			1/0	844	21.94	156.31

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE5	5	QPSK	1/0	826.5	22.09	161.81
			1/0	836.5	22	158.49
			1/0	846.5	21.58	143.88
		16QAM	1/0	826.5	21.73	148.94
			1/0	836.5	21.67	146.89
			1/0	846.5	21.35	136.46

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE5	3	QPSK	1/0	825.5	22.21	166.34
			1/0	836.5	22.13	163.31
			1/0	847.5	21.64	145.88
		16QAM	1/0	825.5	21.83	152.41
			1/0	836.5	21.7	147.91
			1/0	847.5	21.28	134.28

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE5	1.4	QPSK	1/0	824.7	21.75	149.62
			1/0	836.5	21.84	152.76
			1/0	848.3	21.59	144.21
		16QAM	1/0	824.7	22.14	163.68
			1/0	836.5	21.65	146.22
			1/0	848.3	21.1	128.82

LTE Band 7

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP (Peak)	
					dBm	mW
LTE7	20	QPSK	1/0	2510	20.26	106.19
			1/0	2535	22.26	168.21
			1/0	2560	21.89	154.38
		16QAM	1/0	2510	19.75	94.43
			1/0	2535	21.83	152.35
			1/0	2560	20.75	118.74

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP (Peak)	
					dBm	mW
LTE7	15	QPSK	1/0	2507.5	21.17	130.93
			1/0	2535	21.16	130.57
			1/0	2562.5	21.64	145.77
		16QAM	1/0	2507.5	20.66	116.42
			1/0	2535	20.70	117.45
			1/0	2562.5	21.17	130.82

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP (Peak)	
					dBm	mW
LTE7	10	QPSK	1/0	2505	21.58	143.86
			1/0	2535	20.85	121.58
			1/0	2565	21.66	146.47
		16QAM	1/0	2505	20.99	125.59
			1/0	2535	20.20	104.68
			1/0	2565	22.39	173.28

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP (Peak)	
					dBm	mW
LTE7	5	QPSK	1/0	2502.5	20.75	118.82
			1/0	2535	21.09	128.48
			1/0	2567.5	21.18	131.17
		16QAM	1/0	2502.5	20.15	103.48
			1/0	2535	20.29	106.87
			1/0	2567.5	20.39	109.35

LTE Band 17

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE17	10	QPSK	1/0	709	17.31	53.83
			1/0	710	17.07	50.93
			1/0	711	17.34	54.2
		16QAM	1/0	709	16.9	48.98
			1/0	710	16.89	48.87
			1/0	711	17.13	51.64

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE17	5	QPSK	1/0	706.5	17.18	52.24
			1/0	710	17.13	51.64
			1/0	713.5	17.23	52.84
		16QAM	1/0	706.5	16.78	47.64
			1/0	710	16.79	47.75
			1/0	713.5	17.07	50.93

LTE Band 26

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE26	15	QPSK	1/0	831.5	22.09	161.81
			1/0	836.5	22.09	161.81
			1/0	841.5	22.53	179.06
		16QAM	1/0	831.5	21.69	147.57
			1/0	836.5	21.69	147.57
			1/0	841.5	22.11	162.55

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE26	10	QPSK	1/0	819	22.26	168.27
			1/0	831.5	22.29	169.43
			1/0	844	22.01	158.85
		16QAM	1/0	819	22.05	160.32
			1/0	831.5	22.09	161.81
			1/0	844	21.94	156.31

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE26	5	QPSK	1/0	816.5	22.09	161.81
			1/0	831.5	22	158.49
			1/0	846.5	21.58	143.88
		16QAM	1/0	816.5	21.73	148.94
			1/0	831.5	21.67	146.89
			1/0	846.5	21.35	136.46

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE26	3	QPSK	1/0	815.5	22.21	166.34
			1/0	831.5	22.13	163.31
			1/0	847.5	21.64	145.88
		16QAM	1/0	815.5	21.83	152.41
			1/0	831.5	21.7	147.91
			1/0	847.5	21.28	134.28

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE26	1.4	QPSK	1/0	814.7	21.75	149.62
			1/0	831.5	21.84	152.76
			1/0	848.3	21.59	144.21
		16QAM	1/0	814.7	22.14	163.68
			1/0	831.5	21.65	146.22
			1/0	848.3	21.1	128.82

LTE Band 41

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP (Peak)	
					dBm	mW
LTE41	20	QPSK	1/0	2506	17.63	57.94
			1/0	2593	20.41	109.90
			1/0	2680	19.12	81.66
		16QAM	1/0	2506	16.75	47.32
			1/0	2593	19.2	83.18
			1/0	2680	17.99	62.95

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP (Peak)	
					dBm	mW
LTE41	15	QPSK	1/0	2503.5	17.96	62.52
			1/0	2593	20.62	115.35
			1/0	2682.5	19.56	90.36
		16QAM	1/0	2503.5	16.85	48.42
			1/0	2593	19.42	87.50
			1/0	2682.5	18.41	69.34

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP (Peak)	
					dBm	mW
LTE41	10	QPSK	1/0	2501	18.61	72.61
			1/0	2593	20.59	114.55
			1/0	2685	19.82	95.94
		16QAM	1/0	2501	17.65	58.21
			1/0	2593	19.5	89.13
			1/0	2685	19.33	85.70

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP (Peak)	
					dBm	mW
LTE41	5	QPSK	1/0	2498.5	19.11	81.47
			1/0	2593	19.91	97.95
			1/0	2687.5	19.83	96.16
		16QAM	1/0	2498.5	18.35	68.39
			1/0	2593	18.89	77.45
			1/0	2687.5	19.41	87.30

11.1.2. ERP/EIRP PLOTS

GSM

Band GSM 1900 EGPRS	High Frequency Substitution Measurement UL Verification Services, Inc. Chamber A								
	Company: LG Project #: 15I21237 Date: 7/15/2015 Test Engineer: D. Mun Configuration: Y-pos EUT only Mode: EGPRS 1900								
	Test Equipment: Receiving: Horn T136, and Chamber A 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	18.78	V	0.9	8.5	26.44	33.0	-6.6	
	1850.20	16.08	H	0.9	8.5	23.74	33.0	-9.3	
	Mid Ch								
	1880.00	18.58	V	0.9	8.5	26.23	33.0	-6.8	
	1880.00	16.89	H	0.9	8.5	24.54	33.0	-8.5	
High Ch									
1909.80	18.63	V	0.9	8.5	26.32	33.0	-6.7		
1909.80	17.11	H	0.9	8.5	24.80	33.0	-8.2		
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 A								
	Company: LG Project #: 15I21237 Date: 7/15/2015 Test Engineer: D. Mun Configuration: Y-pos EUT only Mode: GPRS 1900								
	Test Equipment: Receiving: Horn T136, and Chamber A 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	22.75	V	0.9	8.5	30.41	33.0	-2.6	
	1850.20	19.93	H	0.9	8.5	27.59	33.0	-5.4	
	Mid Ch								
	1880.00	22.82	V	0.9	8.5	30.47	33.0	-2.5	
	1880.00	20.84	H	0.9	8.5	28.49	33.0	-4.5	
High Ch									
1909.80	22.67	V	0.9	8.5	30.36	33.0	-2.6		
1909.80	20.82	H	0.9	8.5	28.51	33.0	-4.5		
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 #: 15I21237 Date: 7/14/2015 Test Engineer: D. Mun Configuration: X-pos EUT only Mode: EGPRS 850								
	Test Equipment: Receiving: Horn T136, and Chamber A 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								
	824.20	20.58	V	0.9		19.73	38.5	-18.8	
	824.20	25.30	H	0.9		24.45	38.5	-14.1	
	Mid Ch								
	836.60	20.98	V	0.9		20.13	38.5	-18.4	
	836.60	25.20	H	0.9		24.35	38.5	-14.2	
High Ch									
848.80	20.68	V	0.9		19.83	38.5	-18.7		
848.80	25.23	H	0.9		24.38	38.5	-14.1		
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 #: 15I21237 Date: 7/14/2015 Test Engineer: D. Mun Configuration: X-pos EUT only Mode: GPRS 850								
	Test Equipment: Receiving: Horn T136, and Chamber A 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								
	824.20	21.60	V	0.9		20.75	38.5	-17.8	
	824.20	30.30	H	0.9		29.45	38.5	-9.1	
	Mid Ch								
	836.60	22.00	V	0.9		21.15	38.5	-17.4	
	836.60	30.20	H	0.9		29.35	38.5	-9.2	
High Ch									
848.80	21.68	V	0.9		20.83	38.5	-17.7		
848.80	30.00	H	0.9		29.15	38.5	-9.4		
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 A								
	Company: LG Project #: 15I21237 Date: 07/14/15 Test Engineer: D. Mun Configuration: EUT Y-Position Only Mode: WCDMA B2 HSDPA								
	Test Equipment: Receiving: Horn T136, and Chamber A 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	17.73	V	0.9	8.5	25.39	33.0	-7.6	
	1852.40	12.50	H	0.9	8.5	20.16	33.0	-12.8	
	Mid Ch								
	1880.00	16.37	V	0.9	8.5	24.02	33.0	-9.0	
	1880.00	12.10	H	0.9	8.5	19.75	33.0	-13.3	
High Ch									
1907.60	15.46	V	0.9	8.5	23.15	33.0	-9.9		
1907.60	11.30	H	0.9	8.5	18.99	33.0	-14.0		
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 A								
	Company: LG Project #: 15I21237 Date: 07/14/15 Test Engineer: D. Mun Configuration: EUT Y-Position Only Mode: WCDMA B2 REL. 99								
	Test Equipment: Receiving: Horn T136, and Chamber A 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	18.50	V	0.9	8.5	26.16	33.0	-6.8	
	1852.40	12.10	H	0.9	8.5	19.76	33.0	-13.2	
	Mid Ch								
	1880.00	17.65	V	0.9	8.5	25.30	33.0	-7.7	
	1880.00	13.28	H	0.9	8.5	20.93	33.0	-12.1	
High Ch									
1907.60	16.55	V	0.9	8.5	24.24	33.0	-8.8		
1907.60	12.30	H	0.9	8.5	19.99	33.0	-13.0		
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 A								
	Company: LG Project #: 15I21237 Date: 7/24/2015 Test Engineer: Jude Semana Configuration: EUT Y-Position Only Mode: WCDMA B4 HSDPA								
	Test Equipment: Receiving: Horn T136, and Chamber A 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	14.10	V	0.9	6.2	19.45	33.0	-13.6	
	1712.40	14.76	H	0.9	6.2	20.11	33.0	-12.9	
	Mid Ch								
	1732.60	13.90	V	0.9	6.2	19.25	33.0	-13.8	
	1732.60	14.75	H	0.9	6.2	20.10	33.0	-12.9	
High Ch									
1752.60	13.60	V	0.9	6.2	18.95	33.0	-14.1		
1752.60	14.30	H	0.9	6.2	19.65	33.0	-13.4		
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 A								
	Company: LG Project #: 15I21237 Date: 07/24/15 Test Engineer: Jude Semana Configuration: EUT Y-Position Only Mode: WCDMA B4 REL. 99								
	Test Equipment: Receiving: Horn T136, and Chamber A 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	15.20	V	0.9	6.2	20.55	33.0	-12.5	
	1712.40	16.36	H	0.9	6.2	21.71	33.0	-11.3	
	Mid Ch								
	1732.60	16.05	V	0.9	6.2	21.40	33.0	-11.6	
	1732.60	16.30	H	0.9	6.2	21.65	33.0	-11.4	
High Ch									
1752.60	14.70	V	0.9	6.2	20.05	33.0	-13.0		
1752.60	15.90	H	0.9	6.2	21.25	33.0	-11.8		
Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm									

LTE Band 2

Band LTE2 20MHz 16QAM	High Frequency Substitution Measurement UL Verification Services, Inc. Chamber A								
	Company: LG Project #: 15I21237 Date: 07/14/15 Test Engineer: D. Mun Configuration: EUT Y-Position Only Mode: LTE_16QAM Band 2 Fundamental, 20 MHz Bandwidth								
	Test Equipment: Receiving: Horn T136, and Chamber A 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	17.60	V	0.9	8.5	25.26	33.0	-7.7	
	1860.00	15.10	H	0.9	8.5	22.76	33.0	-10.2	
	Mid Ch								
	1880.00	17.10	V	0.9	8.5	24.75	33.0	-8.3	
	1880.00	15.20	H	0.9	8.5	22.85	33.0	-10.2	
High Ch									
1900.00	16.90	V	0.9	8.5	24.59	33.0	-8.4		
1900.00	15.10	H	0.9	8.5	22.79	33.0	-10.2		
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 A								
	Company: LG Project #: 15I21237 Date: 07/14/15 Test Engineer: D. Mun Configuration: EUT Y-Position Only Mode: LTE_QPSK Band 2 Fundamental, 20 MHz Bandwidth								
	Test Equipment: Receiving: Horn T136, and Chamber A 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	18.10	V	0.9	8.5	25.76	33.0	-7.2	
	1860.00	15.30	H	0.9	8.5	22.96	33.0	-10.0	
	Mid Ch								
	1880.00	18.11	V	0.9	8.5	25.76	33.0	-7.2	
	1880.00	16.40	H	0.9	8.5	24.05	33.0	-9.0	
High Ch									
1900.00	18.10	V	0.9	8.5	25.79	33.0	-7.2		
1900.00	16.30	H	0.9	8.5	23.99	33.0	-9.0		
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 A								
	Company: LG								
	Project #: 15I21237								
	Date: 07/14/15								
	Test Engineer: D. Mun								
	Configuration: EUT Y-Position Only								
	Mode: LTE_16QAM Band 2 Fundamental, 15 MHz Bandwidth								
	Test Equipment:								
	Receiving: Horn T136, and Chamber A 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	17.30	V	0.9	8.5	24.96	33.0	-8.0	
	1857.50	14.50	H	0.9	8.5	22.16	33.0	-10.8	
	Mid Ch								
	1880.00	16.90	V	0.9	8.5	24.55	33.0	-8.5	
	1880.00	15.00	H	0.9	8.5	22.65	33.0	-10.4	
	High Ch								
	1902.50	17.00	V	0.9	8.5	24.69	33.0	-8.3	
	1902.50	15.20	H	0.9	8.5	22.89	33.0	-10.1	
	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 A								
	Company: LG Project #: 15I21237 Date: 07/14/15 Test Engineer: D. Mun Configuration: EUT Y-Position Only Mode: LTE_QPSK Band 2 Fundamental, 15 MHz Bandwidth								
	Test Equipment:								
	Receiving: Horn T136, and Chamber A 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	18.60	V	0.9	8.5	26.26	33.0	-6.7	
	1857.50	15.80	H	0.9	8.5	23.46	33.0	-9.5	
	Mid Ch								
1880.00	18.20	V	0.9	8.5	25.85	33.0	-7.2		
1880.00	16.30	H	0.9	8.5	23.95	33.0	-9.1		
High Ch									
1902.50	18.20	V	0.9	8.5	25.89	33.0	-7.1		
1902.50	16.40	H	0.9	8.5	24.09	33.0	-8.9		
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 A								
	Company: LG								
	Project #: 15I21237								
	Date: 07/14/15								
	Test Engineer: D. Mun								
	Configuration: EUT Y-Position Only								
	Mode: LTE_16QAM Band 2 Fundamental, 10 MHz Bandwidth								
	Test Equipment:								
	Receiving: Horn T136, and Chamber A 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	17.00	V	0.9	8.5	24.66	33.0	-8.3	
	1855.00	14.20	H	0.9	8.5	21.86	33.0	-11.1	
	Mid Ch								
	1880.00	16.60	V	0.9	8.5	24.25	33.0	-8.8	
	1880.00	14.70	H	0.9	8.5	22.35	33.0	-10.7	
	High Ch								
	1905.00	16.90	V	0.9	8.5	24.59	33.0	-8.4	
	1905.00	15.10	H	0.9	8.5	22.79	33.0	-10.2	
	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 A								
	Company: LG Project #: 15I21237 Date: 07/14/15 Test Engineer: D. Mun Configuration: EUT Y-Position Only Mode: LTE_QPSK Band 2 Fundamental, 10 MHz Bandwidth								
	Test Equipment: Receiving: Horn T136, and Chamber A 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	18.00	V	0.9	8.5	25.66	33.0	-7.3	
	1855.00	14.40	H	0.9	8.5	22.06	33.0	-10.9	
	Mid Ch								
	1880.00	17.80	V	0.9	8.5	25.45	33.0	-7.6	
	1880.00	15.90	H	0.9	8.5	23.55	33.0	-9.5	
High Ch									
1905.00	18.10	V	0.9	8.5	25.79	33.0	-7.2		
1905.00	16.40	H	0.9	8.5	24.09	33.0	-8.9		
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 A																																																																																																	
	Company: LG																																																																																																	
	Project #: 15I21237																																																																																																	
	Date: 07/14/15																																																																																																	
	Test Engineer: D. Mun																																																																																																	
	Configuration: EUT Y-Position Only																																																																																																	
	Mode: LTE_16QAM Band 2 Fundamental, 5 MHz Bandwidth																																																																																																	
	Test Equipment:																																																																																																	
	Receiving: Horn T136, and Chamber A SMA Cables																																																																																																	
	Substitution: Horn T59 Substitution, T1096 SMA Cable Warehouse																																																																																																	
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Band LTE2 5MHz QPSK	High Frequency Substitution Measurement UL Verification Services, Inc. Chamber A								
	Company: LG Project #: 15I21237 Date: 07/14/15 Test Engineer: D. Mun Configuration: EUT Y-Position Only Mode: LTE_QPSK Band 2 Fundamental, 5 MHz Bandwidth								
	Test Equipment: Receiving: Horn T136, and Chamber A 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	17.74	V	0.9	8.5	25.40	33.0	-7.6	
	1852.50	14.50	H	0.9	8.5	22.16	33.0	-10.8	
	Mid Ch								
	1880.00	17.50	V	0.9	8.5	25.15	33.0	-7.9	
	1880.00	15.60	H	0.9	8.5	23.25	33.0	-9.8	
High Ch									
1907.50	17.50	V	0.9	8.5	25.19	33.0	-7.8		
1907.50	15.70	H	0.9	8.5	23.39	33.0	-9.6		
Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm									

Band LTE2 3MHz 16QAM	High Frequency Substitution Measurement UL Verification Services, Inc. Chamber A																																																																																																	
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Band LTE2 3MHz QPSK	High Frequency Substitution Measurement UL Verification Services, Inc. Chamber A								
	Company: LG Project #: 15I21237 Date: 07/14/15 Test Engineer: D. Mun Configuration: EUT Y-Position Only Mode: LTE_QPSK Band 2 Fundamental, 3 MHz Bandwidth								
	Test Equipment: Receiving: Horn T136, and Chamber A 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								
	1851.50	17.80	V	0.9	8.5	25.46	33.0	-7.5	
	1851.50	14.10	H	0.9	8.5	21.76	33.0	-11.2	
	Mid Ch								
	1880.00	17.50	V	0.9	8.5	25.15	33.0	-7.9	
	1880.00	14.90	H	0.9	8.5	22.55	33.0	-10.5	
High Ch									
1908.50	17.90	V	0.9	8.5	25.59	33.0	-7.4		
1908.50	15.10	H	0.9	8.5	22.79	33.0	-10.2		
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 A																																																																																																	
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Note: For Band 4 EIRP limit is 30dBm																																																																																																		

Band LTE2 1.4MHz QPSK	High Frequency Substitution Measurement UL Verification Services, Inc. Chamber A								
	Company: LG Project #: 15I21237 Date: 07/14/15 Test Engineer: D. Mun Configuration: EUT Y-Position Only Mode: LTE_QPSK Band 2 Fundamental, 1.4 MHz Bandwidth								
	Test Equipment: Receiving: Horn T136, and Chamber A 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	16.80	V	0.9	8.5	24.46	33.0	-8.5	
	1850.70	14.00	H	0.9	8.5	21.66	33.0	-11.3	
	Mid Ch								
	1880.00	16.60	V	0.9	8.5	24.25	33.0	-8.8	
	1880.00	14.70	H	0.9	8.5	22.35	33.0	-10.7	
High Ch									
1909.30	17.00	V	0.9	8.5	24.69	33.0	-8.3		
1909.30	15.20	H	0.9	8.5	22.89	33.0	-10.1		
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 #:		15I21237																																																																																															
	Date:		7/21/2015																																																																																															
	Test Engineer:		A. Escamilla																																																																																															
	Configuration:		Y-Pos, 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																																																																																															
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Band LTE4 15MHz QPSK	High Frequency Substitution Measurement UL Verification Services, Inc.																																																																																																	
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