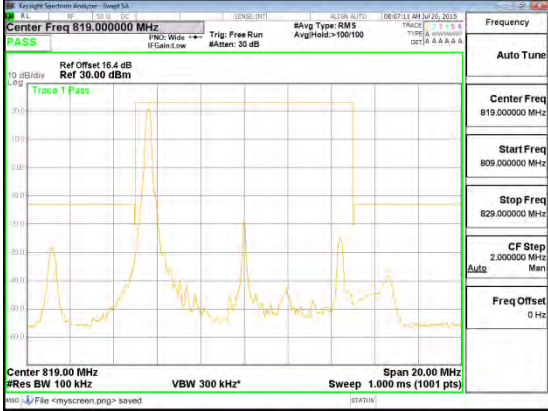
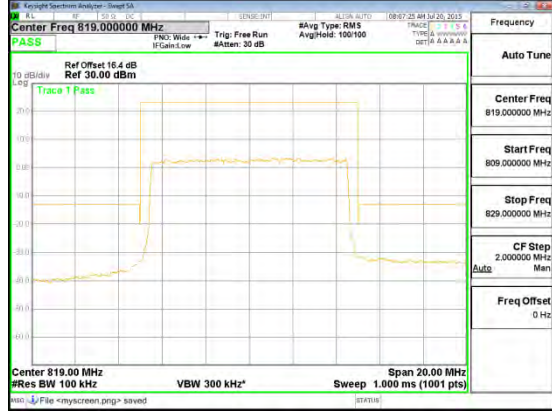
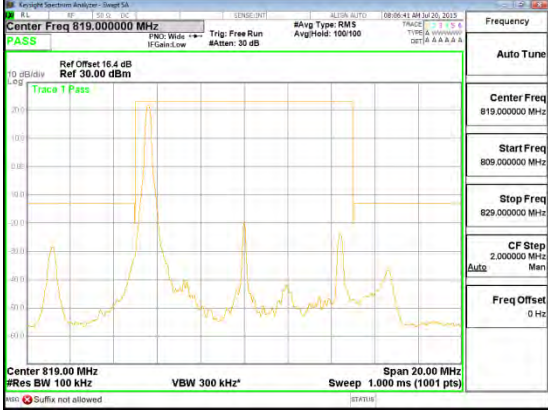
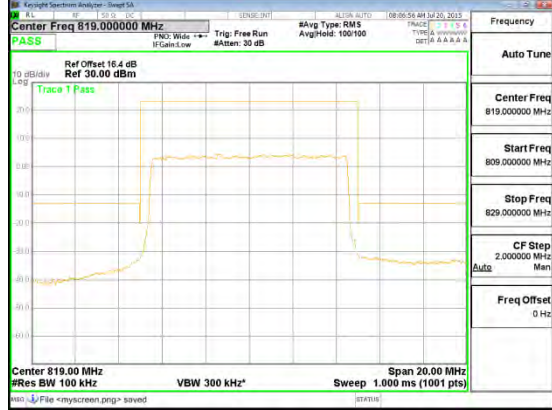
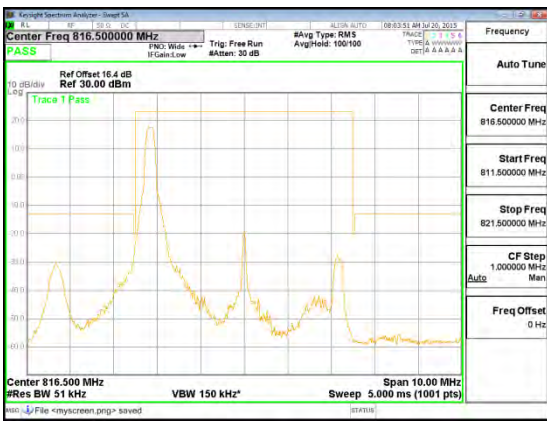

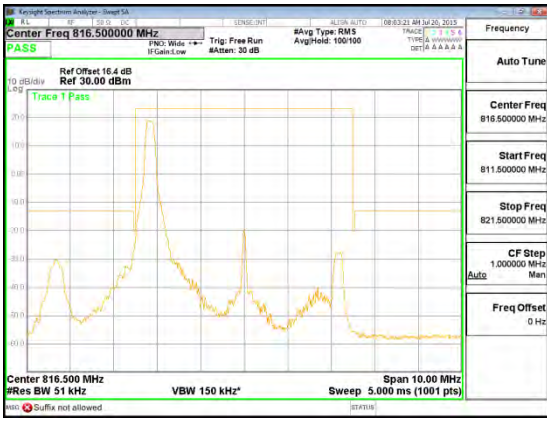
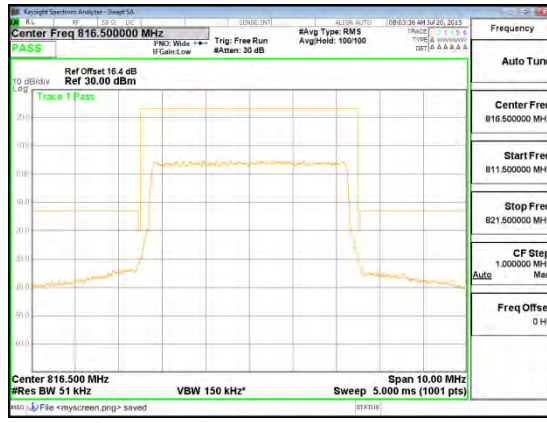
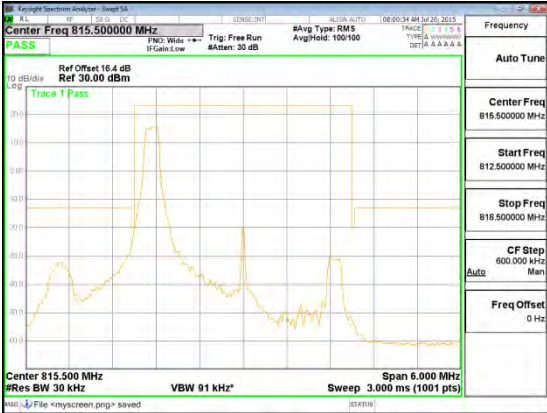
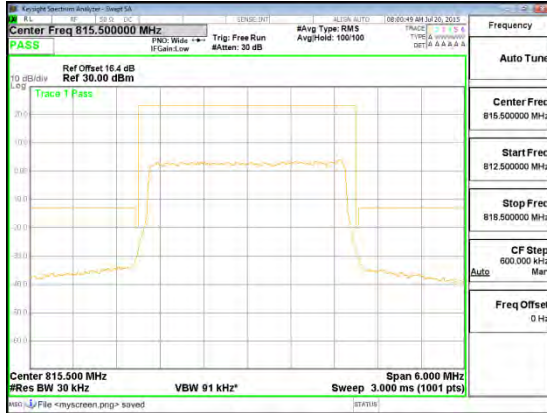
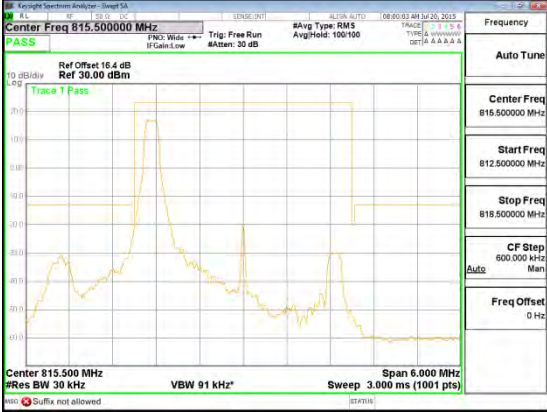
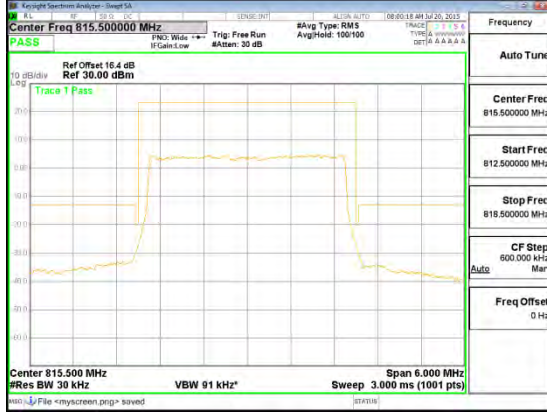
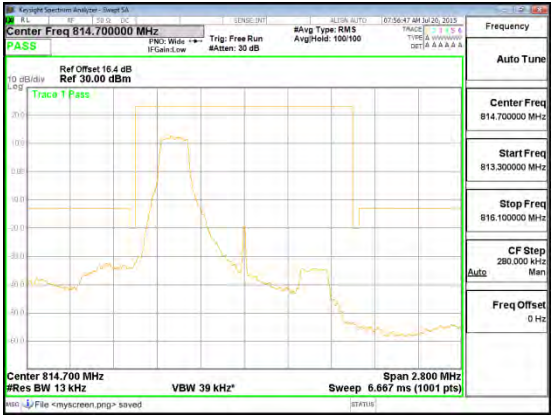
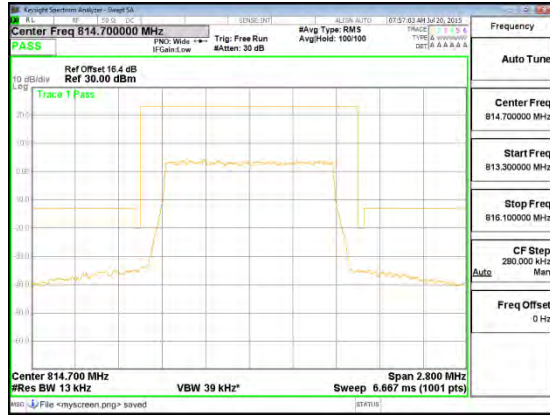
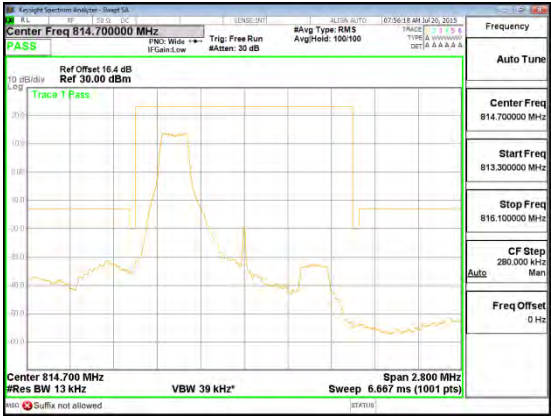
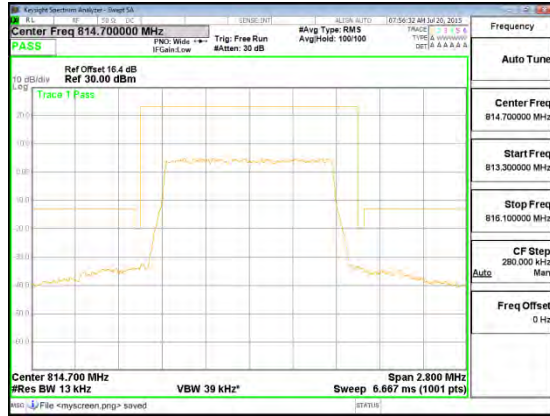


LTE Band 26

<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>

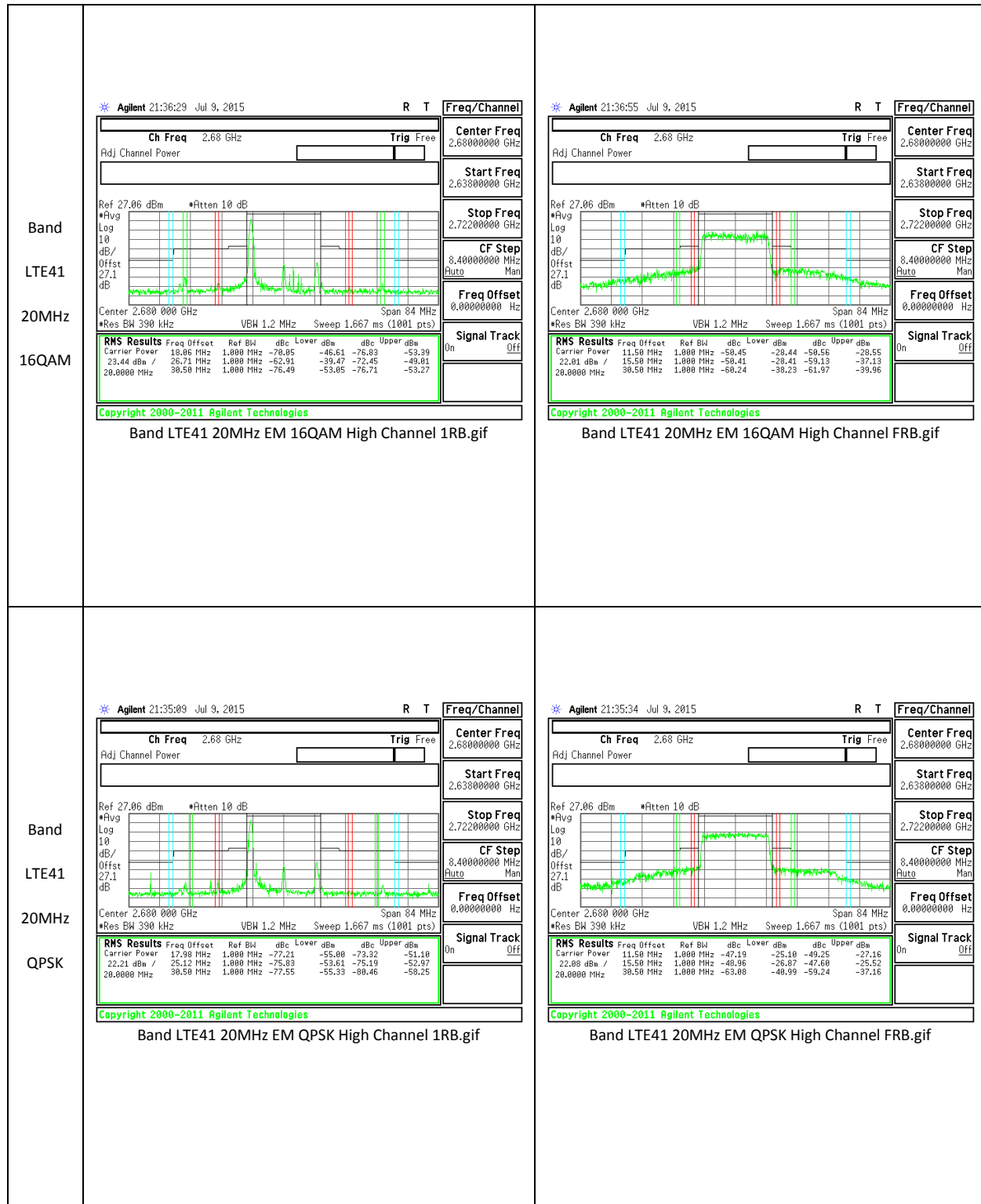
<p>Band LTE26 5MHz 16QAM</p>	 <p>Band LTE26 5MHz EM 16QAM Low Channel 1RB.gif</p>	 <p>Band LTE26 5MHz EM 16QAM Low Channel FRB.gif</p>
<p>Band LTE26 5MHz QPSK</p>	 <p>Band LTE26 5MHz EM QPSK Low Channel 1RB.gif</p>	 <p>Band LTE26 5MHz EM QPSK Low Channel FRB.gif</p>

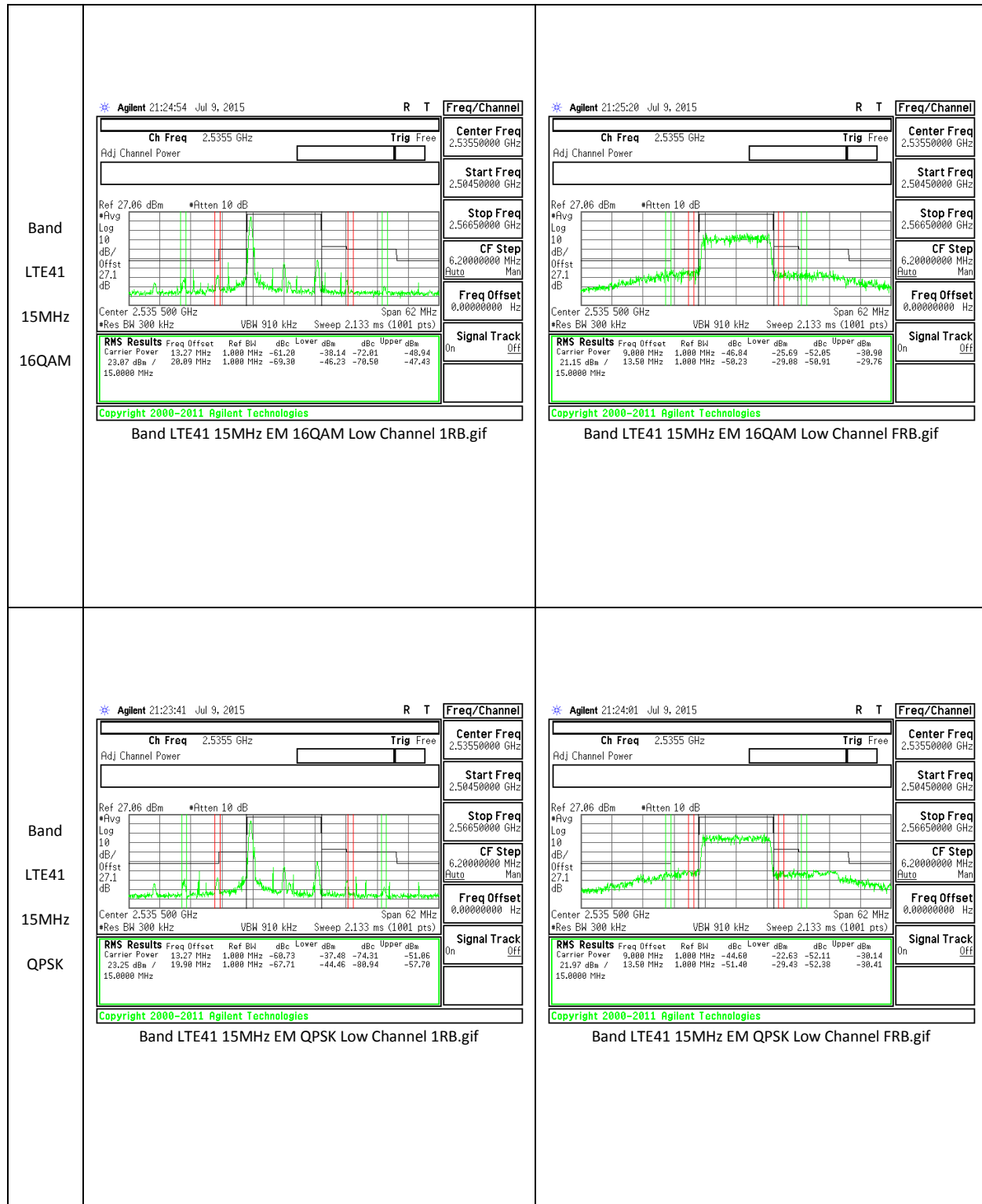
<p>Band LTE26 3MHz 16QAM</p>	 <p>Band LTE26 3MHz EM 16QAM Low Channel 1RB.gif</p>	 <p>Band LTE26 3MHz EM 16QAM Low Channel FRB.gif</p>
<p>Band LTE26 3MHz QPSK</p>	 <p>Band LTE26 5MHz EM QPSK Low Channel 1RB.gif</p>	 <p>Band LTE26 3MHz EM QPSK Low Channel FRB.gif</p>

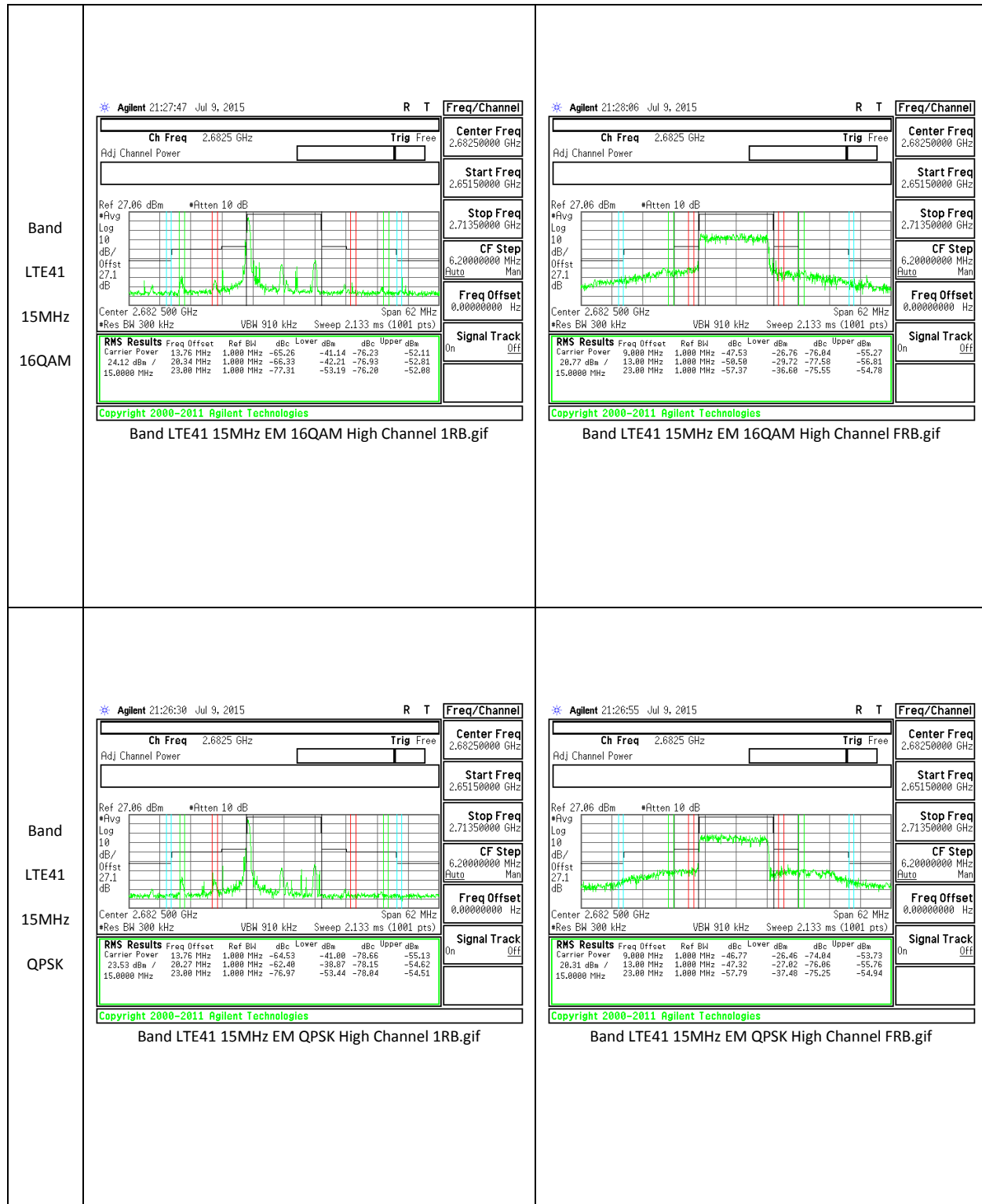
<p>Band LTE26 1.4MHz 16QAM</p>	 <p>Center Freq 814.700000 MHz Ref Offset 16.4 dB Ref 30.00 dBm Trace T Pass Center Freq 814.700000 MHz Start Freq 813.300000 MHz Stop Freq 816.100000 MHz CF Step 280.000 kHz Freq Offset 0 Hz Center 814.700 MHz Res BW 13 kHz VBW 39 kHz Sweep 6.667 ms (1001 pts) Span 2.800 MHz</p> <p>Band LTE26 1.4MHz EM 16QAM Low Channel 1RB.gif</p>	 <p>Center Freq 814.700000 MHz Ref Offset 16.4 dB Ref 30.00 dBm Trace T Pass Center Freq 814.700000 MHz Start Freq 813.300000 MHz Stop Freq 816.100000 MHz CF Step 280.000 kHz Freq Offset 0 Hz Center 814.700 MHz Res BW 13 kHz VBW 39 kHz Sweep 6.667 ms (1001 pts) Span 2.800 MHz</p> <p>Band LTE26 1.4MHz EM 16QAM Low Channel FRB.gif</p>
<p>Band LTE26 1.4MHz QPSK</p>	 <p>Center Freq 814.700000 MHz Ref Offset 16.4 dB Ref 30.00 dBm Trace T Pass Center Freq 814.700000 MHz Start Freq 813.300000 MHz Stop Freq 816.100000 MHz CF Step 280.000 kHz Freq Offset 0 Hz Center 814.700 MHz Res BW 13 kHz VBW 39 kHz Sweep 6.667 ms (1001 pts) Span 2.800 MHz</p> <p>Band LTE26 1.4MHz EM QPSK Low Channel 1RB.gif</p>	 <p>Center Freq 814.700000 MHz Ref Offset 16.4 dB Ref 30.00 dBm Trace T Pass Center Freq 814.700000 MHz Start Freq 813.300000 MHz Stop Freq 816.100000 MHz CF Step 280.000 kHz Freq Offset 0 Hz Center 814.700 MHz Res BW 13 kHz VBW 39 kHz Sweep 6.667 ms (1001 pts) Span 2.800 MHz</p> <p>Band LTE26 1.4MHz EM QPSK Low Channel FRB.gif</p>

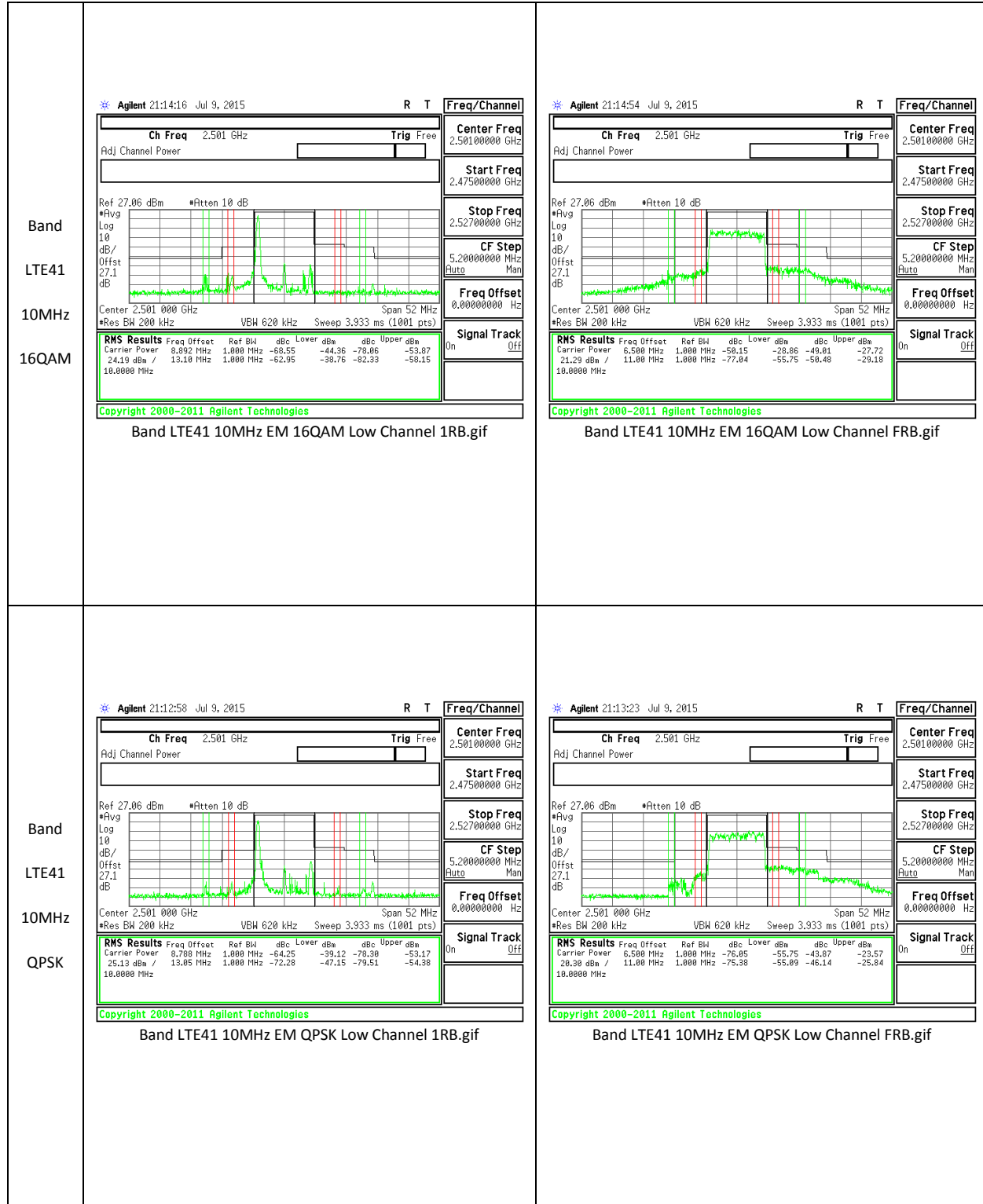
LTE Band 41

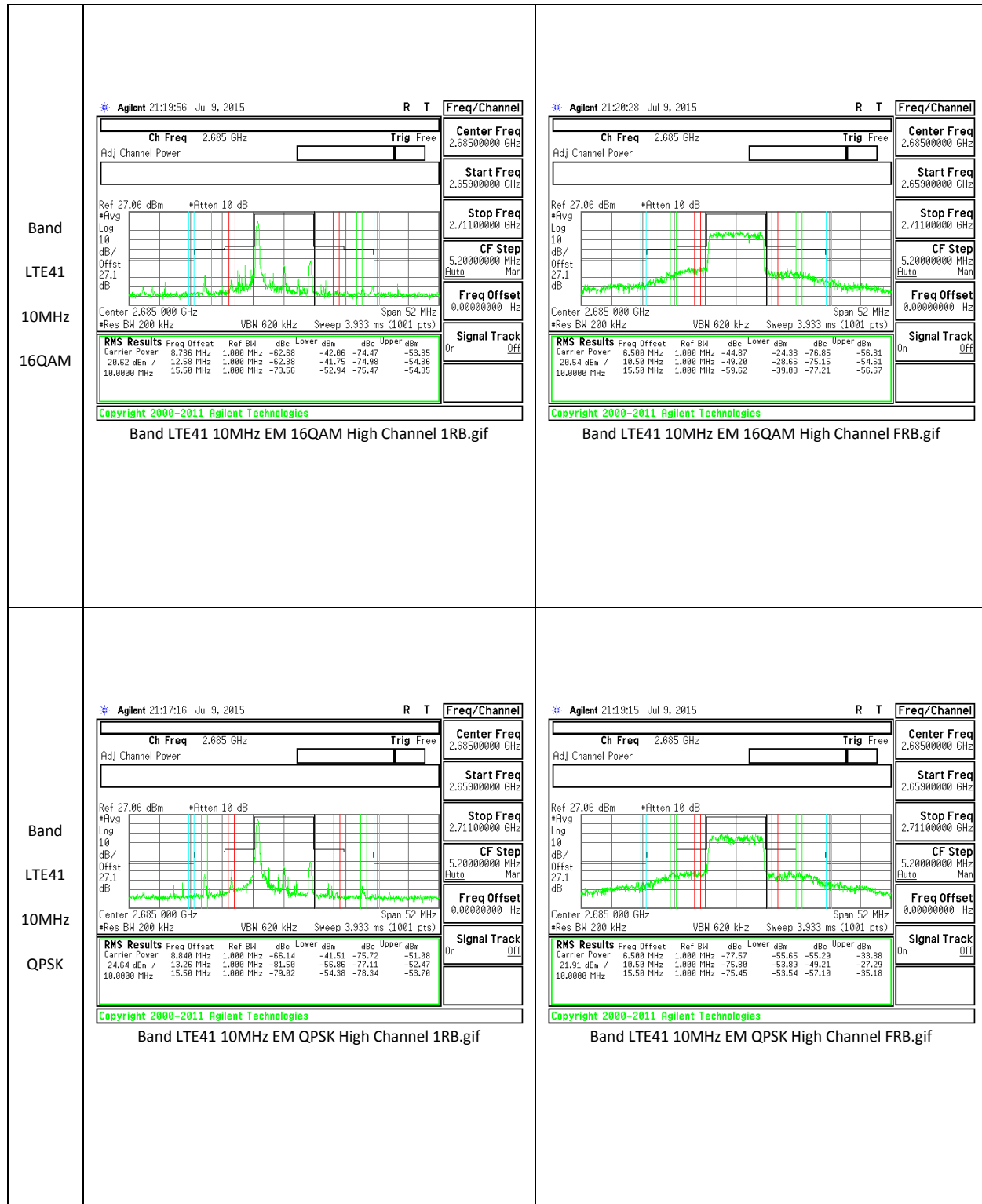
<p>Band LTE41 20MHz 16QAM</p>	<p>Agilent 21:33:43 Jul 9, 2015 R T Freq/Channel</p> <p>Ch Freq 2.506 GHz Trig Free Center Freq 2.50600000 GHz</p> <p>Adj Channel Power Start Freq 2.46400000 GHz</p> <p>Stop Freq 2.54800000 GHz</p> <p>CF Step 8.40000000 MHz Auto Man</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>RMS Results</p> <table border="1"> <thead> <tr> <th>Carrier Power</th> <th>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>20.45 dBm / 16.00 MHz</td> <td>12.00 MHz</td> <td>1.000 MHz</td> <td>-64.69</td> <td>-44.24</td> <td>-75.50</td> <td>-55.06</td> </tr> <tr> <td>20.00000 MHz</td> <td>16.00 MHz</td> <td>1.000 MHz</td> <td>-71.98</td> <td>-51.54</td> <td>-75.40</td> <td>-54.95</td> </tr> </tbody> </table> <p>Copyright 2000-2011 Agilent Technologies</p> <p>Band LTE41 20MHz EM 16QAM Low Channel 1RB.gif</p>	Carrier Power	Freq Offset	Ref BW	dBc	Lower dBm	dBc	Upper dBm	20.45 dBm / 16.00 MHz	12.00 MHz	1.000 MHz	-64.69	-44.24	-75.50	-55.06	20.00000 MHz	16.00 MHz	1.000 MHz	-71.98	-51.54	-75.40	-54.95	<p>Agilent 21:34:08 Jul 9, 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>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>21.36 dBm / 16.00 MHz</td> <td>12.00 MHz</td> <td>1.000 MHz</td> <td>-52.85</td> <td>-31.49</td> <td>-46.87</td> <td>-25.50</td> </tr> <tr> <td>20.00000 MHz</td> <td>16.00 MHz</td> <td>1.000 MHz</td> <td>-53.41</td> <td>-32.05</td> <td>-48.59</td> <td>-27.22</td> </tr> </tbody> </table> <p>Copyright 2000-2011 Agilent Technologies</p> <p>Band LTE41 20MHz EM 16QAM Low Channel FRB.gif</p>	Carrier Power	Freq Offset	Ref BW	dBc	Lower dBm	dBc	Upper dBm	21.36 dBm / 16.00 MHz	12.00 MHz	1.000 MHz	-52.85	-31.49	-46.87	-25.50	20.00000 MHz	16.00 MHz	1.000 MHz	-53.41	-32.05	-48.59	-27.22
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<p>Band LTE41 20MHz QPSK</p>	<p>Agilent 21:30:09 Jul 9, 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>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>22.78 dBm / 16.00 MHz</td> <td>12.00 MHz</td> <td>1.000 MHz</td> <td>-76.90</td> <td>-48.13</td> <td>-74.77</td> <td>-51.99</td> </tr> <tr> <td>20.00000 MHz</td> <td>16.00 MHz</td> <td>1.000 MHz</td> <td>-76.09</td> <td>-53.31</td> <td>-59.96</td> <td>-37.18</td> </tr> </tbody> </table> <p>Copyright 2000-2011 Agilent Technologies</p> <p>Band LTE41 20MHz EM QPSK Low Channel 1RB.gif</p>	Carrier Power	Freq Offset	Ref BW	dBc	Lower dBm	dBc	Upper dBm	22.78 dBm / 16.00 MHz	12.00 MHz	1.000 MHz	-76.90	-48.13	-74.77	-51.99	20.00000 MHz	16.00 MHz	1.000 MHz	-76.09	-53.31	-59.96	-37.18	<p>Agilent 21:31:44 Jul 9, 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>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>21.82 dBm / 16.00 MHz</td> <td>12.00 MHz</td> <td>1.000 MHz</td> <td>-51.29</td> <td>-29.47</td> <td>-50.11</td> <td>-28.29</td> </tr> <tr> <td>20.00000 MHz</td> <td>16.00 MHz</td> <td>1.000 MHz</td> <td>-51.94</td> <td>-30.12</td> <td>-51.14</td> <td>-29.32</td> </tr> </tbody> </table> <p>Copyright 2000-2011 Agilent Technologies</p> <p>Band LTE41 20MHz EM QPSK Low Channel FRB.gif</p>	Carrier Power	Freq Offset	Ref BW	dBc	Lower dBm	dBc	Upper dBm	21.82 dBm / 16.00 MHz	12.00 MHz	1.000 MHz	-51.29	-29.47	-50.11	-28.29	20.00000 MHz	16.00 MHz	1.000 MHz	-51.94	-30.12	-51.14	-29.32
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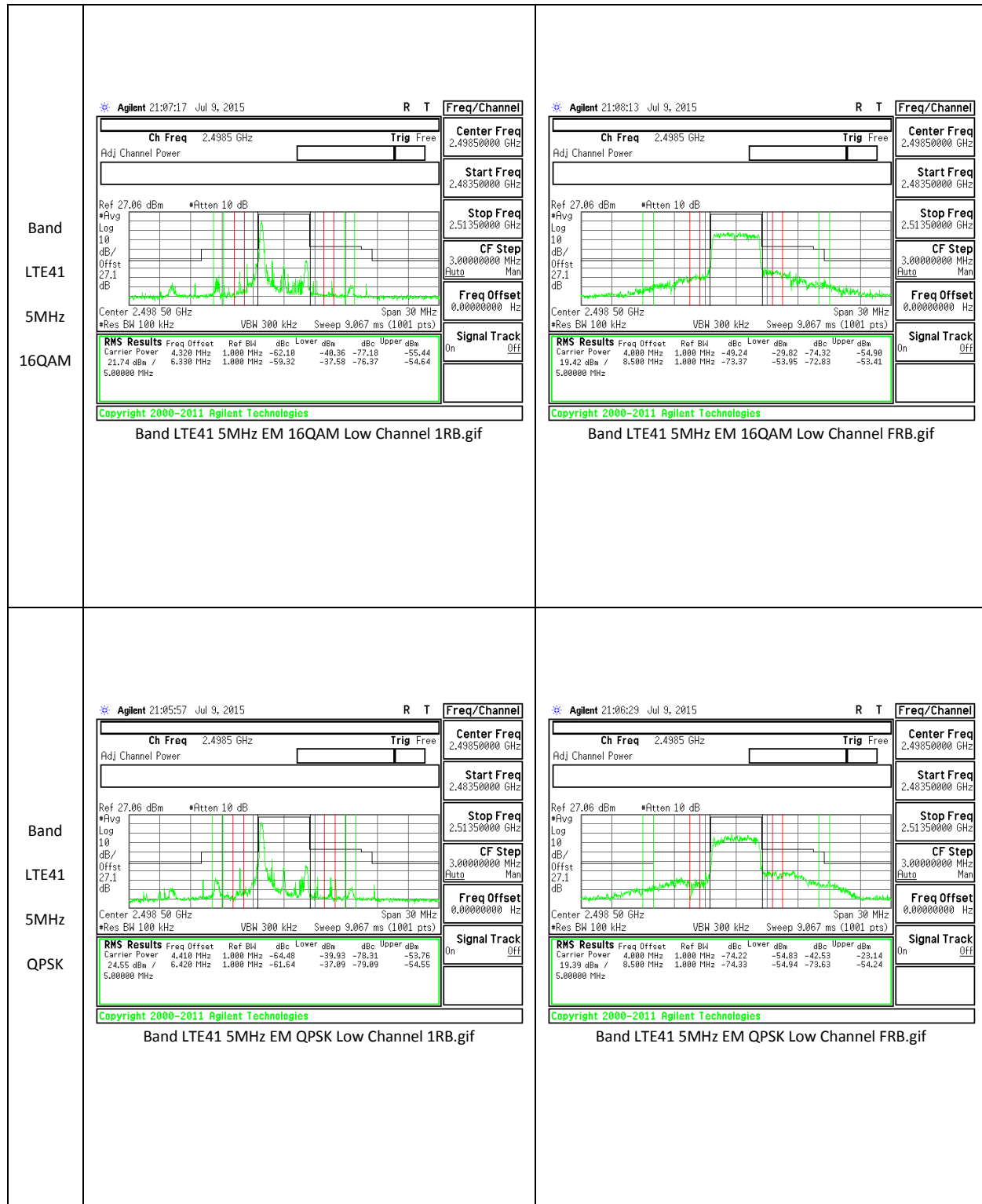


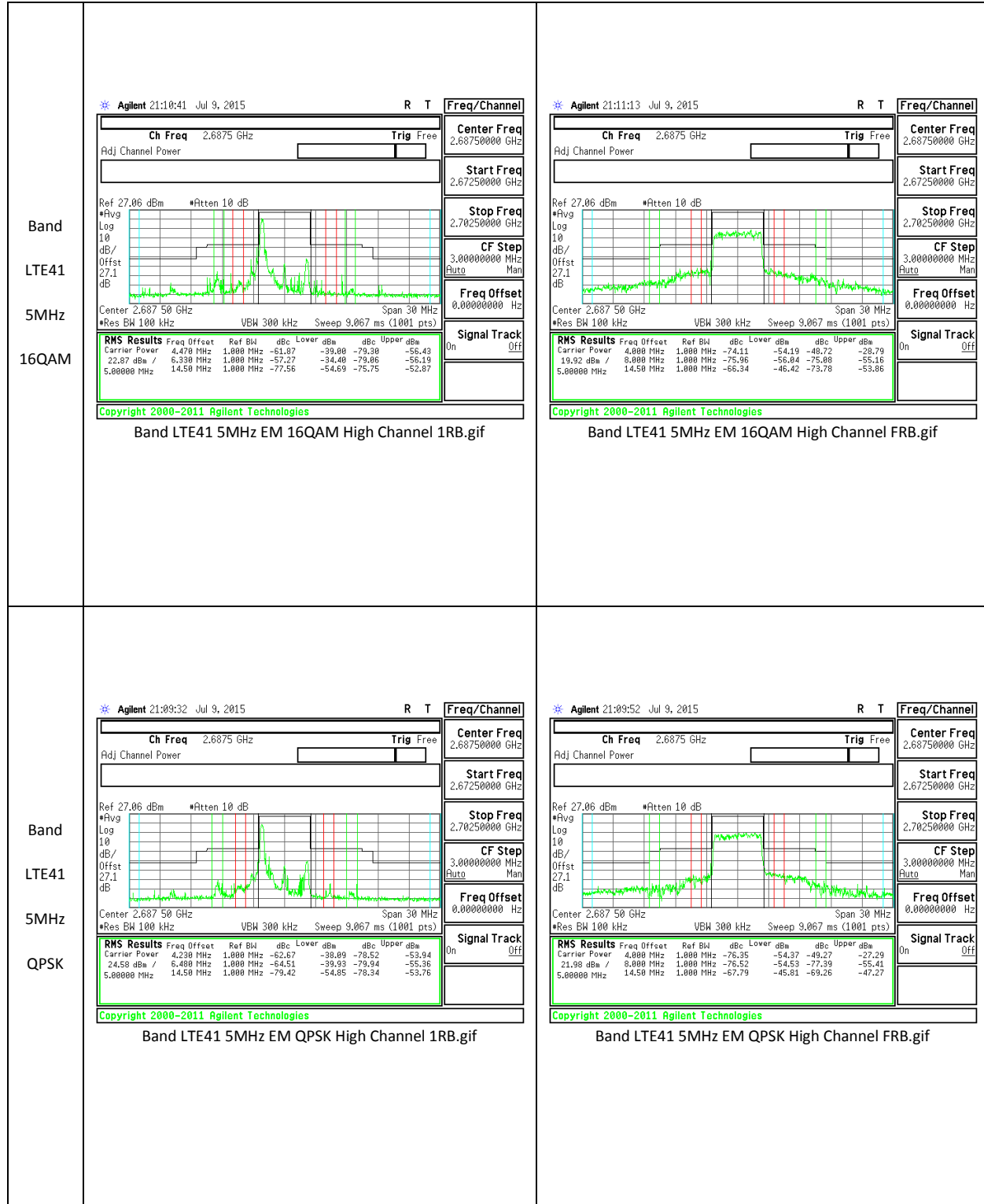












10.3. OUT OF BAND EMISSIONS

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, CDMA, 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	-19.168	-13	-6.168
		836.6	-19.14	-13	-6.14
		848.8	-19.017	-13	-6.017
	EGPRS	824.2	-18.52	-13	-5.52
		836.6	-19.664	-13	-6.664
		848.8	-18.725	-13	-5.725
GSM 1900	GPRS	1850.2	-18.348	-13	-5.348
		1880	-18.723	-13	-5.723
		1909.8	-18.18	-13	-5.18
	EGPRS	1850.2	-19.172	-13	-6.172
		1880	-18.88	-13	-5.88
		1909.8	-18.869	-13	-5.869

WCDMA

Band	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
Band 5	REL99	826.4	-28.175	-13	-15.175
		836.6	-28.345	-13	-15.345
		846.6	-28.462	-13	-15.462
	HSDPA	826.4	-28.563	-13	-15.563
		836.6	-28.933	-13	-15.933
		846.6	-28.668	-13	-15.668
Band 4	REL99	1712.4	-28.504	-13	-15.504
		1732.6	-28.072	-13	-15.072
		1752.6	-28.796	-13	-15.796
	HSDPA	1712.4	-28.361	-13	-15.361
		1732.6	-27.497	-13	-14.497
		1752.6	-28.181	-13	-15.181
Band 2	REL99	1852.4	-25.755	-13	-12.755
		1880	-27.201	-13	-14.201
		1907.6	-28.432	-13	-15.432
	HSDPA	1852.4	-26.551	-13	-13.551
		1880	-26.751	-13	-13.751
		1907.6	-27.646	-13	-14.646

CDMA

Band	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
BC10	1xRTT	817.9	-27.6	-13	-14.6
		820.5	-27.18	-13	-14.18
		823.1	-26.85	-13	-13.85
	EVDO	817.9	-26.51	-13	-13.51
		820.5	-27.22	-13	-14.22
		823.1	-27.22	-13	-14.22
BC0	1xRTT	824.7	-27.932	-13	-14.932
		836.52	-27.012	-13	-14.012
		848.31	-27.64	-13	-14.64
	EVDO	824.7	-24.04	-13	-11.04
		836.52	-23.77	-13	-10.77
		848.31	-23.34	-13	-10.34
BC1	1xRTT	1851.25	-24.451	-13	-11.451
		1880	-25.625	-13	-12.625
		1908.75	-27.716	-13	-14.716
	EVDO	1851.25	-23.13	-13	-10.13
		1880	-23.701	-13	-10.701
		1908.75	-27.15	-13	-14.15

LTE Band 2

Band	BW (MHz)	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
LTE2	20	16QAM	1860	-21.73	-13	-8.73
			1880	-22.69	-13	-9.69
			1900	-21.91	-13	-8.91
		QPSK	1860	-20.906	-13	-7.906
			1880	-21.56	-13	-8.56
			1900	-21.98	-13	-8.98
	15	16QAM	1857.5	-22.632	-13	-9.632
			1880	-22.09	-13	-9.09
			1902.5	-21.062	-13	-8.062
		QPSK	1857.5	-21.924	-13	-8.924
			1880	-21.62	-13	-8.62
			1902.5	-20.857	-13	-7.857
	10	16QAM	1855	-22.434	-13	-9.434
			1880	-22.77	-13	-9.77
			1905	-22.05	-13	-9.05
		QPSK	1855	-22.687	-13	-9.687
			1880	-22.522	-13	-9.522
			1905	-22.57	-13	-9.57
	5	16QAM	1852.5	-22.072	-13	-9.072
			1880	-21.929	-13	-8.929
			1907.5	-22.384	-13	-9.384
		QPSK	1852.5	-22.466	-13	-9.466
			1880	-21.807	-13	-8.807
			1907.5	-22.433	-13	-9.433

Band	BW (MHz)	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
LTE2	3	16QAM	1851.5	-22.253	-13	-9.253
			1880	-21.848	-13	-8.848
			1908.5	-21.525	-13	-8.525
		QPSK	1851.5	-22.322	-13	-9.322
			1880	-22.007	-13	-9.007
			1908.5	-22.132	-13	-9.132
	1.4	16QAM	1850.7	-21.576	-13	-8.576
			1880	-22.362	-13	-9.362
			1909.3	-21.612	-13	-8.612
		QPSK	1850.7	-20.726	-13	-7.726
			1880	-21.735	-13	-8.735
			1909.3	-21.977	-13	-8.977

LTE Band 4

Band	BW (MHz)	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
LTE4	20	16QAM	1720	-21.79	-13	-8.79
			1732.5	-22.29	-13	-9.29
			1745	-22.36	-13	-9.36
		QPSK	1720	-22.01	-13	-9.01
			1732.5	-20.9	-13	-7.9
			1745	-21.84	-13	-8.84
	15	16QAM	1717.5	-22.32	-13	-9.32
			1732.5	-21.27	-13	-8.27
			1747.5	-21.55	-13	-8.55
		QPSK	1717.5	-22.49	-13	-9.49
			1732.5	-21.43	-13	-8.43
			1747.5	-21.83	-13	-8.83
	10	16QAM	1715	-21.994	-13	-8.994
			1732.5	-21.459	-13	-8.459
			1750	-21.722	-13	-8.722
		QPSK	1715	-22.74	-13	-9.74
			1732.5	-22.61	-13	-9.61
			1750	-22.15	-13	-9.15
	5	16QAM	1712.5	-22.021	-13	-9.021
			1732.5	-21.933	-13	-8.933
			1752.5	-22.472	-13	-9.472
QPSK		1712.5	-22.091	-13	-9.091	
		1732.5	-22.322	-13	-9.322	
		1752.5	-22.17	-13	-9.17	

Band	BW (MHz)	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
LTE4	3	16QAM	1711.5	-20.827	-13	-7.827
			1732.5	-21.126	-13	-8.126
			1753.5	-22.244	-13	-9.244
		QPSK	1711.5	-21.762	-13	-8.762
			1732.5	-22.039	-13	-9.039
			1753.5	-22.586	-13	-9.586
	1.4	16QAM	1710.7	-22.079	-13	-9.079
			1732.5	-22.371	-13	-9.371
			1754.3	-22.631	-13	-9.631
		QPSK	1710.7	-22.446	-13	-9.446
			1732.5	-22.211	-13	-9.211
			1754.3	-22.321	-13	-9.321

LTE Band 5

Band	BW (MHz)	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
LTE5	10	16QAM	829	-23.13	-13	-10.13
			836.5	-23.08	-13	-10.08
			844	-22.29	-13	-9.29
		QPSK	829	-22.21	-13	-9.21
			836.5	-22.58	-13	-9.58
			844	-21.95	-13	-8.95
	5	16QAM	826.5	-21.859	-13	-8.859
			836.5	-22.71	-13	-9.71
			846.5	-22.25	-13	-9.25
		QPSK	826.5	-22.38	-13	-9.38
			836.5	-21.746	-13	-8.746
			846.5	-22.93	-13	-9.93
	3	16QAM	825.5	-22.598	-13	-9.598
			836.5	-22.802	-13	-9.802
			847.5	-21.415	-13	-8.415
		QPSK	825.5	-22.283	-13	-9.283
			836.5	-22.482	-13	-9.482
			847.5	-22.404	-13	-9.404
	1.4	16QAM	824.7	-22.234	-13	-9.234
			836.5	-23.233	-13	-10.233
			848.3	-21.02	-13	-8.02
		QPSK	824.7	-22.02	-13	-9.02
			836.5	-22.352	-13	-9.352
			848.3	-22.509	-13	-9.509

LTE Band 7

Band	BW (MHz)	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
LTE7	20	16QAM	2510	-34.124	-25	-9.124
			2535	-34.101	-25	-9.101
			2560	-33.514	-25	-8.514
		QPSK	2510	-34.032	-25	-9.032
			2535	-34.464	-25	-9.464
			2560	-33.712	-25	-8.712
	15	16QAM	2507.5	-33.915	-25	-8.915
			2535	-34.184	-25	-9.184
			2562.5	-34.065	-25	-9.065
		QPSK	2507.5	-33.308	-25	-8.308
			2535	-33.219	-25	-8.219
			2562.5	-33.272	-25	-8.272
	10	16QAM	2505	-33.778	-25	-8.778
			2535	-34.121	-25	-9.121
			2565	-32.837	-25	-7.837
		QPSK	2505	-34.251	-25	-9.251
			2535	-33.876	-25	-8.876
			2565	-34.246	-25	-9.246
	5	16QAM	2502.5	-33.847	-25	-8.847
			2535	-34.392	-25	-9.392
			2567.5	-33.863	-25	-8.863
		QPSK	2502.5	-33.735	-25	-8.735
			2535	-33.86	-25	-8.86
			2567.5	-34.046	-25	-9.046

LTE Band 12

Band	BW (MHz)	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
LTE12	10	16QAM	704	-22.67	-13	-9.67
			707.5	-22.71	-13	-9.71
			711	-22.957	-13	-9.957
		QPSK	704	-22.667	-13	-9.667
			707.5	-22.262	-13	-9.262
			711	-22.159	-13	-9.159
	5	16QAM	701.5	-22.875	-13	-9.875
			707.5	-23.216	-13	-10.216
			713.5	-22.718	-13	-9.718
		QPSK	701.5	-22.274	-13	-9.274
			707.5	-21.895	-13	-8.895
			713.5	-22.54	-13	-9.54
	3	16QAM	700.5	-22.972	-13	-9.972
			707.5	-22.077	-13	-9.077
			714.5	-23.162	-13	-10.162
		QPSK	700.5	-23.213	-13	-10.213
			707.5	-22.403	-13	-9.403
			714.5	-22.559	-13	-9.559
	1.4	16QAM	699.7	-22.67	-13	-9.67
			707.5	-23.161	-13	-10.161
			715.3	-22.303	-13	-9.303
		QPSK	699.7	-21.676	-13	-8.676
			707.5	-22.971	-13	-9.971
			715.3	-22.544	-13	-9.544

LTE Band 13

Band	BW (MHz)	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
LTE13	10	16QAM	782	-22.73	-13	-9.73
			782	-22.73	-13	-9.73
			782	-22.73	-13	-9.73
		QPSK	782	-22.08	-13	-9.08
			782	-22.08	-13	-9.08
			782	-22.08	-13	-9.08
	5	16QAM	779.5	-23.172	-13	-10.172
			785	-22.274	-13	-9.274
			784.5	-22.721	-13	-9.721
		QPSK	779.5	-21.612	-13	-8.612
			785	-22.443	-13	-9.443
			784.5	-22.314	-13	-9.314

LTE Band 17

Band	BW (MHz)	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
LTE17	10	16QAM	709	-28.63	-13	-15.63
			710	-28.45	-13	-15.45
			711	-28.84	-13	-15.84
		QPSK	709	-27.91	-13	-14.91
			710	-28.35	-13	-15.35
			711	-28.63	-13	-15.63
	5	16QAM	706.5	-27.89	-13	-14.89
			710	-28.24	-13	-15.24
			713.5	-28.10	-13	-15.10
		QPSK	706.5	-29.00	-13	-16.00
			710	-28.49	-13	-15.49
			713.5	-27.96	-13	-14.96

LTE Band 25

Band	BW (MHz)	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
LTE25	20	16QAM	1860	-28.5	-13	-15.5
			1882.5	-28.32	-13	-15.32
			1905	-28.45	-13	-15.45
		QPSK	1860	-27.73	-13	-14.73
			1882.5	-27.74	-13	-14.74
			1905	-28.4	-13	-15.4
	15	16QAM	1857.5	-28.05	-13	-15.05
			1882.5	-27.41	-13	-14.41
			1907.5	-27.96	-13	-14.96
		QPSK	1857.5	-28.3	-13	-15.3
			1882.5	-27.03	-13	-14.03
			1907.5	-28.03	-13	-15.03
	10	16QAM	1855	-27.36	-13	-14.36
			1882.5	-28.57	-13	-15.57
			1910	-27.65	-13	-14.65
		QPSK	1855	-28.39	-13	-15.39
			1882.5	-28.26	-13	-15.26
			1910	-27.74	-13	-14.74
	5	16QAM	1852.5	-27.06	-13	-14.06
			1882.5	-28.13	-13	-15.13
			1912.5	-28.39	-13	-15.39
		QPSK	1852.5	-28.27	-13	-15.27
			1882.5	-27.53	-13	-14.53
			1912.5	-27.66	-13	-14.66

Band	BW (MHz)	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
LTE25	3	16QAM	1851.5	-27.93	-13	-14.93
			1882.5	-28.44	-13	-15.44
			1913.5	-27.90	-13	-14.90
		QPSK	1851.5	-27.85	-13	-14.85
			1882.5	-27.89	-13	-14.89
			1913.5	-27.22	-13	-14.22
	1.4	16QAM	1850.7	-27.42	-13	-14.42
			1882.5	-27.65	-13	-14.65
			1914.3	-28.05	-13	-15.05
		QPSK	1850.7	-24.44	-13	-11.44
			1882.5	-28.23	-13	-15.23
			1914.3	-27.56	-13	-14.56

LTE Band 26

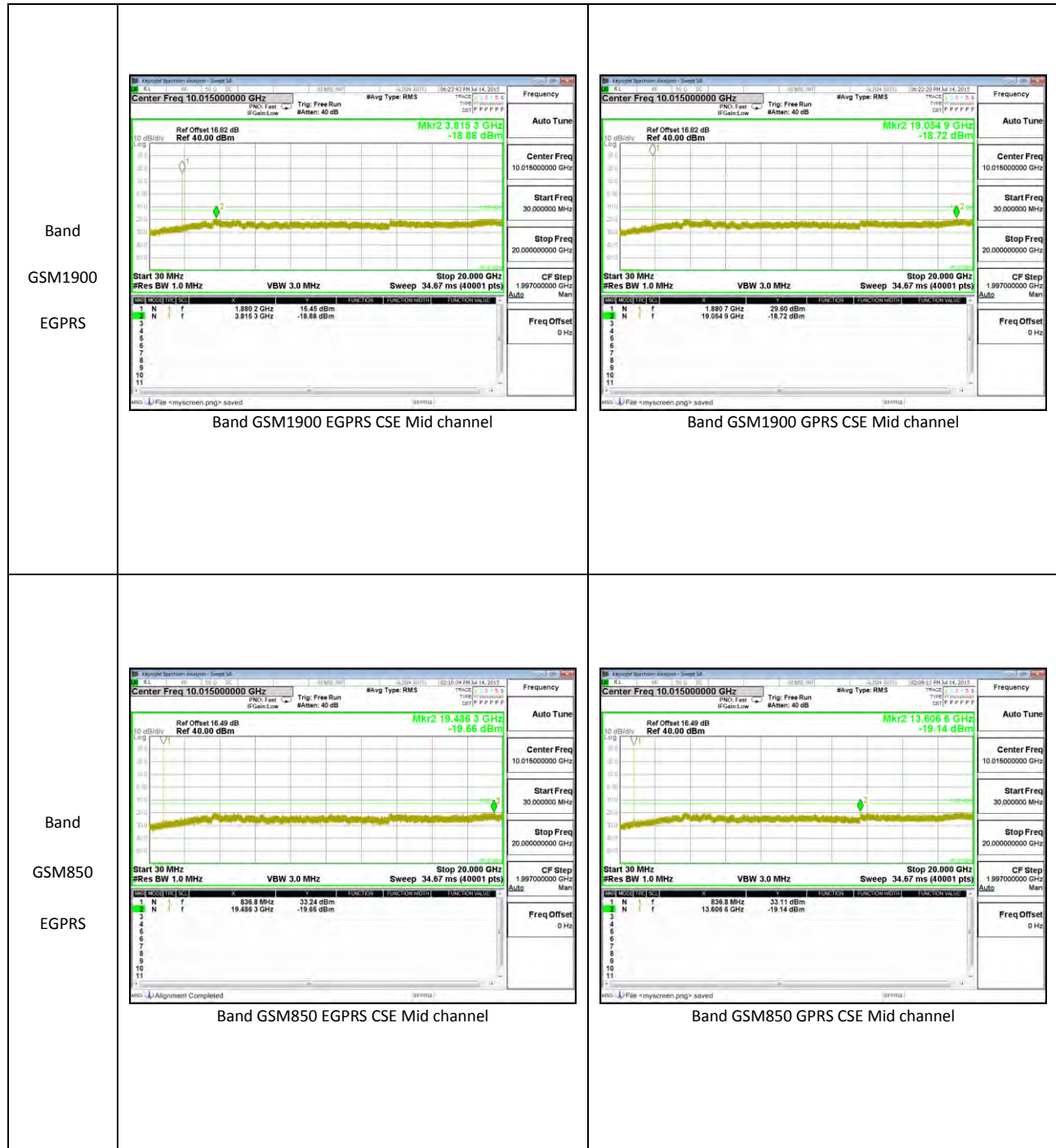
Band	BW (MHz)	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
LTE26	15	16QAM	831.5	-21.60	-13	-8.60
			836.5	-23.96	-13	-10.96
			841.5	-22.53	-13	-9.53
		QPSK	831.5	-22.18	-13	-9.18
			836.5	-24.75	-13	-11.75
			841.5	-22.37	-13	-9.37
	10	16QAM	819	-22.72	-13	-9.72
			831.5	-22.29	-13	-9.29
			844	-22.03	-13	-9.03
		QPSK	819	-22.55	-13	-9.55
			831.5	-22.90	-13	-9.90
			844	-22.17	-13	-9.17
	5	16QAM	816.5	-21.72	-13	-8.72
			831.5	-22.30	-13	-9.30
			846.5	-22.95	-13	-9.95
		QPSK	816.5	-22.48	-13	-9.48
			831.5	-23.30	-13	-10.30
			846.5	-22.74	-13	-9.74
	3	16QAM	815.5	-22.24	-13	-9.24
			831.5	-22.15	-13	-9.15
			847.5	-21.74	-13	-8.74
		QPSK	815.5	-21.85	-13	-8.85
			831.5	-22.57	-13	-9.57
			847.5	-22.65	-13	-9.65
1.4	16QAM	814.7	-22.04	-13	-9.04	
		831.5	-22.57	-13	-9.57	
		848.3	-22.40	-13	-9.40	
	QPSK	814.7	-22.51	-13	-9.51	
		831.5	-22.60	-13	-9.60	
		848.3	-23.15	-13	-10.15	

LTE Band 41


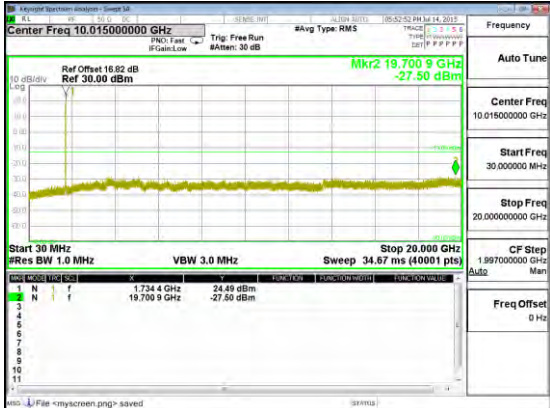
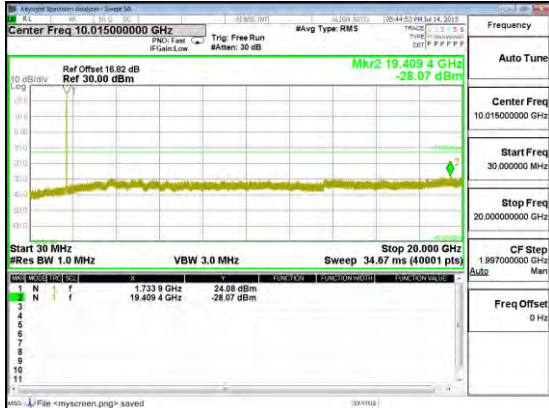
Band	BW (MHz)	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
LTE41	20	16QAM	2506	-33.49	-25	-8.49
			2593	-34.31	-25	-9.31
			2680	-34.01	-25	-9.01
		QPSK	2506	-34.38	-25	-9.38
			2593	-33.85	-25	-8.85
			2680	-33.90	-25	-8.90
	15	16QAM	2503.5	-33.07	-25	-8.07
			2593	-34.10	-25	-9.10
			2682.5	-33.95	-25	-8.95
		QPSK	2503.5	-34.38	-25	-9.38
			2593	-33.74	-25	-8.74
			2682.5	-33.64	-25	-8.64
	10	16QAM	2501	-32.55	-25	-7.55
			2593	-34.57	-25	-9.57
			2685	-33.68	-25	-8.68
		QPSK	2501	-33.54	-25	-8.54
			2593	-33.30	-25	-8.30
			2685	-34.09	-25	-9.09
	5	16QAM	2498.5	-33.94	-25	-8.94
			2593	-33.75	-25	-8.75
			2687.5	-33.67	-25	-8.67
		QPSK	2498.5	-33.32	-25	-8.32
			2593	-33.78	-25	-8.78
			2687.5	-33.18	-25	-8.18

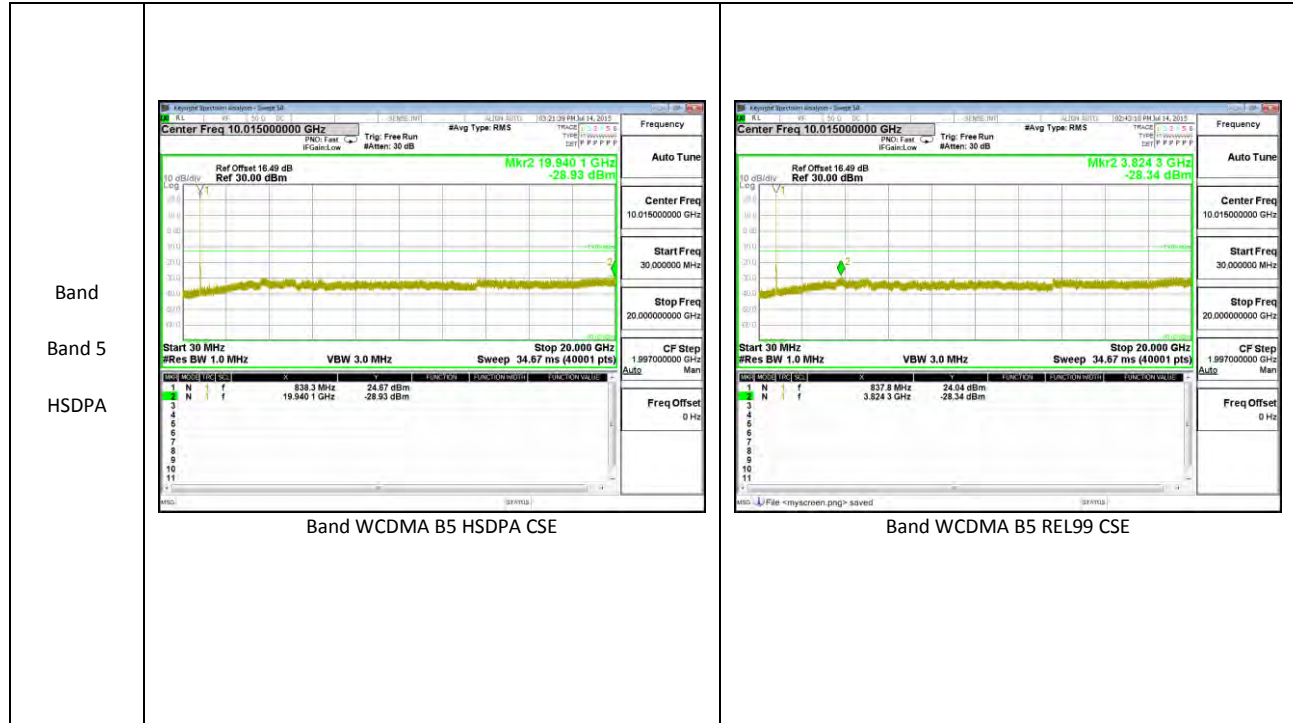
10.3.2. OUT OF BAND EMISSIONS PLOTS

GSM

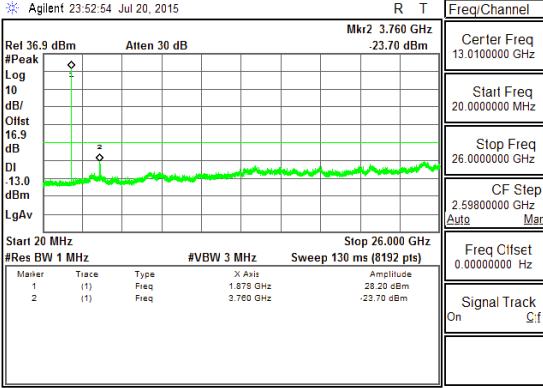

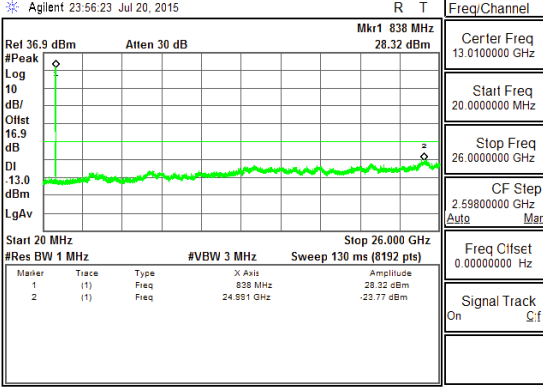



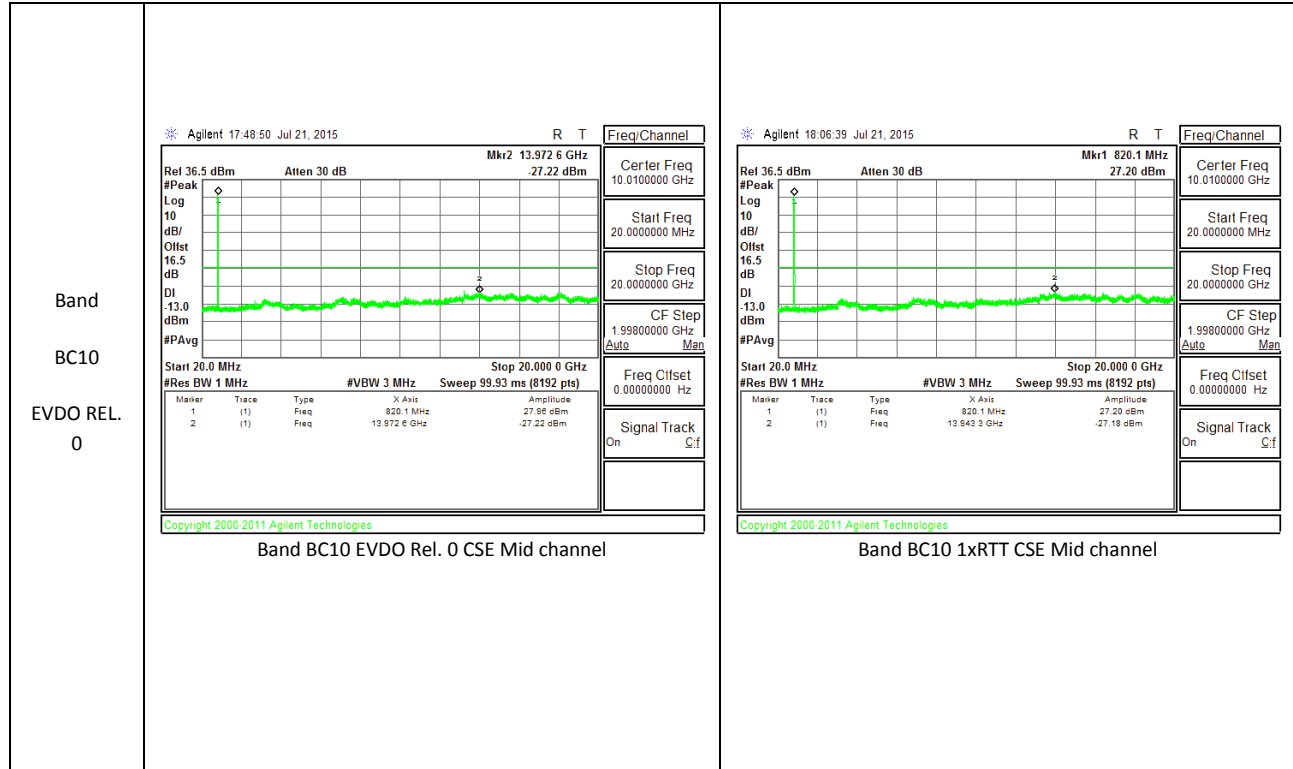
WCDMA

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<p>Band Band 4 HSDPA</p>	 <p style="text-align: center;">Band WCDMA B4 HSDPA CSE</p>	 <p style="text-align: center;">Band WCDMA B4 REL99 CSE</p>



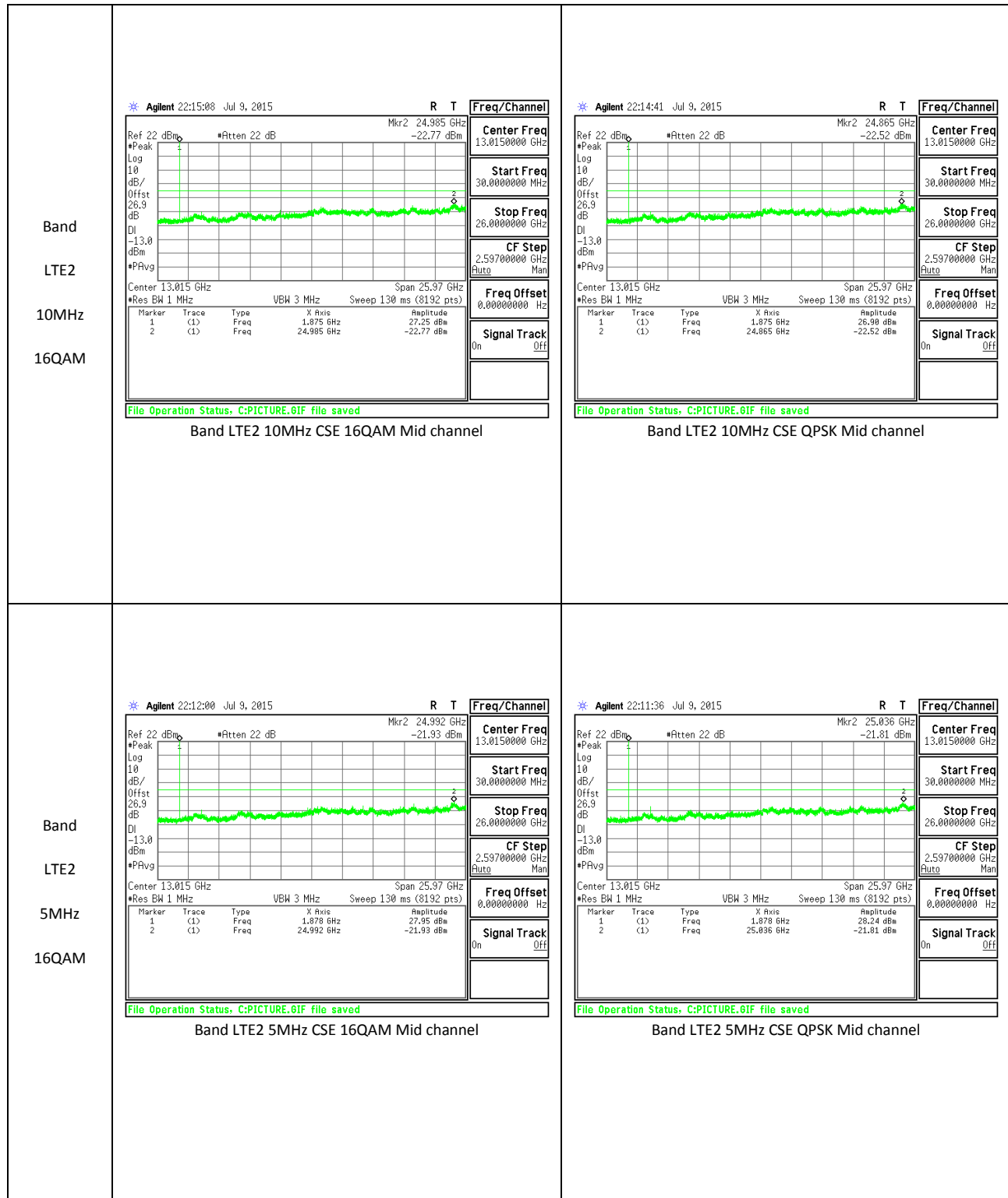
CDMA

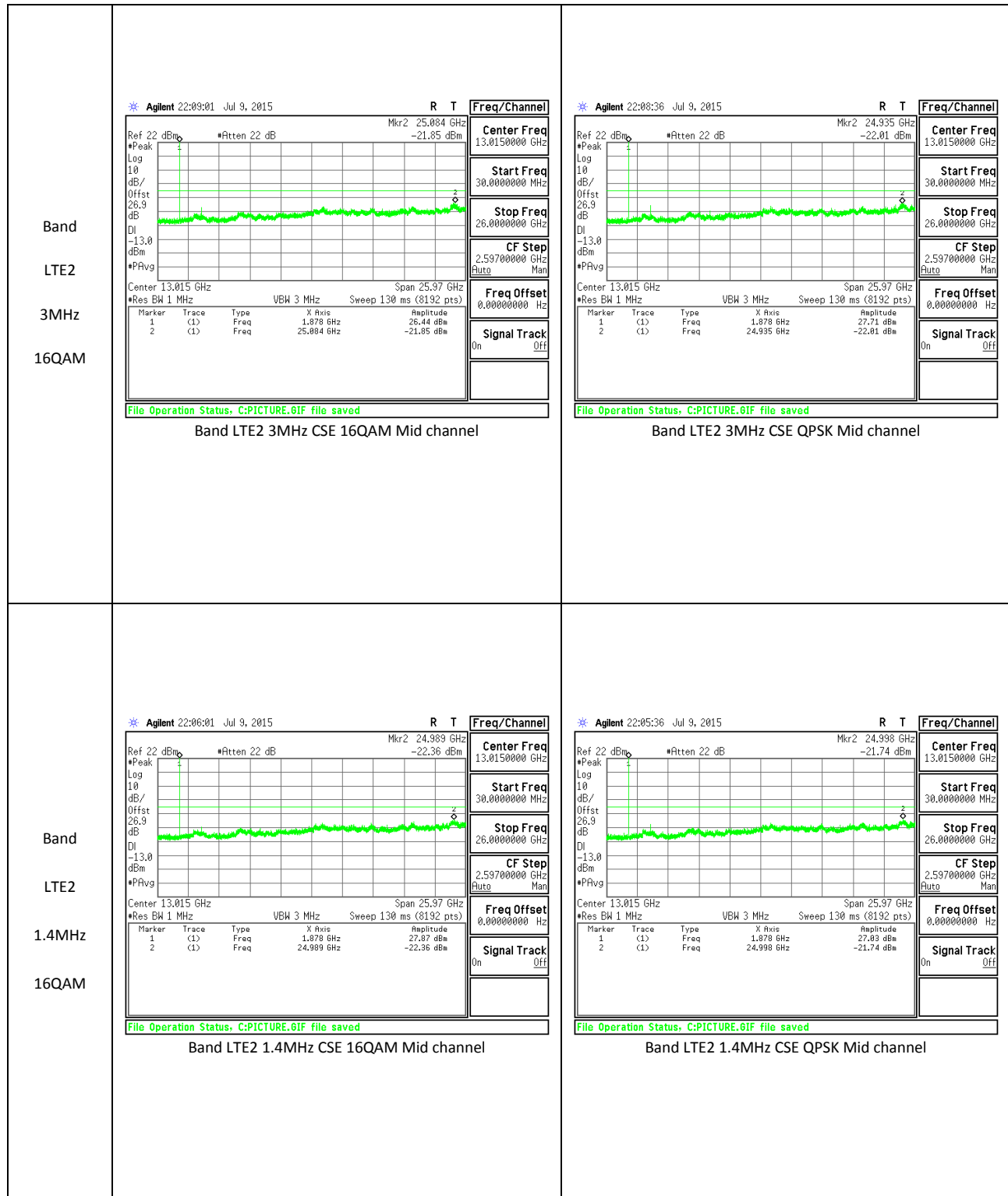
<p>Band BC1 EVDO REL. 0</p>	 <p>Agilent 23:52:54 Jul 20, 2015</p> <p>Ref 36.9 dBm Atten 30 dB Mkr2 3.760 GHz -23.70 dBm</p> <p>Center Freq 13.01000000 GHz</p> <p>Start Freq 20.00000000 GHz</p> <p>Stop Freq 26.00000000 GHz</p> <p>CF Step 2.59800000 GHz</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On</p> <p>Start 20 MHz #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>1</td> <td>(1)</td> <td>Freq</td> <td>1.875 GHz</td> <td>28.20 dBm</td> </tr> <tr> <td>2</td> <td>(1)</td> <td>Freq</td> <td>3.760 GHz</td> <td>-23.70 dBm</td> </tr> </tbody> </table> <p>Copyright 2000-2011 Agilent Technologies</p> <p>Band BC1 EVDO Rel. 0 CSE Mid channel</p>	Marker	Trace	Type	X Axis	Amplitude	1	(1)	Freq	1.875 GHz	28.20 dBm	2	(1)	Freq	3.760 GHz	-23.70 dBm	 <p>Agilent Spectrum Analyzer - Sweep 14</p> <p>Ref Offset 16.9 dB Ref 30.00 dBm</p> <p>Mkr1 1.879 GHz 26.130 dBm</p> <p>Center Freq 13.01000000 GHz</p> <p>Start Freq 20.00000000 GHz</p> <p>Stop Freq 26.00000000 GHz</p> <p>CF Step 2.598000000 GHz</p> <p>Freq Offset 0 Hz</p> <p>Start 20 MHz #Res BW 1.0 MHz VBW 3.0 MHz Sweep 26.67 ms (40001 pts)</p> <table border="1"> <thead> <tr> <th>Marker</th> <th>Type</th> <th>Frequency</th> <th>Amplitude</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>F</td> <td>1.879 GHz</td> <td>26.130 dBm</td> </tr> <tr> <td>2</td> <td>F</td> <td>3.759 GHz</td> <td>-25.825 dBm</td> </tr> </tbody> </table> <p>Band BC1 1xRTT CSE Mid channel</p>	Marker	Type	Frequency	Amplitude	1	F	1.879 GHz	26.130 dBm	2	F	3.759 GHz	-25.825 dBm
Marker	Trace	Type	X Axis	Amplitude																									
1	(1)	Freq	1.875 GHz	28.20 dBm																									
2	(1)	Freq	3.760 GHz	-23.70 dBm																									
Marker	Type	Frequency	Amplitude																										
1	F	1.879 GHz	26.130 dBm																										
2	F	3.759 GHz	-25.825 dBm																										
<p>Band BC0 EVDO REL. 0</p>	 <p>Agilent 23:56:23 Jul 20, 2015</p> <p>Ref 36.9 dBm Atten 30 dB Mkr1 838 MHz 28.32 dBm</p> <p>Center Freq 13.01000000 GHz</p> <p>Start Freq 20.00000000 GHz</p> <p>Stop Freq 26.00000000 GHz</p> <p>CF Step 2.59800000 GHz</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On</p> <p>Start 20 MHz #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>1</td> <td>(1)</td> <td>Freq</td> <td>838 MHz</td> <td>28.32 dBm</td> </tr> <tr> <td>2</td> <td>(1)</td> <td>Freq</td> <td>24.991 GHz</td> <td>-23.77 dBm</td> </tr> </tbody> </table> <p>Copyright 2000-2011 Agilent Technologies</p> <p>Band BC0 EVDO Rel. 0 CSE Mid channel</p>	Marker	Trace	Type	X Axis	Amplitude	1	(1)	Freq	838 MHz	28.32 dBm	2	(1)	Freq	24.991 GHz	-23.77 dBm	 <p>Agilent Spectrum Analyzer - Sweep 14</p> <p>Ref Offset 16.9 dB Ref 30.00 dBm</p> <p>Mkr2 25.651 GHz -27.012 dBm</p> <p>Center Freq 13.01000000 GHz</p> <p>Start Freq 20.00000000 GHz</p> <p>Stop Freq 26.00000000 GHz</p> <p>CF Step 2.598000000 GHz</p> <p>Freq Offset 0 Hz</p> <p>Start 20 MHz #Res BW 1.0 MHz VBW 3.0 MHz Sweep 26.67 ms (40001 pts)</p> <table border="1"> <thead> <tr> <th>Marker</th> <th>Type</th> <th>Frequency</th> <th>Amplitude</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>F</td> <td>838.4 MHz</td> <td>28.152 dBm</td> </tr> <tr> <td>2</td> <td>F</td> <td>25.651 GHz</td> <td>-27.012 dBm</td> </tr> </tbody> </table> <p>Band BC0 1xRTT CSE Mid channel</p>	Marker	Type	Frequency	Amplitude	1	F	838.4 MHz	28.152 dBm	2	F	25.651 GHz	-27.012 dBm
Marker	Trace	Type	X Axis	Amplitude																									
1	(1)	Freq	838 MHz	28.32 dBm																									
2	(1)	Freq	24.991 GHz	-23.77 dBm																									
Marker	Type	Frequency	Amplitude																										
1	F	838.4 MHz	28.152 dBm																										
2	F	25.651 GHz	-27.012 dBm																										



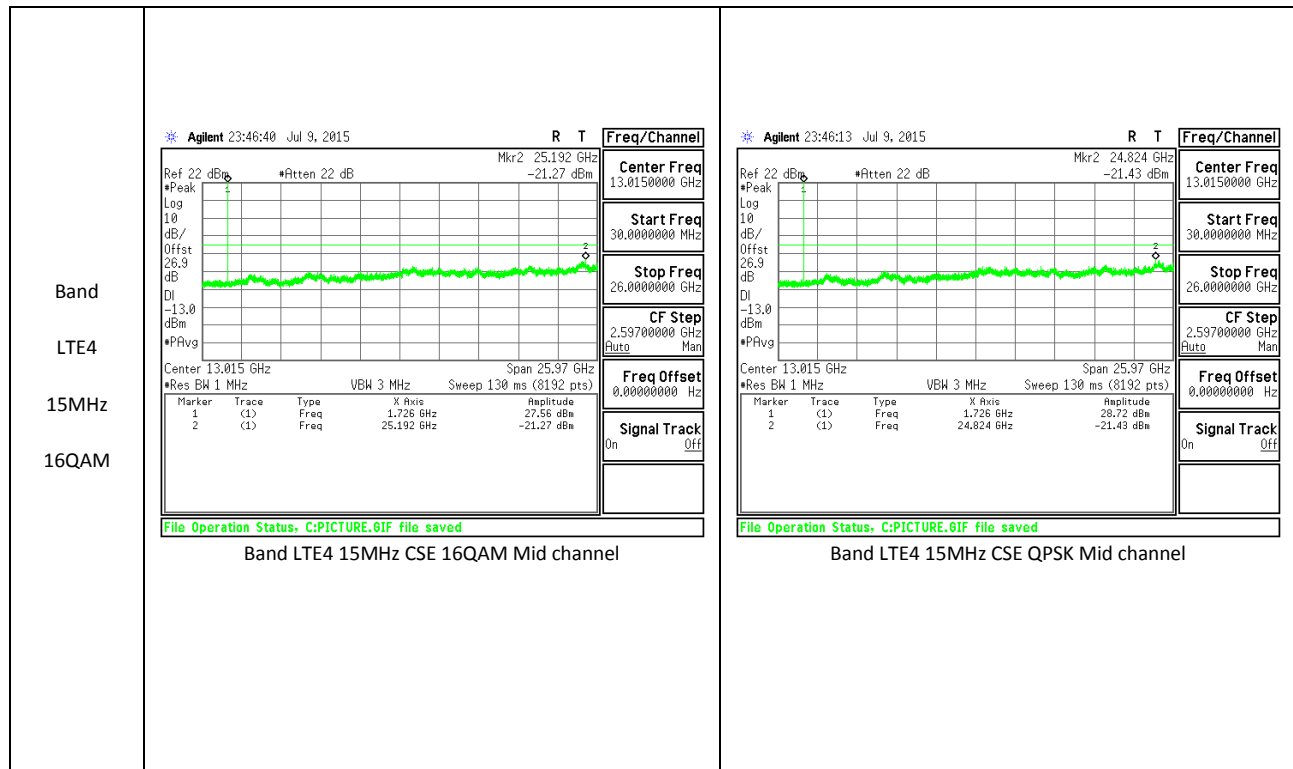
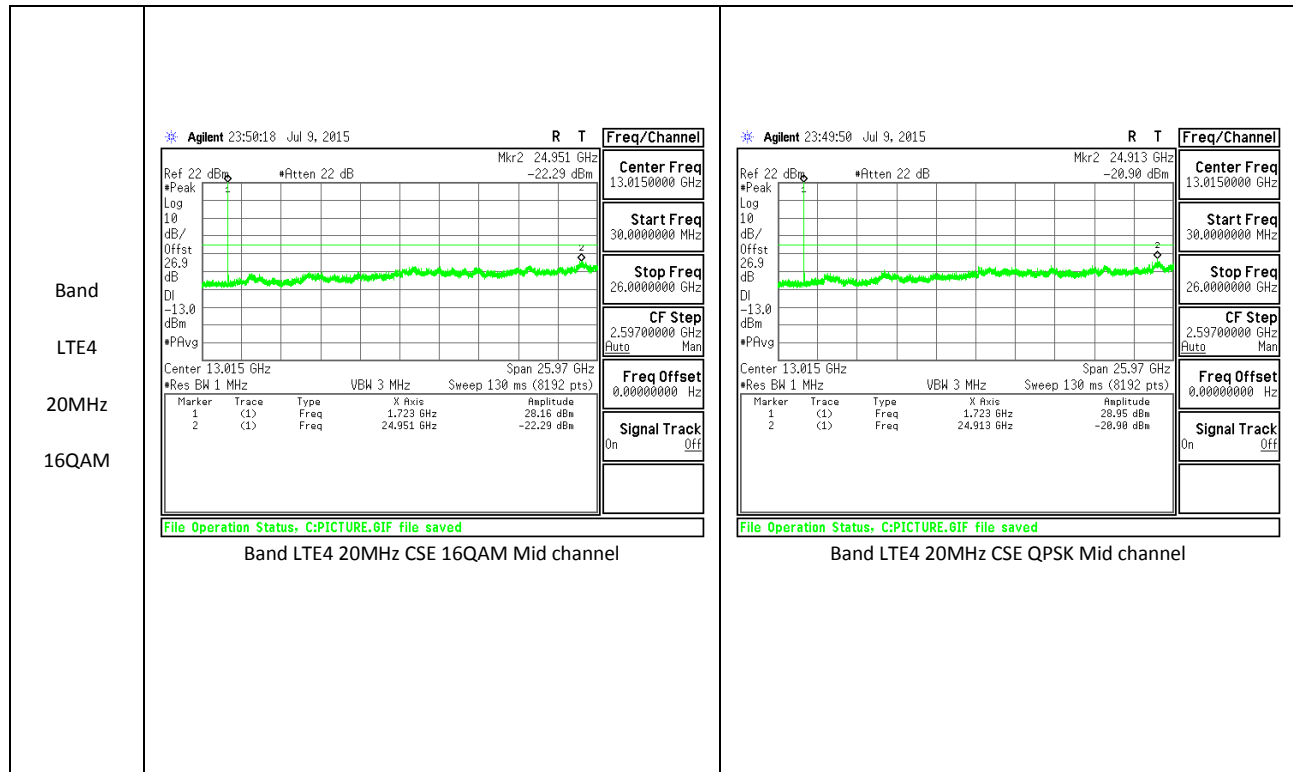
LTE Band 2

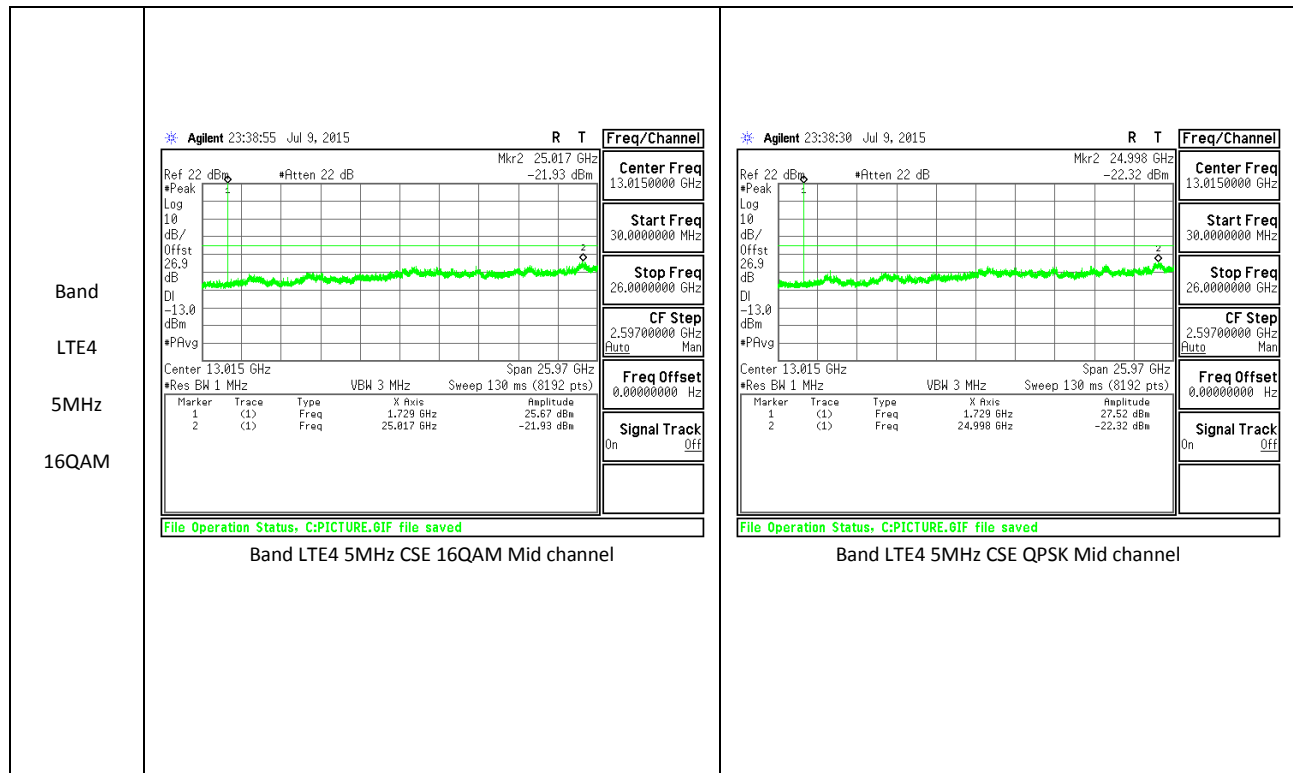
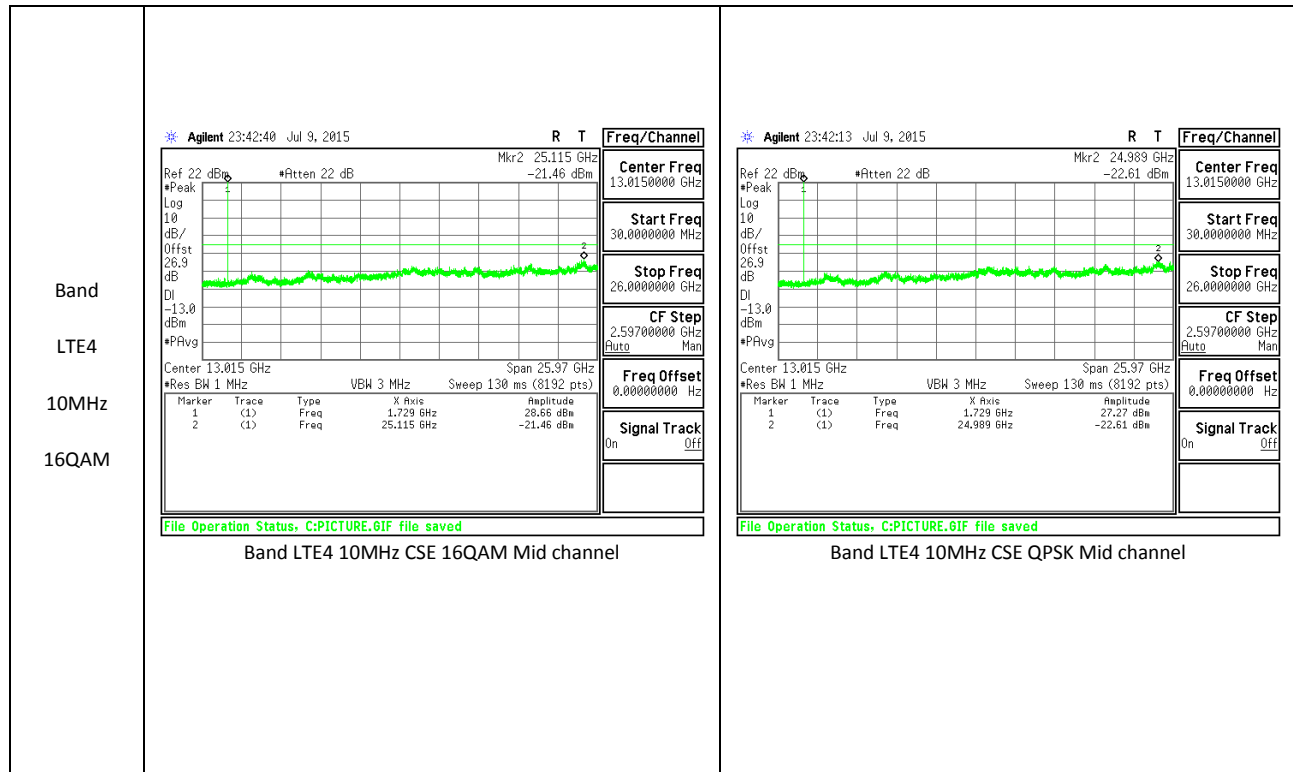
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<p>Band LTE2 15MHz 16QAM</p>	<p>Agilent 22:18:50 Jul 9, 2015</p> <p>Center Freq: 13.0150000 GHz Start Freq: 30.0000000 MHz Stop Freq: 26.0000000 GHz CF Step: 2.59700000 GHz Freq Offset: 0.00000000 Hz</p> <p>Marker 1: 1.872 GHz, 26.07 dBm Marker 2: 24.982 GHz, -22.09 dBm</p> <p>File Operation Status: C:PICTURE.6IF file saved</p> <p>Band LTE2 15MHz CSE 16QAM Mid channel</p>	<p>Agilent 22:18:23 Jul 9, 2015</p> <p>Center Freq: 13.0150000 GHz Start Freq: 30.0000000 MHz Stop Freq: 26.0000000 GHz CF Step: 2.59700000 GHz Freq Offset: 0.00000000 Hz</p> <p>Marker 1: 1.872 GHz, 26.69 dBm Marker 2: 24.928 GHz, -21.62 dBm</p> <p>File Operation Status: C:PICTURE.6IF file saved</p> <p>Band LTE2 15MHz CSE QPSK Mid channel</p>

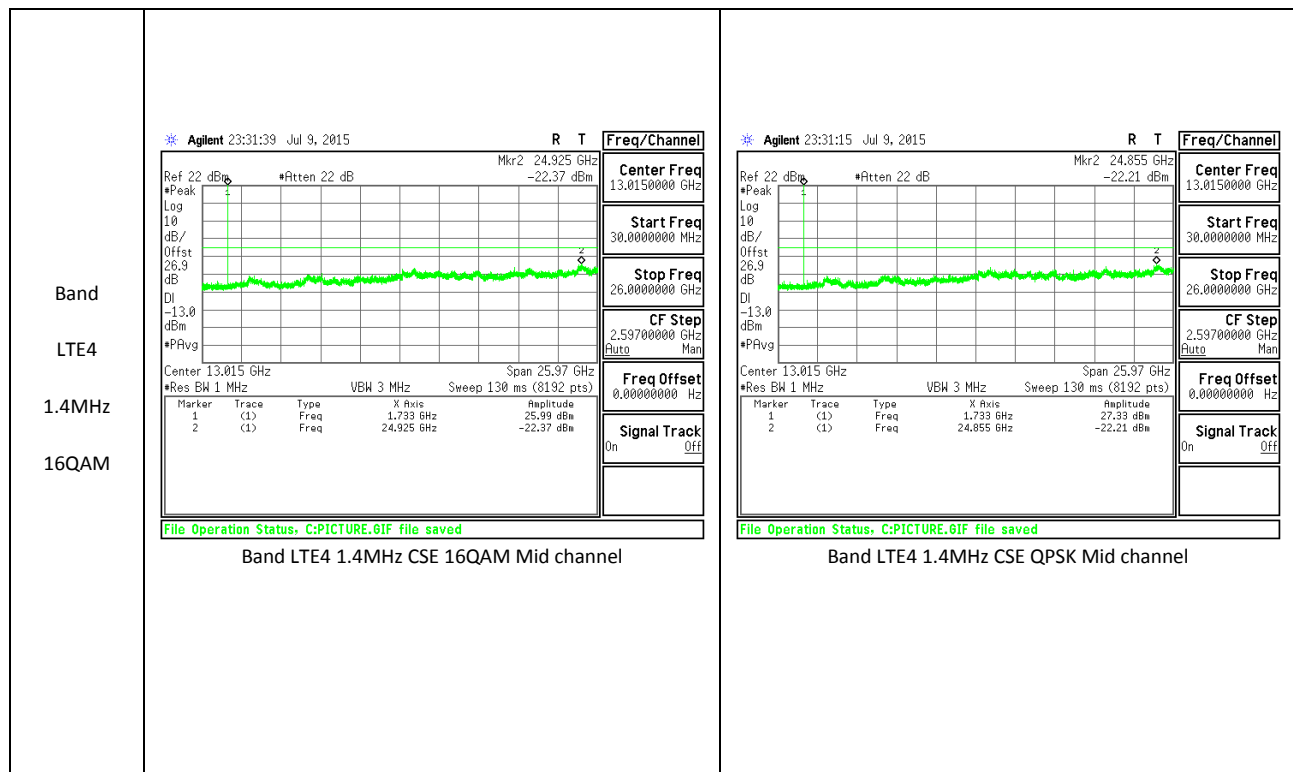
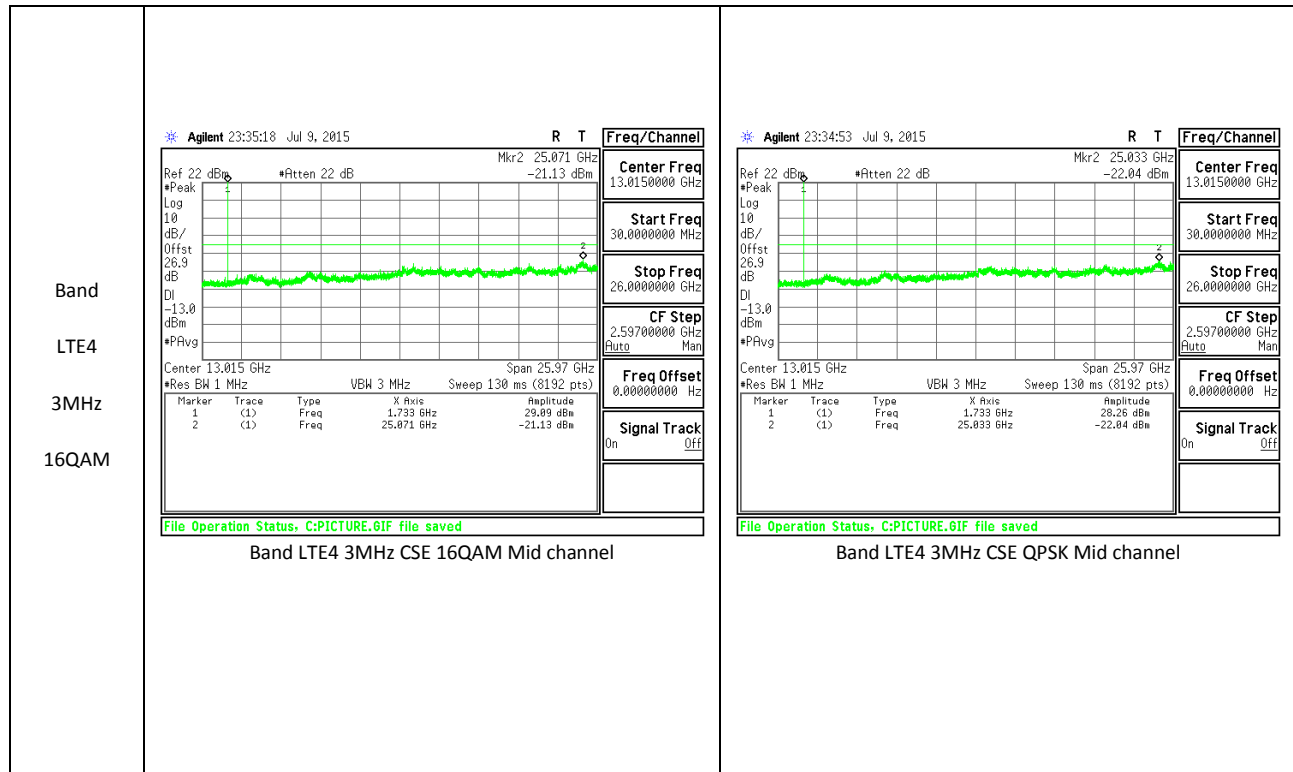




LTE Band 4

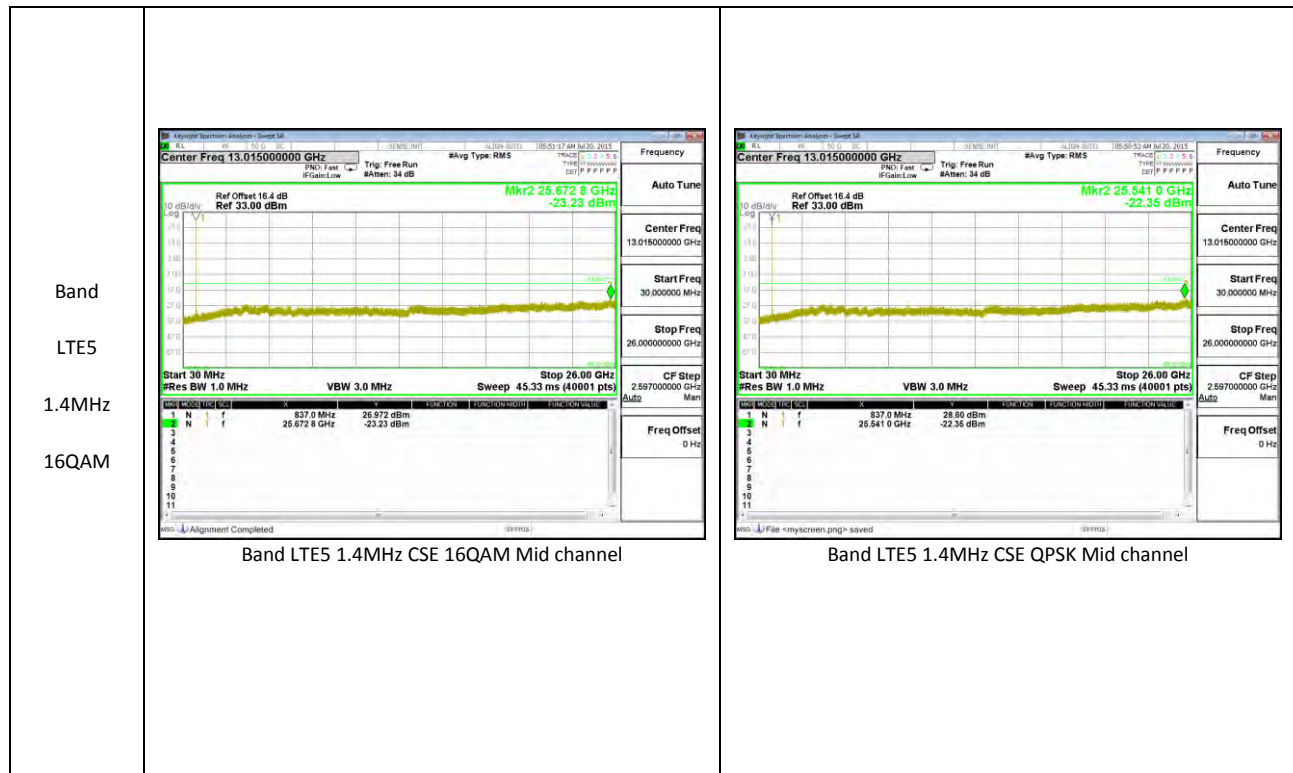




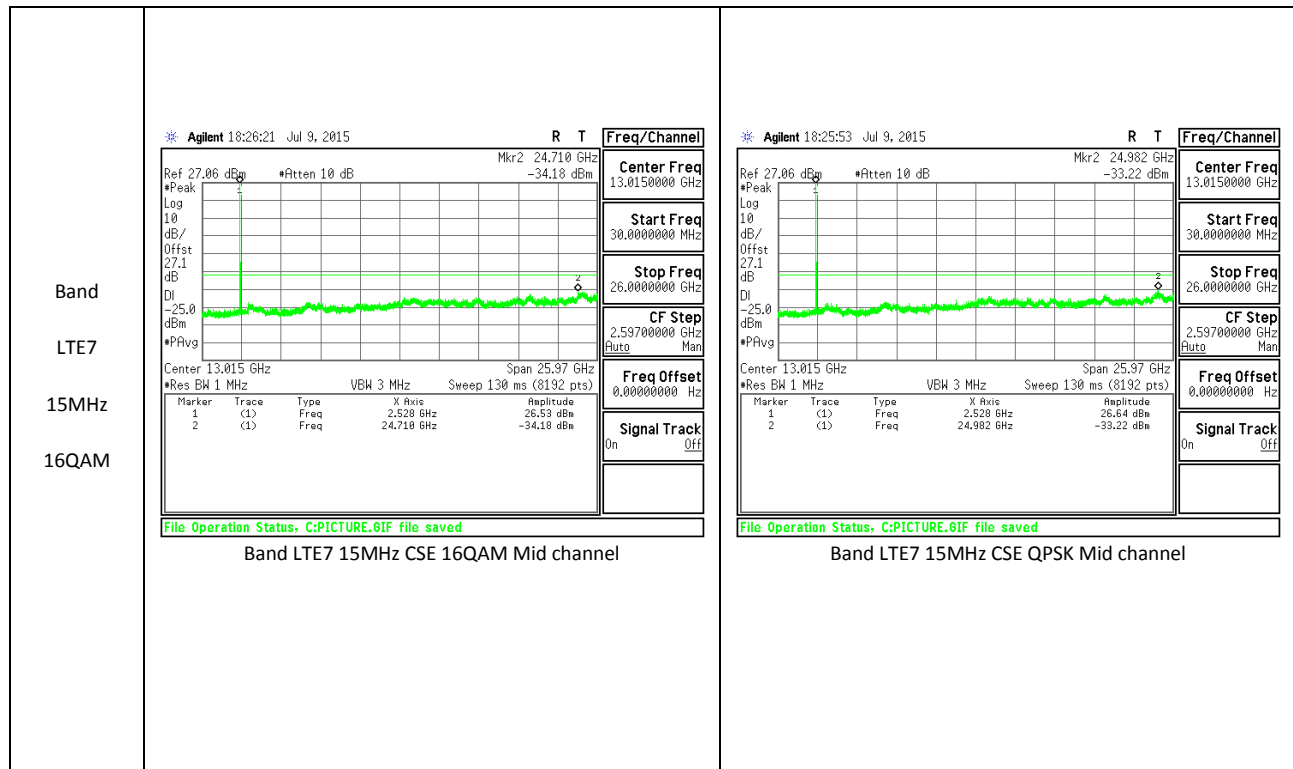
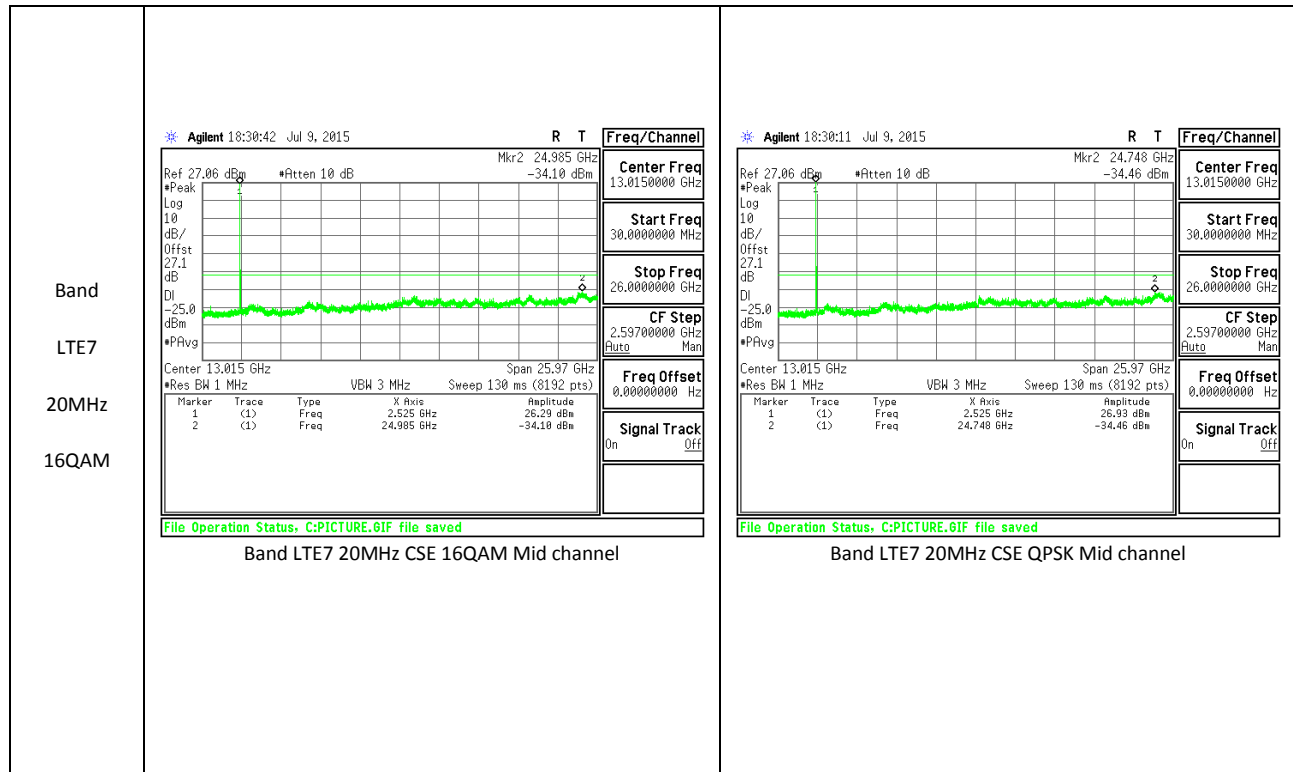


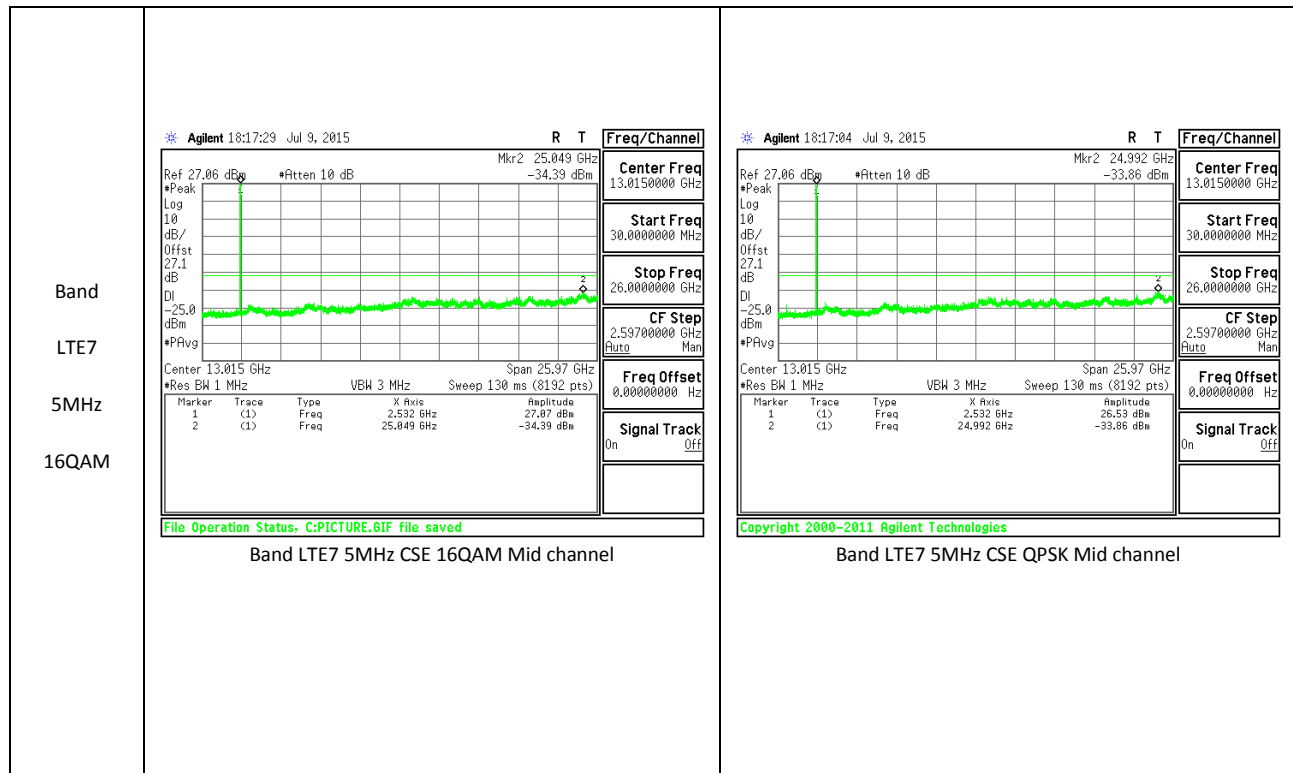
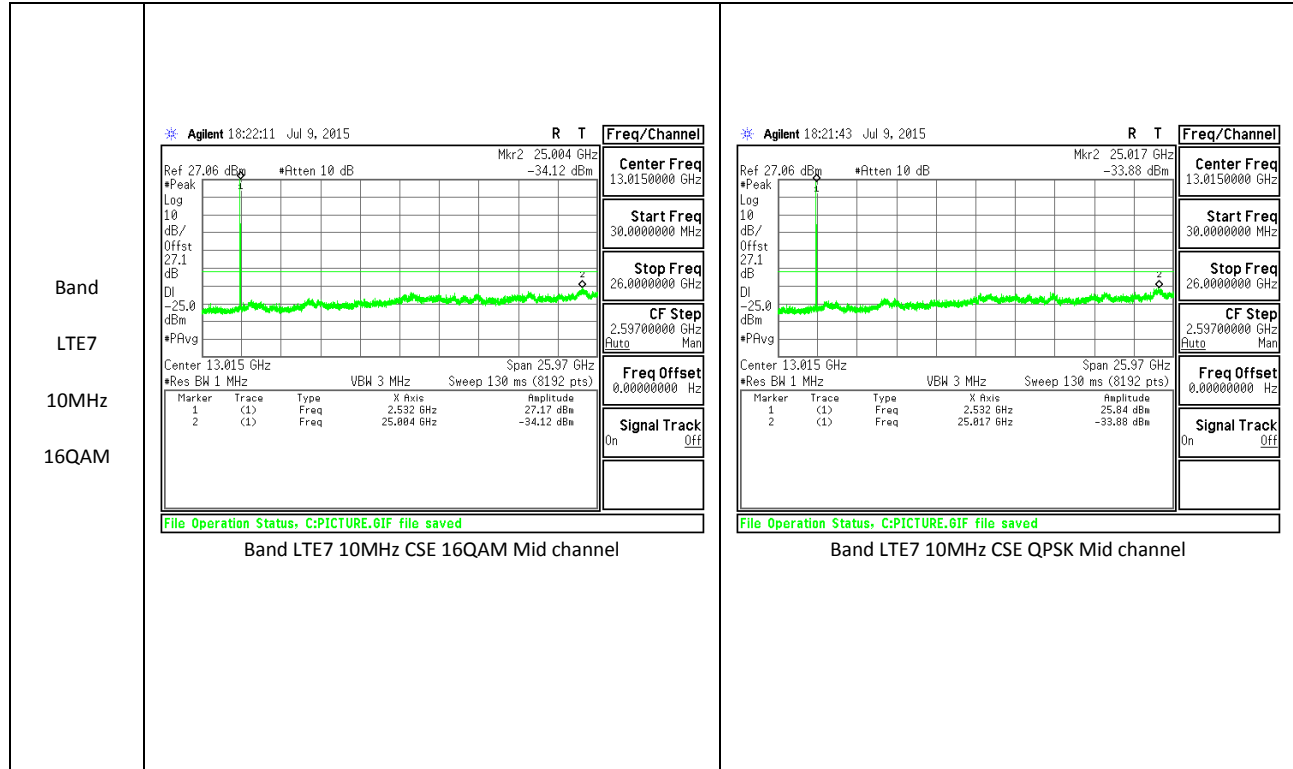
LTE Band 5



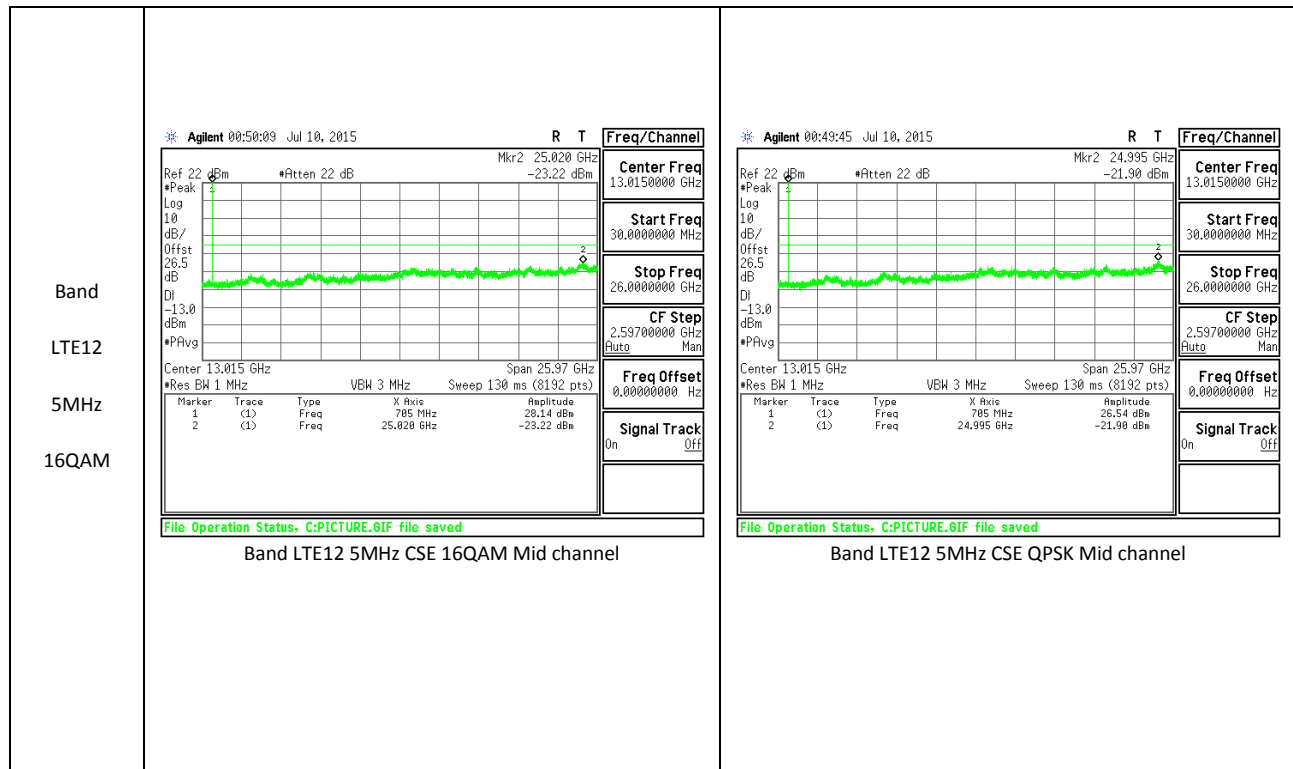
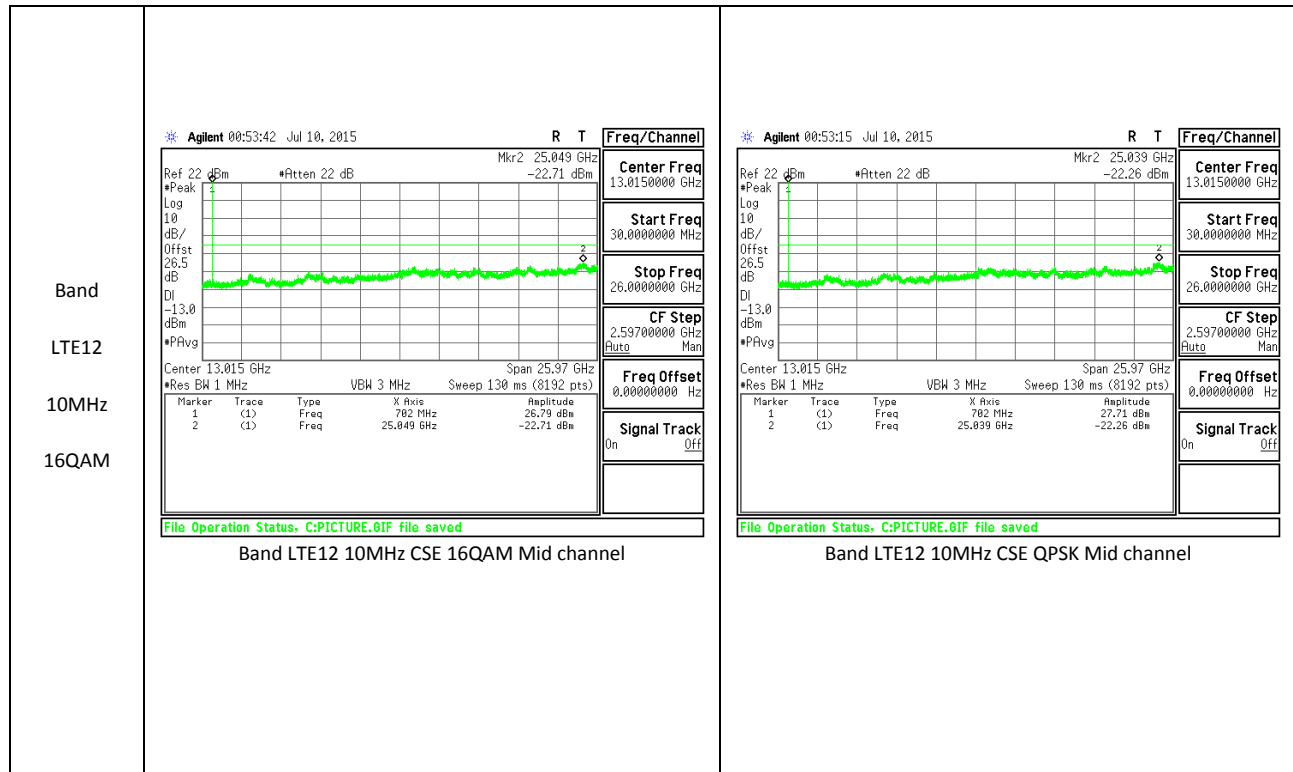


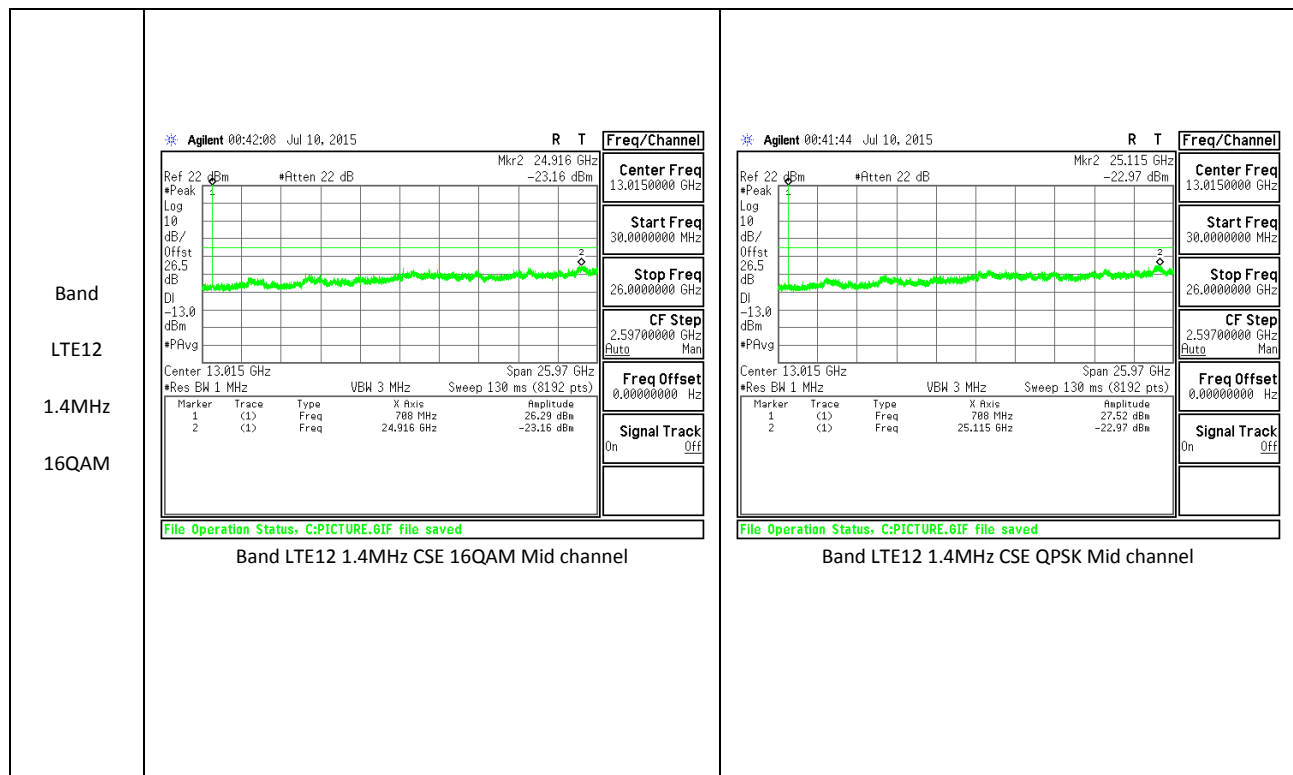
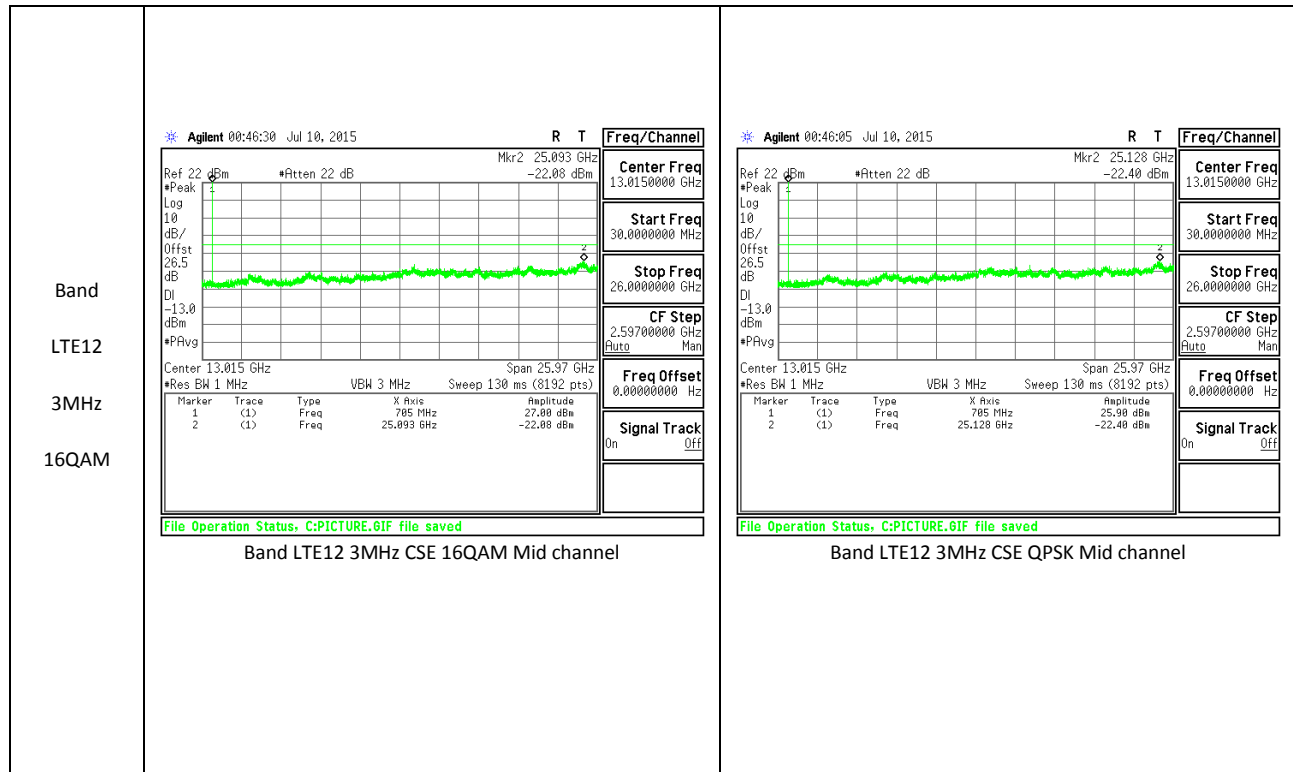
LTE Band 7



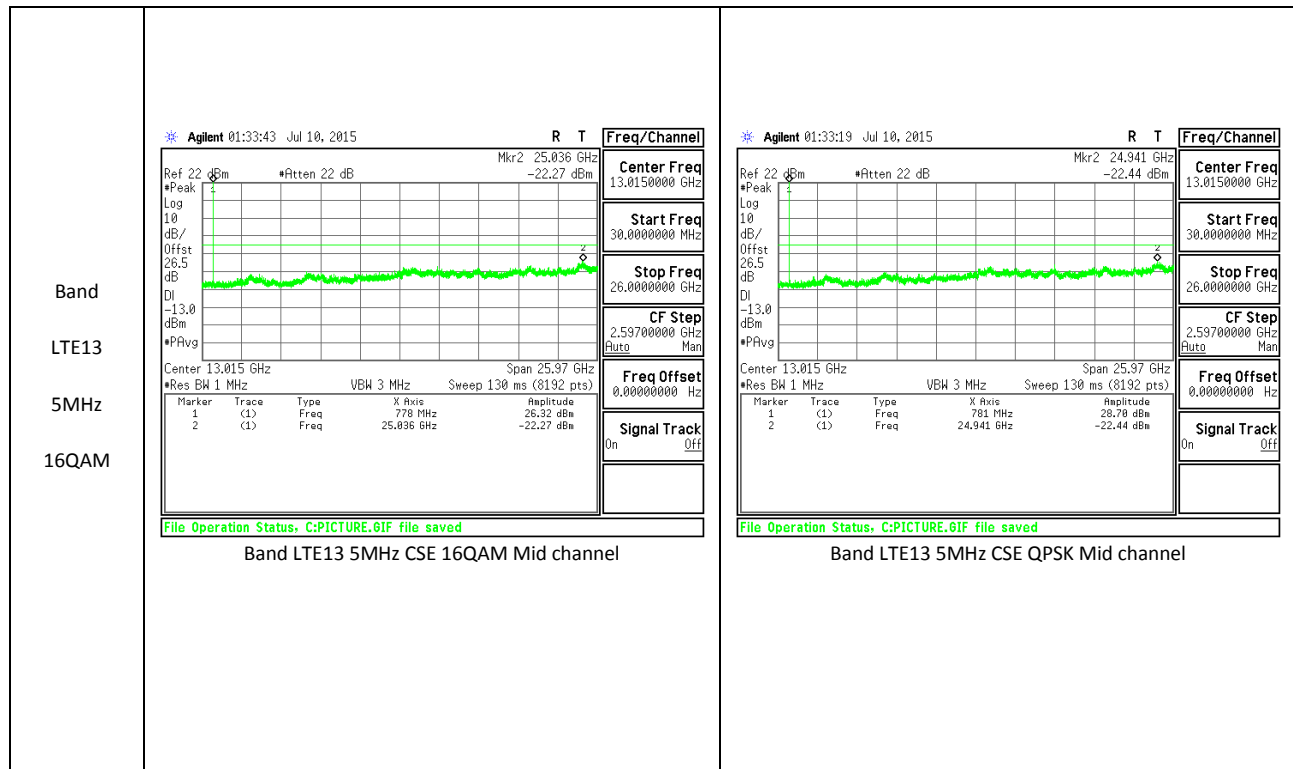
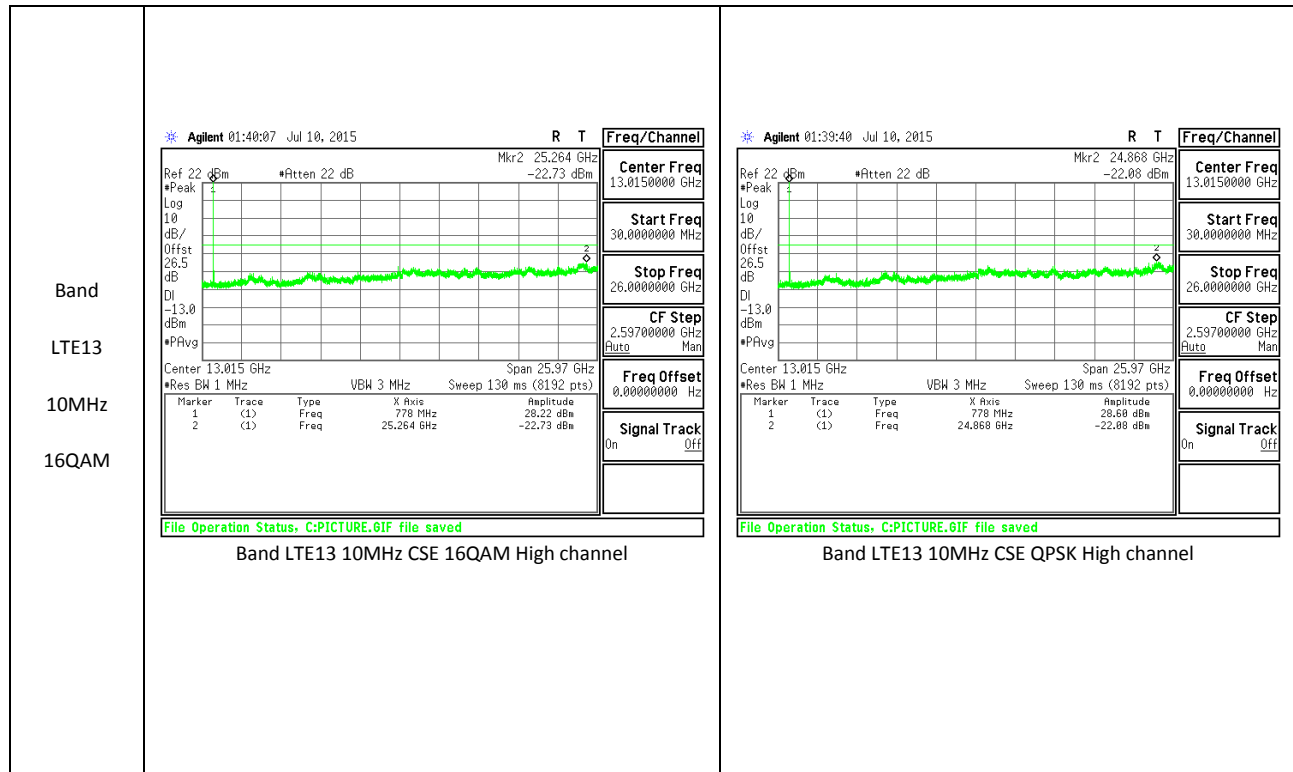


LTE Band 12





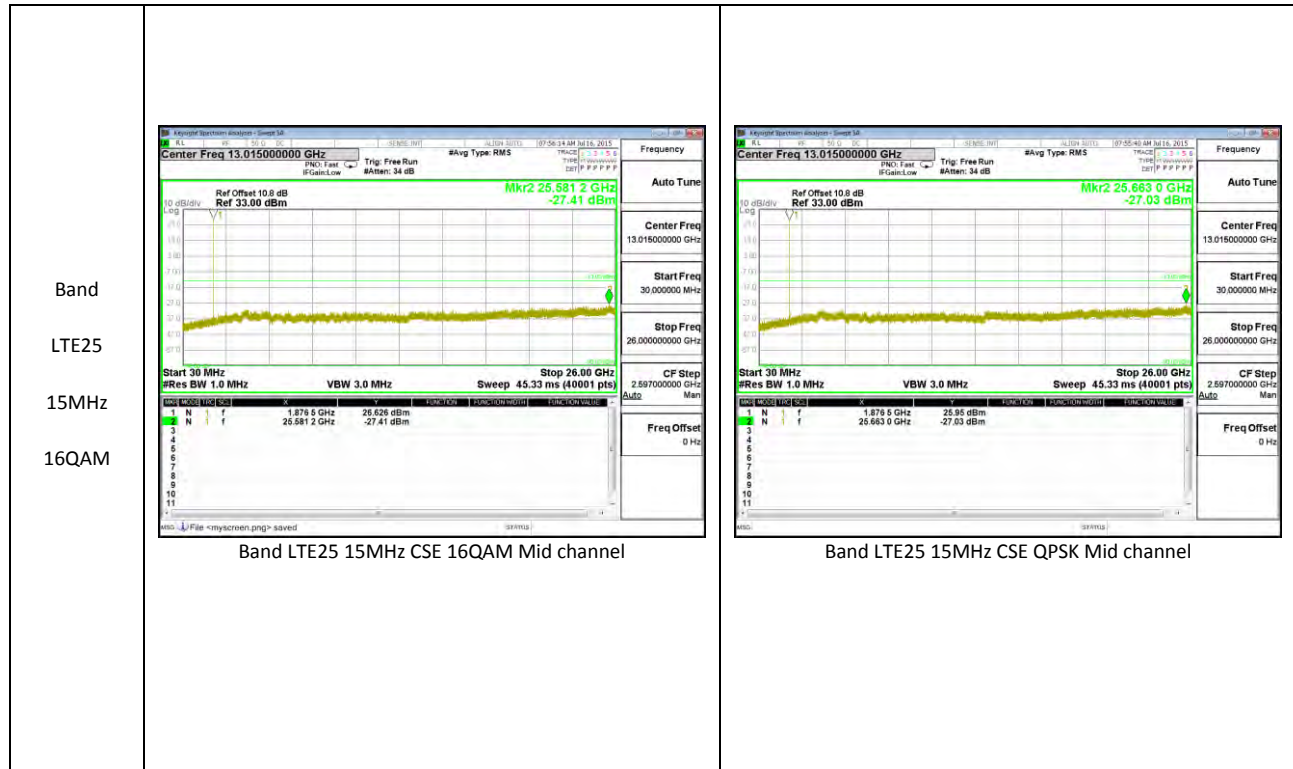
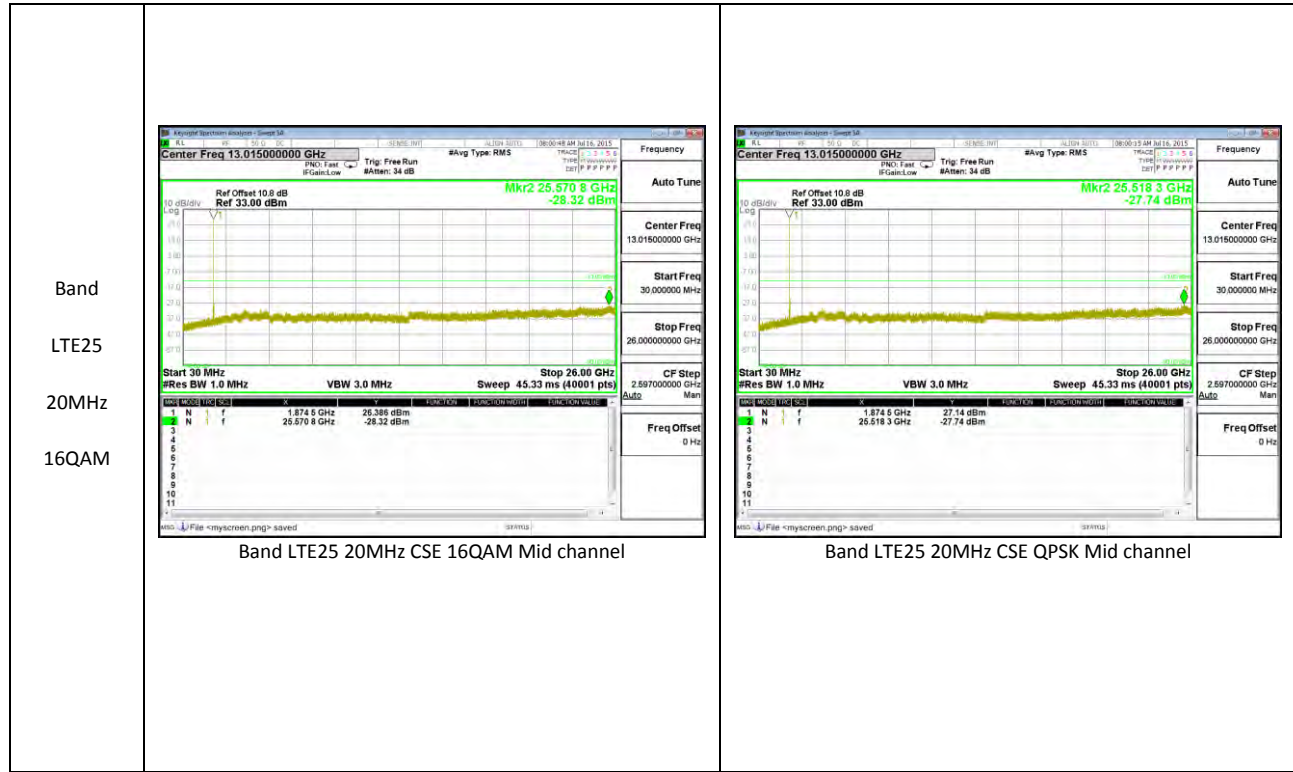
LTE Band 13



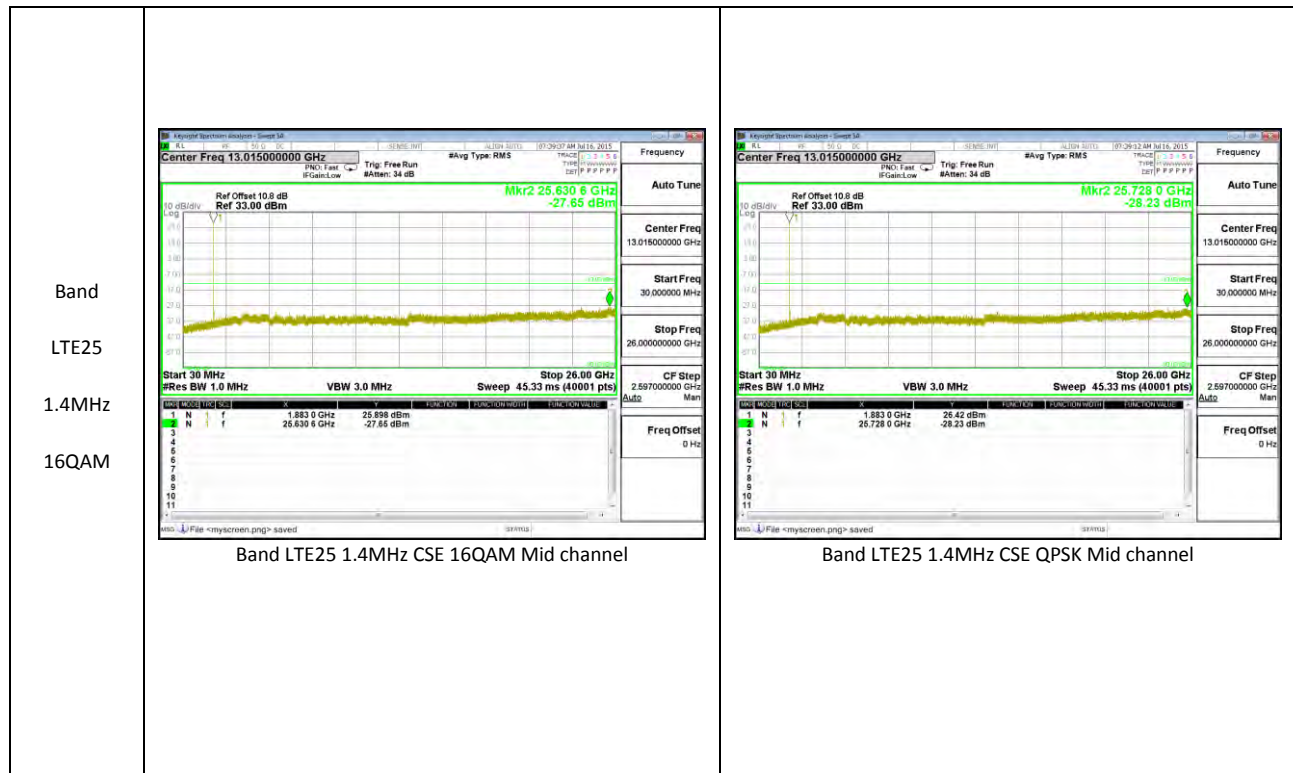
LTE Band 17



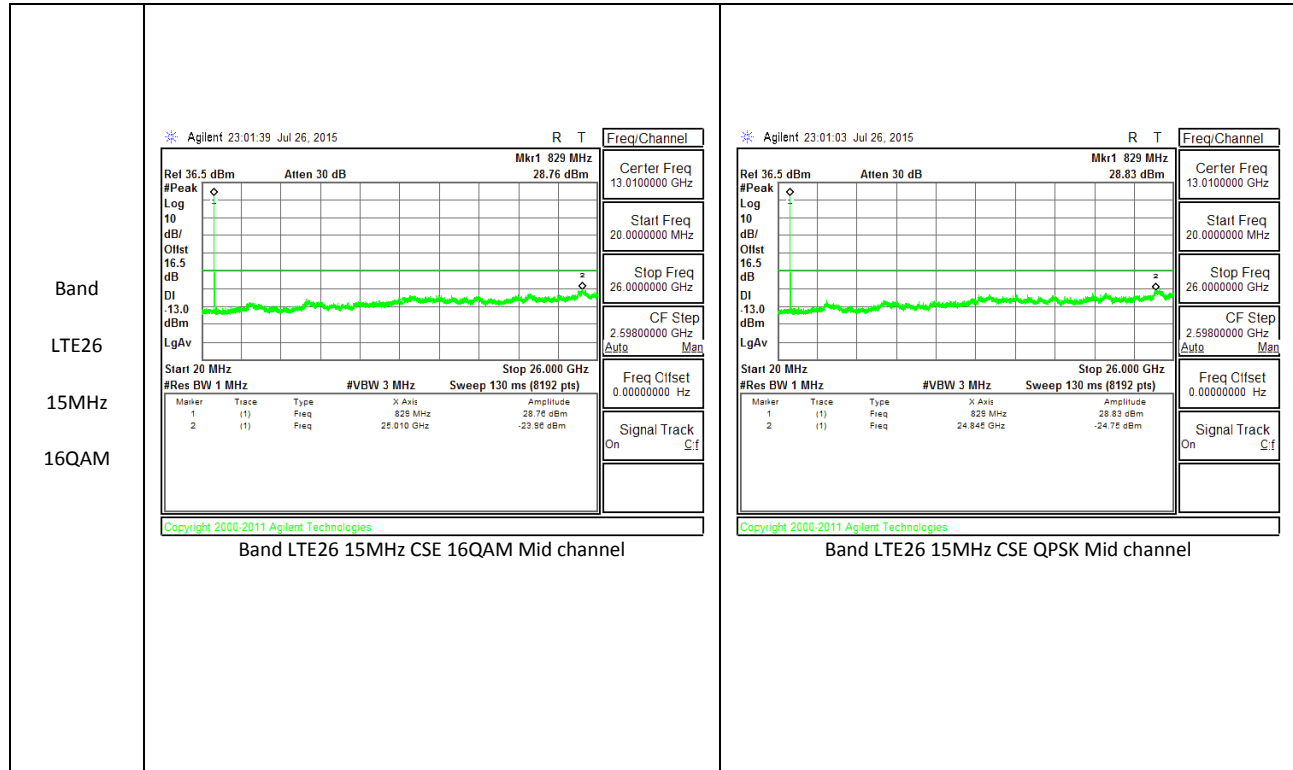
LTE Band 25

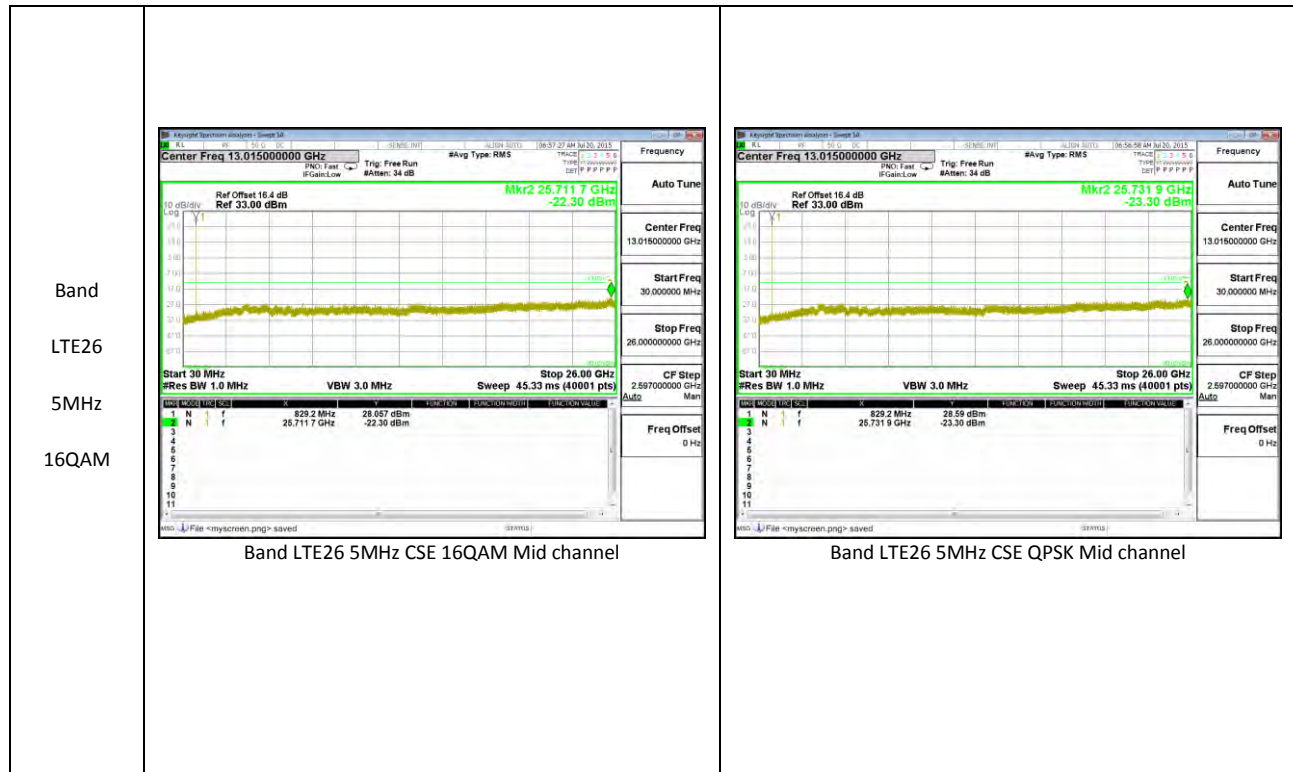






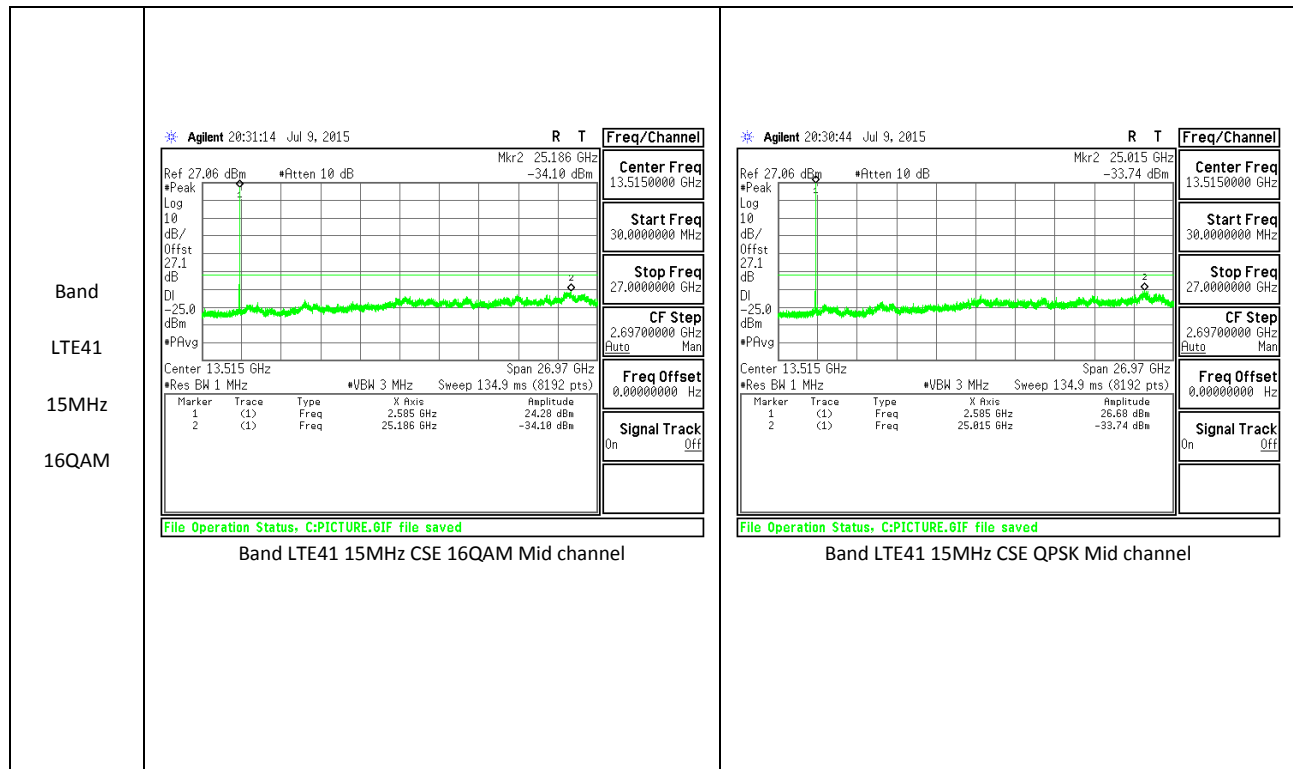
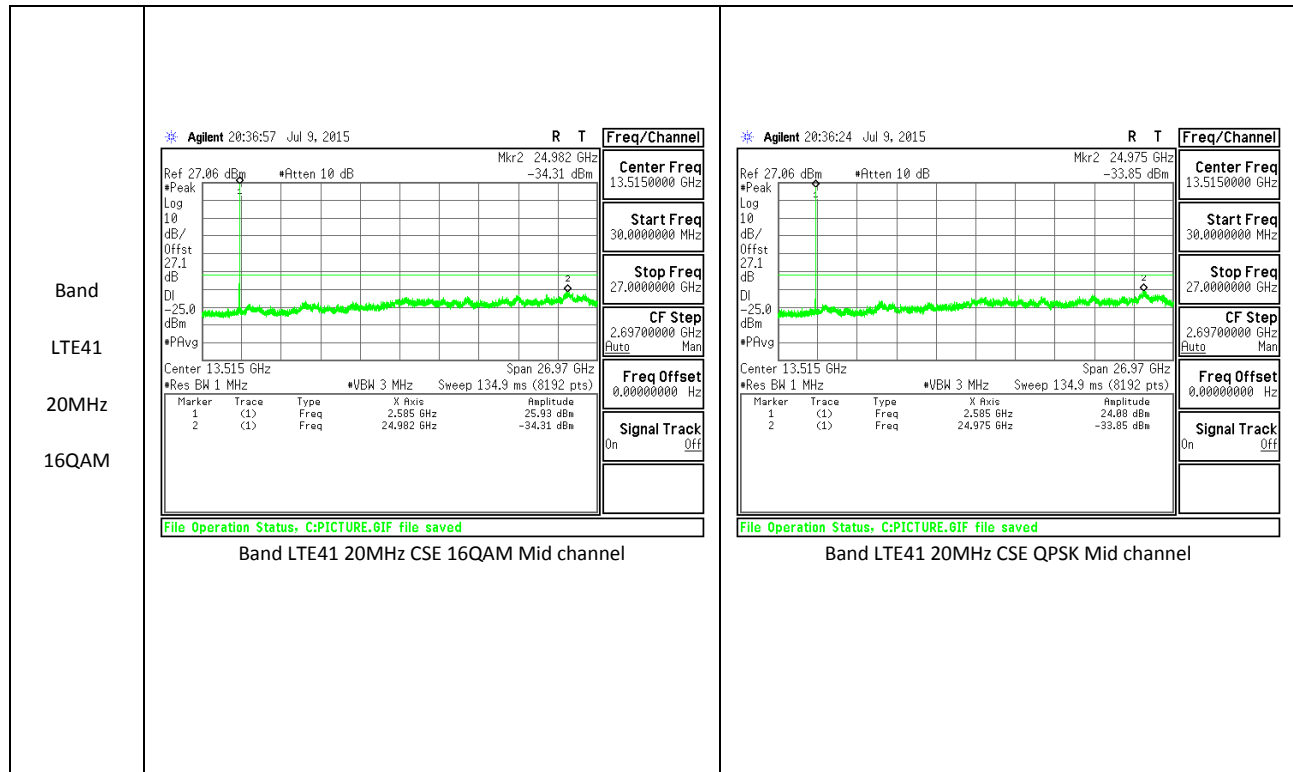
LTE Band 26

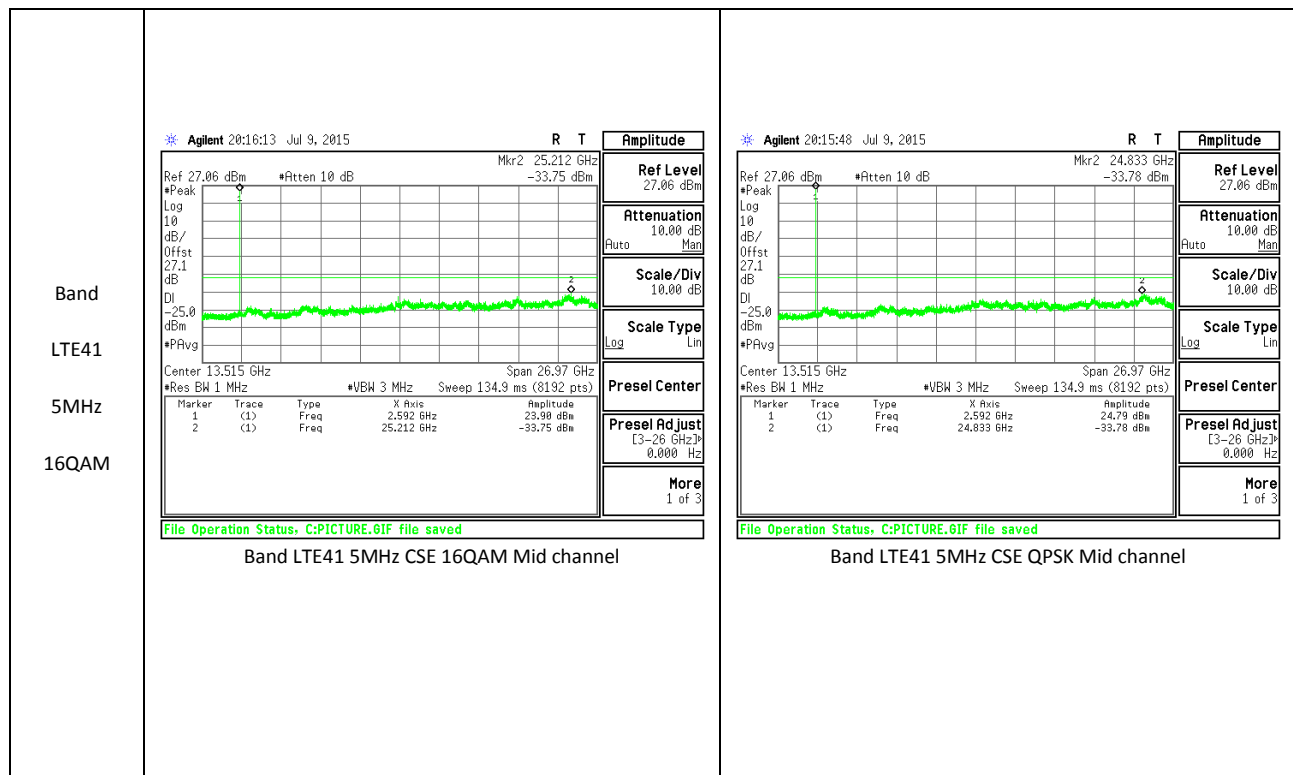
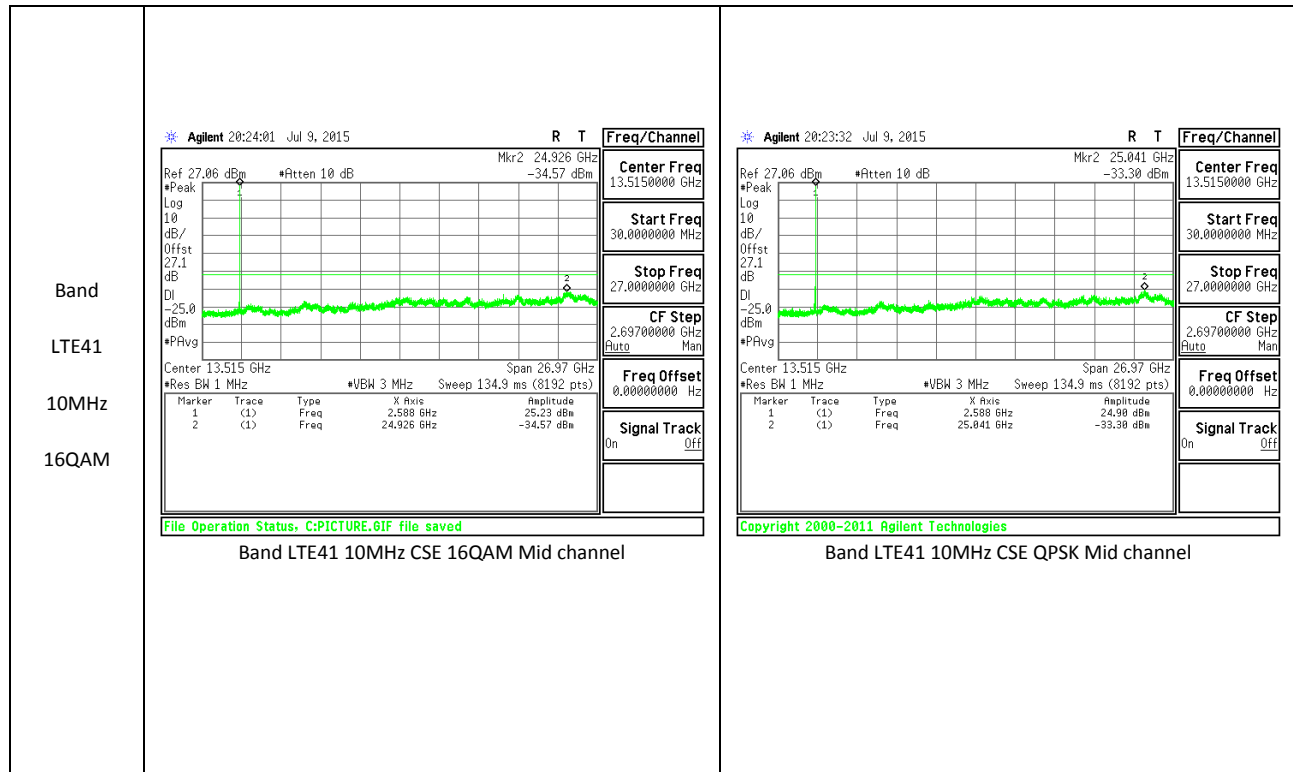






LTE Band 41





11. 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, WCDMA, CDMA, and LTE

RESULTS

See the following pages.

11.1.1. FREQUENCY STABILITY RESULTS

GSM 850

Reference Frequency: PCS 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	836.600023	0.001	2.5
3.80	40	836.600025	-0.001	2.5
3.80	30	836.600025	-0.001	2.5
3.80	20	836.600024	0	2.5
3.80	10	836.600022	0.002	2.5
3.80	0	836.600021	0.004	2.5
3.80	-10	836.600022	0.003	2.5
3.80	-20	836.600021	0.004	2.5
3.80	-30	836.600020	0.005	2.5

Reference Frequency: PCS 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	836.6000219	0.003	2.5
3.23(End of Volt)	20	836.6000236	0.001	2.5

GSM 1900

Reference Frequency: PCS 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	0.000	2.5
3.80	40	1880.000038	0.000	2.5
3.80	30	1880.000036	0.001	2.5
3.80	20	1880.000038	0	2.5
3.80	10	1880.000035	0.002	2.5
3.80	0	1880.000024	0.007	2.5
3.80	-10	1880.000023	0.008	2.5
3.80	-20	1880.000021	0.009	2.5
3.80	-30	1880.000022	0.008	2.5

Reference Frequency: PCS 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	1880.000038	0	2.5
4.37	20	1880.000041	-0.002	2.5
3.23(End of Volt)	20	1880.000032	0.003	2.5

LTE Band 4

Reference Frequency: PCS 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	1732.499993	0.001	2.5
3.80	40	1732.499994	0.000	2.5
3.80	30	1732.499994	0.000	2.5
3.80	20	1732.499994	0	2.5
3.80	10	1732.499995	0.000	2.5
3.80	0	1732.499996	-0.001	2.5
3.80	-10	1732.500007	-0.007	2.5
3.80	-20	1732.500005	-0.006	2.5
3.80	-30	1732.500005	-0.006	2.5

Reference Frequency: PCS 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	1732.499994	0	2.5
4.37	20	1732.499993	0.000	2.5
3.23(End of volt)	20	1732.499995	-0.001	2.5

LTE Band 7

Reference Frequency: Cellular Mid Channel 2535.000019 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	2534.999993	0.000	2.5
3.80	40	2534.999992	0.000	2.5
3.80	30	2534.999994	-0.001	2.5
3.80	20	2534.999992	0	2.5
3.80	10	2534.999993	0.000	2.5
3.80	0	2534.999994	-0.001	2.5
3.80	-10	2534.999994	0.000	2.5
3.80	-20	2534.999993	0.000	2.5
3.80	-30	2534.999993	0.000	2.5

Reference Frequency: Cellular Mid Channel 2535.000019 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	2534.999992	0	2.5
4.37	20	2534.999992	0.000	2.5
3.23(End of Volt)	20	2534.999993	0.000	2.5

LTE Band 12

Reference Frequency: Cellular Mid Channel 707.5 MHz @ 20°C Limit: to stay +/- 2.5 ppm = 1768.750 Hz				
Power Supply (Vdc)	Environment Temperature (°C)	Frequency Deviation Measured with Time Elapse		
		(MHz)	Delta (ppm)	Limit (ppm)
3.80	50	707.500004	0.000	2.5
3.80	40	707.500005	-0.001	2.5
3.80	30	707.500003	0.001	2.5
3.80	20	707.500004	0	2.5
3.80	10	707.500003	0.001	2.5
3.80	0	707.500005	-0.001	2.5
3.80	-10	707.499997	0.010	2.5
3.80	-20	707.499997	0.010	2.5
3.80	-30	707.500004	0.000	2.5
Reference Frequency: Cellular Mid Channel 707.5 MHz @ 20°C Limit: to stay +/- 2.5 ppm = 1768.750 Hz				
Power Supply (Vdc)	Environment Temperature (°C)	Frequency Deviation Measured with Time Elapse		
		(MHz)	Delta (ppm)	Limit (ppm)
3.80	20	707.500004	0	2.5
4.37	20	707.500004	0.000	2.5
3.23(End of Volt)	20	707.500005	-0.001	2.5

LTE Band 13

Reference Frequency: PCS Mid Channel 782 MHz @ 20°C Limit: to stay +/- 2.5 ppm = 1955.000 Hz				
Power Supply (Vdc)	Environment Temperature (°C)	Frequency Deviation Measured with Time Elapse		
		(MHz)	Delta (ppm)	Limit (ppm)
3.80	50	782.000003	0.002	2.5
3.80	40	782.000004	0.001	2.5
3.80	30	782.000003	0.001	2.5
3.80	20	782.000004	0	2.5
3.80	10	781.999998	0.009	2.5
3.80	0	781.999998	0.009	2.5
3.80	-10	782.000003	0.002	2.5
3.80	-20	781.999997	0.009	2.5
3.80	-30	782.000003	0.001	2.5
		782.000000	0.006	

Reference Frequency: PCS Mid Channel 782 MHz @ 20°C Limit: to stay +/- 2.5 ppm = 1955.000 Hz				
Power Supply (Vdc)	Environment Temperature (°C)	Frequency Deviation Measured with Time Elapse		
		(MHz)	Delta (ppm)	Limit (ppm)
3.80	20	782.000004	0	2.5
4.37	20	782.000032	0.002	2.5
3.23(End of volt)	20	782.000027	0.002	2.5

12. RADIATED TEST RESULTS

12.1. 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, CDMA, and LTE

TEST RESULTS

12.1.1. ERP/EIRP RESULTS

GSM

Band	Mode	Channel	f(MHz)	ERP	
				dBm	mW
GSM850	GPRS	128	824.2	30.43	1103.82
		190	836.6	31.01	1261.83
		251	848.8	30.32	1077.46
	EGPRS	128	824.2	25.38	345.14
		190	836.6	26.80	479.07
		251	848.8	25.69	370.68
GSM1900	GPRS	512	1850.2	29.68	928.83
		661	1880	29.55	901.32
		810	1909.8	29.56	904.34
	EGPRS	512	1850.2	25.04	319.11
		661	1880	25.12	325
		810	1909.8	24.76	299.46

WCDMA

Band	Mode	Channel	f(MHz)	EIRP	
				dBm	mW
Band 2	REL99	9262	1852.4	24.08	255.73
		9400	1880	24.24	265.39
		9538	1907.6	22.71	186.51
	HSDPA	9262	1852.4	22.78	189.58
		9400	1880	21.66	146.51
		9538	1907.6	22.09	161.69
Band 4	REL99	1312	1712.4	25.22	332.66
		1413	1732.6	24.54	284.45
		1513	1752.6	26.11	408.32
	HSDPA	1312	1712.4	23.87	243.78
		1413	1732.6	23.00	199.53
		1513	1752.6	24.32	270.4
Band 5	REL99	4132	826.4	23.61	229.61
		4183	836.6	23.18	207.97
		4233	846.6	22.66	184.5
	HSDPA	4132	826.4	22.57	180.72
		4183	836.6	22.17	164.82
		4233	846.6	21.64	145.88

CDMA

Band	Mode	Channel	f(MHz)	ERP	
				dBm	mW
BC10	1xRTT	476	817.9	21.84	152.79
		580	820.5	21.99	158.16
		684	823.1	22.14	163.72
	EVDO REL. 0	476	817.9	21.50	141.25
		580	820.5	21.50	141.25
		684	823.1	21.51	141.58
BC0	1xRTT	1013	824.7	21.57	143.58
		384	836.52	21.51	141.61
		777	848.31	20.79	119.98
	EVDO REL. 0	1013	824.7	21.38	137.40
		384	836.52	21.32	135.52
		777	848.31	20.66	116.41
BC1	1xRTT	25	1851.25	27.62	578.1
		600	1880	27.69	587.49
		1175	1908.75	27.61	576.77
	EVDO REL. 0	25	1851.25	27.50	562.34
		600	1880	27.57	571.48
		1175	1908.75	27.45	555.90

LTE Band 2

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	EIRP	
					dBm	mW
LTE2	20	QPSK	1/0	1860	25.92	390.84
			1/0	1880	26.12	409.26
			1/0	1900	25.95	393.55
		16QAM	1/0	1860	24.94	311.89
			1/0	1880	25.37	344.35
			1/0	1900	25.02	317.69
LTE2	15	QPSK	1/0	1857.5	25.92	390.84
			1/0	1880	26.1	407.38
			1/0	1902.5	25.96	394.46
		16QAM	1/0	1857.5	24.92	310.46
			1/0	1880	25.3	338.84
			1/0	1902.5	24.94	311.89
LTE2	10	QPSK	1/0	1855	25.83	382.82
			1/0	1880	26.14	411.15
			1/0	1905	25.95	393.55
		16QAM	1/0	1855	24.91	309.74
			1/0	1880	25.38	345.14
			1/0	1905	24.94	311.89

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	EIRP	
					dBm	mW
LTE2	5	QPSK	1/0	1852.5	25.84	383.71
			1/0	1880	26.13	410.2
			1/0	1907.5	25.98	396.28
		16QAM	1/0	1852.5	24.89	308.32
			1/0	1880	25.18	329.61
			1/0	1907.5	25	316.23
LTE2	3	QPSK	1/0	1851.5	25.81	381.07
			1/0	1880	26.11	408.32
			1/0	1908.5	25.97	395.37
		16QAM	1/0	1851.5	24.9	309.03
			1/0	1880	25.3	338.84
			1/0	1908.5	24.96	313.33
LTE2	1.4	QPSK	1/0	1850.7	25.81	381.07
			1/0	1880	26.16	413.05
			1/0	1909.3	25.98	396.28
		16QAM	1/0	1850.7	24.99	315.5
			1/0	1880	25.12	325.09
			1/0	1909.3	24.99	315.5

LTE Band 4

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	EIRP	
					dBm	mW
LTE4	20	QPSK	1/0	1720	24.41	276.07
			1/0	1732.5	25.55	358.68
			1/0	1745	26.03	400.76
		16QAM	1/0	1720	23.45	221.32
			1/0	1732.5	24.72	296.28
			1/0	1745	25.02	317.6
LTE4	15	QPSK	1/0	1717.5	24.34	271.89
			1/0	1732.5	25.53	357.03
			1/0	1747.5	26.13	409.75
		16QAM	1/0	1717.5	23.37	217.47
			1/0	1732.5	24.71	295.6
			1/0	1747.5	25.16	327.73
LTE4	10	QPSK	1/0	1715	24.29	268.35
			1/0	1732.5	25.62	364.51
			1/0	1750	26.23	419.98
		16QAM	1/0	1715	23.27	212.18
			1/0	1732.5	24.74	297.65
			1/0	1750	25.25	335.14

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	EIRP	
					dBm	mW
LTE4	5	QPSK	1/0	1712.5	24.38	274.17
			1/0	1732.5	25.56	359.51
			1/0	1752.5	26.19	415.8
		16QAM	1/0	1712.5	23.39	218.29
			1/0	1732.5	24.67	292.89
			1/0	1752.5	25.21	331.81
LTE4	3	QPSK	1/0	1711.5	24.36	273.14
			1/0	1732.5	25.59	362
			1/0	1753.5	26.18	414.49
		16QAM	1/0	1711.5	23.35	216.47
			1/0	1732.5	24.70	294.92
			1/0	1753.5	25.19	330
LTE4	1.4	QPSK	1/0	1710.7	24.30	268.97
			1/0	1732.5	25.60	362.83
			1/0	1754.3	26.20	417.09
		16QAM	1/0	1710.7	23.32	214.64
			1/0	1732.5	24.68	293.57
			1/0	1754.3	25.21	332.07

LTE Band 5

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP	
					dBm	mW
LTE5	10	QPSK	1/0	829	21.01	126.18
			1/0	836.5	22.25	167.88
			1/0	844	21.74	149.28
		16QAM	1/0	829	20.91	123.31
			1/0	836.5	22.13	163.31
			1/0	844	21.59	144.21
LTE5	5	QPSK	1/0	826.5	21.11	129.12
			1/0	836.5	22.47	176.60
			1/0	846.5	21.68	147.23
		16QAM	1/0	826.5	20.91	123.31
			1/0	836.5	22.23	167.11
			1/0	846.5	21.40	138.04
LTE5	3	QPSK	1/0	825.5	21.31	135.21
			1/0	836.5	22.44	175.39
			1/0	847.5	21.53	142.23
		16QAM	1/0	825.5	21.01	126.18
			1/0	836.5	22.20	165.96
			1/0	847.5	21.10	128.82
LTE5	1.4	QPSK	1/0	824.7	21.51	141.58
			1/0	836.5	22.52	178.65
			1/0	848.3	21.45	139.64
		16QAM	1/0	824.7	20.86	121.90
			1/0	836.5	21.69	147.57
			1/0	848.3	21.00	125.89

LTE Band 7

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	EIRP	
					dBm	mW
LTE7	20	QPSK	1/0	2510	20.75	118.74
			1/0	2535	21.00	125.78
			1/0	2560	22.07	160.88
		16QAM	1/0	2510	19.89	97.41
			1/0	2535	20.04	100.83
			1/0	2560	21.23	132.59
LTE7	15	QPSK	1/0	2507.5	20.81	120.39
			1/0	2535	21.45	139.51
			1/0	2562.5	21.73	149
		16QAM	1/0	2507.5	20.10	102.24
			1/0	2535	20.28	106.56
			1/0	2562.5	20.87	122.24
LTE7	10	QPSK	1/0	2505	19.90	97.71
			1/0	2535	20.29	106.87
			1/0	2565	22.19	165.48
		16QAM	1/0	2505	18.91	77.79
			1/0	2535	19.73	93.94
			1/0	2565	21.73	148.85
LTE7	5	QPSK	1/0	2502.5	21.57	143.51
			1/0	2535	21.18	131.17
			1/0	2567.5	22.03	159.52
		16QAM	1/0	2502.5	21.67	146.85
			1/0	2535	20.47	111.39
			1/0	2567.5	21.05	127.3

LTE Band 12

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP	
					dBm	mW
LTE12	10	QPSK	1/0	704	19.44	87.9
			1/0	707.5	19.96	99.08
			1/0	711	19.33	85.7
		16QAM	1/0	704	18.20	66.07
			1/0	707.5	19.00	79.43
			1/0	711	18.26	66.99
LTE12	5	QPSK	1/0	701.5	18.80	75.86
			1/0	707.5	19.46	88.31
			1/0	713.5	18.80	75.86
		16QAM	1/0	701.5	18.60	72.44
			1/0	707.5	18.39	69.02
			1/0	713.5	17.80	60.26
LTE12	3	QPSK	1/0	700.5	18.85	76.74
			1/0	707.5	19.30	85.11
			1/0	714.5	18.84	76.56
		16QAM	1/0	700.5	18.50	70.79
			1/0	707.5	19.70	93.33
			1/0	714.5	19.60	91.2
LTE12	1.4	QPSK	1/0	699.7	19.09	81.1
			1/0	707.5	19.10	81.28
			1/0	715.3	18.78	75.51
		16QAM	1/0	699.7	18.20	66.07
			1/0	707.5	17.90	61.66
			1/0	715.3	17.80	60.26

LTE Band 13

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP	
					dBm	mW
LTE13	10	QPSK	1/0	782	20	100
			1/0	782	20	100
			1/0	782	20	100
		16QAM	1/0	782	18.9	77.62
			1/0	782	18.9	77.62
			1/0	782	18.9	77.62
LTE13	5	QPSK	1/0	779.5	19.55	90.16
			1/0	782	19.5	89.13
			1/0	784.5	19.3	85.11
		16QAM	1/0	779.5	18.2	66.07
			1/0	782	18.4	69.18
			1/0	784.5	18.5	70.79

LTE Band 17

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP	
					dBm	mW
LTE17	10	QPSK	1/0	709	19.44	87.9
			1/0	710	19.96	99.08
			1/0	711	19.33	85.7
		16QAM	1/0	709	18.20	66.07
			1/0	710	19.00	79.43
			1/0	711	18.26	66.99
LTE17	5	QPSK	1/0	706.5	18.80	75.86
			1/0	710	19.46	88.31
			1/0	713.5	18.80	75.86
		16QAM	1/0	706.5	18.60	72.44
			1/0	710	18.39	69.02
			1/0	713.5	17.80	60.26

LTE Band 25

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	EIRP	
					dBm	mW
LTE25	20	QPSK	1/0	1860	25.92	390.84
			1/0	1882.5	26.12	409.26
			1/0	1905	25.95	393.55
		16QAM	1/0	1860	24.94	311.89
			1/0	1882.5	25.37	344.35
			1/0	1905	25.02	317.69
LTE25	15	QPSK	1/0	1857.5	25.92	390.84
			1/0	1882.5	26.1	407.38
			1/0	1907.5	25.96	394.46
		16QAM	1/0	1857.5	24.92	310.46
			1/0	1882.5	25.3	338.84
			1/0	1907.5	24.94	311.89
LTE25	10	QPSK	1/0	1855	25.83	382.82
			1/0	1882.5	26.14	411.15
			1/0	1910	25.95	393.55
		16QAM	1/0	1855	24.91	309.74
			1/0	1882.5	25.38	345.14
			1/0	1910	24.94	311.89

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	EIRP	
					dBm	mW
LTE25	5	QPSK	1/0	1852.5	25.84	383.71
			1/0	1882.5	26.13	410.2
			1/0	1912.5	25.98	396.28
		16QAM	1/0	1852.5	24.89	308.32
			1/0	1882.5	25.18	329.61
			1/0	1912.5	25	316.23
LTE25	3	QPSK	1/0	1851.5	25.81	381.07
			1/0	1882.5	26.11	408.32
			1/0	1913.5	25.97	395.37
		16QAM	1/0	1851.5	24.9	309.03
			1/0	1882.5	25.3	338.84
			1/0	1913.5	24.96	313.33
LTE25	1.4	QPSK	1/0	1850.7	25.81	381.07
			1/0	1882.5	26.16	413.05
			1/0	1914.3	25.98	396.28
		16QAM	1/0	1850.7	24.99	315.5
			1/0	1882.5	25.12	325.09
			1/0	1914.3	24.99	315.5

LTE Band 26

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP	
					dBm	mW
LTE26	15	QPSK	1/0	831.5	23.07	202.77
			1/0	836.5	22.35	171.79
			1/0	841.5	22.01	158.85
		16QAM	1/0	831.5	22.65	184.08
			1/0	836.5	21.84	152.76
			1/0	841.5	21.72	148.59
LTE26	10	QPSK	1/0	819	23.30	213.80
			1/0	829	21.01	126.18
			1/0	831.5	22.25	167.88
			1/0	844	21.74	149.28
		16QAM	1/0	819	22.95	197.24
			1/0	829	20.91	123.31
			1/0	831.5	22.13	163.31
			1/0	844	21.59	144.21
LTE26	5	QPSK	1/0	816.5	23.66	232.27
			1/0	826.5	21.11	129.12
			1/0	831.5	22.47	176.60
			1/0	846.5	21.68	147.23
		16QAM	1/0	816.5	23.57	227.51
			1/0	826.5	20.91	123.31
			1/0	831.5	22.23	167.11
			1/0	846.5	21.40	138.04
LTE26	3	QPSK	1/0	815.5	23.47	222.33
			1/0	825.5	21.31	135.21
			1/0	831.5	22.44	175.39
			1/0	847.5	21.53	142.23
		16QAM	1/0	815.5	23.34	215.77
			1/0	825.5	21.01	126.18
			1/0	831.5	22.20	165.96
			1/0	847.5	21.10	128.82

LTE26	1.4	QPSK	1/0	814.7	23.71	234.96
			1/0	824.7	21.51	141.58
			1/0	831.5	22.52	178.65
			1/0	848.3	21.45	139.64
		16QAM	1/0	814.7	23.38	217.77
			1/0	824.7	20.86	121.90
			1/0	831.5	21.69	147.57
			1/0	848.3	21.00	125.89

LTE Band 41

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	EIRP	
					dBm	mW
LTE41	20	QPSK	1/0	2506	17.34	54.2
			1/0	2593	19.70	93.24
			1/0	2680	19.28	84.64
		16QAM	1/0	2506	16.27	42.36
			1/0	2593	18.84	76.49
			1/0	2680	18.80	75.78
	15	QPSK	1/0	2503.5	16.82	48.07
			1/0	2593	18.13	64.95
			1/0	2682.5	18.23	66.56
		16QAM	1/0	2503.5	16.37	43.34
			1/0	2593	17.59	57.36
			1/0	2682.5	17.73	59.33
	10	QPSK	1/0	2501	16.03	40.07
			1/0	2593	18.87	77.02
			1/0	2685	16.71	46.87
		16QAM	1/0	2501	15.38	34.5
			1/0	2593	18.77	75.26
			1/0	2685	16.30	42.65
	5	QPSK	1/0	2498.5	16.54	45.12
			1/0	2593	19.25	84.06
			1/0	2687.5	18.37	68.64
		16QAM	1/0	2498.5	16.29	42.6
			1/0	2593	18.53	71.22
			1/0	2687.5	17.54	56.7

GSM

Band	High Frequency Substitution Measurement UL Verification Services, Inc.								
		<p>Company: LG Electronics Project #: 15I21235 Date: 7/15/2015 Test Engineer: A. Escamilla Configuration: X-pos , EUT only Location: Chamber A Mode: EGPRS 1900 MHz Fundamentals</p> <p>Test Equipment: Receiving: Horn T136, and Chamber A SMA Cables Substitution: Horn T59, Xft SMA Cable (SN # SERIALNUMBER) Warehouse</p>							
GSM 1900	f	SG reading	Ant. Pol.	Cable Loss	Antenna Gain	EIRP	Limit	Delta	Notes
	MHz	(dBm)	(H/V)	(dB)	(dBi)	(dBm)	(dBm)	(dB)	
EGPRS	Low Ch								
	1850.20	18.05	V	0.9	7.9	25.04	33.0	-8.0	
	1850.20	17.54	H	0.9	7.9	24.53	33.0	-8.5	
	Mid Ch								
	1880.00	17.27	V	0.9	7.9	24.24	33.0	-8.8	
	1880.00	18.15	H	0.9	7.9	25.12	33.0	-7.9	
	High Ch								
	1909.80	17.14	V	0.9	7.9	24.12	33.0	-8.9	
	1909.80	17.78	H	0.9	7.9	24.76	33.0	-8.2	

Band GSM19 00 GPRS	High Frequency Substitution Measurement UL Verification Services, Inc.																																																																																																					
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	Test Engineer:		A. Escamilla																																																																																																			
	Configuration:		X-pos EUT w/ AC Adapter + Headset																																																																																																			
	Location:		Chamber A																																																																																																			
	Mode:		GPRS 1900 MHz Fundamentals																																																																																																			
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Band GSM 850 EGPRS	High Frequency Substitution Measurement UL Verification Services, Inc.																																																																																																	
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	Mode:		EGPRS 850 MHz Fundamentals																																																																																															
	Test Equipment:		Receiving: Hybrid T130, and Chamber A SMA Cables Substitution: Dipole T273, SMA Cable (SN # 506392) Warehouse																																																																																															
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Band GSM 850 GPRS	High Frequency Substitution Measurement UL Verification Services, Inc.																																																																																																					
	Company:		LG																																																																																																			
	Project #:		15I21235																																																																																																			
	Date:		7/16/2015																																																																																																			
	Test Engineer:		A. Escamilla																																																																																																			
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WCDMA

Band Band 2 HSDPA	High Frequency Substitution Measurement UL Verification Services, Inc.								
	Company: LG Electronics Project #: 15I21235 - Date: 7/15/2015 Test Engineer: A. Escamilla Configuration: X-pos EUT Only Location: Chamber A Mode: HSDPA Band 2 Fundamentals								
	Test Equipment: Receiving: Horn T136, and Chamber A SMA Cables Substitution: Horn T59, Xft SMA Cable (SN # SERIALNUMBER) Warehouse								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch								
	1852.40	15.29	V	0.9	7.9	22.28	33.0	-10.7	
	1852.40	15.79	H	0.9	7.9	22.78	33.0	-10.2	
	Mid Ch								
	1880.00	14.69	V	0.9	7.9	21.66	33.0	-11.3	
	1880.00	14.20	H	0.9	7.9	21.17	33.0	-11.8	
High Ch									
1907.60	14.95	V	0.9	7.9	21.93	33.0	-11.1		
1907.60	15.11	H	0.9	7.9	22.09	33.0	-10.9		

Band Band 2 REL99	High Frequency Substitution Measurement UL Verification Services, Inc.								
	Company: LG Electronics Project #: 15I21235 Date: 7/15/2015 Test Engineer: A. Escamilla Configuration: X-pos EUT only Location: Chamber A Mode: Rel99 Band 2 Fundamentals								
	Test Equipment: Receiving: Horn T136, and Chamber A SMA Cables Substitution: Horn T59, Xft SMA Cable (SN # SERIALNUMBER) Warehouse								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch								
	1852.40	16.39	V	0.9	7.9	23.38	33.0	-9.6	
	1852.40	17.09	H	0.9	7.9	24.08	33.0	-8.9	
	Mid Ch								
	1880.00	16.12	V	0.9	7.9	23.09	33.0	-9.9	
	1880.00	17.27	H	0.9	7.9	24.24	33.0	-8.8	
High Ch									
1907.60	15.72	V	0.9	7.9	22.70	33.0	-10.3		
1907.60	15.73	H	0.9	7.9	22.71	33.0	-10.3		

Band Band 4 HSDPA	High Frequency Substitution Measurement UL Verification Services, Inc.																																																																																																	
	Company:		LG Electronics																																																																																															
	Project #:		15I21235																																																																																															
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	Test Engineer:		A. Escamilla																																																																																															
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	Test Equipment:		Receiving: Horn T136, and Chamber A SMA Cables Substitution: Horn T59, 4ft SMA Cable Warehouse																																																																																															
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Band Band 4 REL99	High Frequency Substitution Measurement UL Verification Services, Inc.																																																																																																	
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	Project #:		15I21235																																																																																															
	Date:		7/15/2015																																																																																															
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Band Band 5 HSDPA	High Frequency Substitution Measurement UL Verification Services, Inc.								
	Company: LG Project #: 15I21235 Date: 7/16/2015 Test Engineer: A. Escamilla Configuration: EUT Only (X position) Location: Chamber A Mode: HSDPA Band 5 Fundamentals								
	Test Equipment: Receiving: Hybrid T130, and Chamber A SMA Cables Substitution: Dipole T273, SMA Cable (SN # 506392) Warehouse								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch								
	826.40	14.47	V	0.9	0.0	13.57	38.5	-24.9	
	826.40	23.47	H	0.9	0.0	22.57	38.5	-15.9	
	Mid Ch								
	836.60	13.17	V	0.9	0.0	12.27	38.5	-26.2	
	836.60	23.07	H	0.9	0.0	22.17	38.5	-16.3	
High Ch									
846.60	13.66	V	0.9	0.0	12.76	38.5	-25.7		
846.60	22.54	H	0.9	0.0	21.64	38.5	-16.9		

Band Band 5 REL99	High Frequency Substitution Measurement UL Verification Services, Inc.								
	Company: LG Project #: 15I21235 Date: 7/16/2015 Test Engineer: A. Escamilla Configuration: EUT Only (X position) Location: Chamber A Mode: Rel99 Band 5 Fundamentals								
	Test Equipment: Receiving: Hybrid T130, and Chamber A SMA Cables Substitution: Dipole T273, SMA Cable (SN # 506392) Warehouse								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch								
	826.40	15.47	V	0.9	0.0	14.57	38.5	-23.9	
	826.40	24.51	H	0.9	0.0	23.61	38.5	-14.9	
	Mid Ch								
	836.60	14.20	V	0.9	0.0	13.30	38.5	-25.2	
	836.60	24.08	H	0.9	0.0	23.18	38.5	-15.3	
High Ch									
846.60	14.69	V	0.9	0.0	13.79	38.5	-24.7		
846.60	23.56	H	0.9	0.0	22.66	38.5	-15.8		

CDMA

Band BC1	High Frequency Fundamental Measurement UL Verification Services, Inc.								
	Company: LG Electronics Project #: 15I21235 Date: 7/21/2015 Test Engineer: R.Alegre Configuration: EUT Only Mode: CDMA EVDO BC1								
	Test Equipment: Receiving: Horn T119, and Chamber C SMA Cables Substitution: Horn T59 Substitution, 4ft SMA Cable Warehouse								
	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch								
	1.8513	16.7	V	0.90	8.01	23.81	33.0	-9.2	
	1.8513	20.4	H	0.90	8.01	27.50	33.0	-5.5	
	Mid Ch								
	1.8800	16.3	V	0.90	8.01	23.43	33.0	-9.6	
	1.8800	20.5	H	0.90	8.01	27.57	33.0	-5.4	
High Ch									
1.9088	17.7	V	0.90	8.01	24.84	33.0	-8.2		
1.9088	20.3	H	0.90	8.01	27.45	33.0	-5.6		
Rev. 3.17.11									

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LTE Band 2

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LTE Band 4

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	Test Equipment: Receiving: Hybrid T130, and Chamber A SMA Cables Substitution: Dipole T273, SMA Cable (SN # 506392) Warehouse								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch								
	826.50	12.44	V	0.9	0.0	11.54	38.5	-27.0	
	826.50	22.01	H	0.9	0.0	21.11	38.5	-17.4	
	Mid Ch								
	836.50	12.83	V	0.9	0.0	11.93	38.5	-26.6	
	836.50	23.37	H	0.9	0.0	22.47	38.5	-16.0	
High Ch									
846.50	13.41	V	0.9	0.0	12.51	38.5	-26.0		
846.50	22.58	H	0.9	0.0	21.68	38.5	-16.8		

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LTE Band 7

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LTE Band 12

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LTE Band 13

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LTE Band 17

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LTE Band 25

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LTE Band 26

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Band LTE26 10MHz 16QAM	High Frequency Substitution Measurement UL Verification Services, Inc.								
	Company: LG Project #: 15I21235 Date: 7/16/2015 Test Engineer: A. Escamilla Configuration: EUT Only (X position) Location: Chamber A Mode: LTE_16QAM Band 26 Fundamentals, 10MHz Bandwidth								
	Test Equipment: Receiving: Hybrid T130, and Chamber A SMA Cables Substitution: Dipole T273, SMA Cable (SN # 506392) Warehouse								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Part 90								
	819.00	13.91	V	0.9	0.0	13.01	50.0	-37.0	
	819.00	23.85	H	0.9	0.0	22.95	50.0	-27.1	
	Part 22								
	829.00	13.74	H	0.9	0.0	12.84	38.5	-25.7	
	829.00	21.81	H	0.9	0.0	20.91	38.5	-17.6	
	Mid Ch								
	831.50	13.34	V	0.9	0.0	12.44	38.5	-26.1	
	831.50	23.03	H	0.9	0.0	22.13	38.5	-16.4	
	High Ch								
	844.00	13.42	V	0.9	0.0	12.52	38.5	-26.0	
844.00	22.49	H	0.9	0.0	21.59	38.5	-16.9		

Band LTE26 10MHz QPSK	High Frequency Substitution Measurement UL Verification Services, Inc.																																																																																																																												
	Company: LG																																																																																																																												
	Project #: 15I21235																																																																																																																												
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Band LTE26 5MHz 16QAM	High Frequency Substitution Measurement UL Verification Services, Inc.								
	Company:		LG						
	Project #:		15I21235						
	Date:		7/16/2015						
	Test Engineer:		A. Escamilla						
	Configuration:		EUT Only (X position)						
	Location:		Chamber A						
	Mode:		LTE_16QAM Band 26 Fundamentals, 5MHz Bandwidth						
	Test Equipment:								
			Receiving: Hybrid T130, and Chamber A SMA Cables						
			Substitution: Dipole T273, SMA Cable (SN # 506392) Warehouse						
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Part 90								
	816.50	13.02	V	0.9	0.0	12.12	50.0	-37.9	
	816.50	24.47	H	0.9	0.0	23.57	50.0	-26.4	
Part 22									
826.50	12.24	H	0.9	0.0	11.34	38.5	-27.2		
826.50	21.81	H	0.9	0.0	20.91	38.5	-17.6		
Mid Ch									
831.50	12.64	V	0.9	0.0	11.74	38.5	-26.8		
831.50	23.13	H	0.9	0.0	22.23	38.5	-16.3		
High Ch									
846.50	13.21	V	0.9	0.0	12.31	38.5	-26.2		
846.50	22.30	H	0.9	0.0	21.40	38.5	-17.1		

Band LTE26 5MHz QPSK	High Frequency Substitution Measurement UL Verification Services, Inc.																																																																																																																												
	Company: LG																																																																																																																												
	Project #: 15I21235																																																																																																																												
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f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes																																																																																																																					
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Band LTE26 3MHz 16QAM	High Frequency Substitution Measurement UL Verification Services, Inc.								
	Company:		LG						
	Project #:		15I21235						
	Date:		7/16/2015						
	Test Engineer:		A. Escamilla						
	Configuration:		EUT Only (X position)						
	Location:		Chamber A						
	Mode:		LTE_16QAM Band 26 Fundamentals, 3MHz Bandwidth						
	Test Equipment:								
			Receiving: Hybrid T130, and Chamber A SMA Cables						
			Substitution: Dipole T273, SMA Cable (SN # 506392) Warehouse						
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch								
	815.50	13.76	V	0.9	0.0	12.86	50.0	-37.1	
	815.50	24.24	H	0.9	0.0	23.34	50.0	-26.7	
Part 22									
825.50	13.04	V	0.9	0.0	12.14	38.5	-26.4		
825.50	21.91	H	0.9	0.0	21.01	38.5	-17.5		
Mid Ch									
831.50	13.03	V	0.9	0.0	12.13	38.5	-26.4		
831.50	23.10	H	0.9	0.0	22.20	38.5	-16.3		
High Ch									
847.50	12.61	V	0.9	0.0	11.71	38.5	-26.8		
847.50	22.00	H	0.9	0.0	21.10	38.5	-17.4		

Band LTE26 3MHz QPSK	High Frequency Substitution Measurement UL Verification Services, Inc.										
	Company:		LG								
	Project #:		15I21235								
	Date:		7/16/2015								
	Test Engineer:		A. Escamilla								
	Configuration:		EUT Only (X position)								
	Location:		Chamber A								
	Mode:		LTE_QPSK Band 26 Fundamentals, 3MHz Bandwidth								
	Test Equipment:										
			Receiving: Hybrid T130, and Chamber A SMA Cables								
			Substitution: Dipole T273, SMA Cable (SN # 506392) Warehouse								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes		
	Part 90										
	815.50	13.85	V	0.9	0.0	12.95	50.0	-37.1			
	815.50	24.37	H	0.9	0.0	23.47	50.0	-26.5			
Part 22											
825.50	13.24	V	0.9	0.0	12.34	38.5	-26.2				
825.50	22.21	H	0.9	0.0	21.31	38.5	-17.2				
Mid Ch											
831.50	13.30	V	0.9	0.0	12.40	38.5	-26.1				
831.50	23.34	H	0.9	0.0	22.44	38.5	-16.1				
High Ch											
847.50	12.91	V	0.9	0.0	12.01	38.5	-26.5				
847.50	22.43	H	0.9	0.0	21.53	38.5	-17.0				

Band LTE26 1.4MHz 16QAM	High Frequency Substitution Measurement UL Verification Services, Inc.								
	Company: LG Project #: 15I21235 Date: 7/16/2015 Test Engineer: A. Escamilla Configuration: EUT Only (X position) Location: Chamber A Mode: LTE_16QAM Band 26 Fundamentals, 1.4MHz Bandwidth								
	Test Equipment: Receiving: Hybrid T130, and Chamber A SMA Cables Substitution: Dipole T273, SMA Cable (SN # 506392) Warehouse								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Part 90								
	814.70	13.72	V	0.9	0.0	12.82	50.0	-37.2	
	814.70	24.28	H	0.9	0.0	23.38	50.0	-26.6	
	Part 22								
	824.70	13.19	V	0.9	0.0	12.29	38.5	-26.2	
	824.70	21.76	H	0.9	0.0	20.86	38.5	-17.6	
Mid Ch									
831.50	12.70	V	0.9	0.0	11.80	38.5	-26.7		
831.50	22.59	H	0.9	0.0	21.69	38.5	-16.8		
High Ch									
848.30	12.66	V	0.9	0.0	11.76	38.5	-26.7		
848.30	21.90	H	0.9	0.0	21.00	38.5	-17.5		

LTE Band 41

Band LTE41 20MHz 16QAM	High Frequency Substitution Measurement UL Verification Services, Inc.																																																																																																
	Company:		LG																																																																																														
	Project #:		15I21235																																																																																														
	Date:		7/22/2015																																																																																														
	Test Engineer:		A. Escamilla																																																																																														
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	2501.00	7.45	H	0.9	9.5	16.03	33.0	-17.0	
	Mid Ch								
	2593.00	6.52	V	0.9	9.5	15.13	33.0	-17.9	
2593.00	10.26	H	0.9	9.5	18.87	33.0	-14.1		
High Ch									
2685.00	5.91	V	0.9	9.7	14.75	33.0	-18.3		
2685.00	7.87	H	0.9	9.7	16.71	33.0	-16.3		

Band LTE41 5MHz 16QAM	High Frequency Substitution Measurement UL Verification Services, Inc.																																																																																																	
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