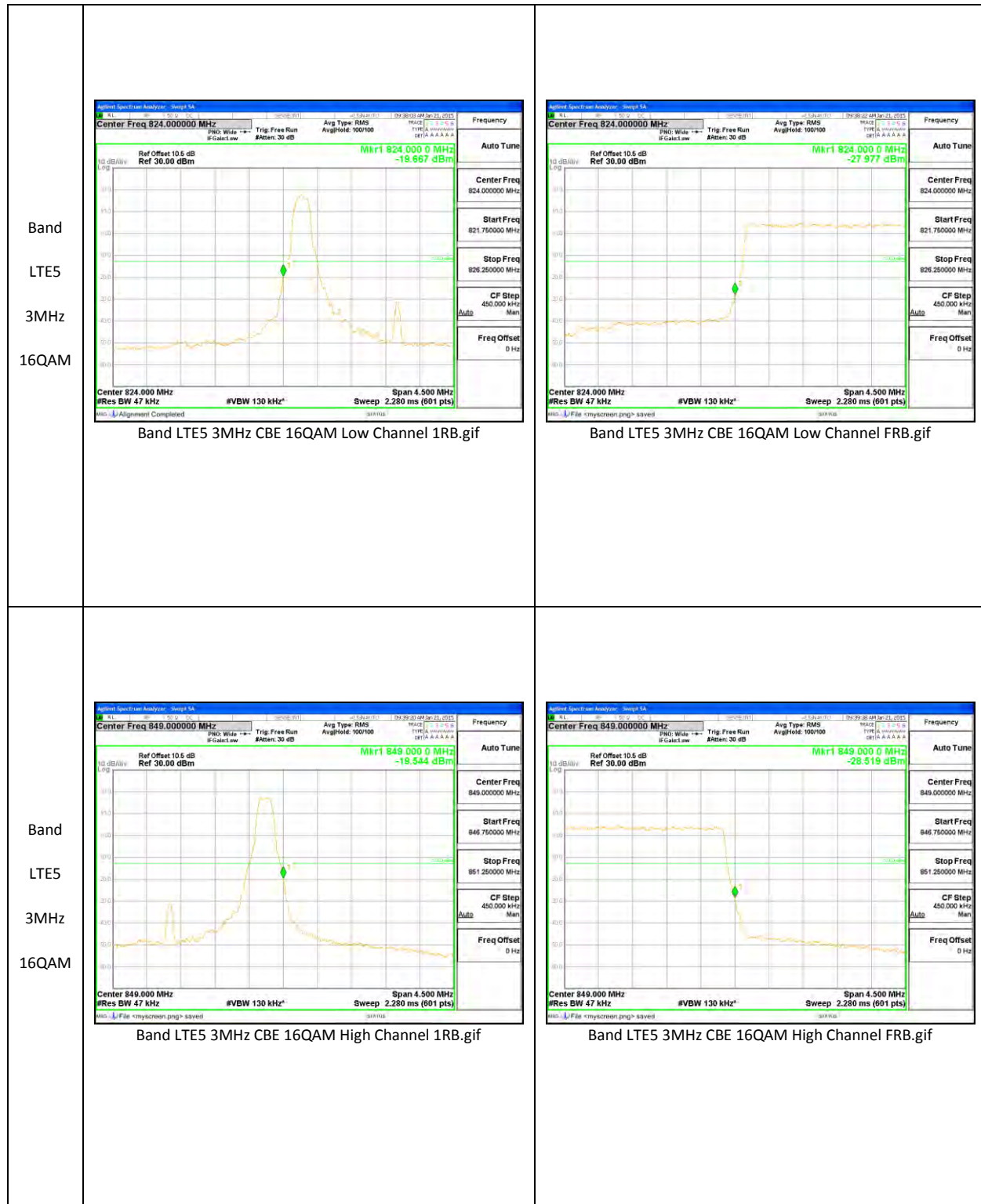
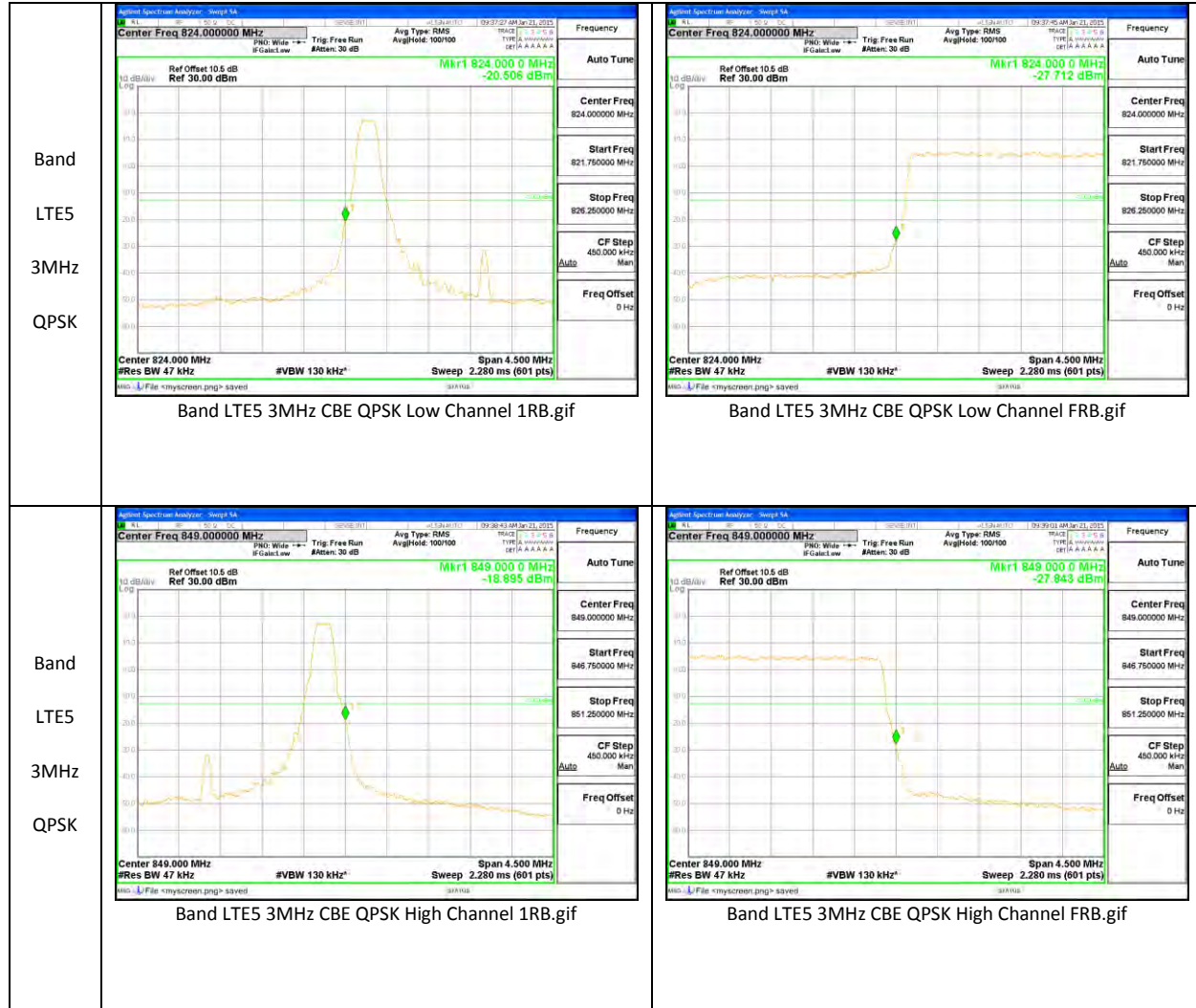
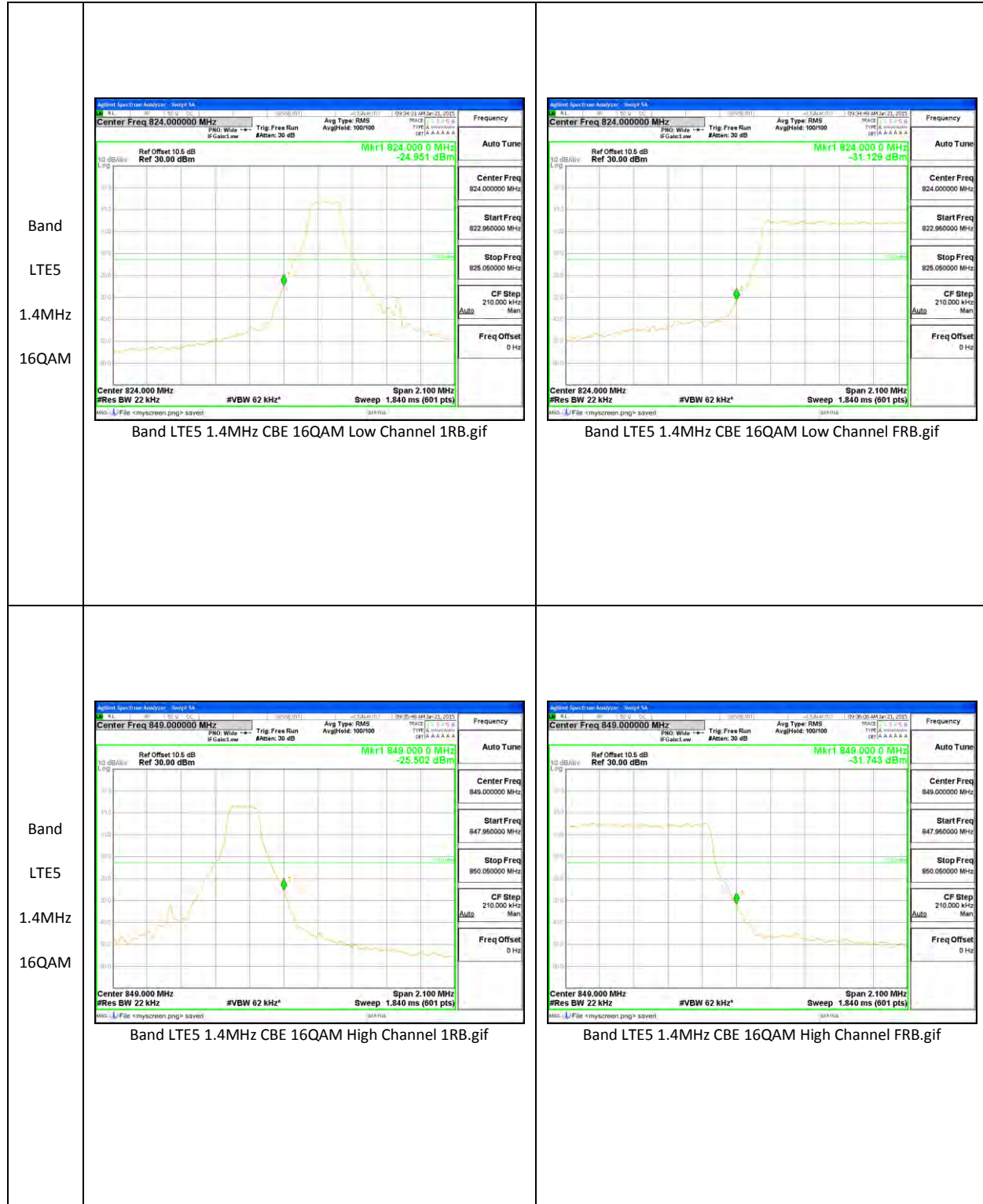
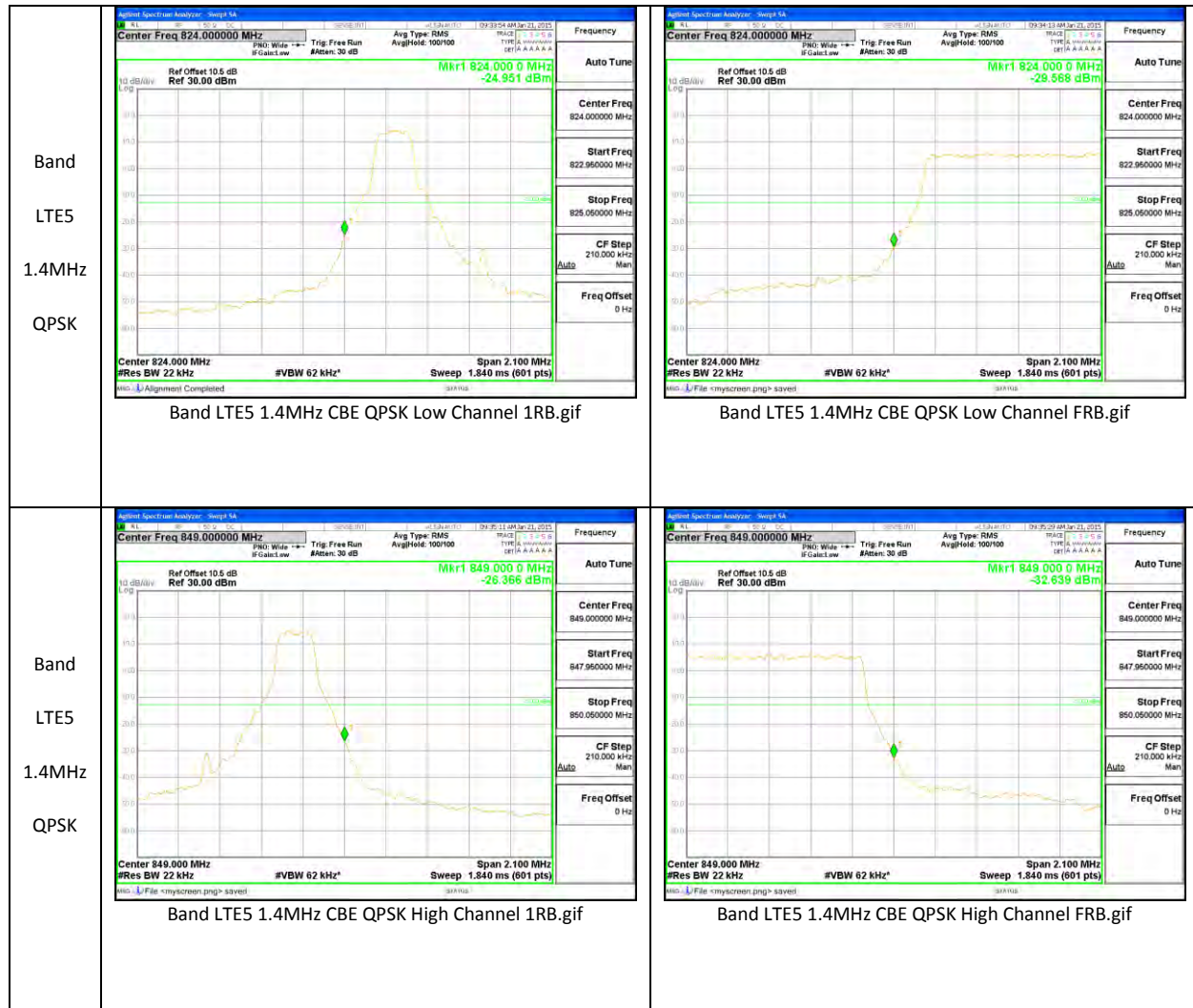


<p>Band LTE5 5MHz QPSK</p>	<p>Center Freq 824.000000 MHz Res BW 75 kHz Span 7.500 MHz #VBW 220 kHz Sweep 3.760 ms (601 pts)</p>	<p>Center Freq 824.000000 MHz Res BW 75 kHz Span 7.500 MHz #VBW 220 kHz Sweep 3.760 ms (601 pts)</p>	
<p>Band LTE5 5MHz CBE QPSK Low Channel 1RB.gif</p>		<p>Band LTE5 5MHz CBE QPSK Low Channel FRB.gif</p>	
<p>Band LTE5 5MHz QPSK</p>	<p>Center Freq 849.000000 MHz Res BW 75 kHz Span 7.500 MHz #VBW 220 kHz Sweep 3.760 ms (601 pts)</p>	<p>Center Freq 849.000000 MHz Res BW 75 kHz Span 7.5 MHz #VBW 220 kHz Sweep 4.04 ms (601 pts)</p>	
<p>Band LTE5 5MHz CBE QPSK High Channel 1RB.gif</p>		<p>Band LTE5 5MHz CBE QPSK High Channel FRB.gif</p>	

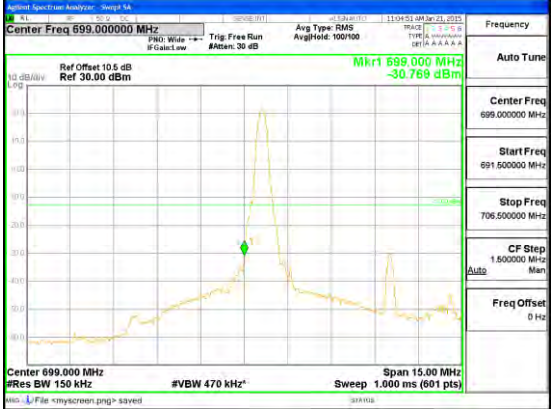

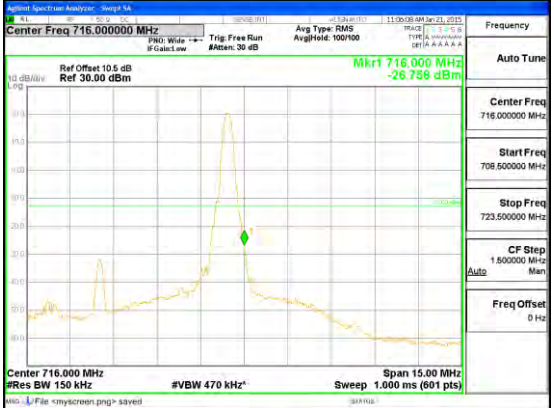



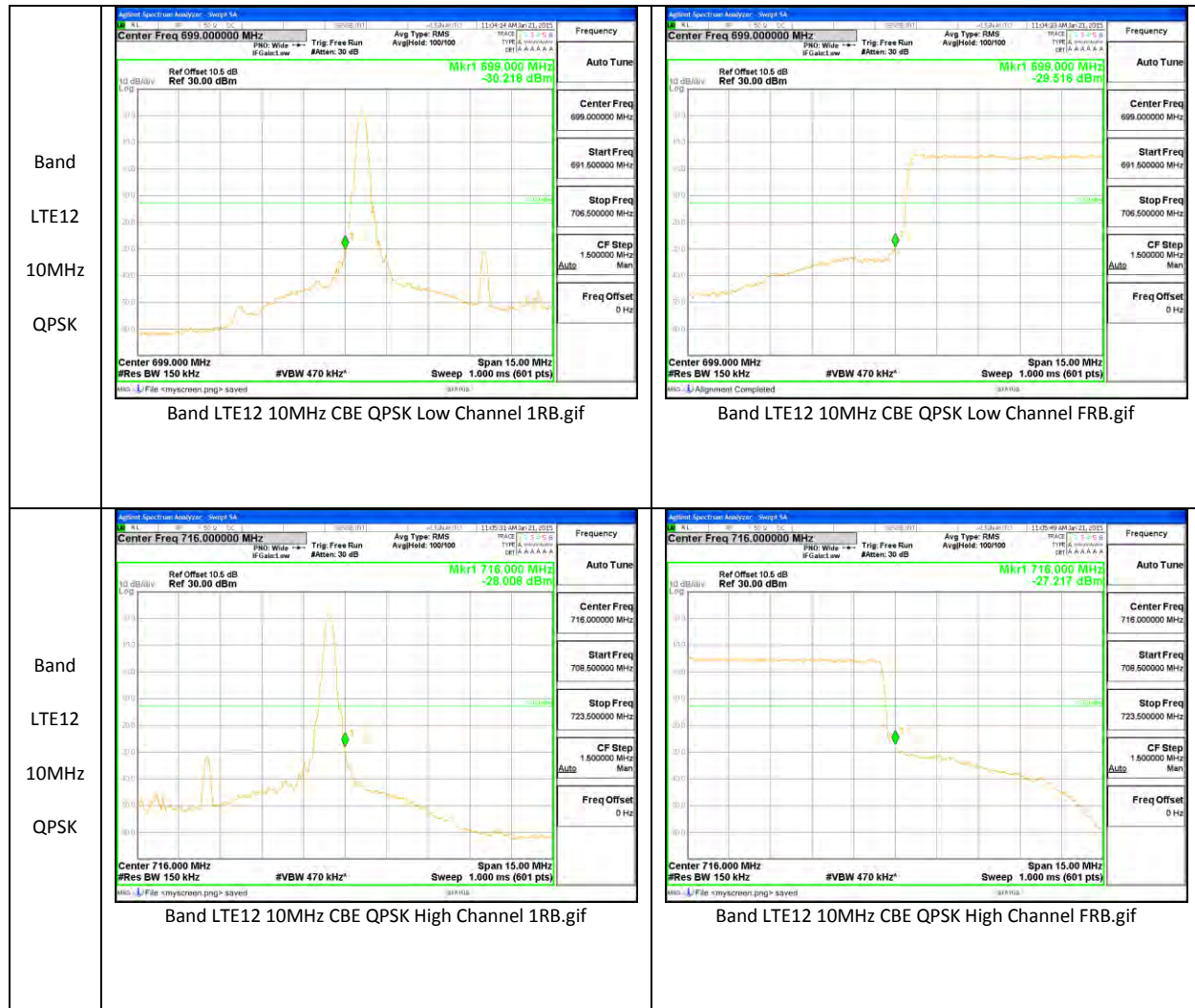


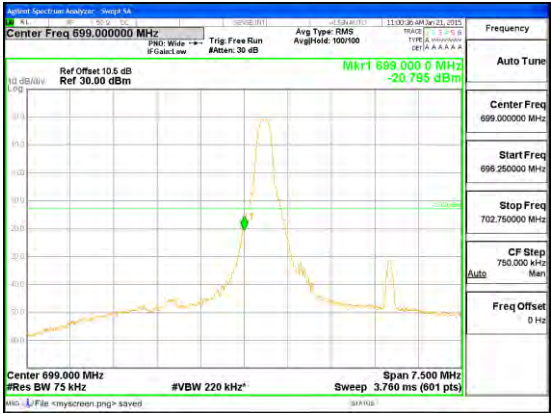
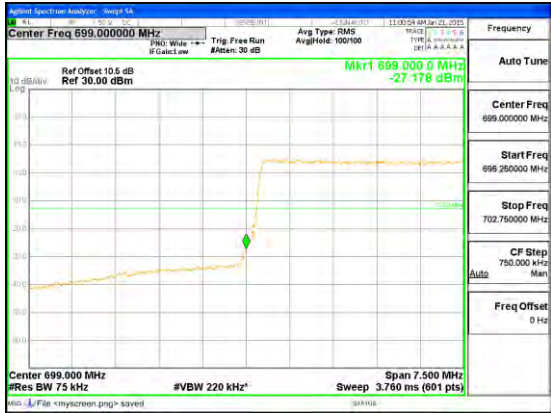
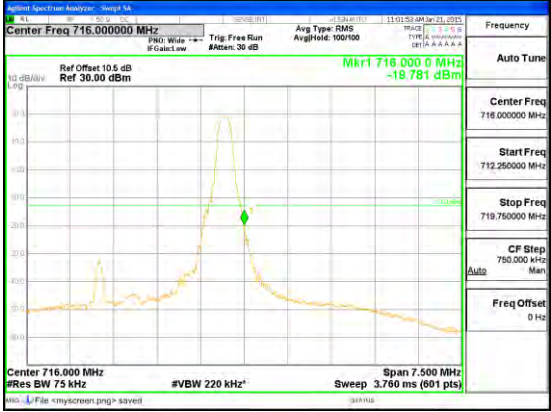



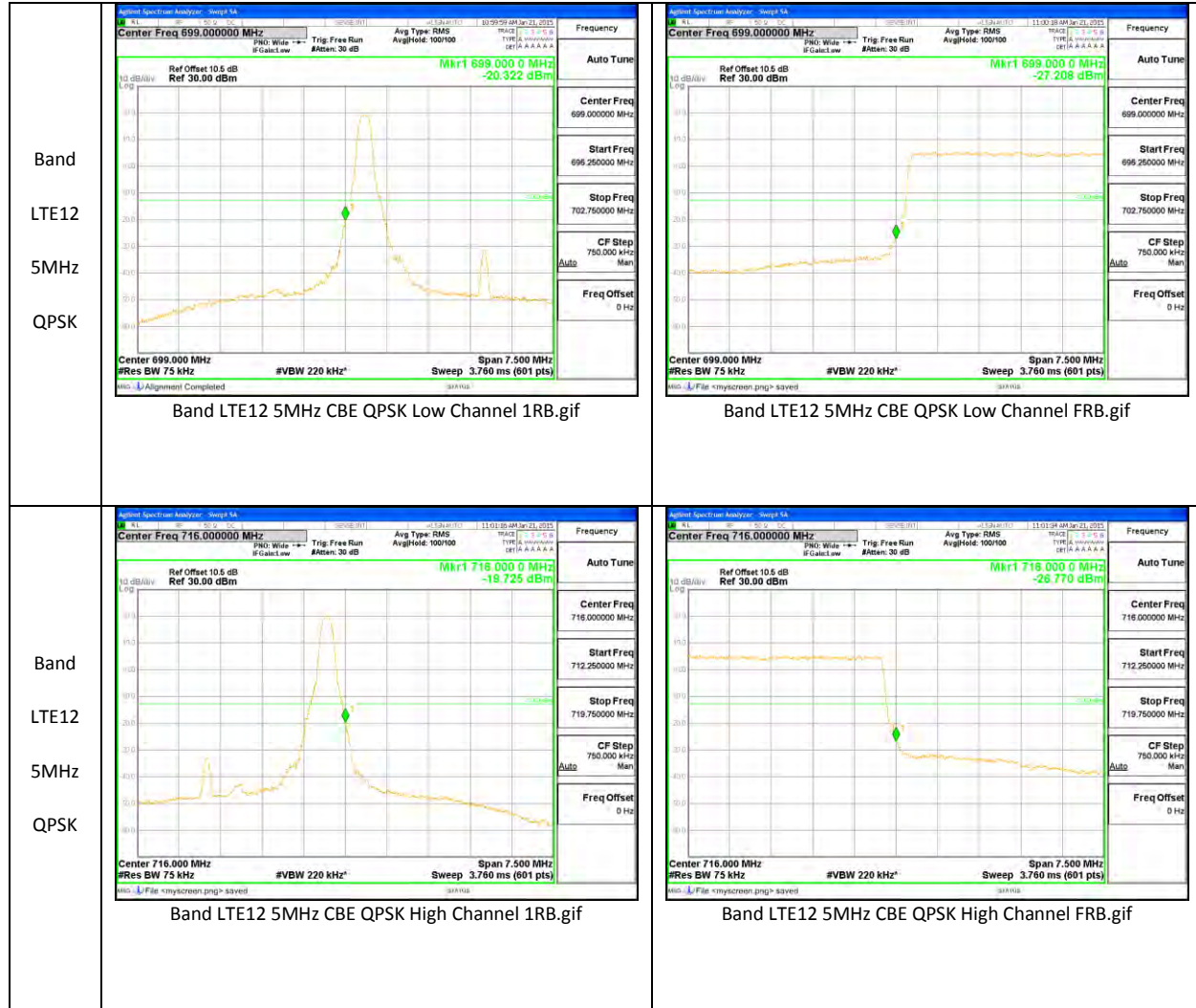


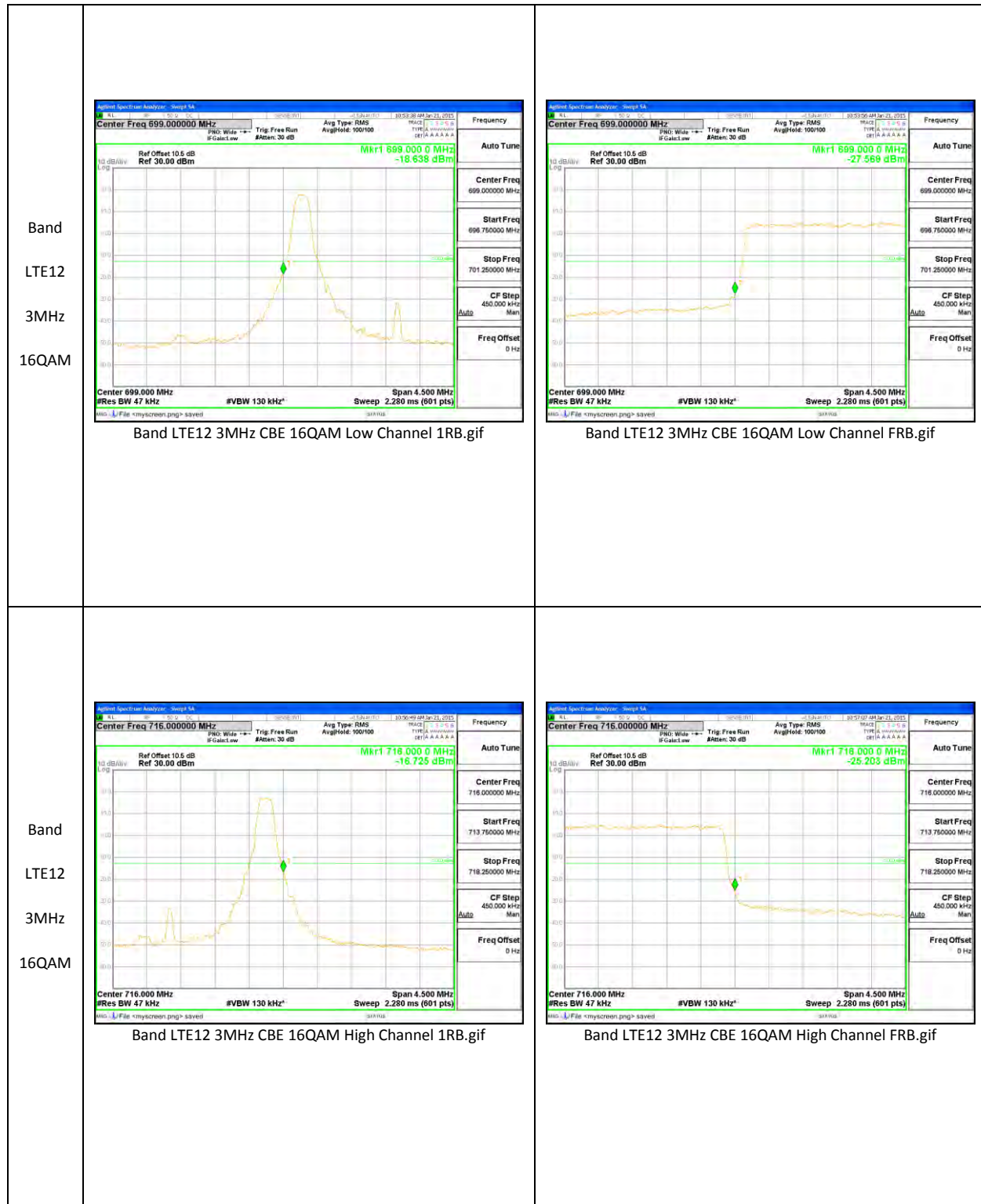
LTE Band 12

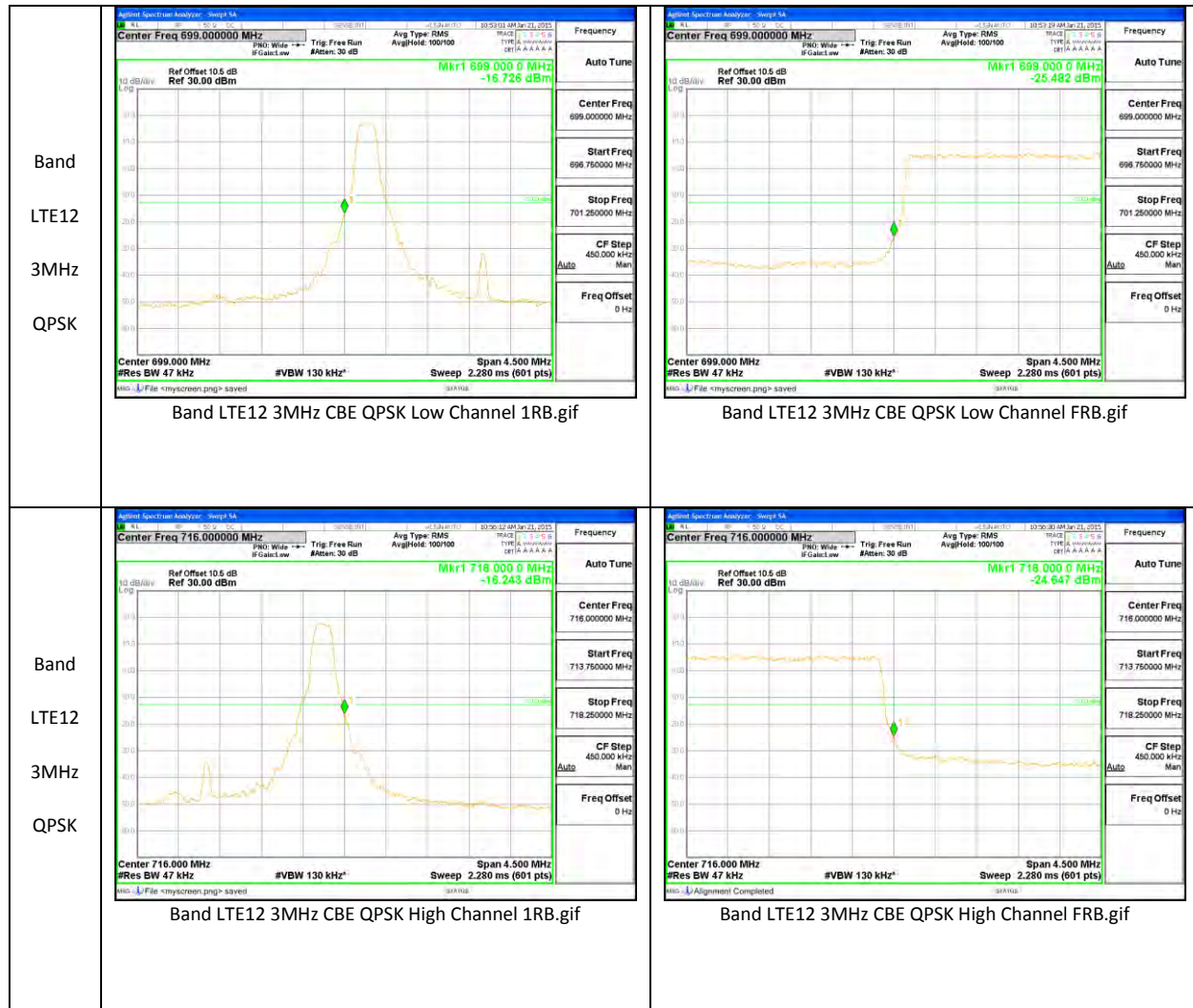
<p>Band LTE12 10MHz 16QAM</p>	 <p>Band LTE12 10MHz CBE 16QAM Low Channel 1RB.gif</p>	 <p>Band LTE12 10MHz CBE 16QAM Low Channel FRB.gif</p>
<p>Band LTE12 10MHz 16QAM</p>	 <p>Band LTE12 10MHz CBE 16QAM High Channel 1RB.gif</p>	 <p>Band LTE12 10MHz CBE 16QAM High Channel FRB.gif</p>



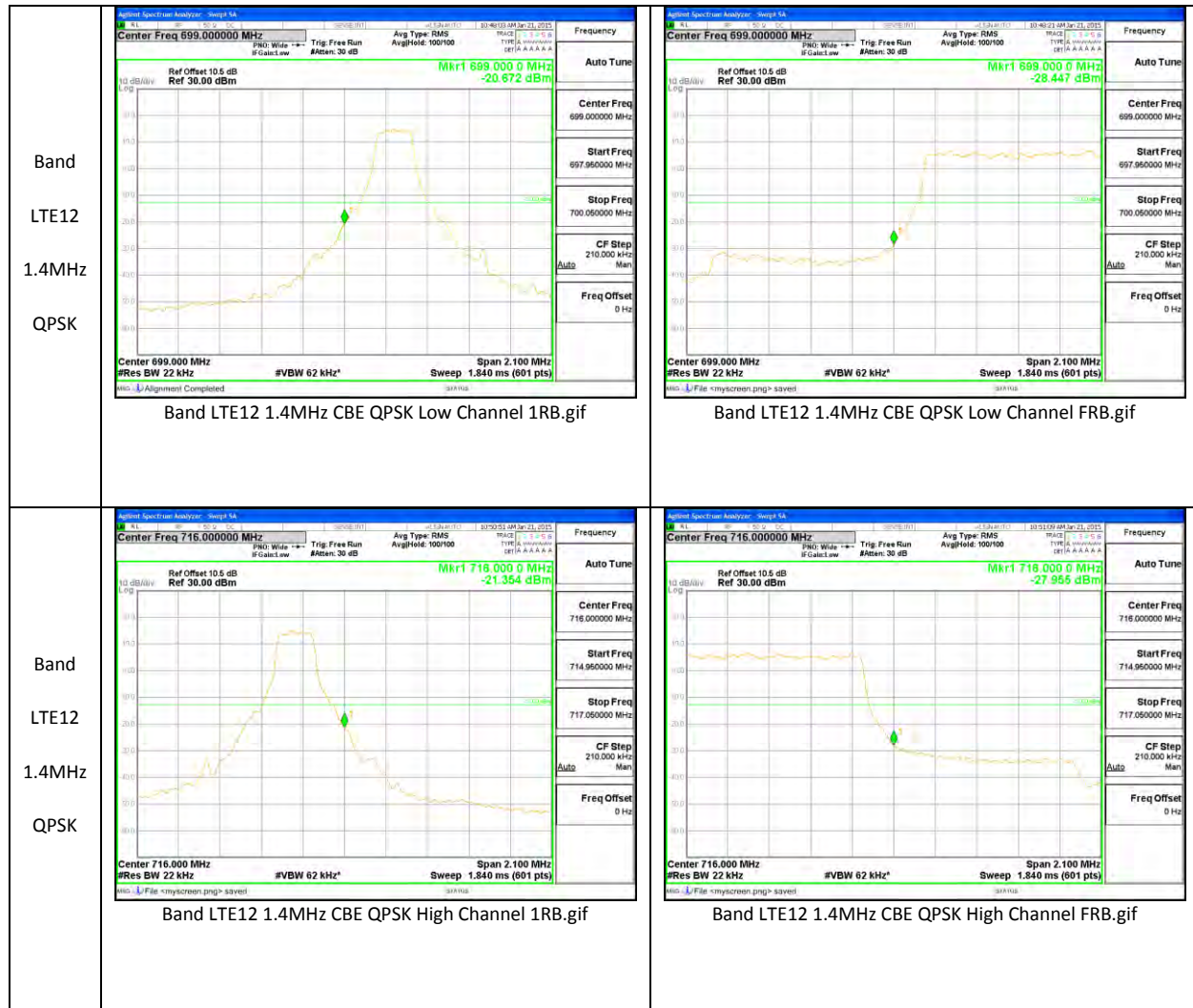
<p>Band LTE12 5MHz 16QAM</p>	 <p>Band LTE12 5MHz CBE 16QAM Low Channel 1RB.gif</p>	 <p>Band LTE12 5MHz CBE 16QAM Low Channel FRB.gif</p>
<p>Band LTE12 5MHz 16QAM</p>	 <p>Band LTE12 5MHz CBE 16QAM High Channel 1RB.gif</p>	 <p>Band LTE12 5MHz CBE 16QAM High Channel FRB.gif</p>





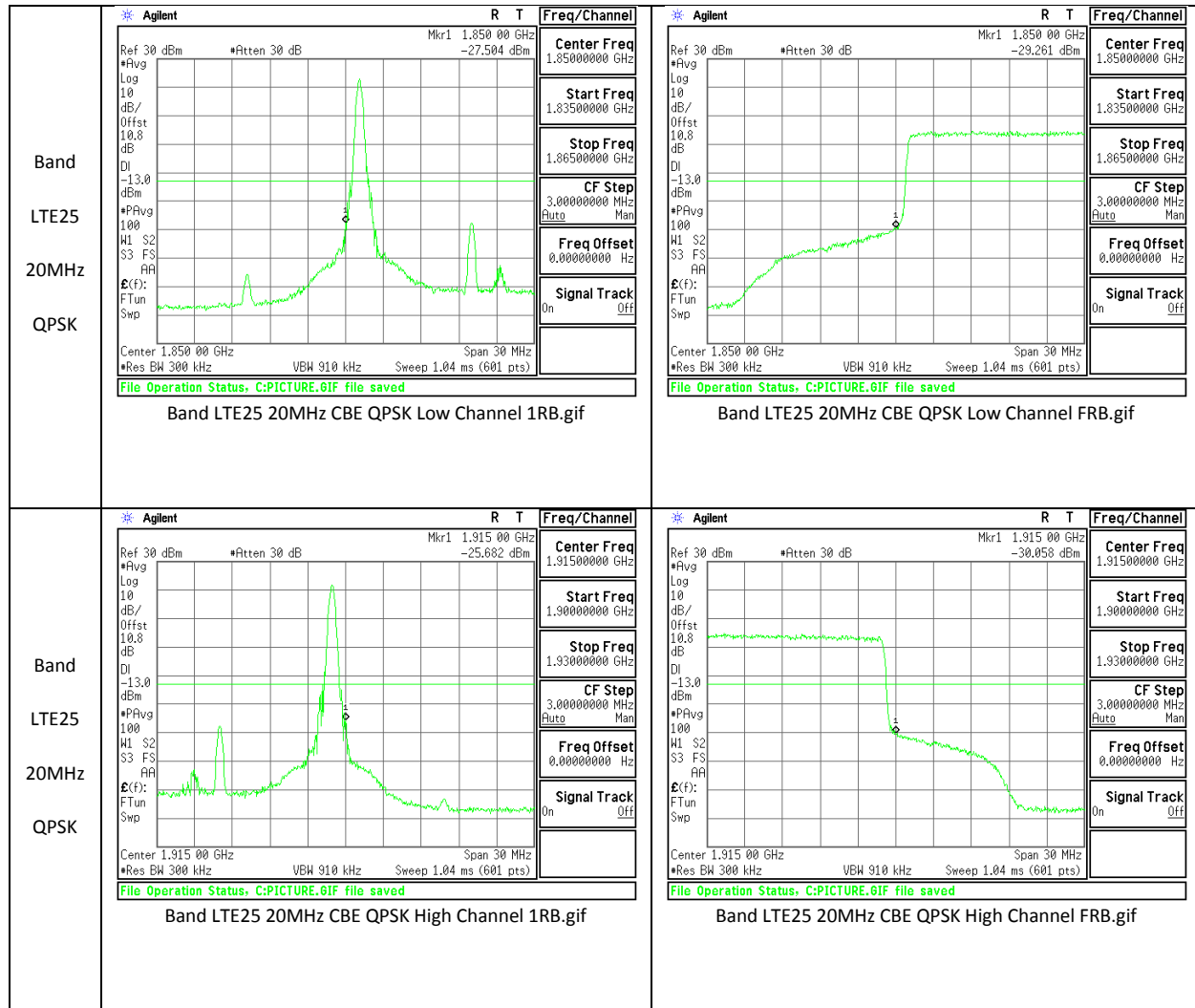


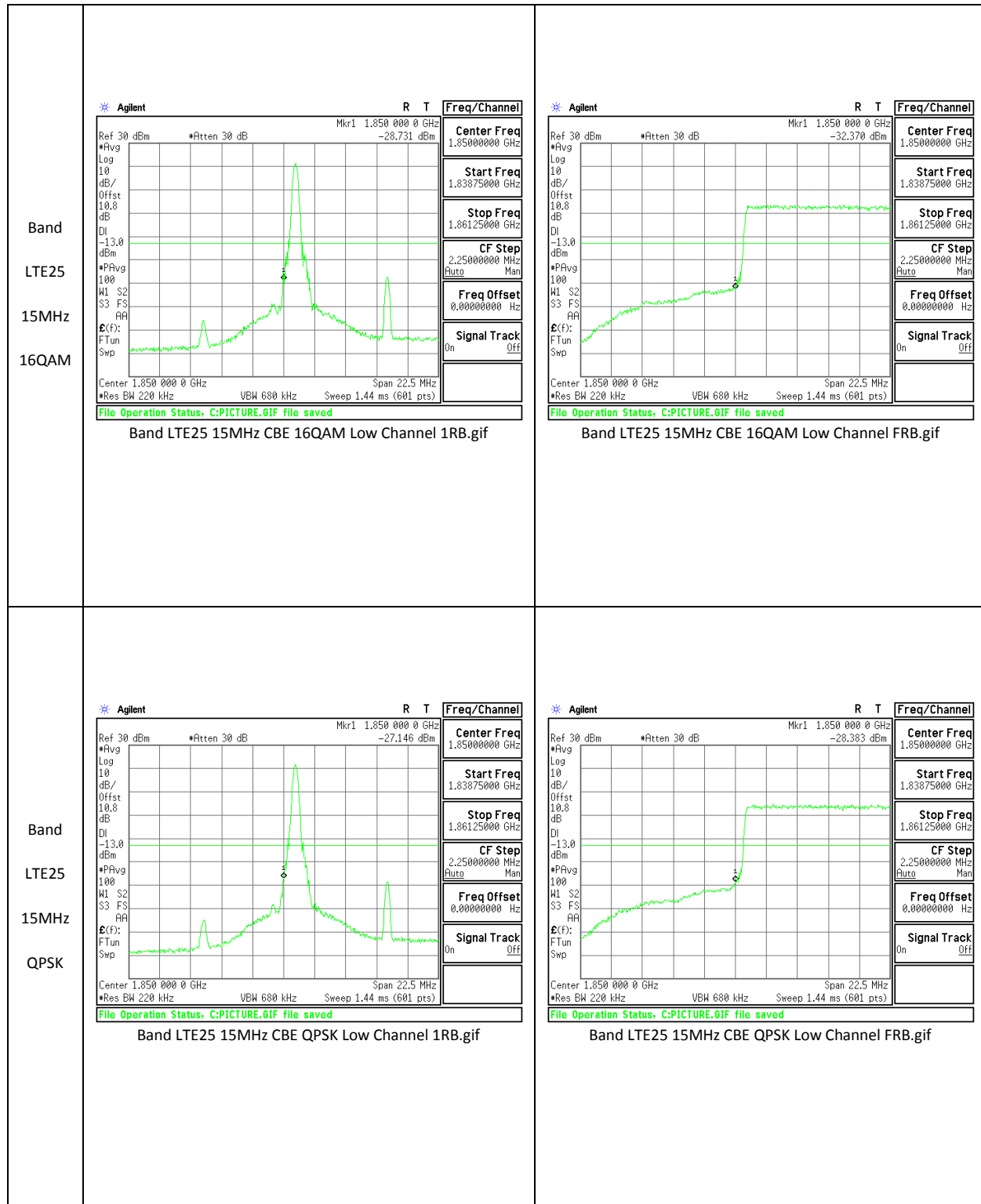
<p>Band LTE12 1.4MHz 16QAM</p>	<p>Center Freq 699.000000 MHz Ref Offset 10.5 dB Ref 30.00 dBm Mkrt1 699.000 0 MHz -22.776 dBm Auto Tune Center Freq 699.000000 MHz Start Freq 697.950000 MHz Stop Freq 700.050000 MHz CF Step 210.000 MHz Freq Offset 0 Hz Center 699.000 MHz #VBW 62 kHz* Span 2.100 MHz #Res BW 22 kHz Sweep 1.840 ms (601 pts)</p>	<p>Center Freq 699.000000 MHz Ref Offset 10.5 dB Ref 30.00 dBm Mkrt1 699.000 0 MHz -27.685 dBm Auto Tune Center Freq 699.000000 MHz Start Freq 697.950000 MHz Stop Freq 700.050000 MHz CF Step 210.000 MHz Freq Offset 0 Hz Center 699.000 MHz #VBW 62 kHz* Span 2.100 MHz #Res BW 22 kHz Sweep 1.840 ms (601 pts)</p>
<p>Band LTE12 1.4MHz CBE 16QAM Low Channel 1RB.gif</p>	<p>Band LTE12 1.4MHz CBE 16QAM Low Channel FRB.gif</p>	
<p>Band LTE12 1.4MHz 16QAM</p>	<p>Center Freq 716.000000 MHz Ref Offset 10.5 dB Ref 30.00 dBm Mkrt1 716.000 0 MHz -22.161 dBm Auto Tune Center Freq 716.000000 MHz Start Freq 714.950000 MHz Stop Freq 717.050000 MHz CF Step 210.000 MHz Freq Offset 0 Hz Center 716.000 MHz #VBW 62 kHz* Span 2.100 MHz #Res BW 22 kHz Sweep 1.840 ms (601 pts)</p>	<p>Center Freq 716.000000 MHz Ref Offset 10.5 dB Ref 30.00 dBm Mkrt1 716.000 0 MHz -27.395 dBm Auto Tune Center Freq 716.000000 MHz Start Freq 714.950000 MHz Stop Freq 717.050000 MHz CF Step 210.000 MHz Freq Offset 0 Hz Center 716.000 MHz #VBW 62 kHz* Span 2.100 MHz #Res BW 22 kHz Sweep 1.840 ms (601 pts)</p>
<p>Band LTE12 1.4MHz CBE 16QAM High Channel 1RB.gif</p>	<p>Band LTE12 1.4MHz CBE 16QAM High Channel FRB.gif</p>	

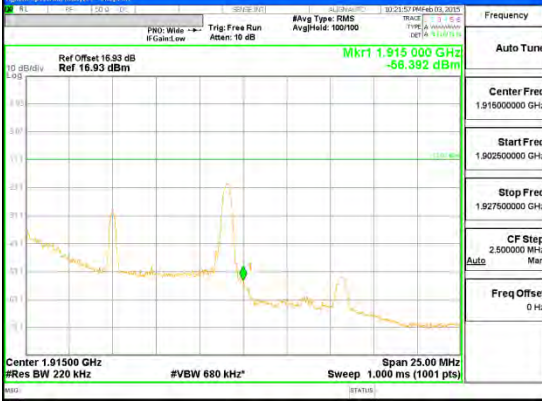

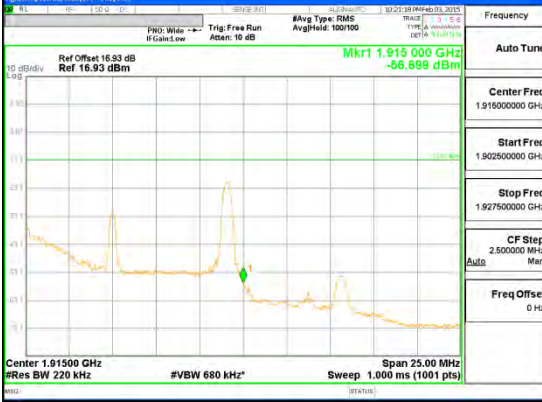



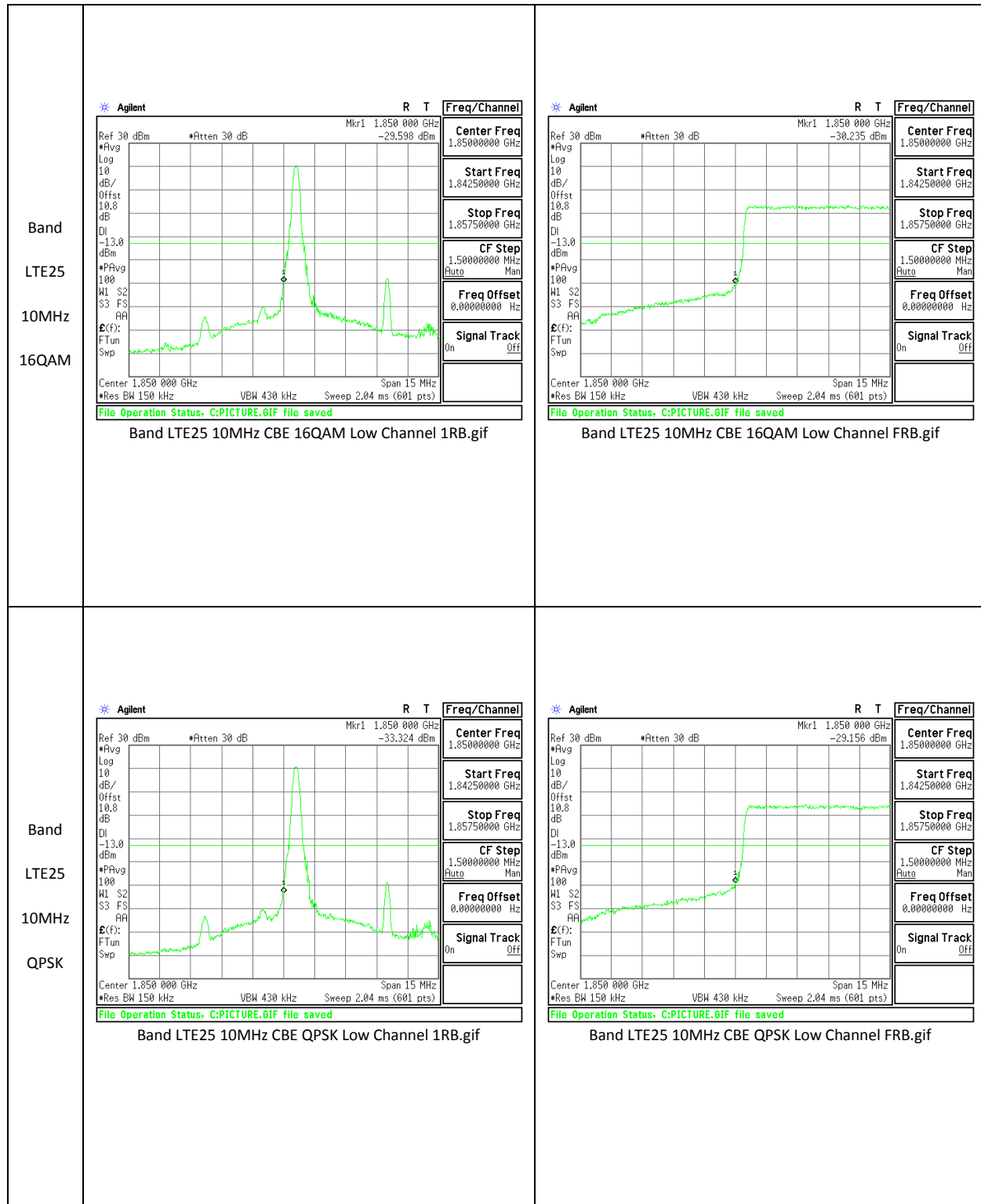
LTE Band 25

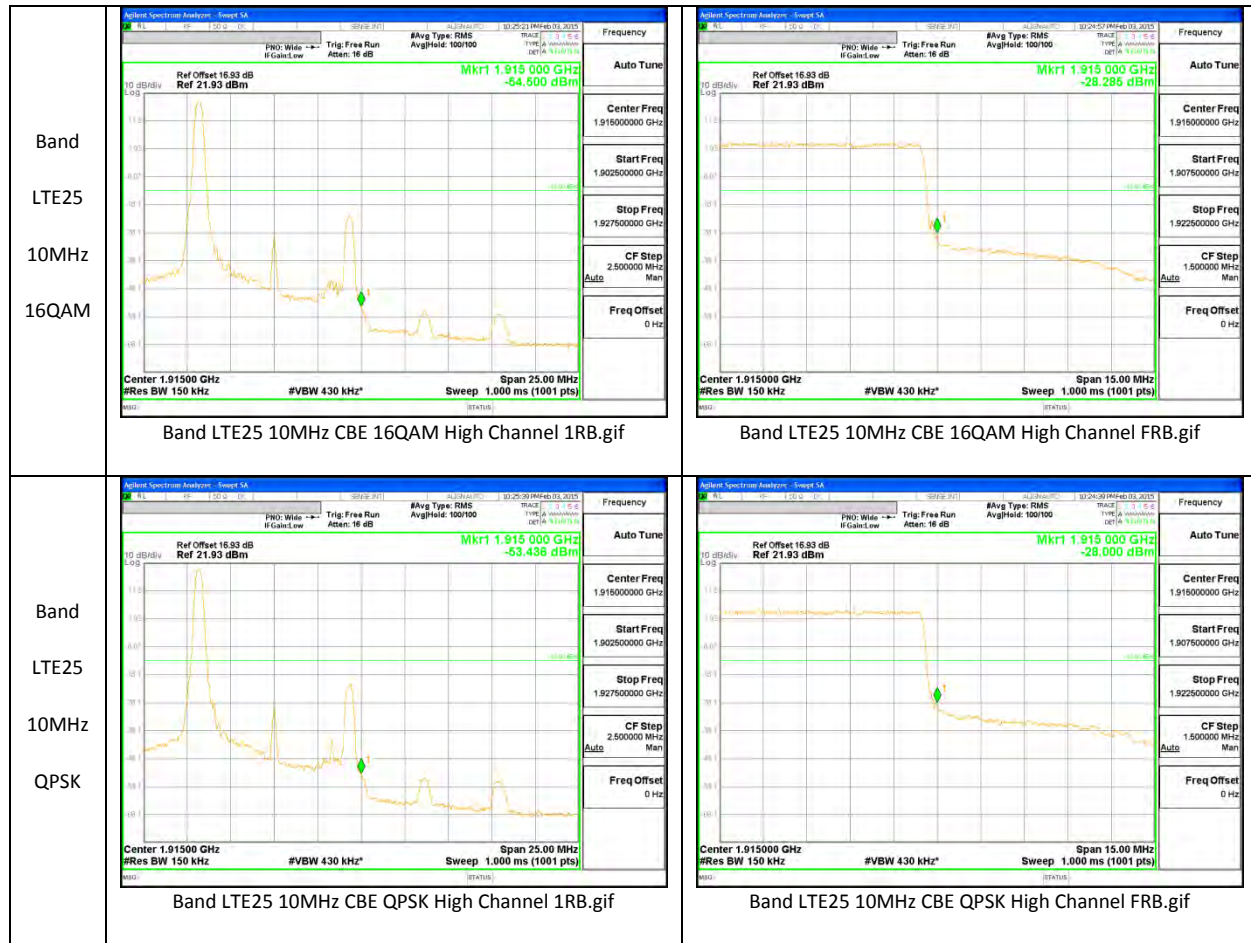
<p>Band LTE25 20MHz 16QAM</p>	<p>Band LTE25 20MHz CBE 16QAM Low Channel 1RB.gif</p>	<p>Band LTE25 20MHz CBE 16QAM Low Channel FRB.gif</p>
<p>Band LTE25 20MHz 16QAM</p>	<p>Band LTE25 20MHz CBE 16QAM High Channel 1RB.gif</p>	<p>Band LTE25 20MHz CBE 16QAM High Channel FRB.gif</p>

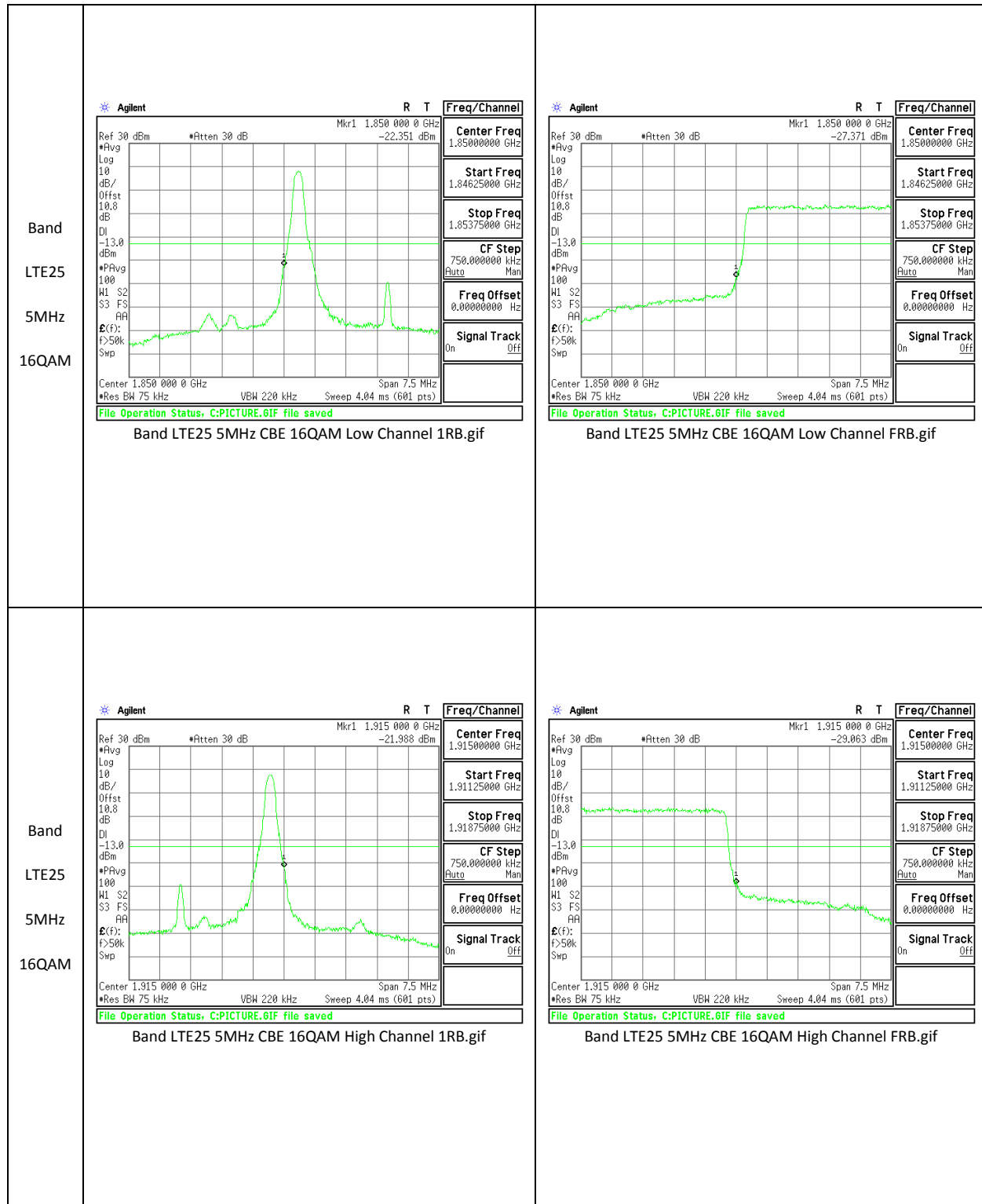


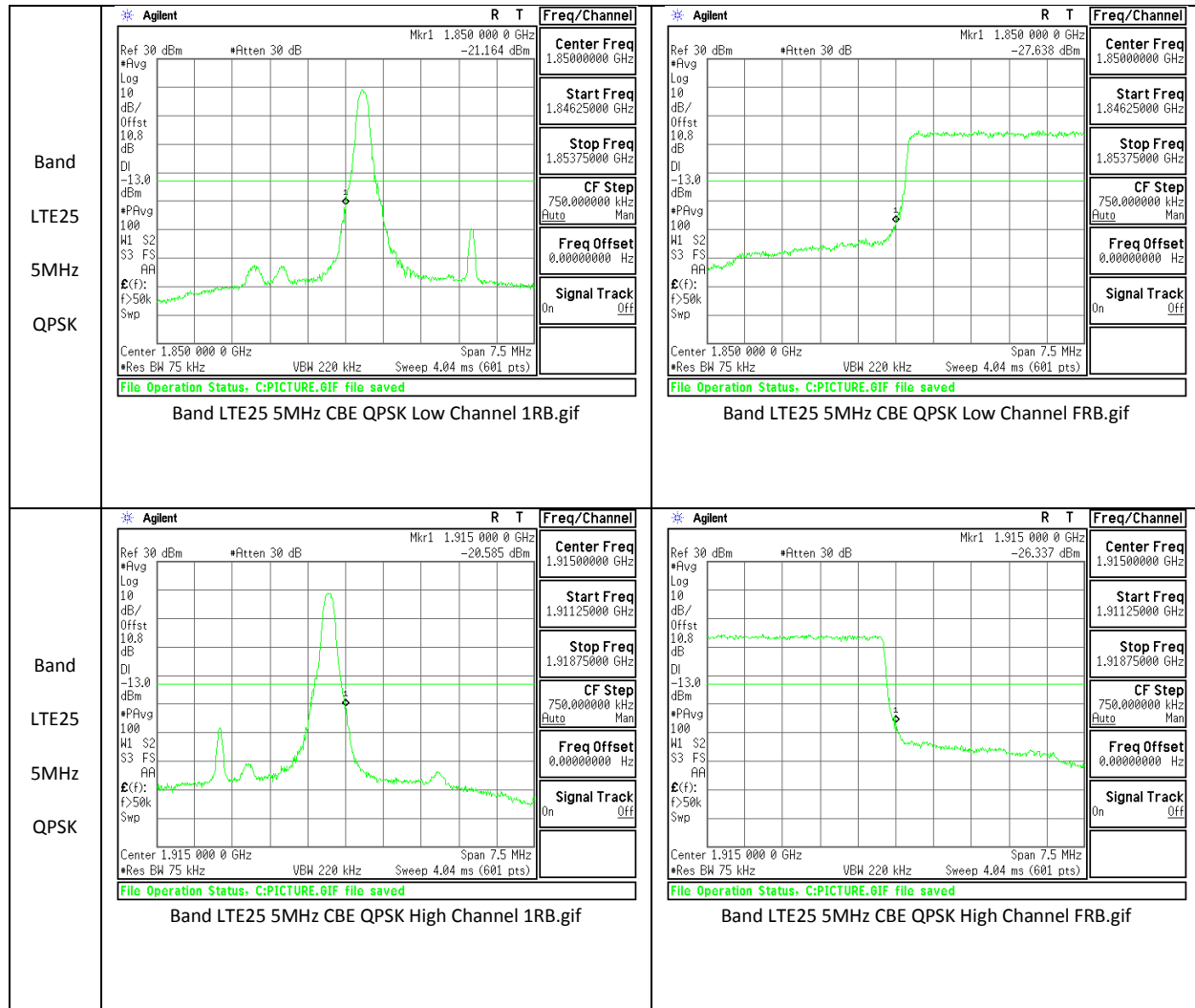


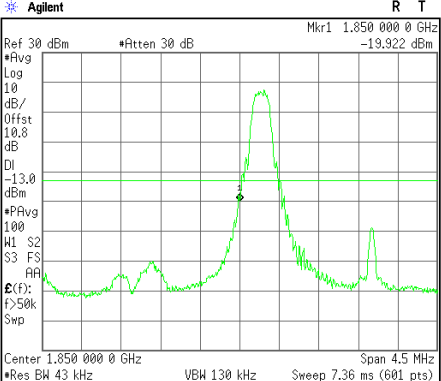
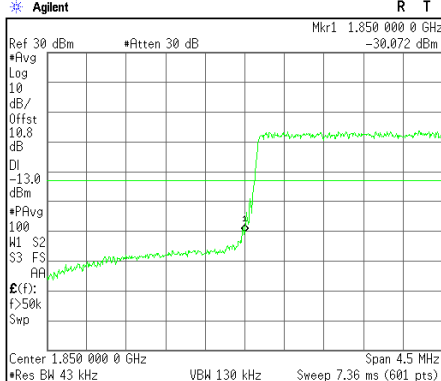
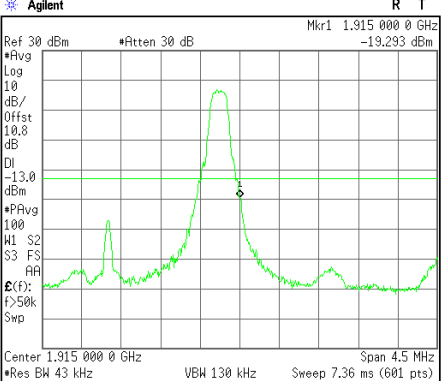
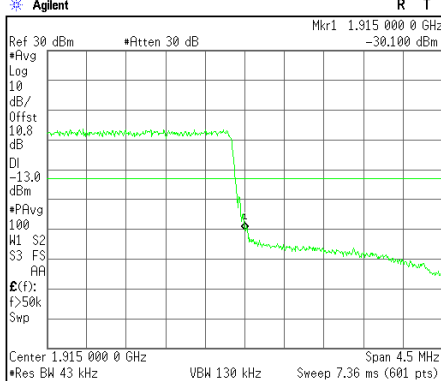
<p>Band LTE25 15MHz 16QAM</p>	 <p>Band LTE25 15MHz CBE 16QAM High Channel 1RB.gif</p>	 <p>Band LTE25 15MHz CBE 16QAM High Channel FRB.gif</p>
<p>Band LTE25 15MHz QPSK</p>	 <p>Band LTE25 15MHz CBE QPSK High Channel 1RB.gif</p>	 <p>Band LTE25 15MHz CBE QPSK High Channel FRB.gif</p>

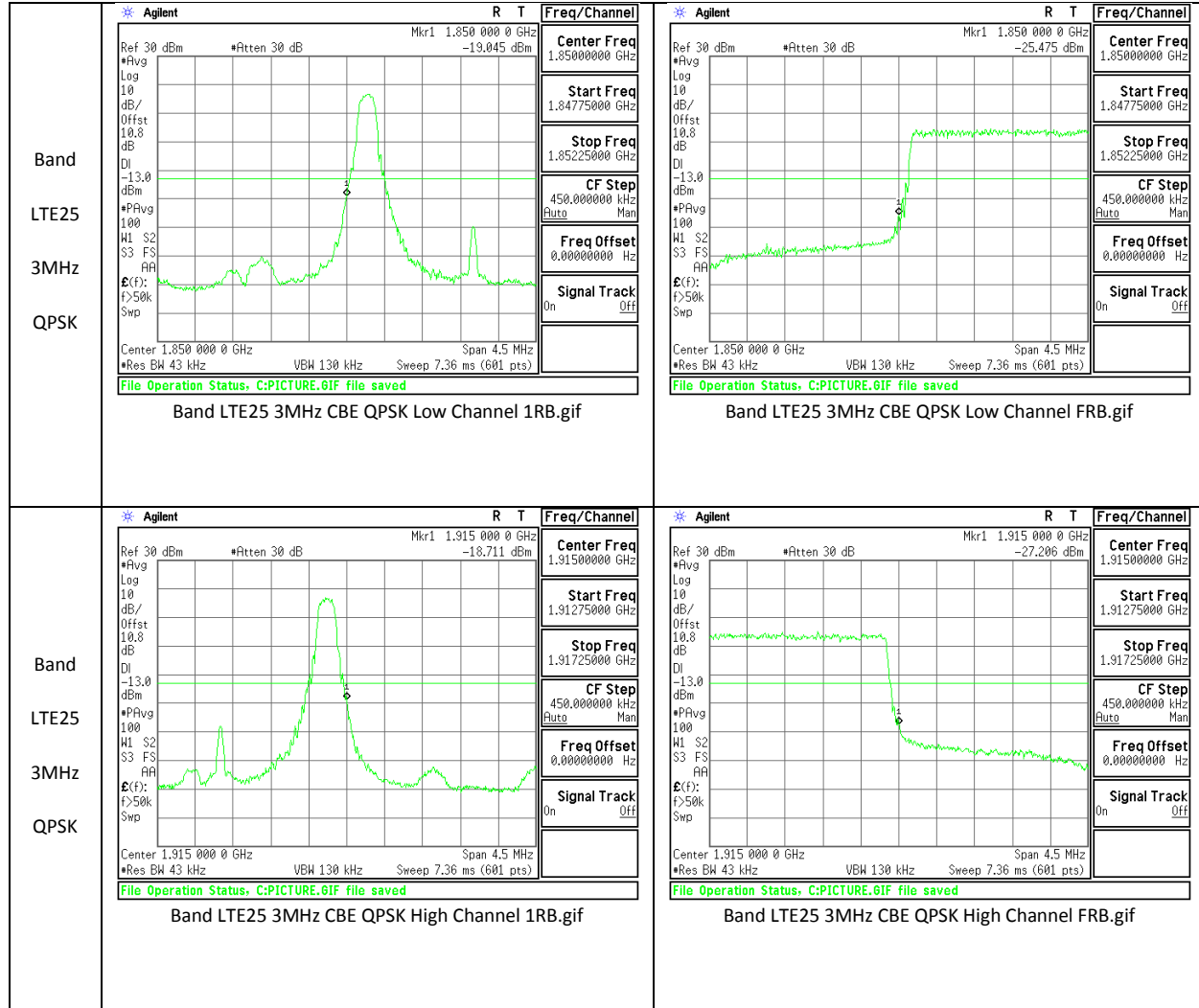


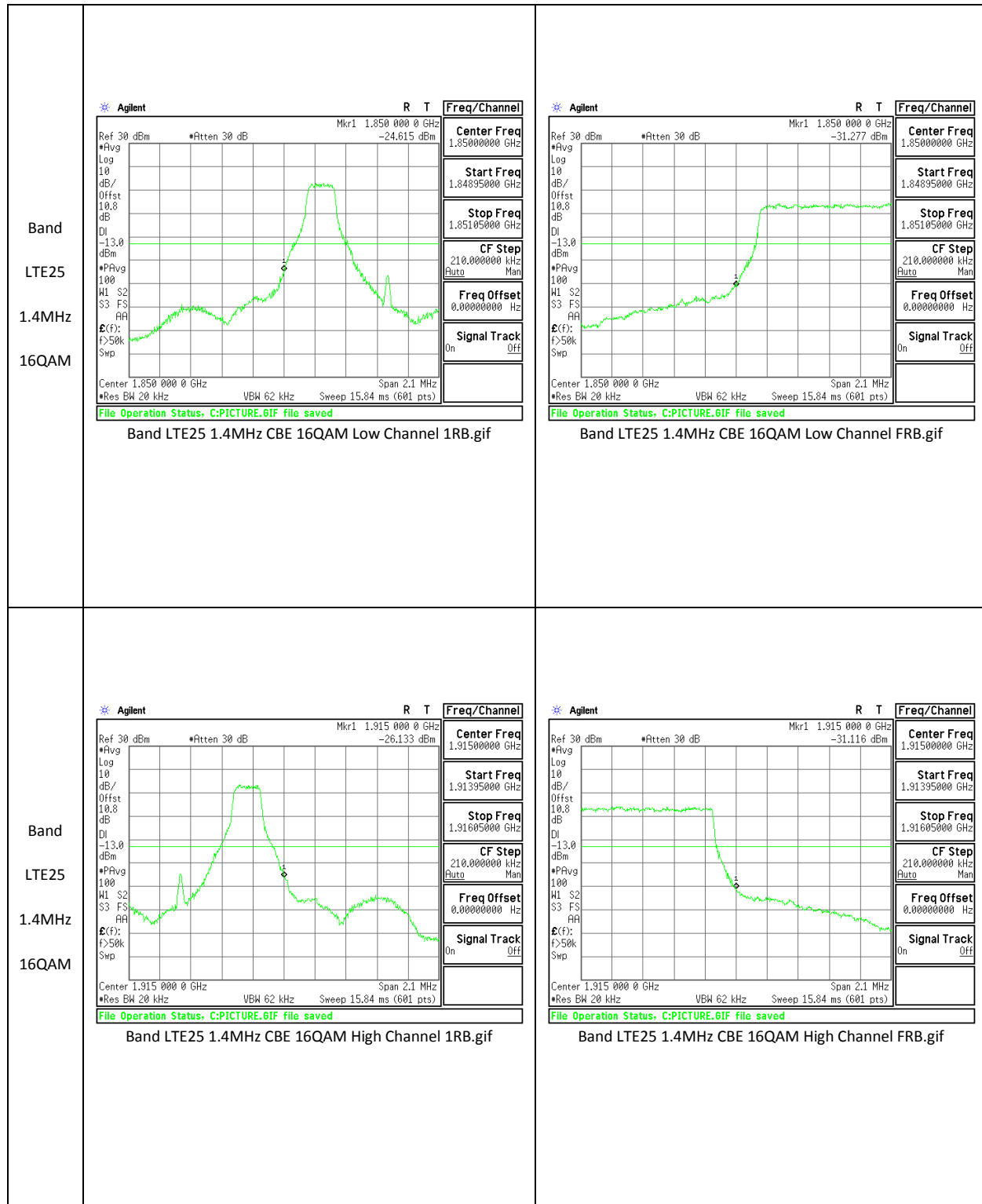


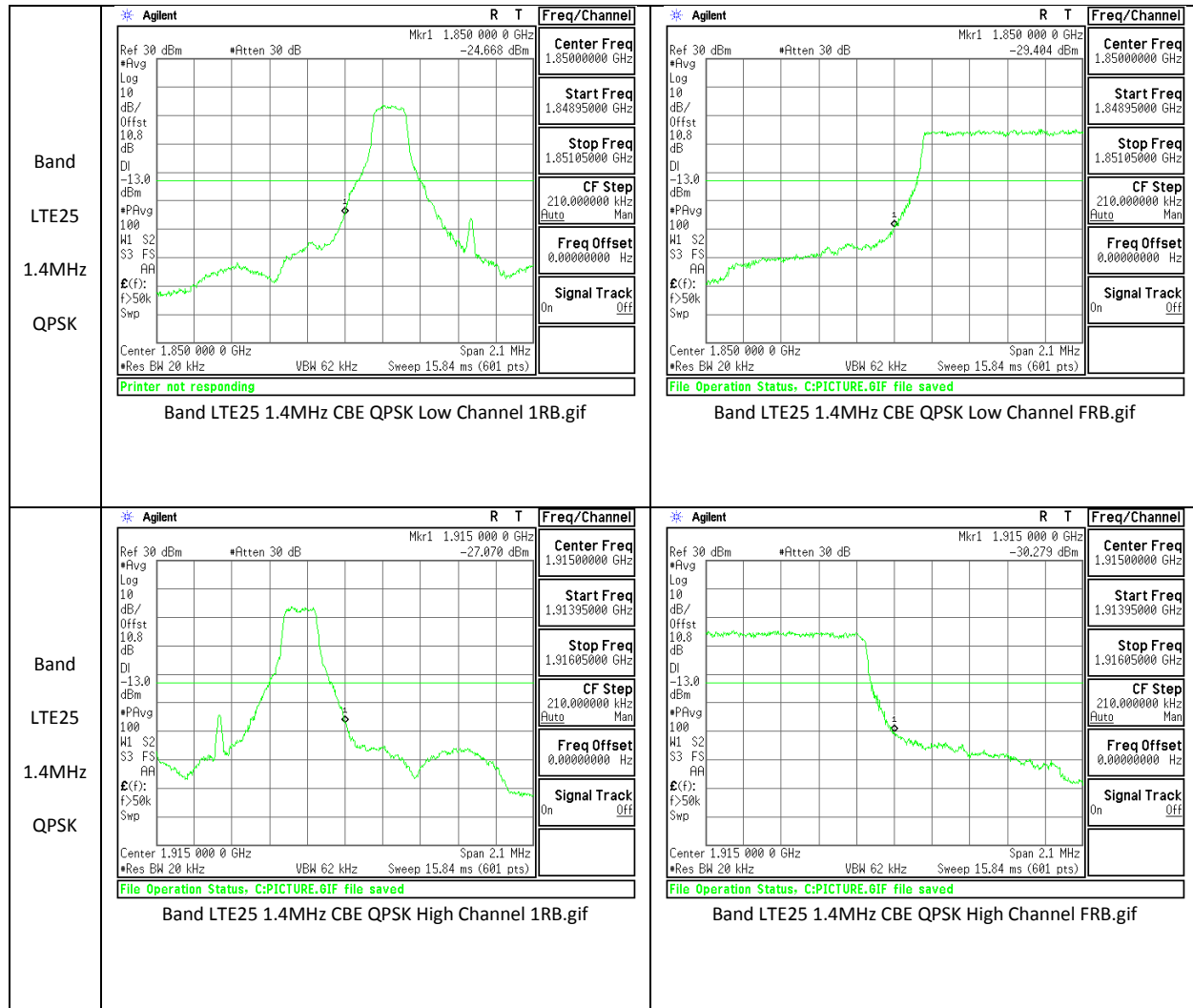




<p>Band LTE25 3MHz 16QAM</p>	 <p>Agilent R T Freq/Channel Center Freq 1.85000000 GHz Start Freq 1.84775000 GHz Stop Freq 1.85225000 GHz CF Step 450.000000 kHz Freq Offset 0.00000000 Hz Signal Track On Off</p> <p>Ref 30 dBm #Atten 30 dB Mkr1 1.850 000 0 GHz -19.922 dBm #Avg Log 10 dB/dB/Offst 10.8 dB DI -13.0 dBm #PPavg 100 HL S2 S3 FS AA f(f): f>50k Swp</p> <p>Center 1.850 000 0 GHz Span 4.5 MHz #Res BW 43 kHz VBW 130 kHz Sweep 7.36 ms (601 pts)</p> <p>File Operation Status, C:PICTURE.GIF file saved</p> <p>Band LTE25 3MHz CBE 16QAM Low Channel 1RB.gif</p>	 <p>Agilent R T Freq/Channel Center Freq 1.85000000 GHz Start Freq 1.84775000 GHz Stop Freq 1.85225000 GHz CF Step 450.000000 kHz Freq Offset 0.00000000 Hz Signal Track On Off</p> <p>Ref 30 dBm #Atten 30 dB Mkr1 1.850 000 0 GHz -30.072 dBm #Avg Log 10 dB/dB/Offst 10.8 dB DI -13.0 dBm #PPavg 100 HL S2 S3 FS AA f(f): f>50k Swp</p> <p>Center 1.850 000 0 GHz Span 4.5 MHz #Res BW 43 kHz VBW 130 kHz Sweep 7.36 ms (601 pts)</p> <p>File Operation Status, C:PICTURE.GIF file saved</p> <p>Band LTE25 3MHz CBE 16QAM Low Channel FRB.gif</p>
<p>Band LTE25 3MHz 16QAM</p>	 <p>Agilent R T Freq/Channel Center Freq 1.91500000 GHz Start Freq 1.91275000 GHz Stop Freq 1.91725000 GHz CF Step 450.000000 kHz Freq Offset 0.00000000 Hz Signal Track On Off</p> <p>Ref 30 dBm #Atten 30 dB Mkr1 1.915 000 0 GHz -19.293 dBm #Avg Log 10 dB/dB/Offst 10.8 dB DI -13.0 dBm #PPavg 100 HL S2 S3 FS AA f(f): f>50k Swp</p> <p>Center 1.915 000 0 GHz Span 4.5 MHz #Res BW 43 kHz VBW 130 kHz Sweep 7.36 ms (601 pts)</p> <p>File Operation Status, C:PICTURE.GIF file saved</p> <p>Band LTE25 3MHz CBE 16QAM High Channel 1RB.gif</p>	 <p>Agilent R T Freq/Channel Center Freq 1.91500000 GHz Start Freq 1.91275000 GHz Stop Freq 1.91725000 GHz CF Step 450.000000 kHz Freq Offset 0.00000000 Hz Signal Track On Off</p> <p>Ref 30 dBm #Atten 30 dB Mkr1 1.915 000 0 GHz -30.100 dBm #Avg Log 10 dB/dB/Offst 10.8 dB DI -13.0 dBm #PPavg 100 HL S2 S3 FS AA f(f): f>50k Swp</p> <p>Center 1.915 000 0 GHz Span 4.5 MHz #Res BW 43 kHz VBW 130 kHz Sweep 7.36 ms (601 pts)</p> <p>File Operation Status, C:PICTURE.GIF file saved</p> <p>Band LTE25 3MHz CBE 16QAM High Channel FRB.gif</p>

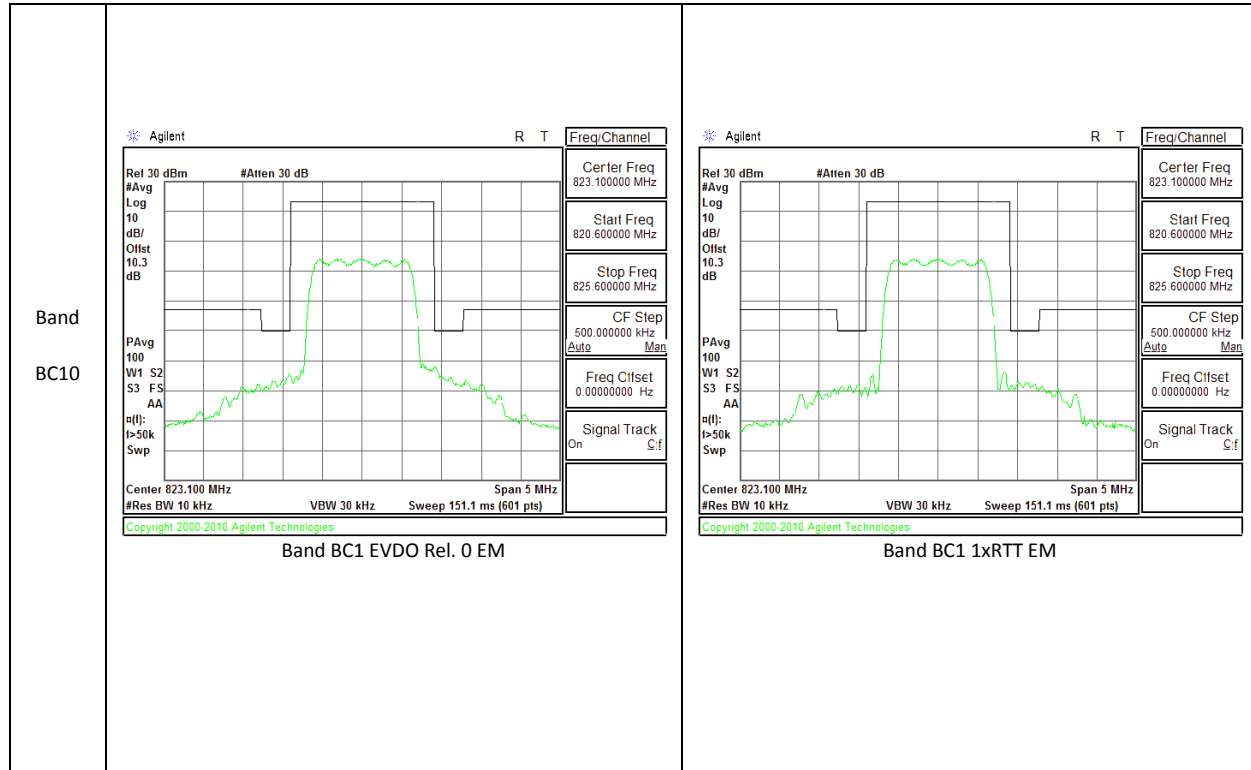




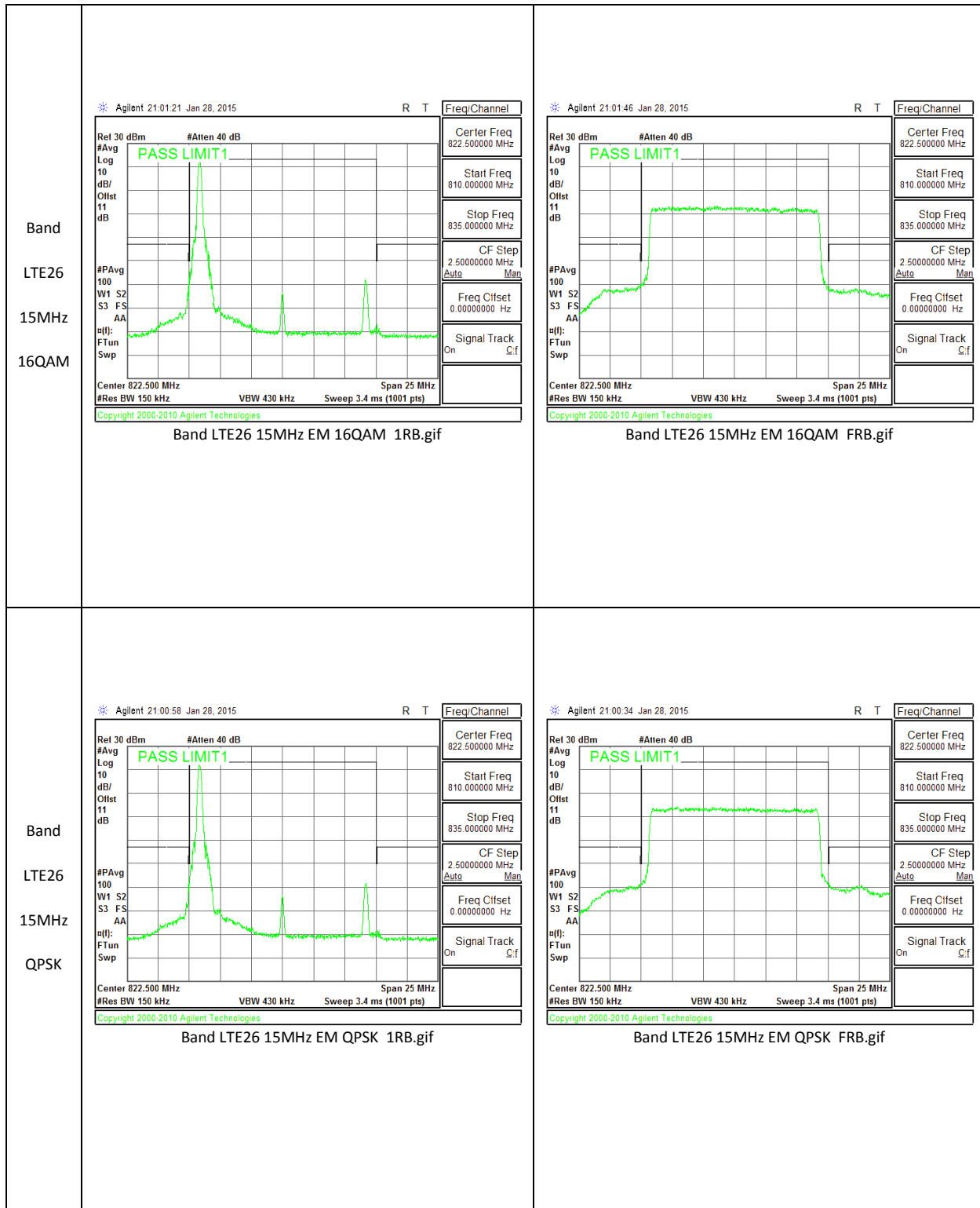


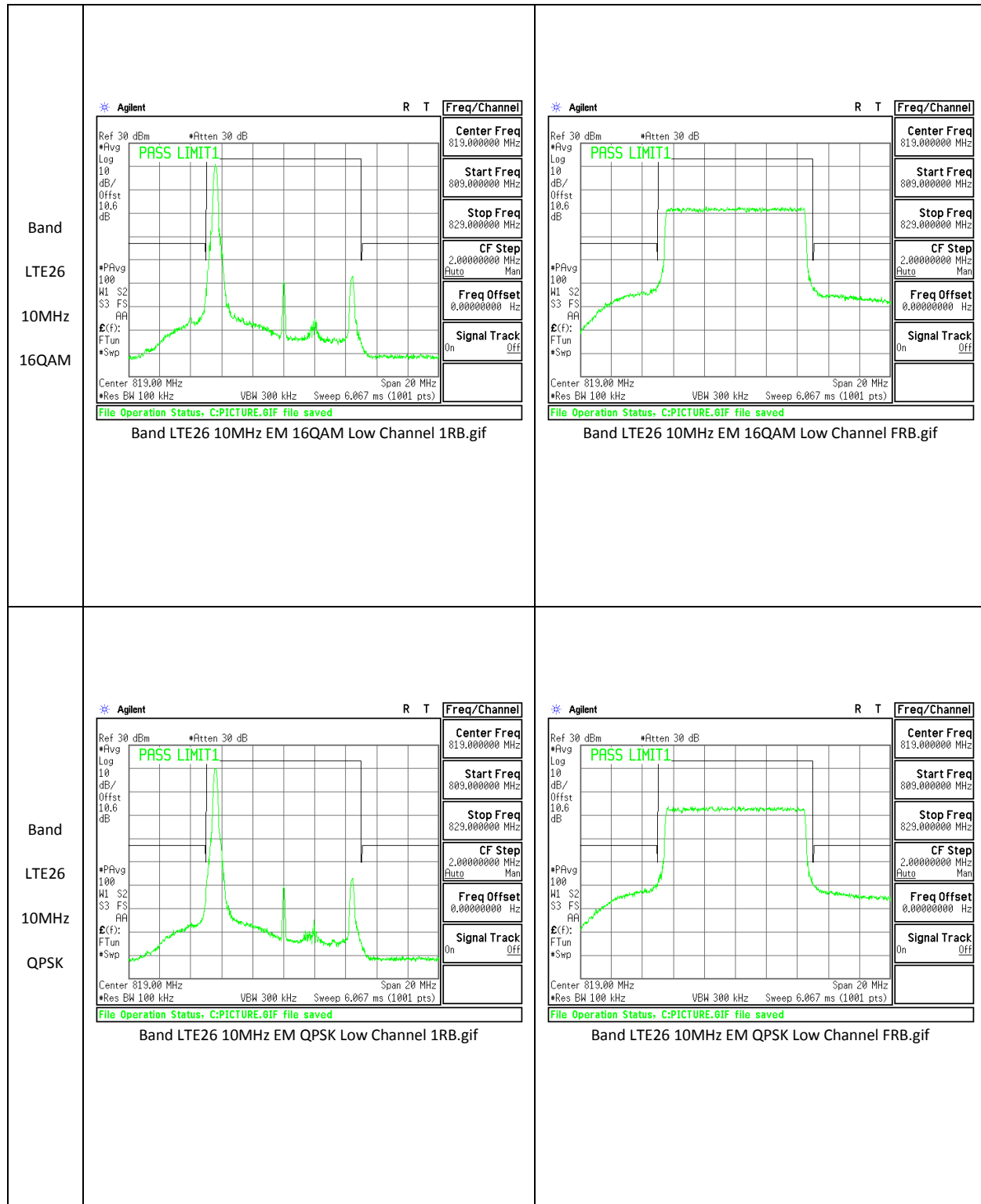
10.2.1. EMISSION MASK PLOTS

CDMA BC10

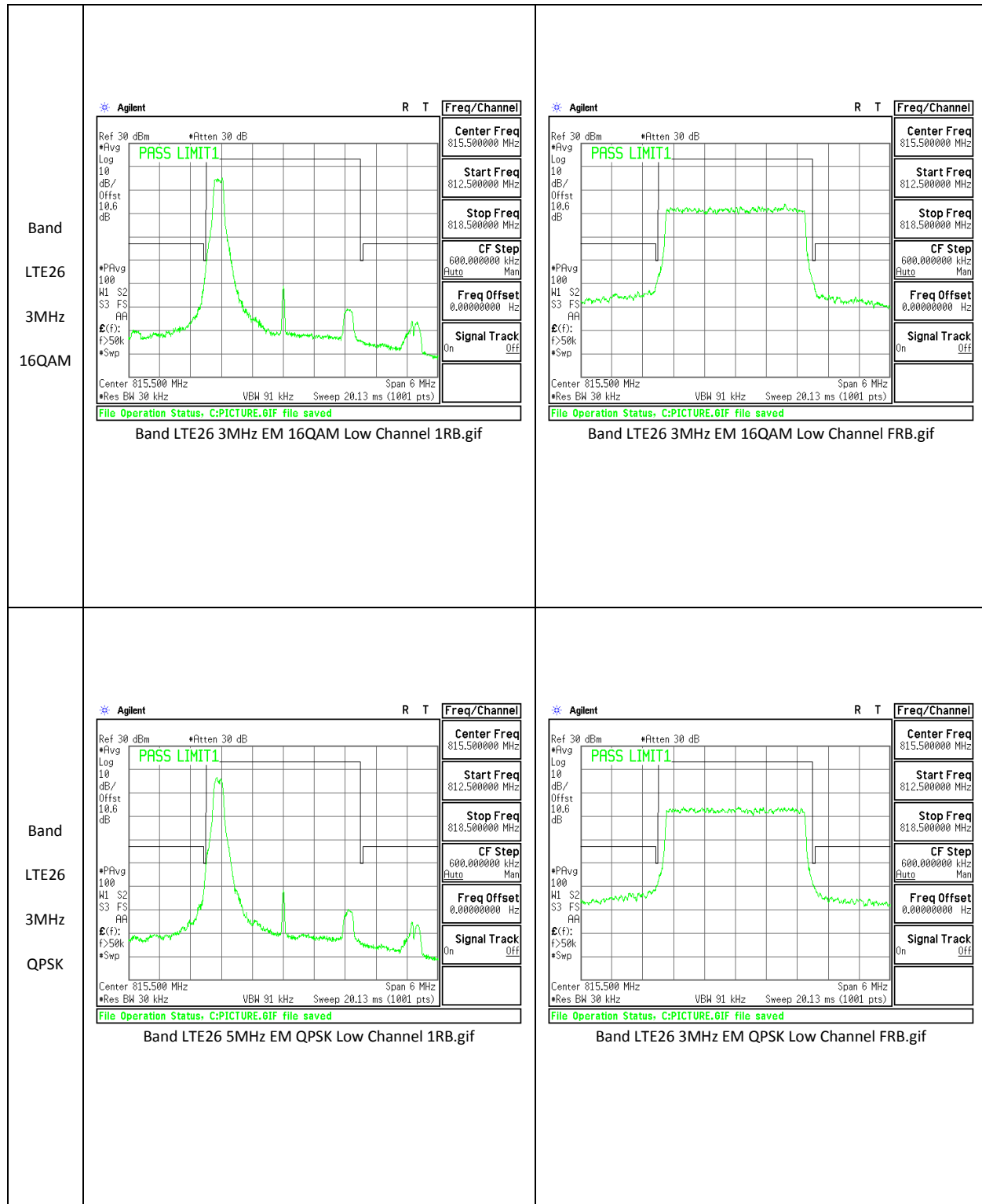


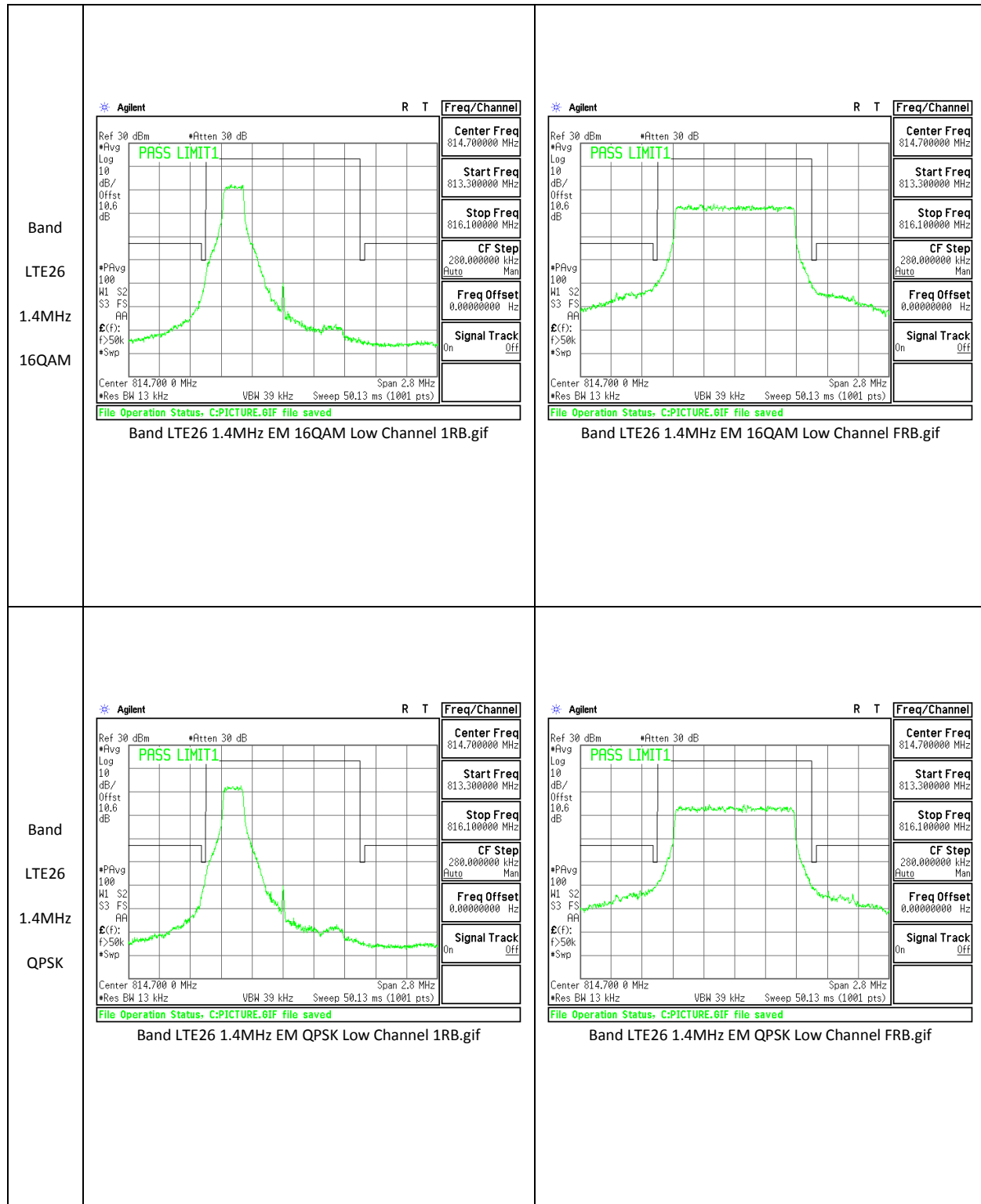
LTE Band 26



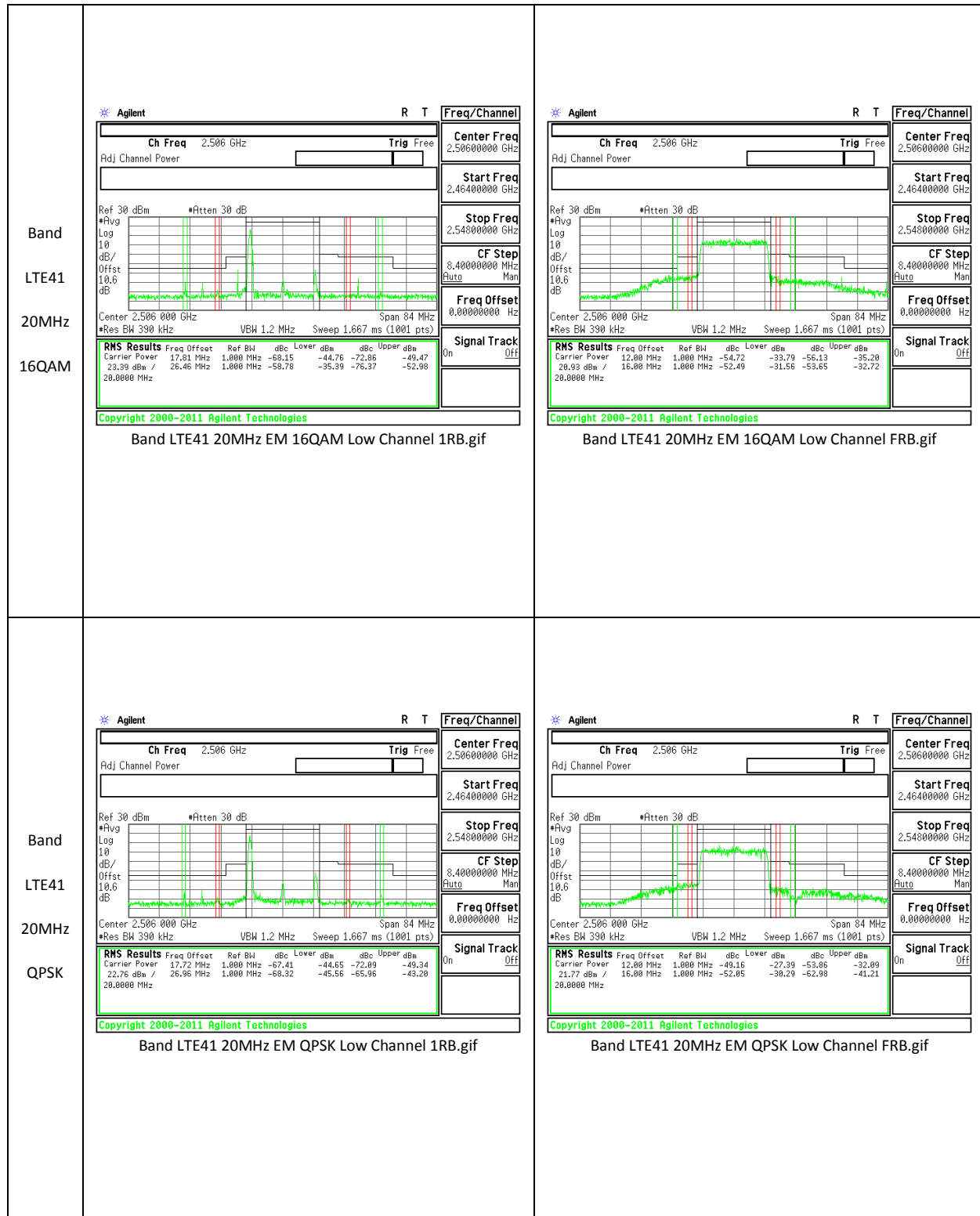


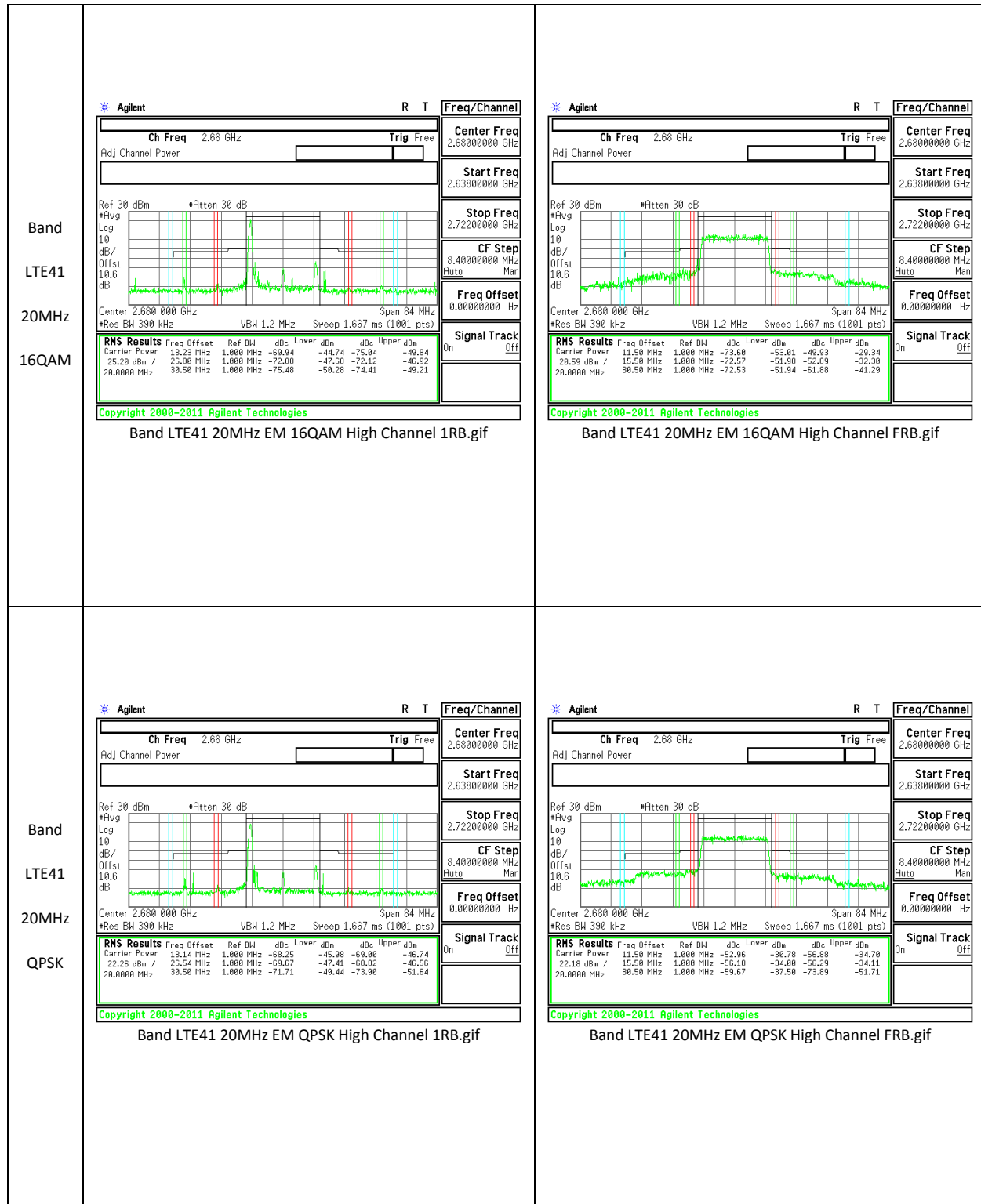
<p>Band LTE26 5MHz 16QAM</p>	<p>Agilent R T Freq/Channel</p> <p>Ref 30 dBm #Atten 30 dB</p> <p>Center Freq 816.500000 MHz</p> <p>Start Freq 811.500000 MHz</p> <p>Stop Freq 821.500000 MHz</p> <p>CF Step 1.00000000 MHz</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On</p> <p>Center 816.50 MHz Res BW 51 kHz VBW 150 kHz Sweep 11.67 ms (1001 pts)</p> <p>File Operation Status, C:PICTURE.GIF file saved</p> <p>Band LTE26 5MHz EM 16QAM Low Channel 1RB.gif</p>	<p>Agilent R T Freq/Channel</p> <p>Ref 30 dBm #Atten 30 dB</p> <p>Center Freq 816.500000 MHz</p> <p>Start Freq 811.500000 MHz</p> <p>Stop Freq 821.500000 MHz</p> <p>CF Step 1.00000000 MHz</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On</p> <p>Center 816.50 MHz Res BW 51 kHz VBW 150 kHz Sweep 11.67 ms (1001 pts)</p> <p>File Operation Status, C:PICTURE.GIF file saved</p> <p>Band LTE26 5MHz EM 16QAM Low Channel FRB.gif</p>
<p>Band LTE26 5MHz QPSK</p>	<p>Agilent R T Freq/Channel</p> <p>Ref 30 dBm #Atten 30 dB</p> <p>Center Freq 816.500000 MHz</p> <p>Start Freq 811.500000 MHz</p> <p>Stop Freq 821.500000 MHz</p> <p>CF Step 1.00000000 MHz</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On</p> <p>Center 816.50 MHz Res BW 51 kHz VBW 150 kHz Sweep 11.67 ms (1001 pts)</p> <p>File Operation Status, C:PICTURE.GIF file saved</p> <p>Band LTE26 5MHz EM QPSK Low Channel 1RB.gif</p>	<p>Agilent R T Freq/Channel</p> <p>Ref 30 dBm #Atten 30 dB</p> <p>Center Freq 816.500000 MHz</p> <p>Start Freq 811.500000 MHz</p> <p>Stop Freq 821.500000 MHz</p> <p>CF Step 1.00000000 MHz</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On</p> <p>Center 816.50 MHz Res BW 51 kHz VBW 150 kHz Sweep 11.67 ms (1001 pts)</p> <p>File Operation Status, C:PICTURE.GIF file saved</p> <p>Band LTE26 5MHz EM QPSK Low Channel FRB.gif</p>

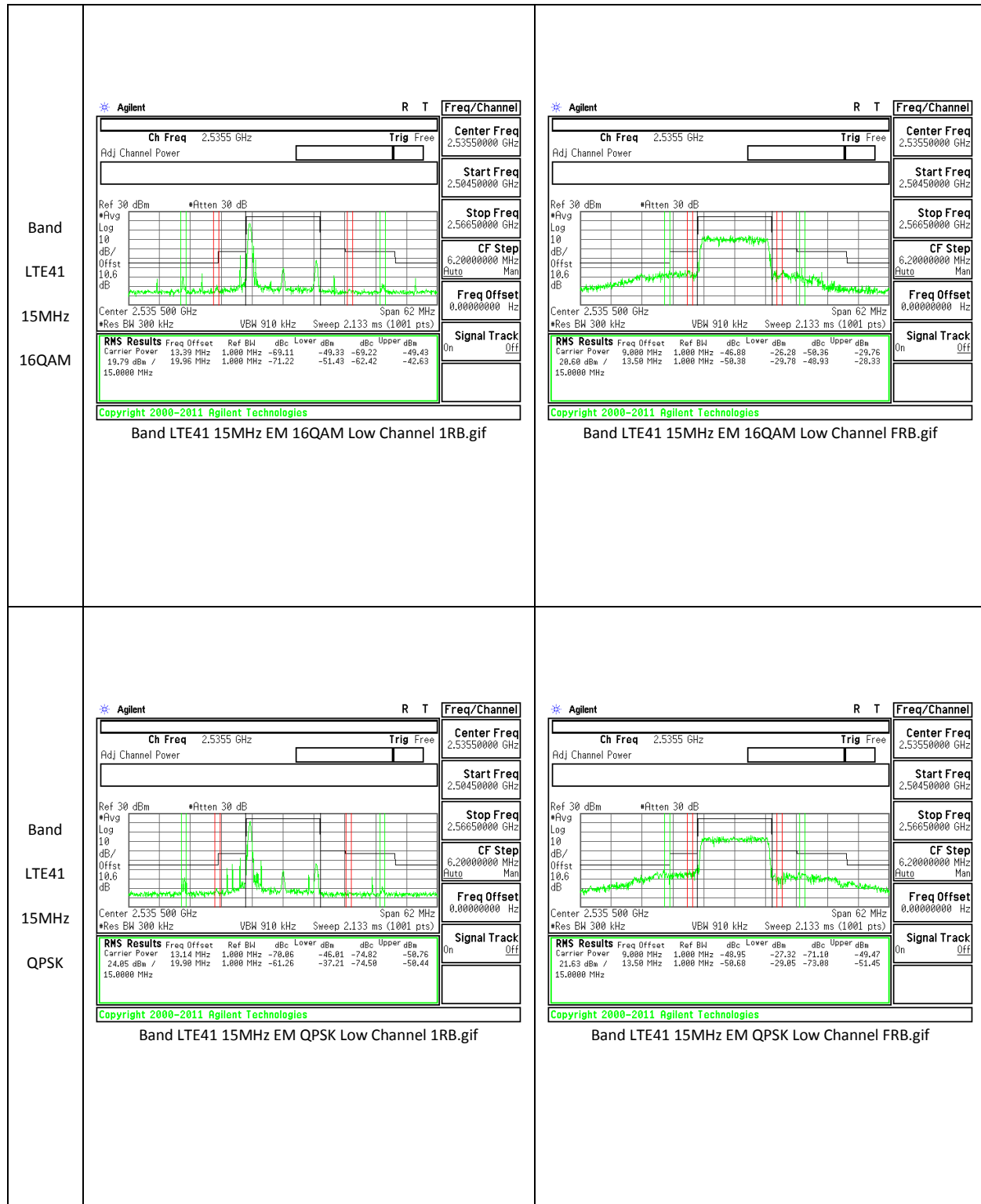


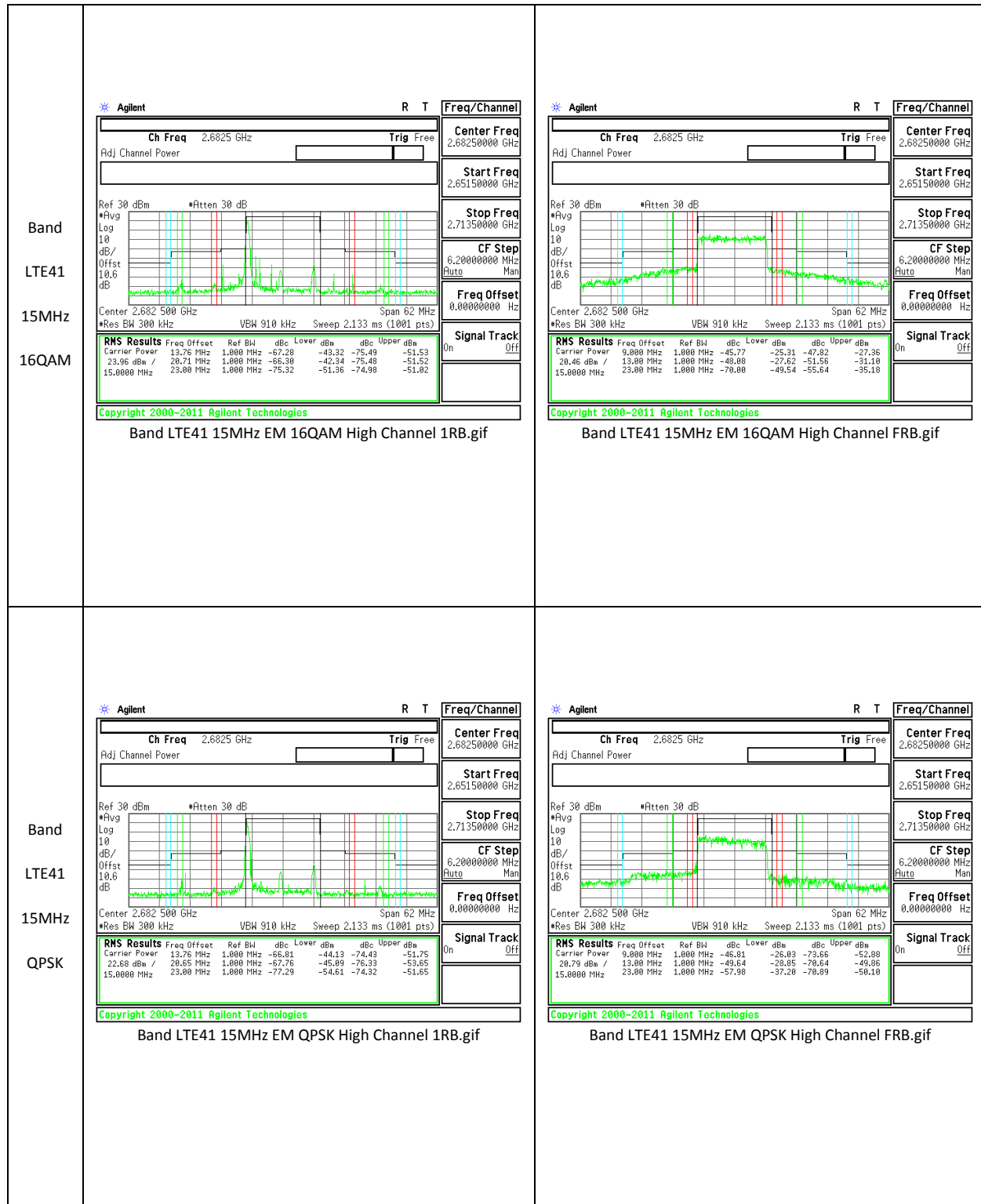


LTE Band 41

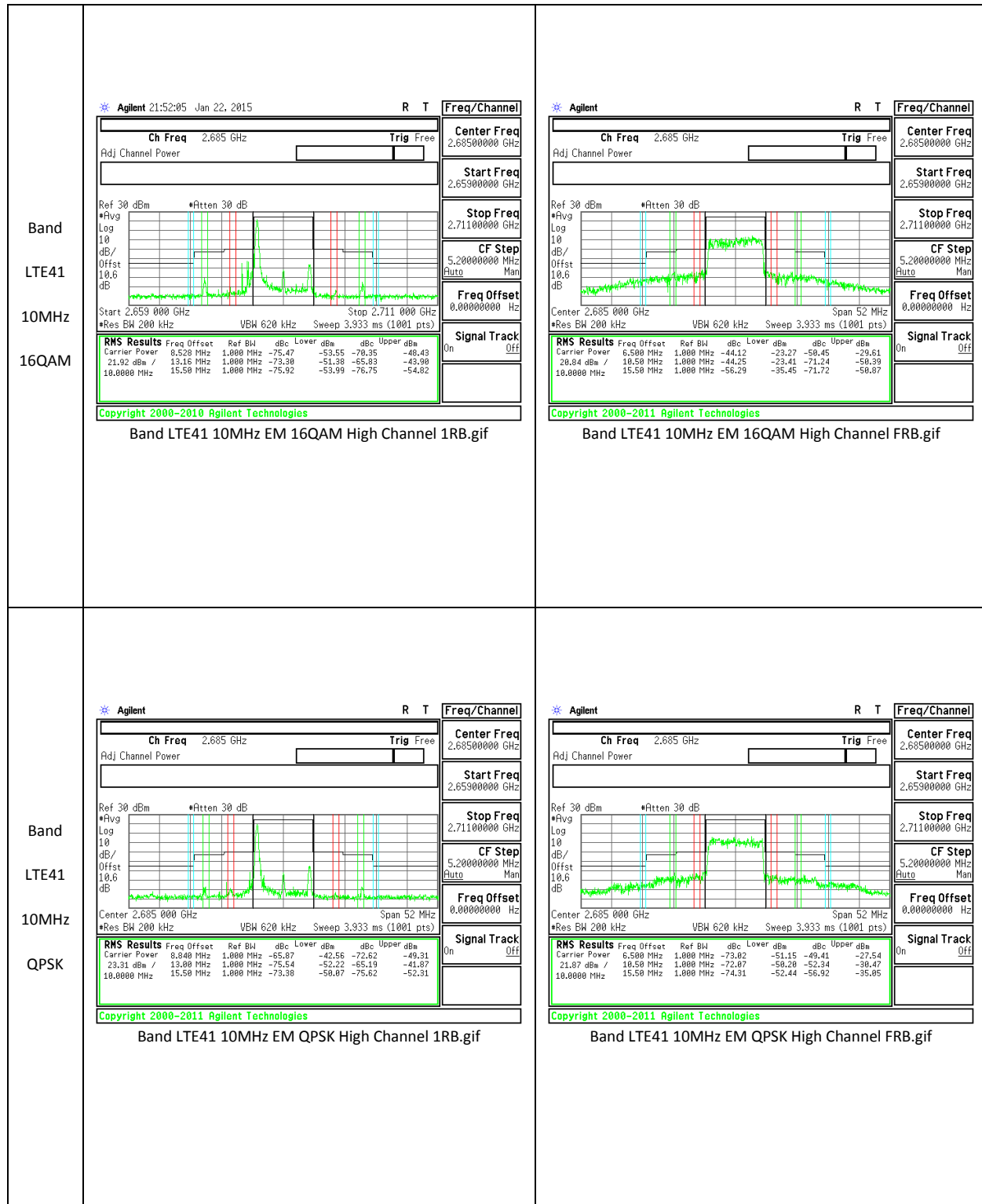


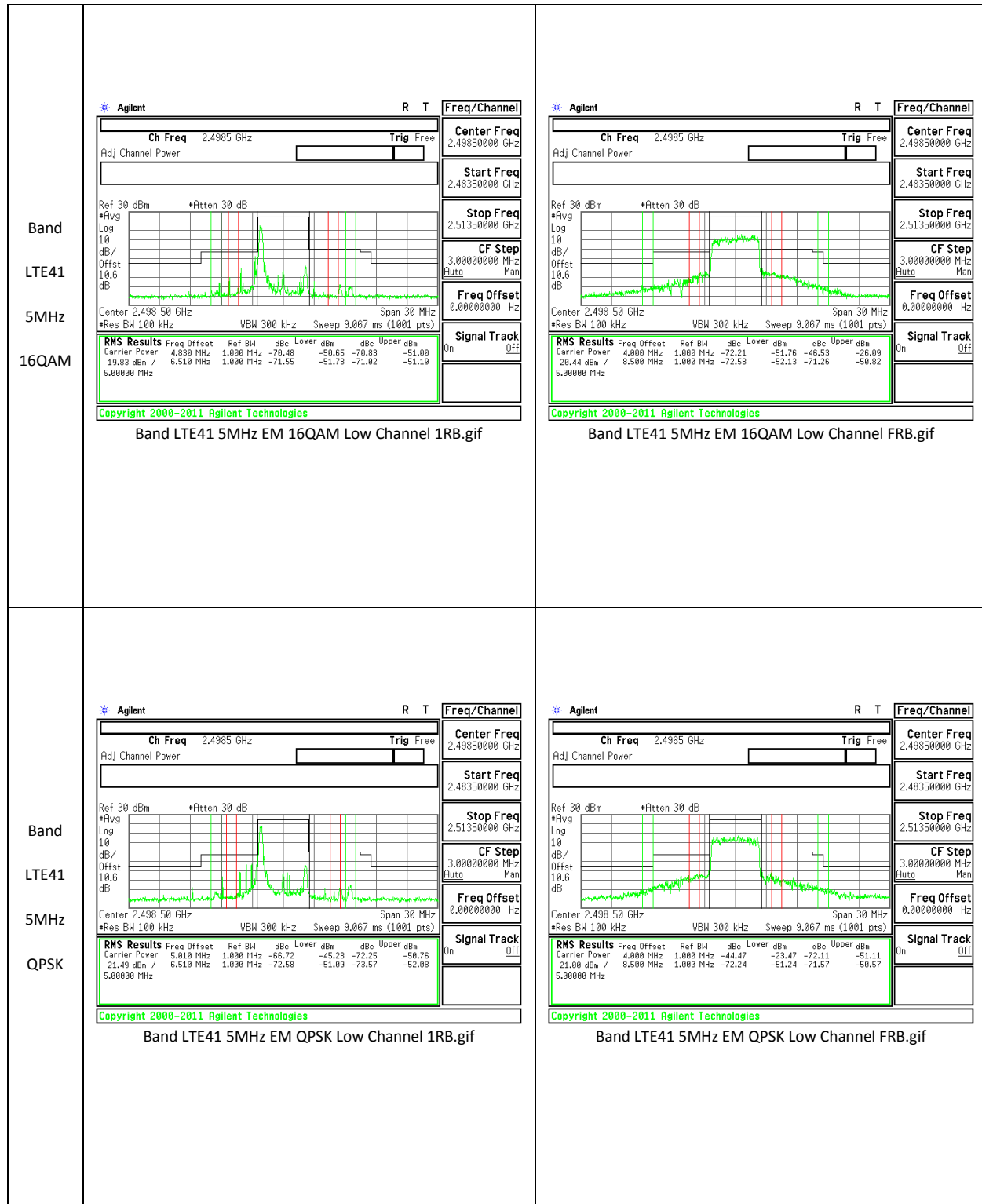


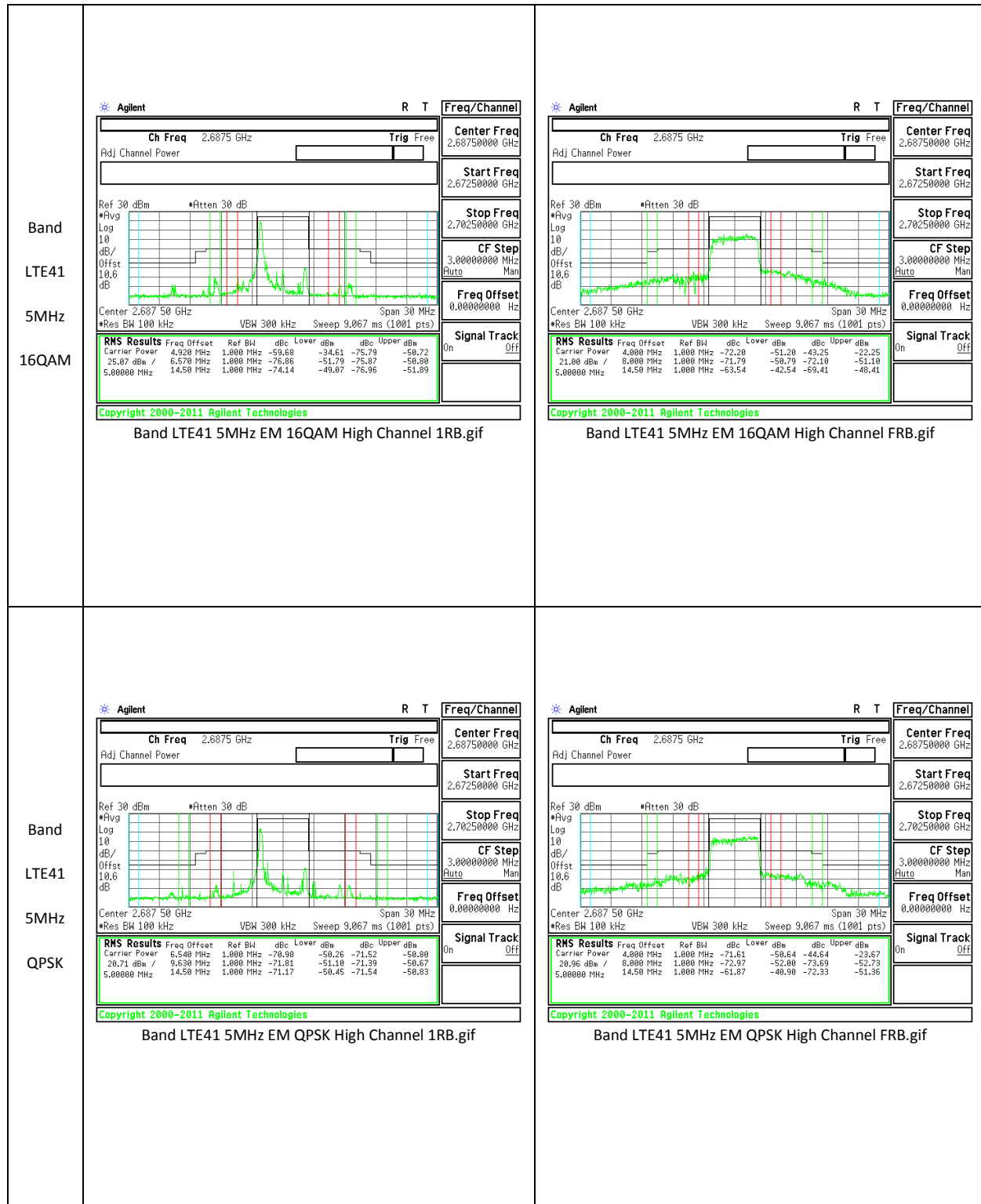




<p>Band LTE41 10MHz 16QAM</p>	<p>Copyright 2000-2011 Agilent Technologies</p> <p>Band LTE41 10MHz EM 16QAM Low Channel 1RB.gif</p>	<p>Copyright 2000-2011 Agilent Technologies</p> <p>Band LTE41 10MHz EM 16QAM Low Channel FRB.gif</p>
<p>Band LTE41 10MHz QPSK</p>	<p>Copyright 2000-2011 Agilent Technologies</p> <p>Band LTE41 10MHz EM QPSK Low Channel 1RB.gif</p>	<p>Copyright 2000-2011 Agilent Technologies</p> <p>Band LTE41 10MHz EM QPSK Low Channel FRB.gif</p>







10.3. OUT OF BAND EMISSIONS

RULE PART(S)

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

LIMITS

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

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

TEST PROCEDURE

Per KDB 971168 D01 Power Meas License Digital Systems v02r02

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

MODES TESTED

CDMA and LTE

RESULTS

10.3.1. OUT OF BAND EMISSIONS RESULT

CDMA

Band	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
BC10	1xRTT	817.9	-35.96	-13	-22.96
		820.5	-35.14	-13	-22.14
		823.1	-36.21	-13	-23.21
BC0		824.7	-36.78	-13	-23.78
		836.52	-33.43	-13	-20.43
		848.31	-36.59	-13	-23.59
BC1		1851.25	-34.7	-13	-21.7
		1880	-35.81	-13	-22.81
		1908.75	-36.02	-13	-23.02

Band	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
BC10	EVDO-R0	817.9	-35.98	-13	-22.98
		820.5	-36.02	-13	-23.02
		823.1	-35.17	-13	-22.17
BC0		824.7	-35.62	-13	-22.62
		836.52	-35.93	-13	-22.93
		848.31	-35.54	-13	-22.54
BC1		1851.25	-35.79	-13	-22.79
		1880	-38.34	-13	-25.34
		1908.75	-36.37	-13	-23.37

LTE Band 2

Band	BW (MHz)	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
LTE2	20	QPSK	1860	-24.44	-13	-11.44
			1880	-24.16	-13	-11.16
			1900	-23.89	-13	-10.89
		16QAM	1860	-24.02	-13	-11.02
			1880	-24.13	-13	-11.13
			1900	-24.55	-13	-11.55
	15	QPSK	1857.5	-22.01	-13	-9.01
			1880	-24.67	-13	-11.67
			1902.5	-23.39	-13	-10.39
		16QAM	1857.5	-24.59	-13	-11.59
			1880	-23.9	-13	-10.9
			1902.5	-24.56	-13	-11.56
	10	QPSK	1855	-24.53	-13	-11.53
			1880	-24.14	-13	-11.14
			1905	-24.49	-13	-11.49
		16QAM	1855	-24.2	-13	-11.2
			1880	-24.42	-13	-11.42
			1905	-23.1	-13	-10.1
	5	QPSK	1852.5	-22.01	-13	-9.01
			1880	-24.67	-13	-11.67
			1907.5	-23.39	-13	-10.39
		16QAM	1852.5	-24.59	-13	-11.59
			1880	-23.9	-13	-10.9
			1907.5	-24.56	-13	-11.56
3	QPSK	1851.5	-24.44	-13	-11.44	
		1880	-24.16	-13	-11.16	
		1908.5	-23.89	-13	-10.89	
	16QAM	1851.5	-24.02	-13	-11.02	
		1880	-24.13	-13	-11.13	
		1908.5	-24.55	-13	-11.55	

Band	BW (MHz)	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
LTE2	1.4	QPSK	1850.7	-25.25	-13	-12.25
			1880	-24.8	-13	-11.8
			1909.3	-24.42	-13	-11.42
		16QAM	1850.7	-23.84	-13	-10.84
			1880	-24.28	-13	-11.28
			1909.3	-24.54	-13	-11.54

LTE Band 4

Band	BW (MHz)	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
LTE4	20	QPSK	1720	-26.97	-13	-13.97
			1732.5	-28.7	-13	-15.7
			1745	-26.94	-13	-13.94
		16QAM	1720	-27.19	-13	-14.19
			1732.5	-28.7	-13	-15.7
			1745	-29.41	-13	-16.41
	15	QPSK	1717.5	-26.63	-13	-13.63
			1732.5	-27.11	-13	-14.11
			1747.5	-28.04	-13	-15.04
		16QAM	1717.5	-27.54	-13	-14.54
			1732.5	-28.36	-13	-15.36
			1747.5	-30.89	-13	-17.89
	10	QPSK	1715	-27.74	-13	-14.74
			1732.5	-28.6	-13	-15.6
			1750	-29.98	-13	-16.98
		16QAM	1715	-24.95	-13	-11.95
			1732.5	-28.61	-13	-15.61
			1750	-27.9	-13	-14.9
	5	QPSK	1712.5	-27.2	-13	-14.2
			1732.5	-28.4	-13	-15.4
			1752.5	-29.37	-13	-16.37
		16QAM	1712.5	-27.92	-13	-14.92
			1732.5	-27.58	-13	-14.58
			1752.5	-30.59	-13	-17.59

Band	BW (MHz)	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
LTE4	3	QPSK	1711.5	-26.21	-13	-13.21
			1732.5	-29.73	-13	-16.73
			1753.5	-30.2	-13	-17.2
		16QAM	1711.5	-26.92	-13	-13.92
			1732.5	-23.23	-13	-10.23
			1753.5	-30.24	-13	-17.24
	1.4	QPSK	1710.7	-25.72	-13	-12.72
			1732.5	-28.87	-13	-15.87
			1754.3	-28.99	-13	-15.99
		16QAM	1710.7	-23.42	-13	-10.42
			1732.5	-30.09	-13	-17.09
			1754.3	-30.27	-13	-17.27

LTE Band 5

Band	BW (MHz)	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
LTE5	10	QPSK	829	-25.26	-13	-12.26
			836.5	-24.81	-13	-11.81
			844	-24.62	-13	-11.62
		16QAM	829	-25.26	-13	-12.26
			836.5	-25.38	-13	-12.38
			844	-24.62	-13	-11.62
	5	QPSK	826.5	-25.55	-13	-12.55
			836.5	-29.751	-13	-16.751
			846.5	-25.738	-13	-12.738
		16QAM	826.5	-24.929	-13	-11.929
			836.5	-24.390	-13	-11.390
			846.5	-24.962	-13	-11.962
	3	QPSK	825.5	-25.433	-13	-12.433
			836.5	-24.662	-13	-11.662
			847.5	-24.884	-13	-11.884
		16QAM	825.5	-24.224	-13	-11.224
			836.5	-24.888	-13	-11.888
			847.5	-24.414	-13	-11.414
	1.4	QPSK	824.7	-25.239	-13	-12.239
			836.5	-25.094	-13	-12.094
			848.3	-25.386	-13	-12.386
		16QAM	824.7	-23.995	-13	-10.995
			836.5	-25.295	-13	-12.295
			848.3	-25.314	-13	-12.314

LTE Band 12

Band	BW (MHz)	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
LTE12	10	QPSK	704	-30.22	-13	-17.22
			707.5	-29.65	-13	-16.65
			711	-30.04	-13	-17.04
		16QAM	704	-29.47	-13	-16.47
			707.5	-29.86	-13	-16.86
			711	-29.508	-13	-16.508
	5	QPSK	701.5	-28.174	-13	-15.174
			707.5	-29.155	-13	-16.155
			713.5	-32.71	-13	-19.71
		16QAM	701.5	-28.54	-13	-15.54
			707.5	-30.29	-13	-17.29
			713.5	-31.859	-13	-18.859
	3	QPSK	700.5	-28.55	-13	-15.55
			707.5	-30.41	-13	-17.41
			714.5	-31.62	-13	-18.62
		16QAM	700.5	-28.84	-13	-15.84
			707.5	-30.306	-13	-17.306
			714.5	-32.03	-13	-19.03
	1.4	QPSK	699.7	-29.405	-13	-16.405
			707.5	-25.265	-13	-12.265
			715.3	-25.235	-13	-12.235
		16QAM	699.7	-30.269	-13	-17.269
			707.5	-29.91	-13	-16.91
			715.3	-31.6	-13	-18.6

LTE Band 25

Band	BW (MHz)	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
LTE25	20	QPSK	1860	-30.4	-13	-17.4
			1882.5	-30.12	-13	-17.12
			1905	-30.2	-13	-17.2
		16QAM	1860	-30.04	-13	-17.04
			1882.5	-29.93	-13	-16.93
			1905	-30.27	-13	-17.27
	15	QPSK	1857.5	-30.33	-13	-17.33
			1882.5	-29.5	-13	-16.5
			1907.5	-29.2	-13	-16.2
		16QAM	1857.5	-30.01	-13	-17.01
			1882.5	-30.04	-13	-17.04
			1907.5	-30.28	-13	-17.28
	10	QPSK	1855	-30.17	-13	-17.17
			1882.5	-29.37	-13	-16.37
			1910	-29.97	-13	-16.97
		16QAM	1855	-29.52	-13	-16.52
			1882.5	-29.08	-13	-16.08
			1910	-29.7	-13	-16.7
	5	QPSK	1852.5	-29.388	-13	-16.388
			1882.5	-29.835	-13	-16.835
			1912.5	-29.932	-13	-16.932
		16QAM	1852.5	-29.636	-13	-16.636
			1882.5	-30.385	-13	-17.385
			1912.5	-30.337	-13	-17.337

Band	BW (MHz)	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
LTE25	3	QPSK	1851.5	-30.277	-13	-17.277
			1882.5	-30.476	-13	-17.476
			1913.5	-29.809	-13	-16.809
		16QAM	1851.5	-29.841	-13	-16.841
			1882.5	-30.064	-13	-17.064
			1913.5	-29.628	-13	-16.628
	1.4	QPSK	1850.7	-30.515	-13	-17.515
			1882.5	-30.367	-13	-17.367
			1914.3	-29.6	-13	-16.6
		16QAM	1850.7	-30.056	-13	-17.056
			1882.5	-29.165	-13	-16.165
			1914.3	-29.789	-13	-16.789

LTE Band 26

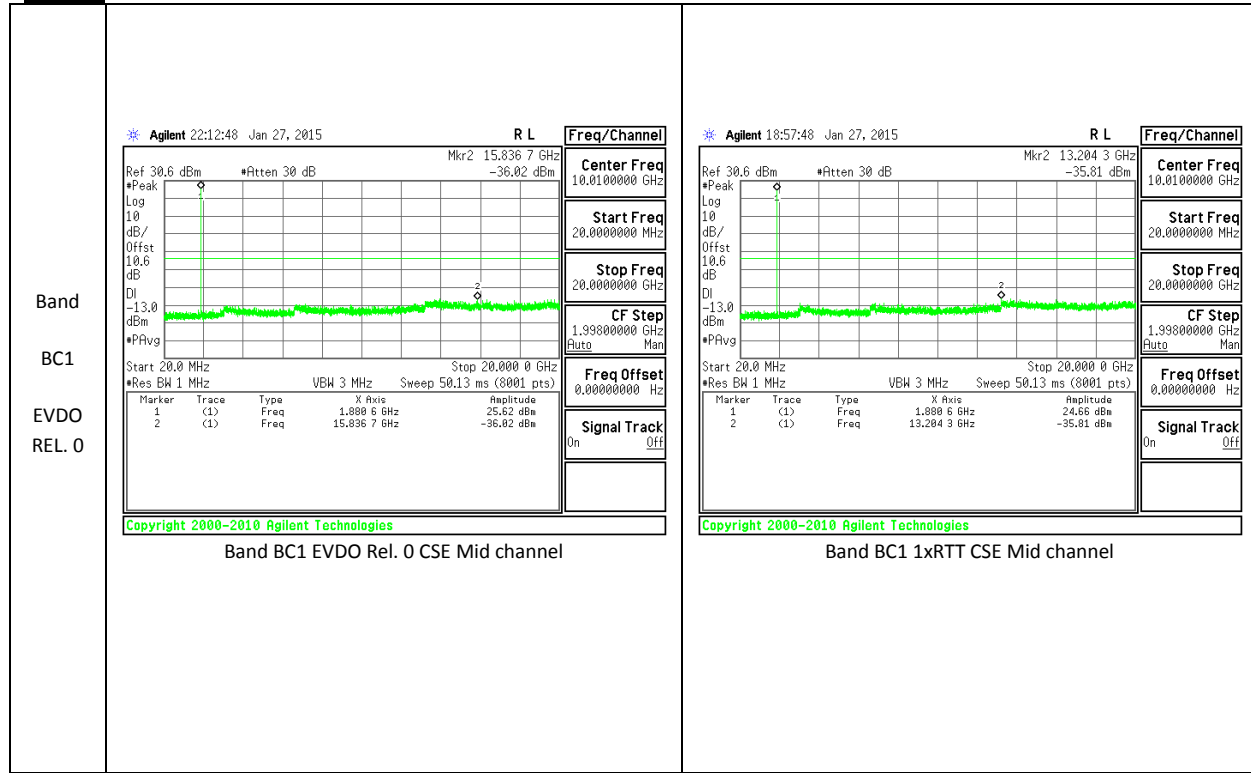
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LTE26	15	QPSK	821.5	-32.82	-13	-19.82
			831.5	-33.27	-13	-20.27
			841.5	-33.49	-13	-20.49
		16QAM	821.5	-33.7	-13	-20.7
			831.5	-33.21	-13	-20.21
			841.5	-32.89	-13	-19.89
	10	QPSK	819	-33.15	-13	-20.15
			831.5	-33.18	-13	-20.18
			844	-33.08	-13	-20.08
		16QAM	819	-32.21	-13	-19.21
			831.5	-32.64	-13	-19.64
			844	-33.12	-13	-20.12
	5	QPSK	816.5	-33.179	-13	-20.179
			831.5	-33.074	-13	-20.074
			846.5	-33.225	-13	-20.225
		16QAM	816.5	-33.03	-13	-20.03
			831.5	-32.685	-13	-19.685
			846.5	-33.724	-13	-20.724
	3	QPSK	815.5	-33.347	-13	-20.347
			831.5	-33.799	-13	-20.799
			847.5	-33.609	-13	-20.609
		16QAM	815.5	-32.713	-13	-19.713
			831.5	-33.194	-13	-20.194
			847.5	-33.182	-13	-20.182
1.4	QPSK	814.7	-32.359	-13	-19.359	
		831.5	-33.102	-13	-20.102	
		848.3	-33.39	-13	-20.39	
	16QAM	814.7	-33.741	-13	-20.741	
		831.5	-34.012	-13	-21.012	
		848.3	-33.212	-13	-20.212	

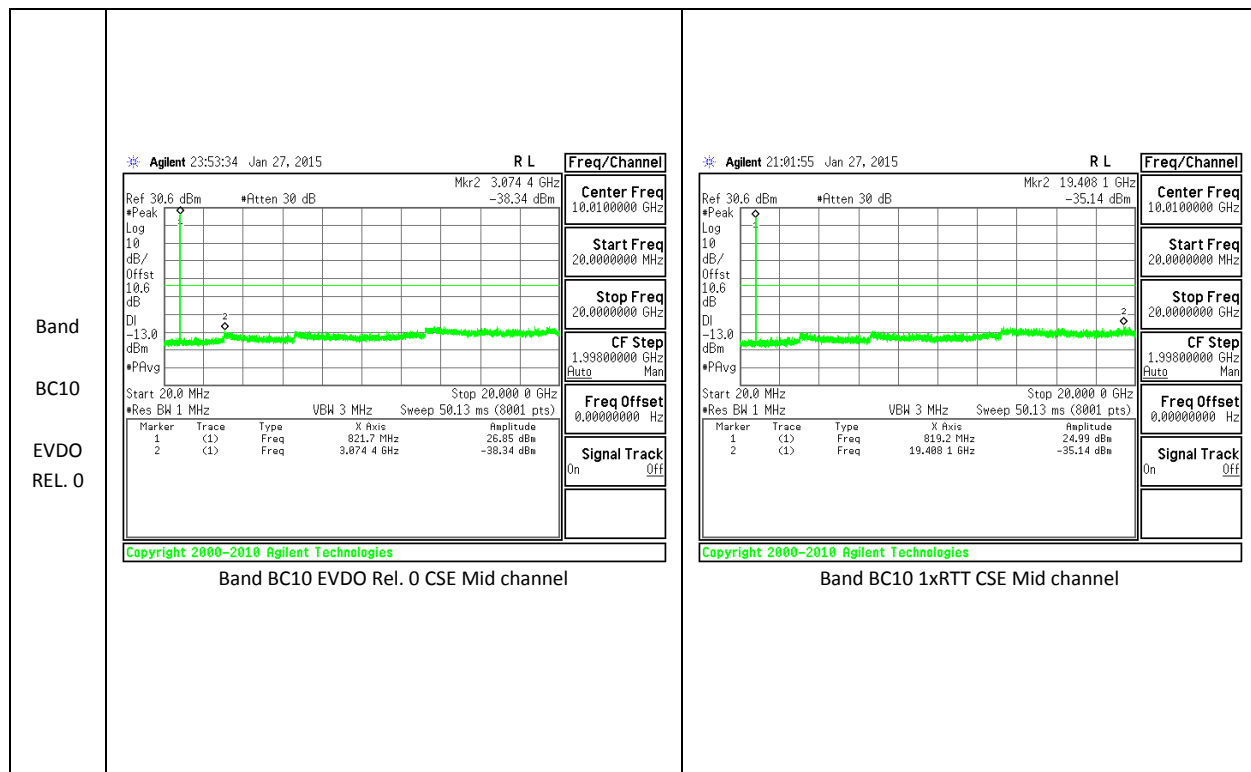
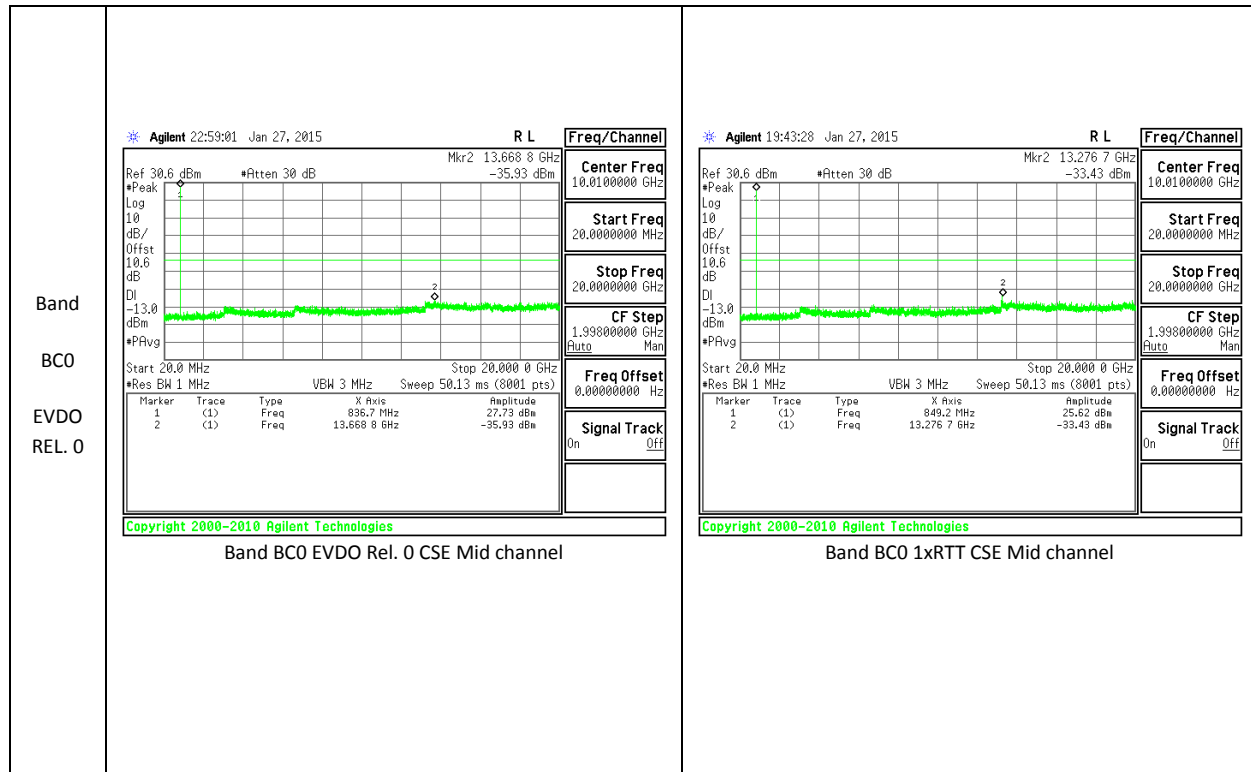
LTE Band 41

Band	BW (MHz)	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
LTE41	20	QPSK	2506	-37.48	-25	-12.48
			2593	-33.73	-25	-8.73
			2680	-36.72	-25	-11.72
		16QAM	2506	-34.3	-25	-9.3
			2593	-33.7	-25	-8.7
			2680	-36.49	-25	-11.49
	15	QPSK	2503.5	-34.99	-25	-9.99
			2593	-29.65	-25	-4.65
			2682.5	-29.86	-25	-4.86
		16QAM	2503.5	-36.15	-25	-11.15
			2593	-29.72	-25	-4.72
			2682.5	-29.43	-25	-4.43
	10	QPSK	2501	-29.33	-25	-4.33
			2593	-30.68	-25	-5.68
			2685	-30.58	-25	-5.58
		16QAM	2501	-35.74	-25	-10.74
			2593	-30.25	-25	-5.25
			2685	-35.45	-25	-10.45
	5	QPSK	2498.5	-30.39	-25	-5.39
			2593	-29.97	-25	-4.97
			2687.5	-30.33	-25	-5.33
		16QAM	2498.5	-29.69	-25	-4.69
			2593	-30.45	-25	-5.45
			2687.5	-30.26	-25	-5.26

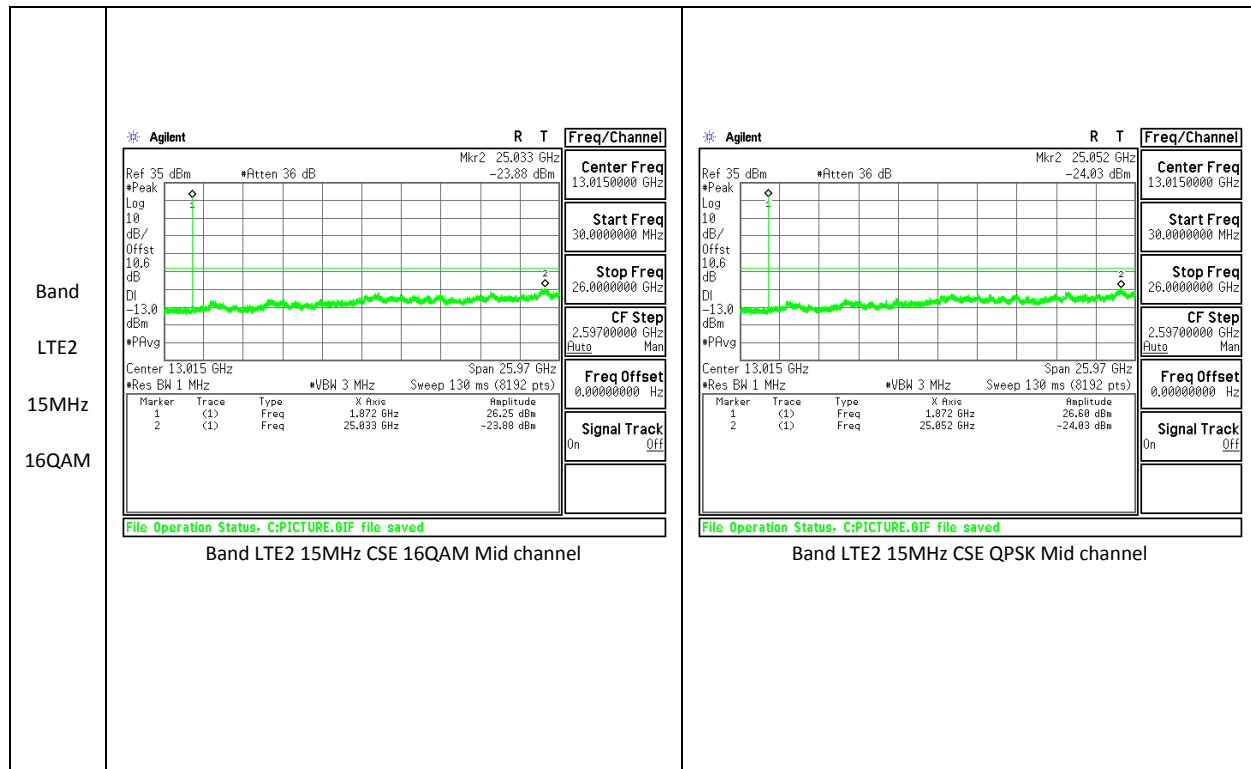
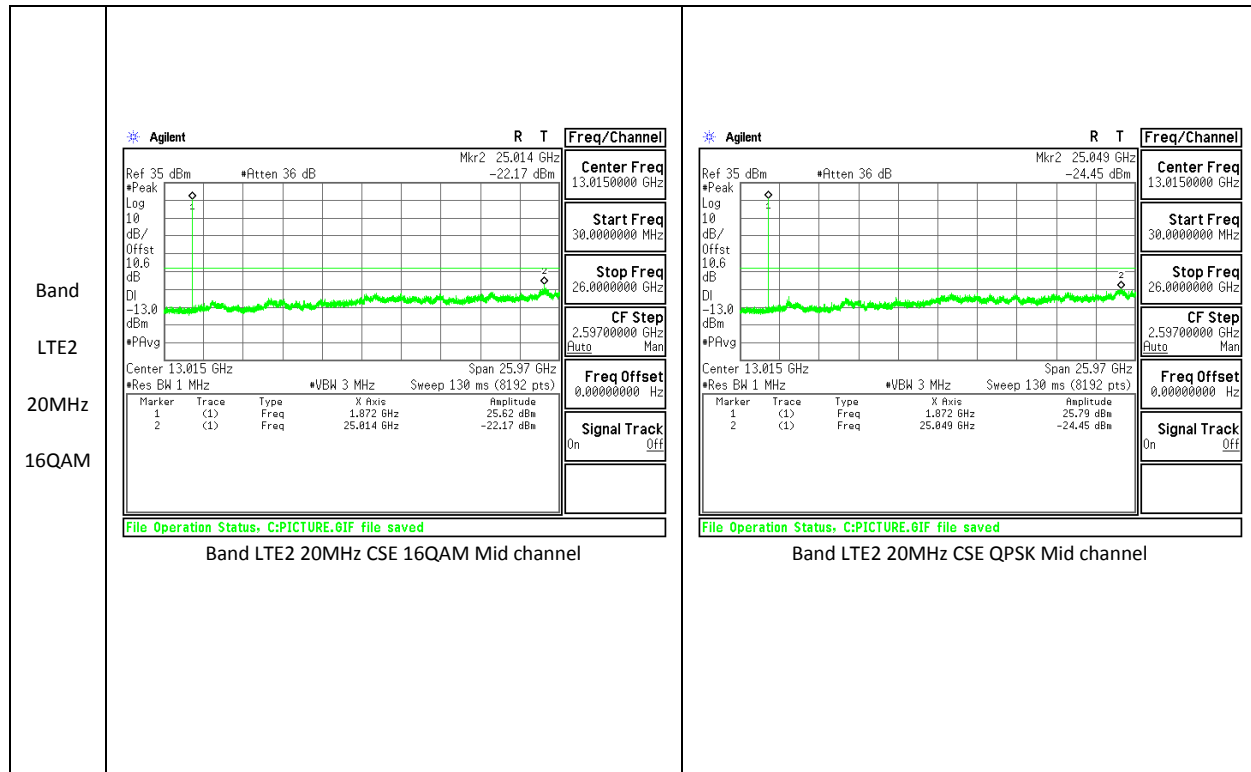
10.3.1. OUT OF BAND EMISSIONS PLOTS

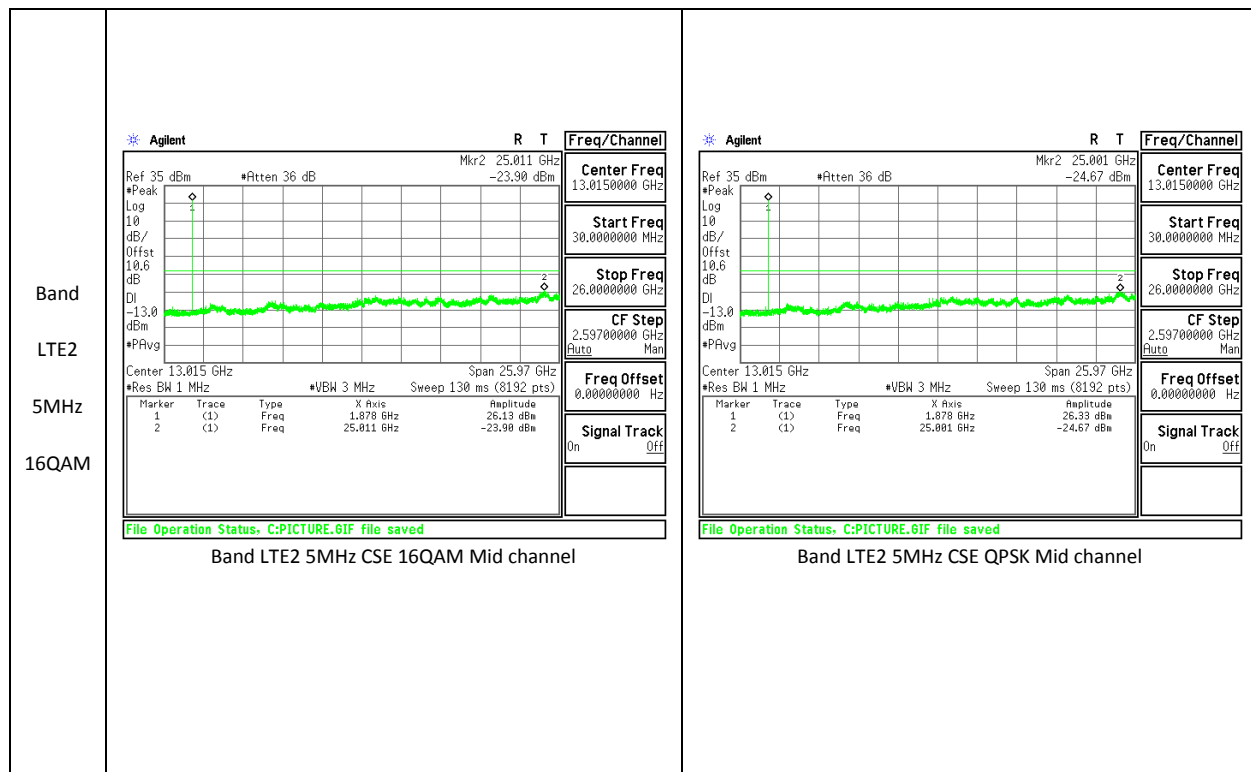
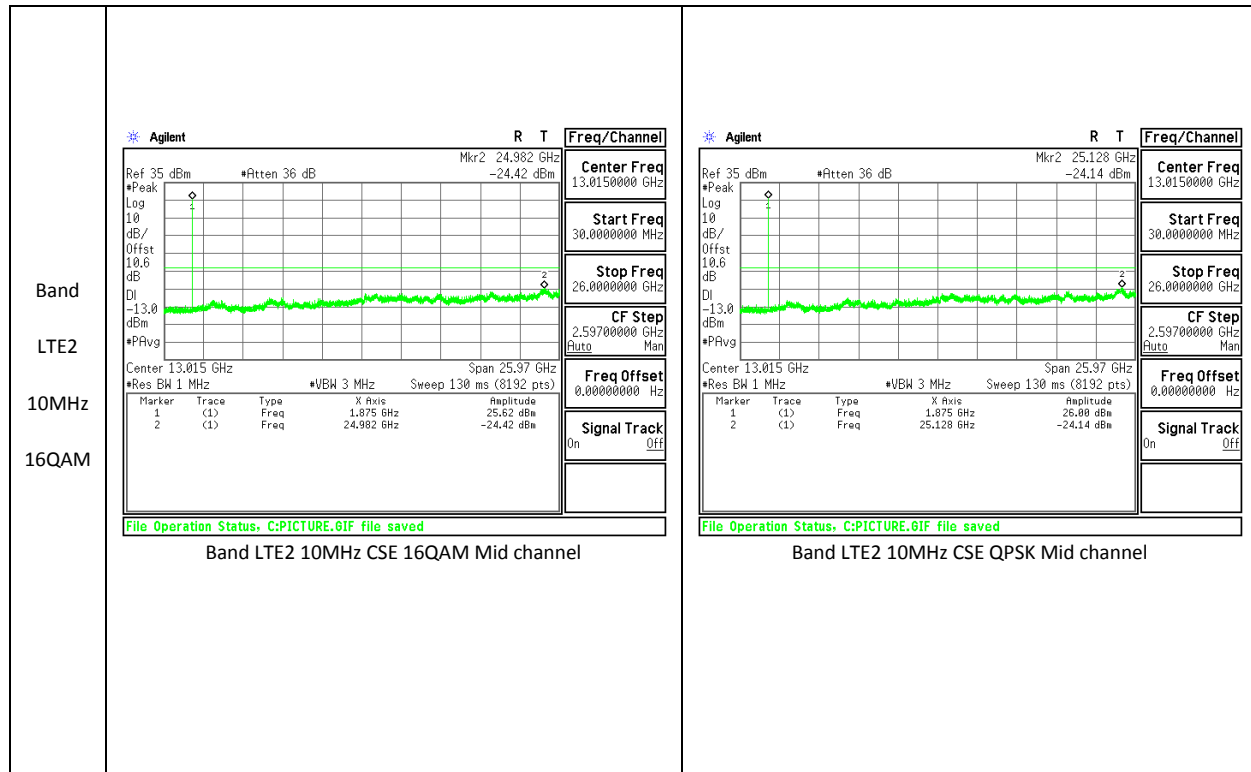
CDMA

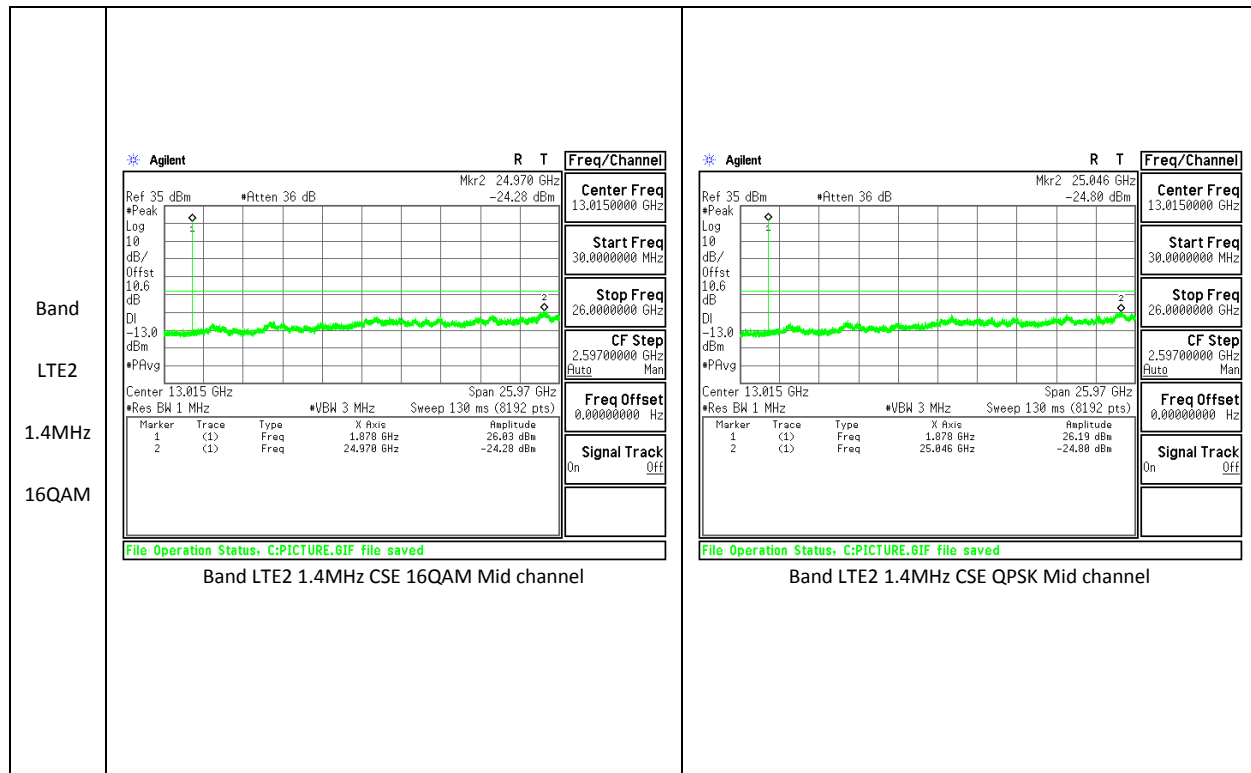
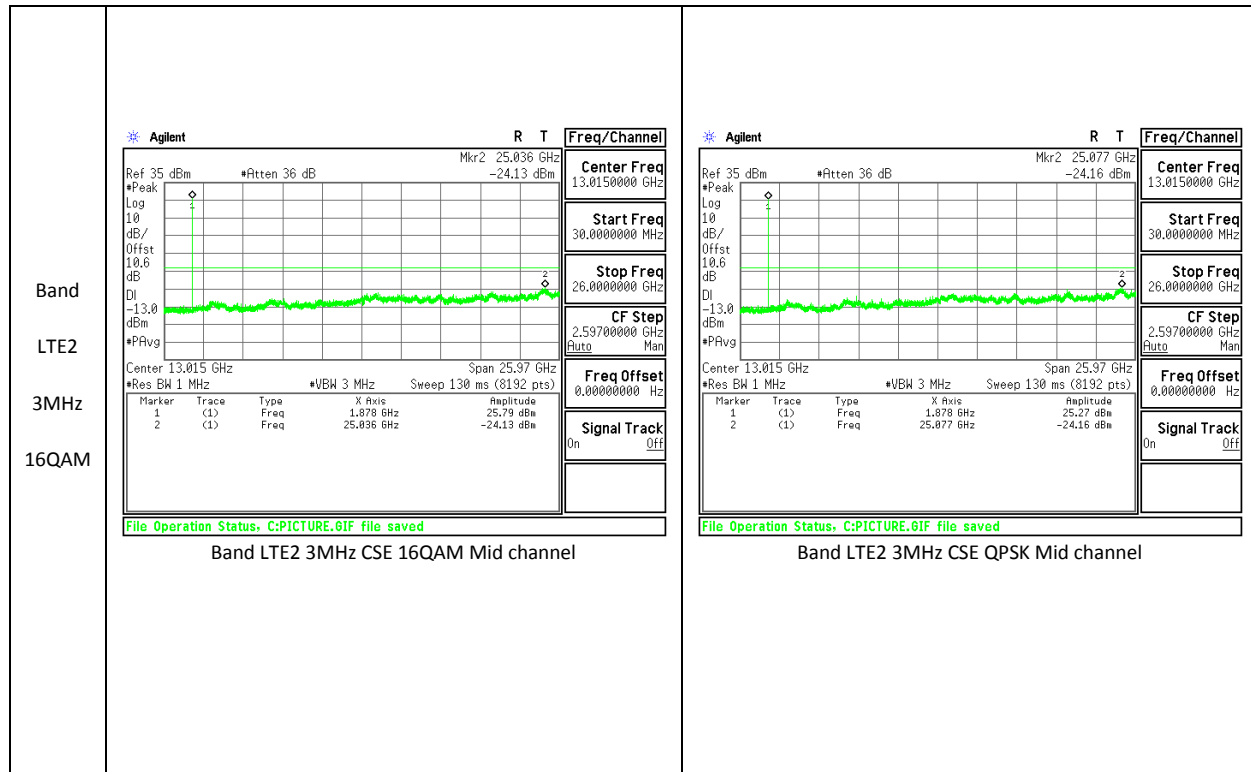




LTE Band 2

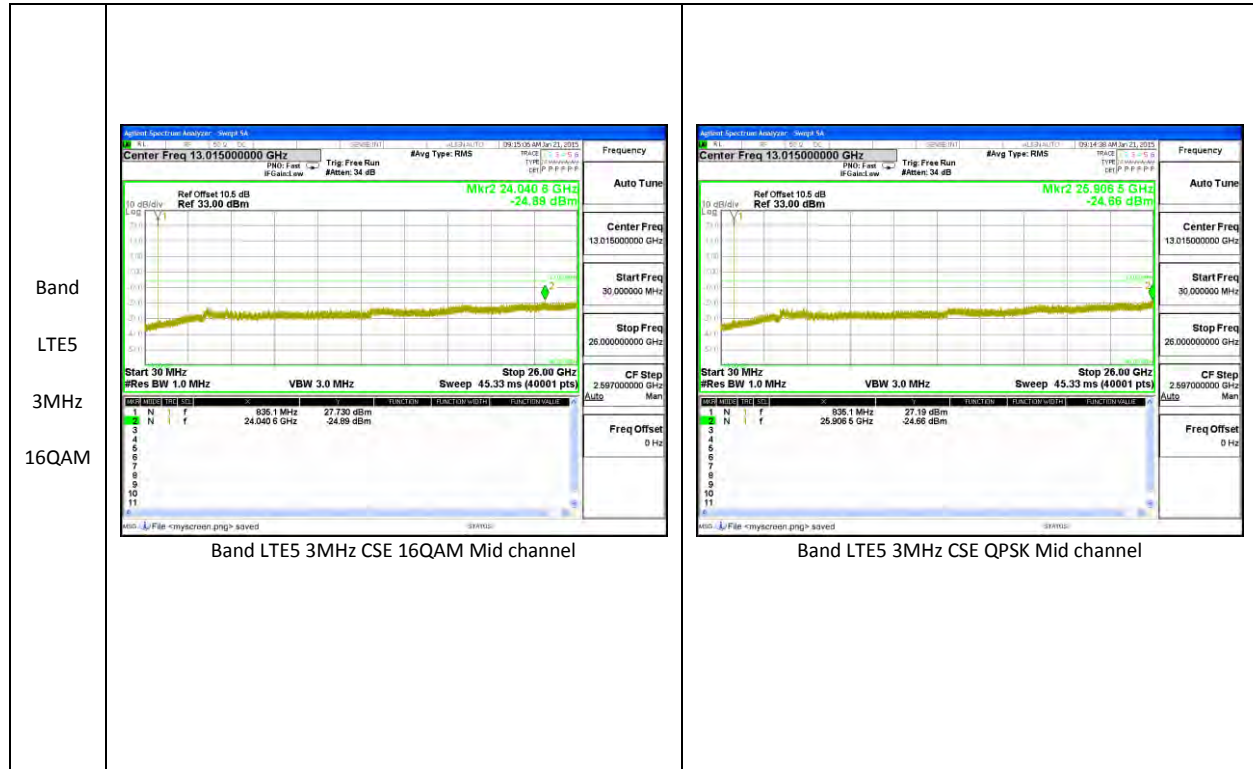


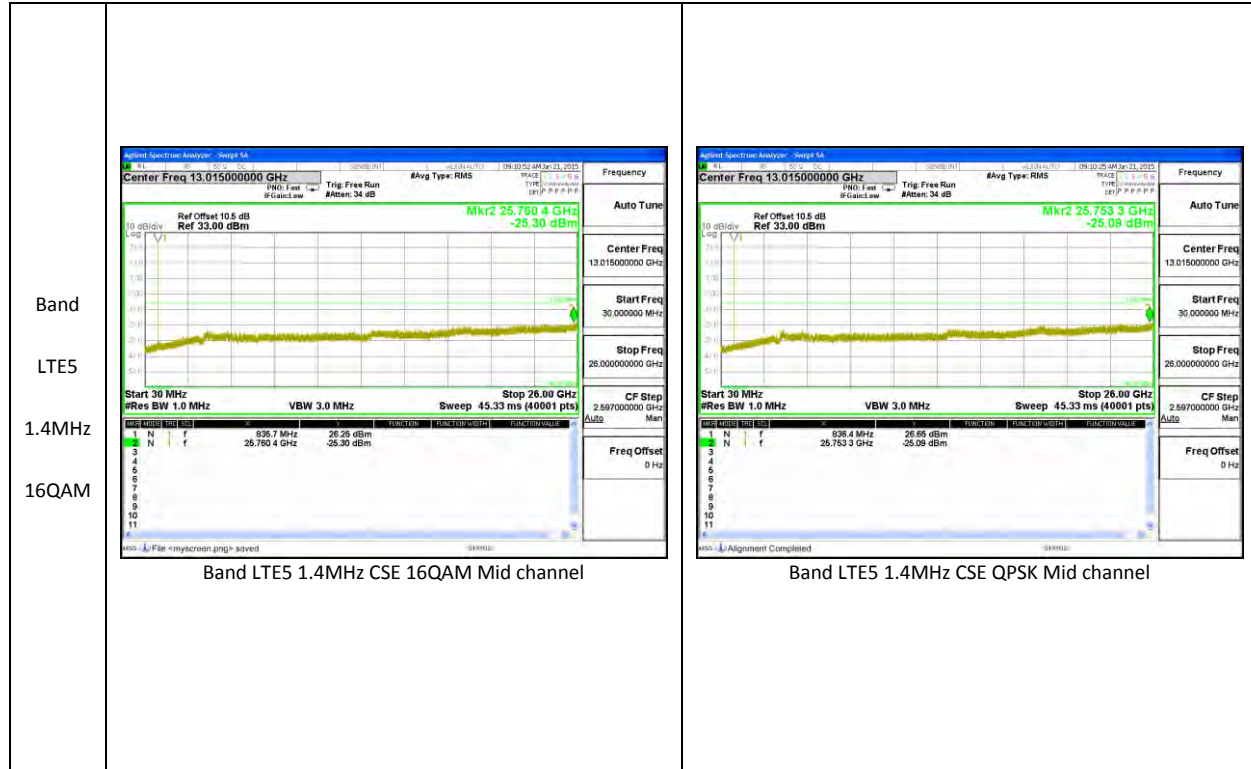




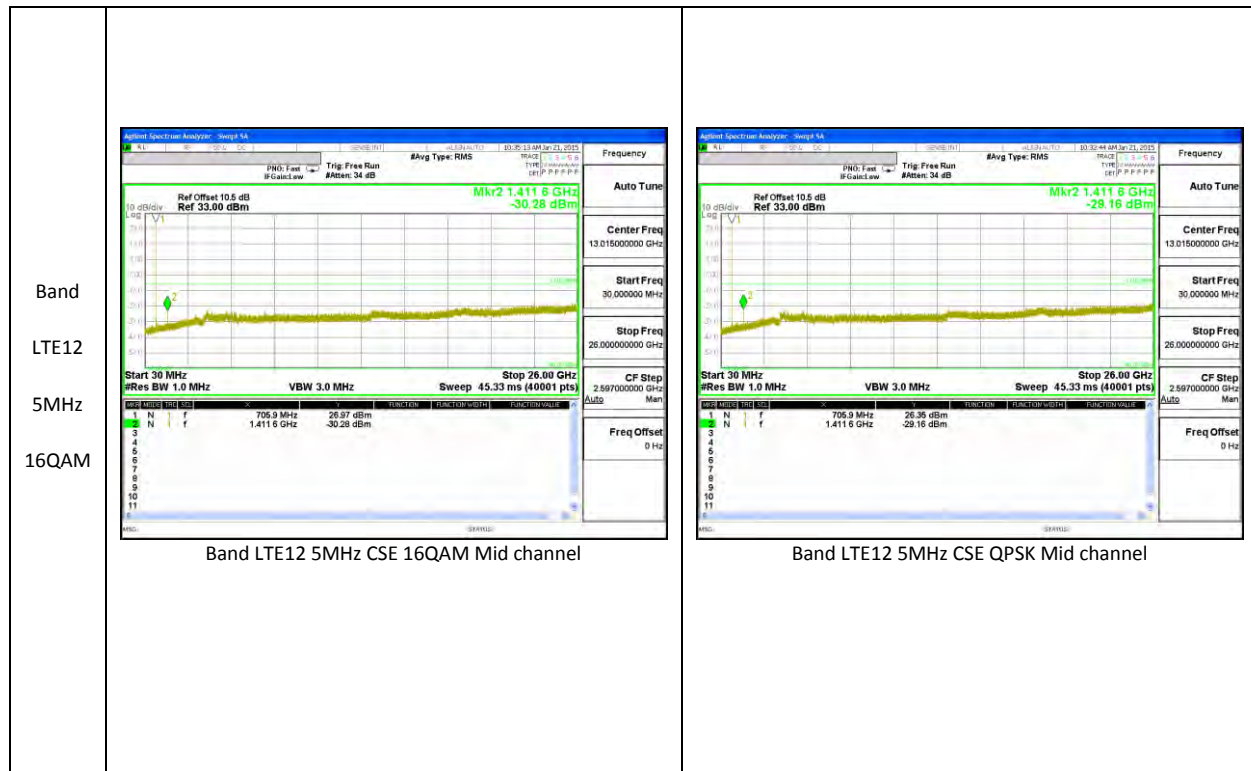
LTE Band 5

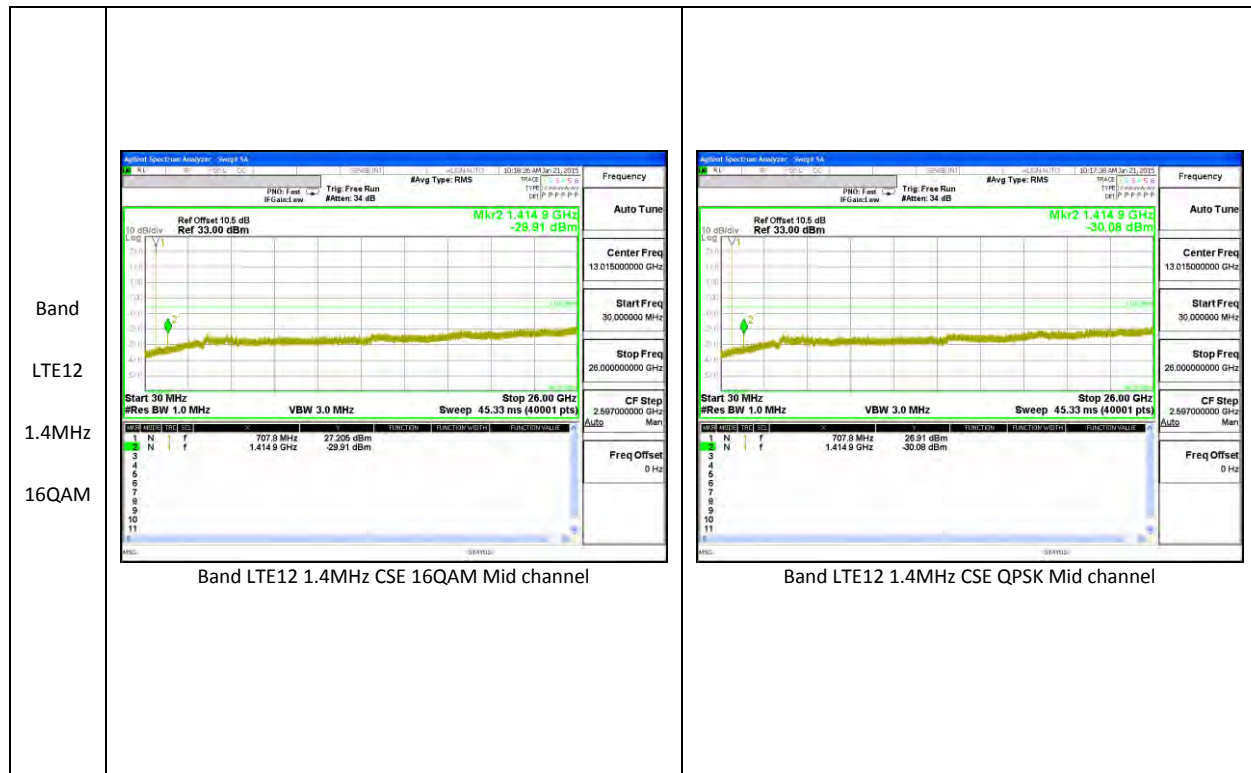
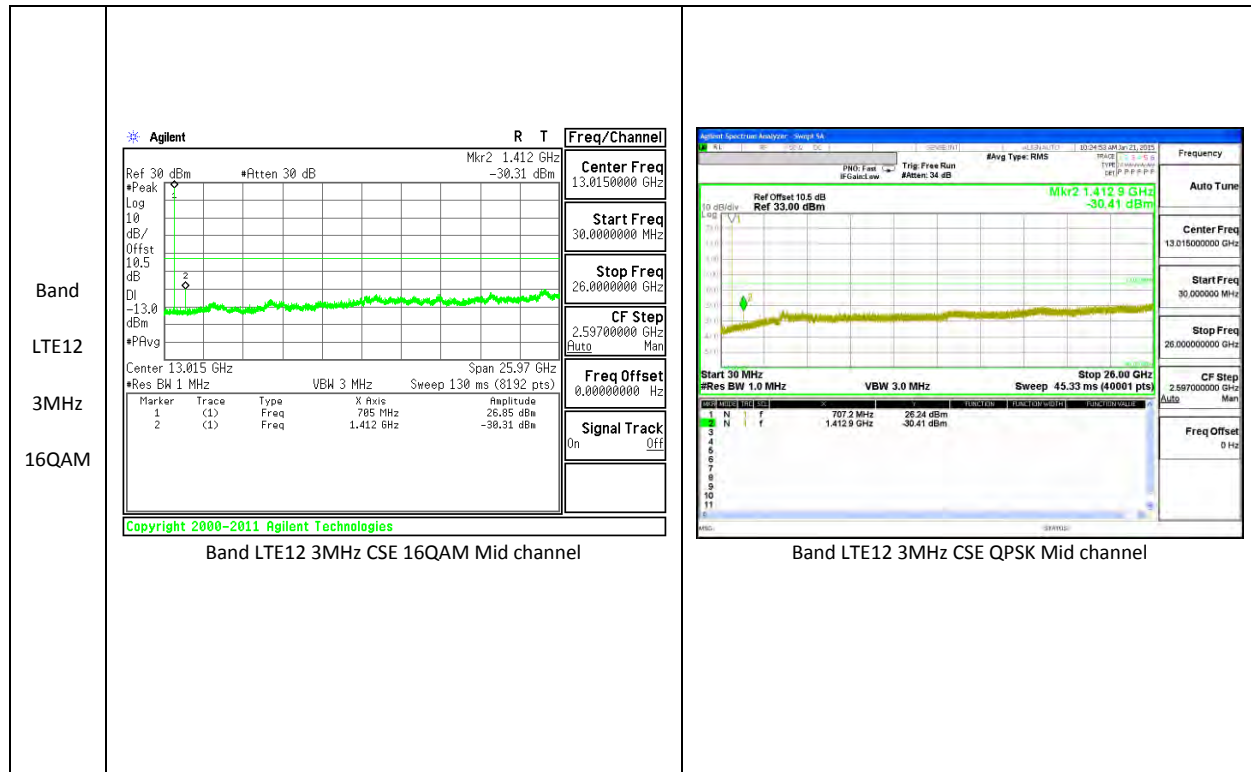




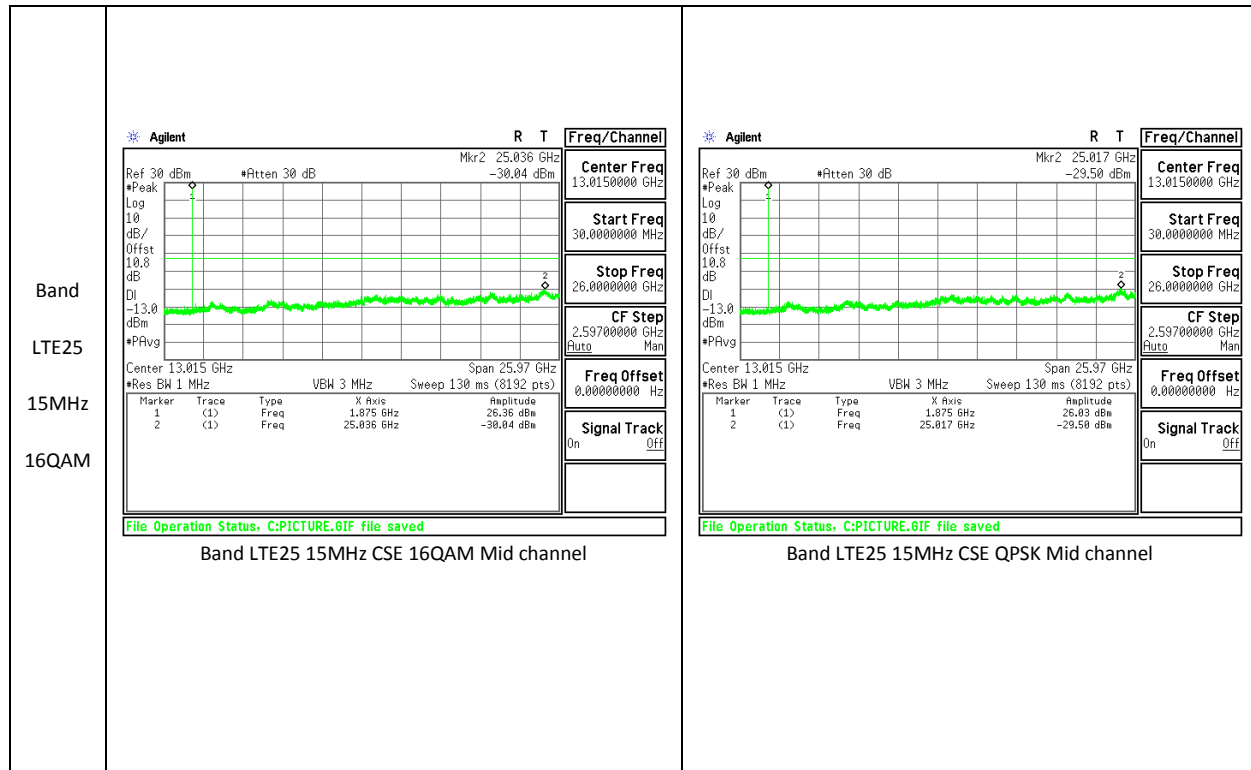
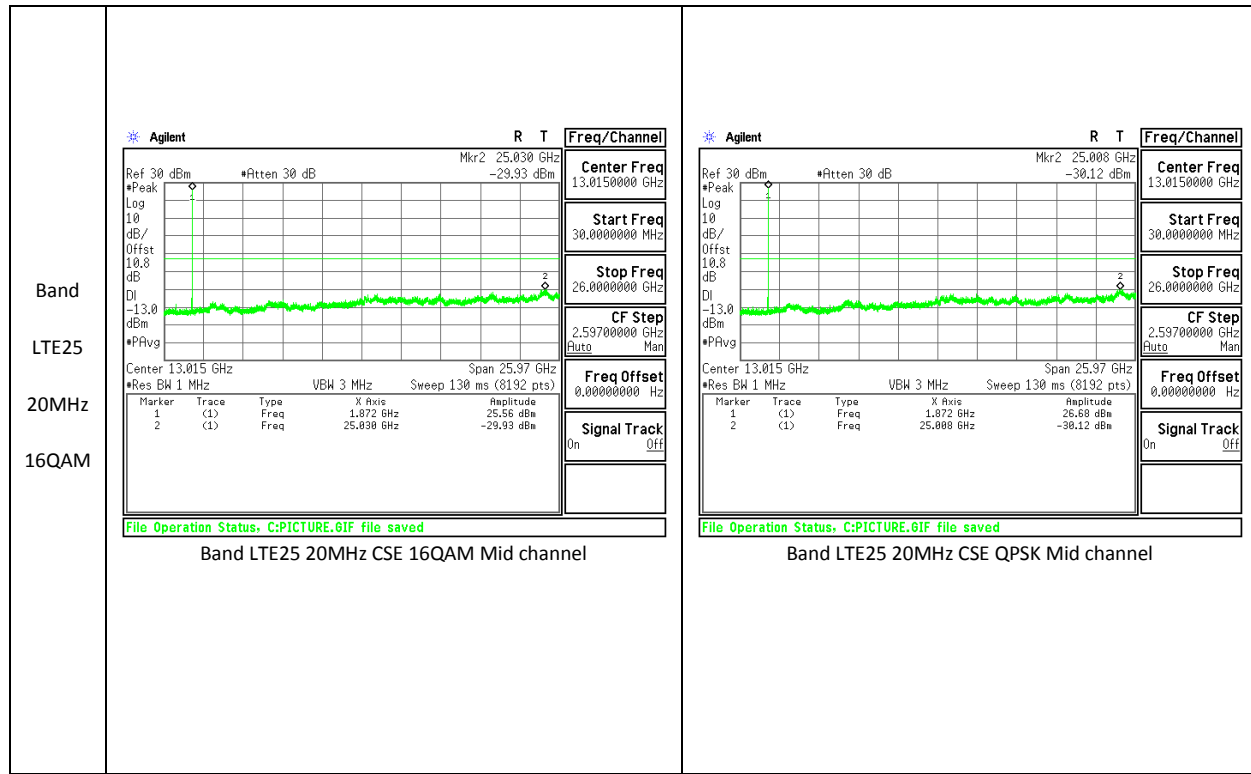


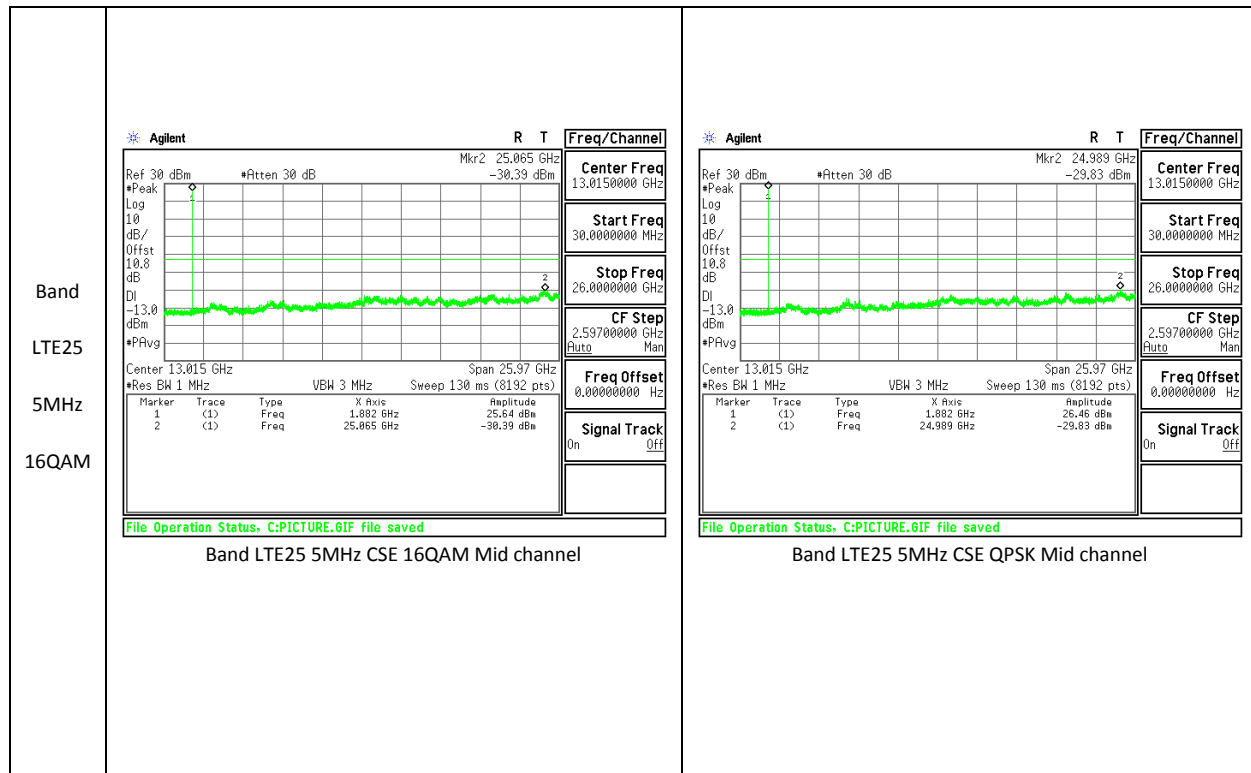
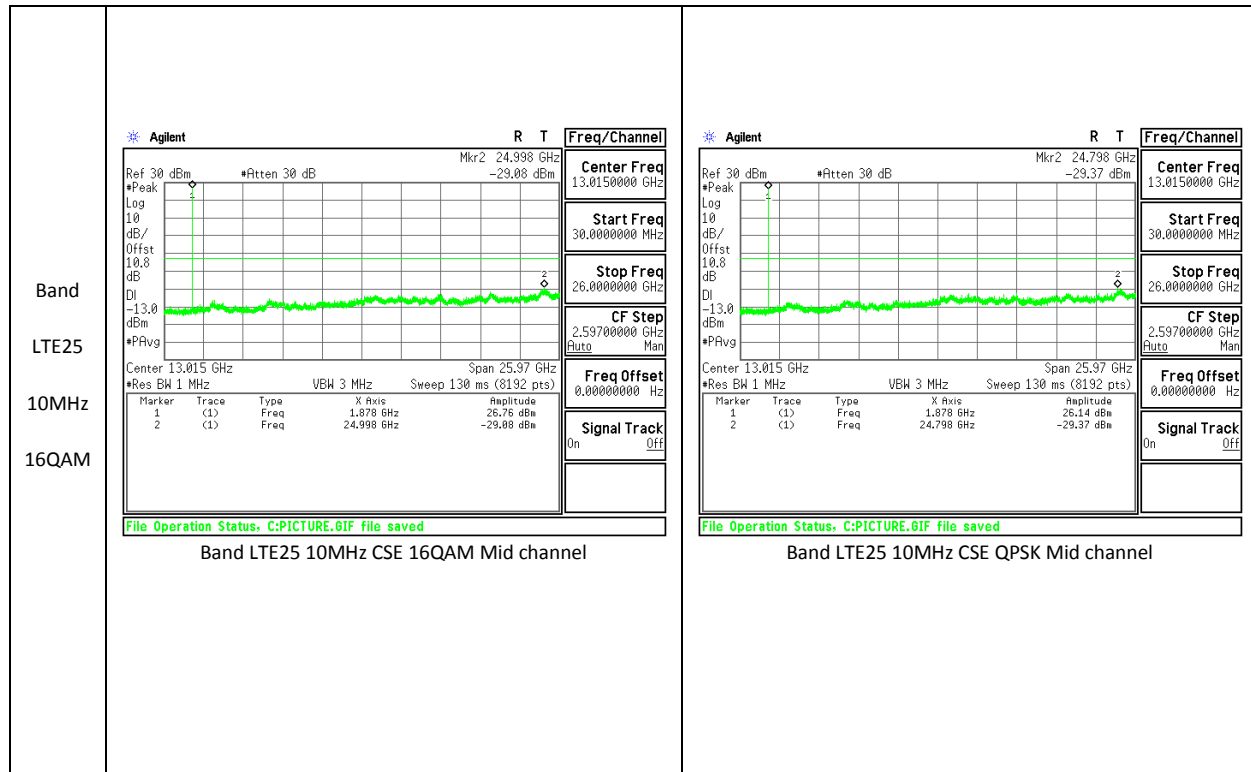
LTE Band 12

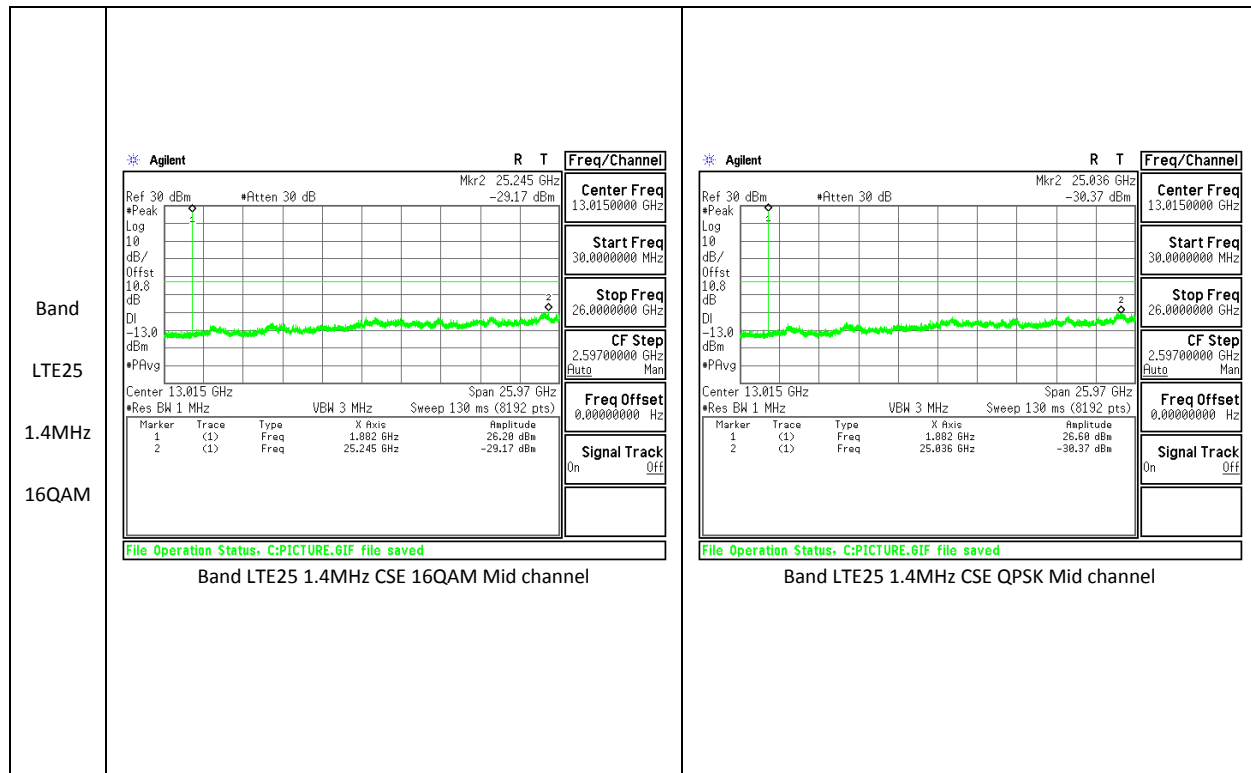
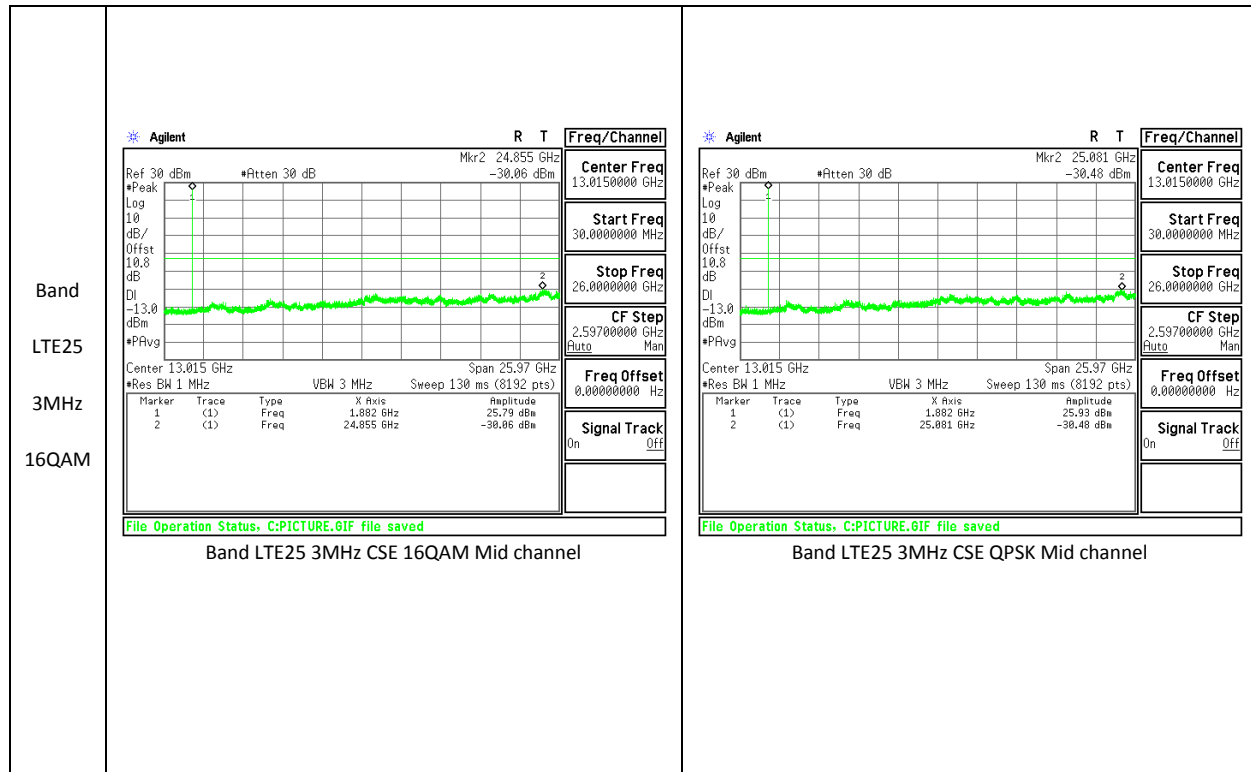




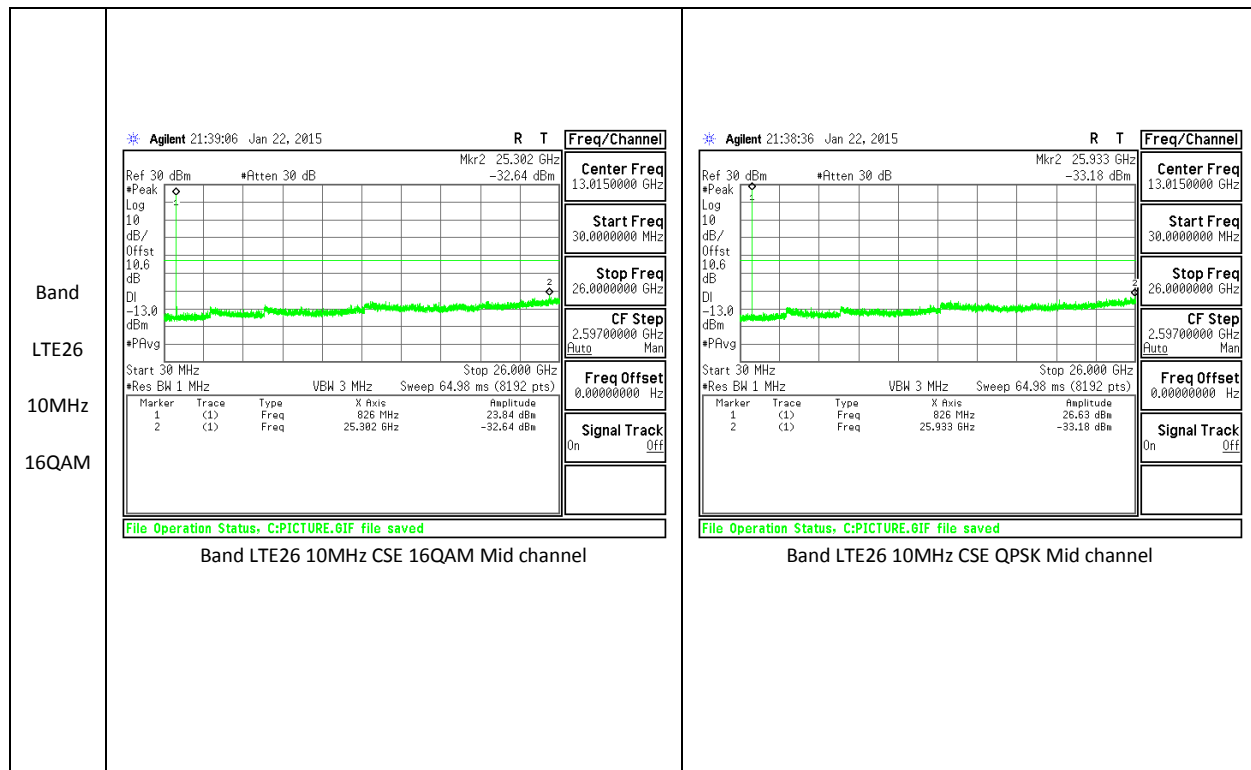
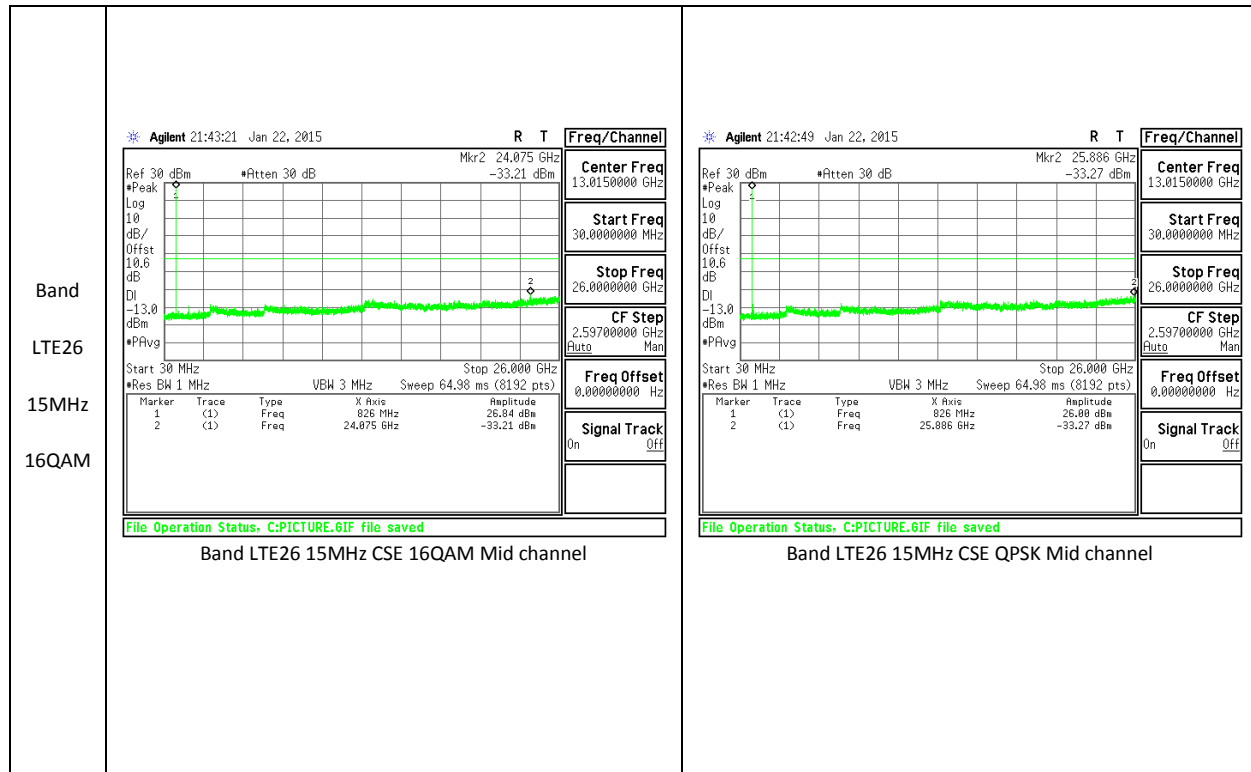
LTE Band 25

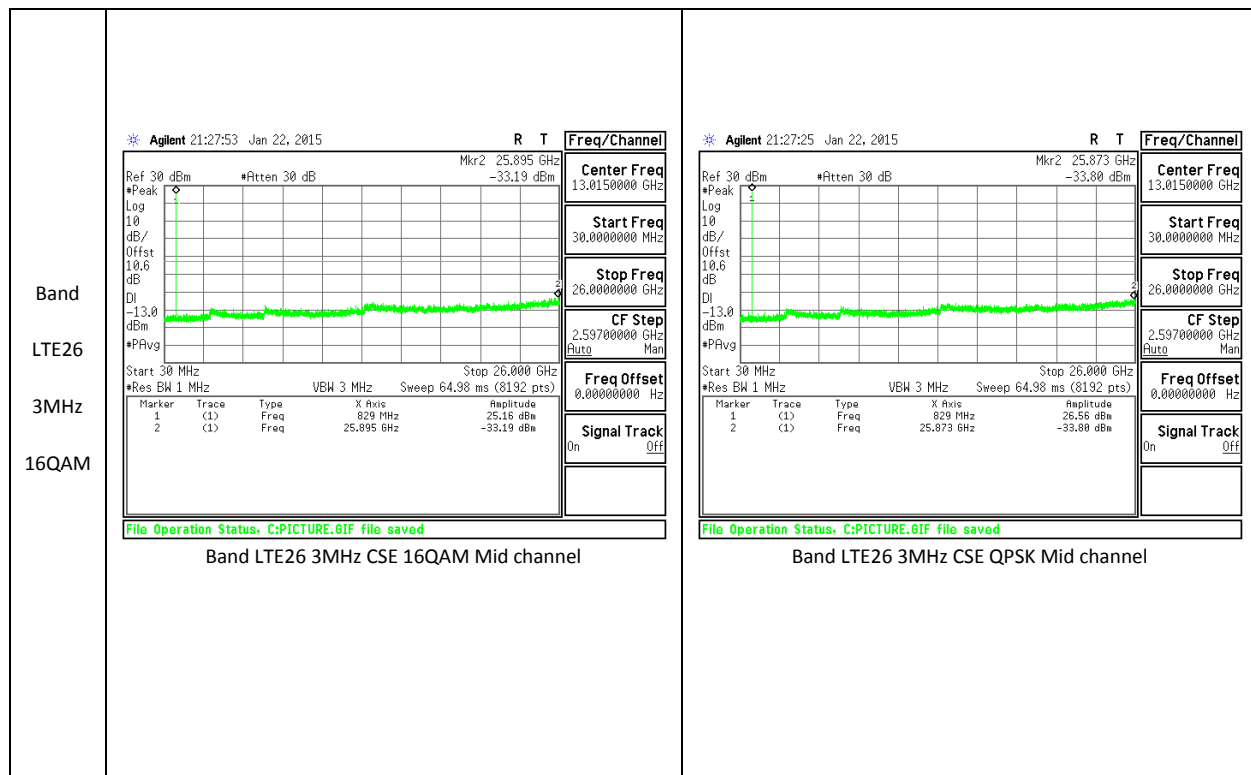
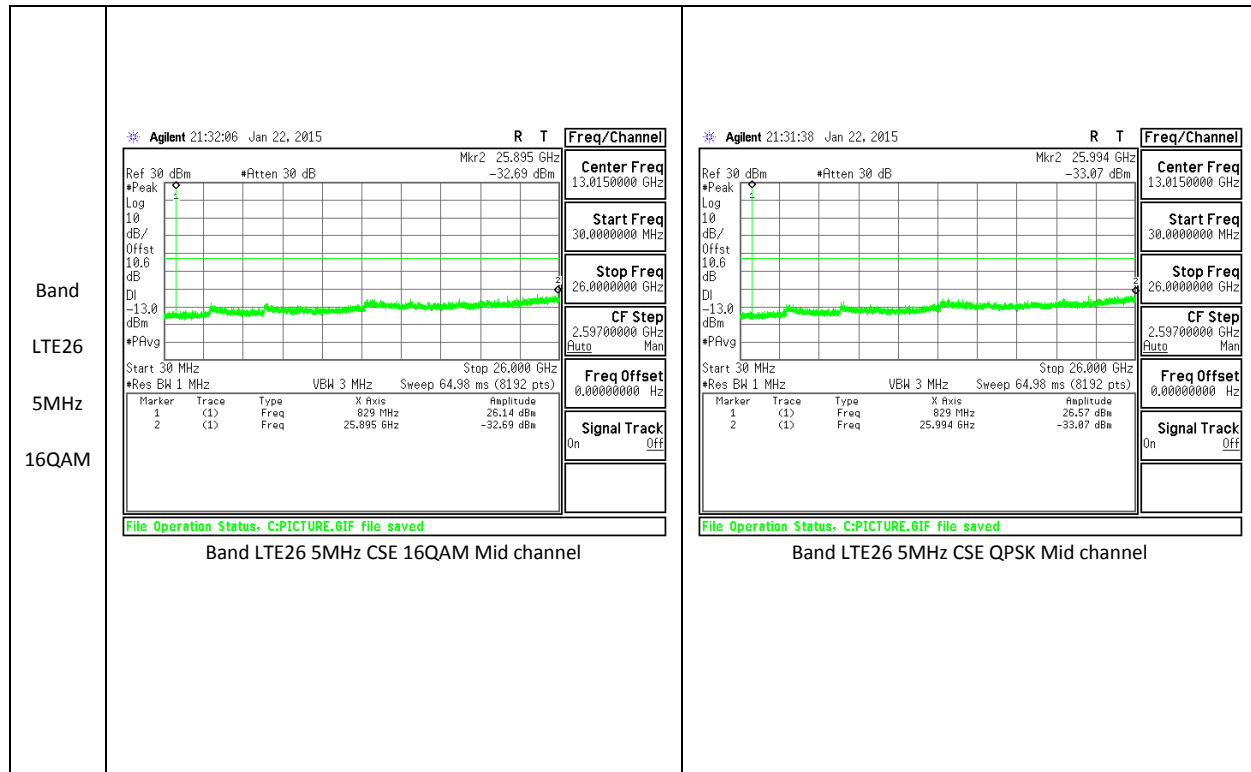


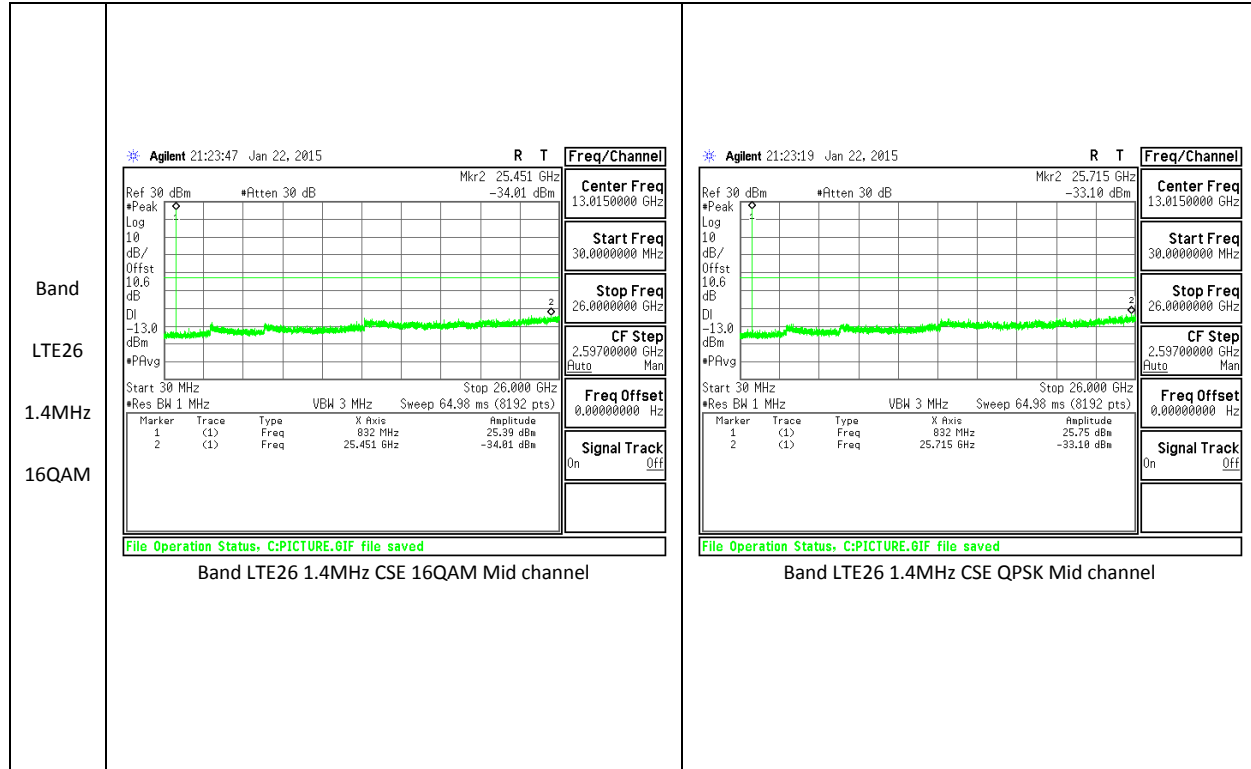




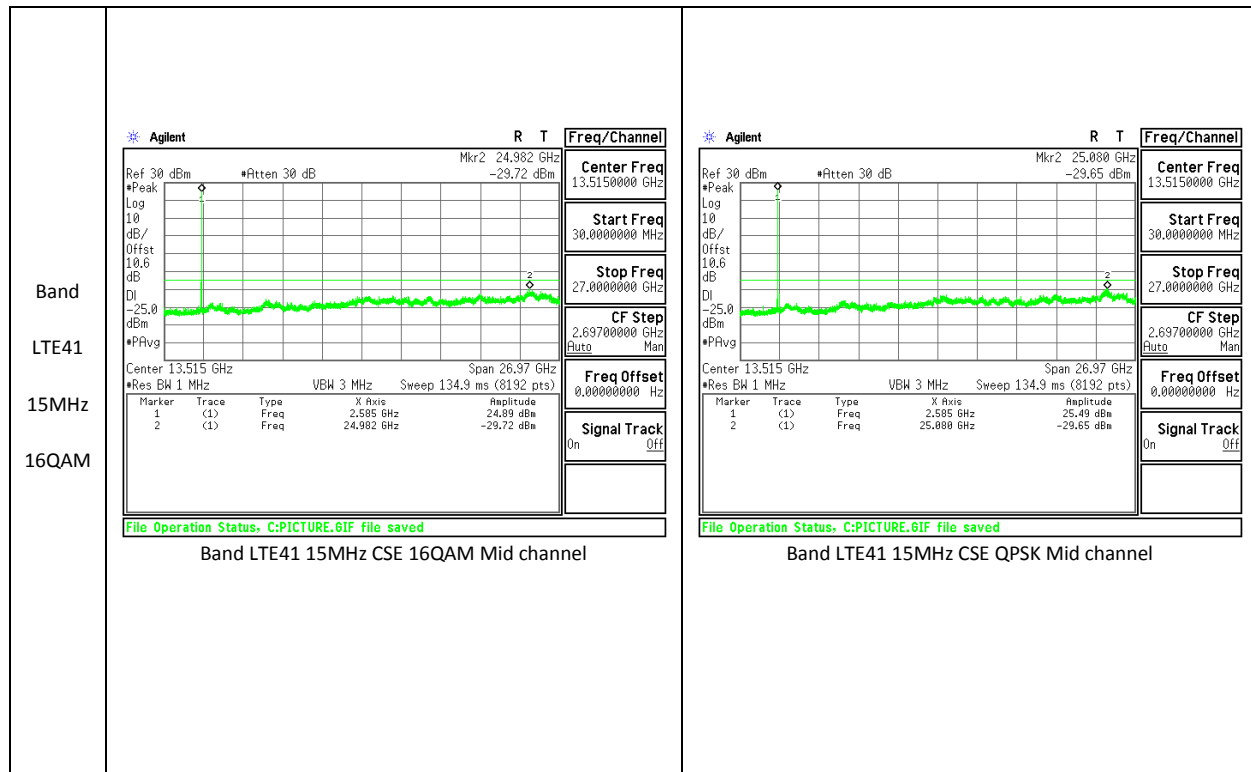
LTE Band 26

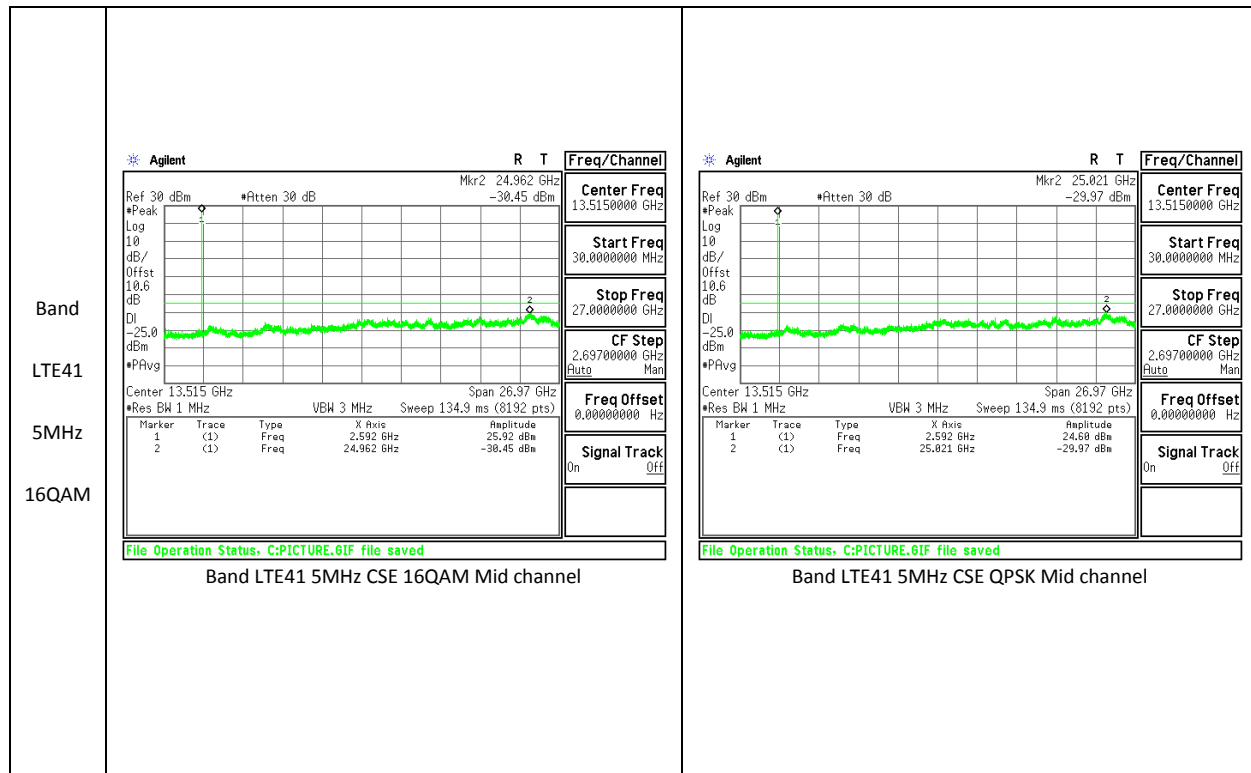
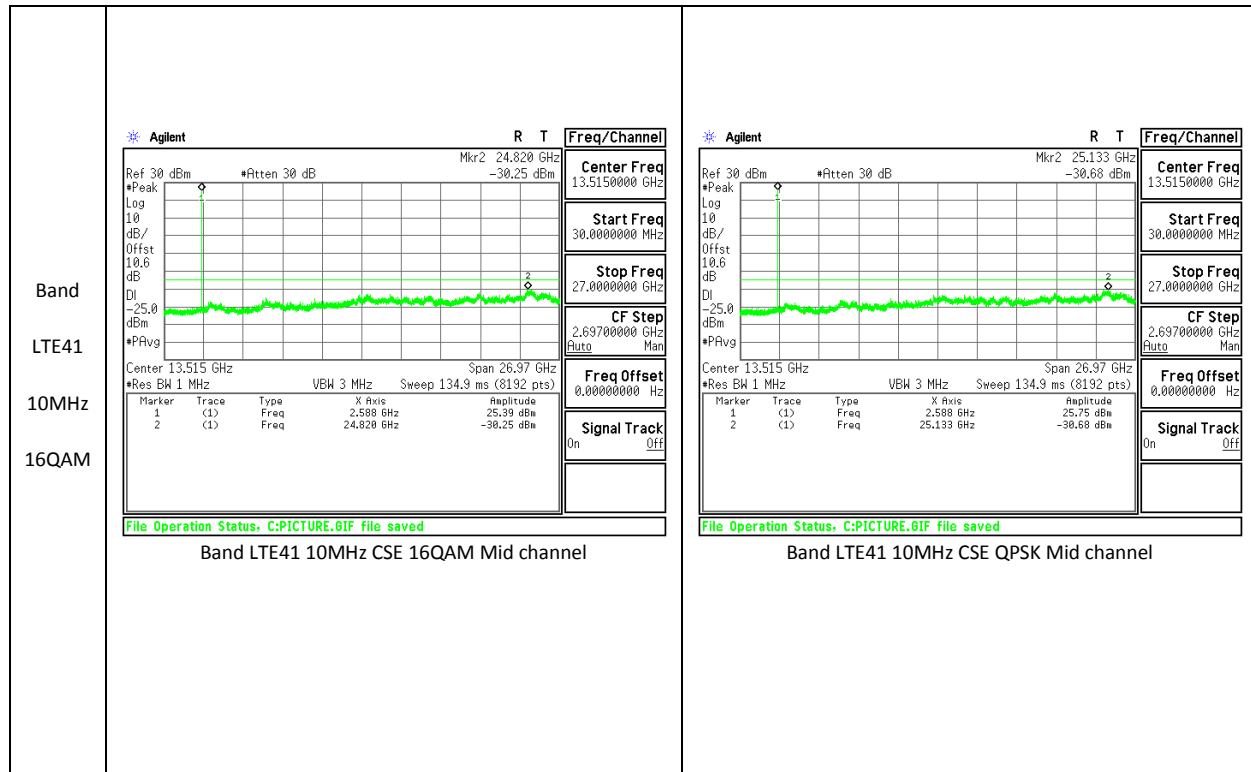






LTE Band 41





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

LTE

RESULTS

See the following pages.

11.1.1. FREQUENCY STABILITY RESULTS

LTE Band 2 – MID CHANNEL (1880.0 MHz)

Reference Frequency: Cellular Mid Channel 1879.999975MHz @ 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	1879.999971	0.002	2.5
3.80	40	1879.999973	0.001	2.5
3.80	30	1879.999975	0.000	2.5
3.80	20	1879.999975	0	2.5
3.80	10	1879.999975	0.000	2.5
3.80	0	1879.999975	0.000	2.5
3.80	-10	1879.999976	-0.001	2.5
3.80	-20	1879.999977	-0.001	2.5
3.80	-30	1879.999978	-0.001	2.5

Reference Frequency: Cellular Mid Channel 1879.999975MHz @ 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	1879.999975	0	2.5
3.23	20	1879.999976	0.000	2.5
4.37	20	1879.999973	0.001	2.5

LTE Band 4 – MID CHANNEL (1732.5 MHz)

Reference Frequency: Cellular Mid Channel 1732.500012MHz @ 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	1732.500010	0.001	2.5
3.80	40	1732.500010	0.001	2.5
3.80	30	1732.500011	0.001	2.5
3.80	20	1732.500012	0	2.5
3.80	10	1732.500011	0.000	2.5
3.80	0	1732.500011	0.000	2.5
3.80	-10	1732.500009	0.002	2.5
3.80	-20	1732.500011	0.001	2.5
3.80	-30	1732.500011	0.001	2.5

Reference Frequency: Cellular Mid Channel 1732.500012MHz @ 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	1732.500012	0	2.5
3.23	20	1732.500010	0.001	2.5
4.37	20	1732.500011	0.001	2.5

LTE Band 5 – MID CHANNEL (836.5 MHz)

Reference Frequency: Cellular Mid Channel 836.50007MHz @ 20°C				
Limit: to stay +/- 2.5 ppm = 2091.250 Hz				
Power Supply (Vdc)	Environment Temperature (°C)	Frequency Deviation Measured with Time Elapse		
		(MHz)	Delta (ppm)	Limit (ppm)
3.80	50	836.500005	0.002	2.5
3.80	40	836.500007	0.000	2.5
3.80	30	836.500006	0.001	2.5
3.80	20	836.500007	0	2.5
3.80	10	836.500006	0.000	2.5
3.80	0	836.500007	0.000	2.5
3.80	-10	836.500008	-0.001	2.5
3.80	-20	836.500008	-0.001	2.5
3.80	-30	836.500007	0.000	2.5
Reference Frequency: Cellular Mid Channel 836.50007MHz @ 20°C				
Limit: to stay +/- 2.5 ppm = 2091.250 Hz				
Power Supply (Vdc)	Environment Temperature (°C)	Frequency Deviation Measured with Time Elapse		
		(MHz)	Delta (ppm)	Limit (ppm)
3.80	20	836.500007	0	2.5
3.23	20	836.500006	0.001	2.5
4.37	20	836.500006	0.000	2.5

LTE Band 12 – MID CHANNEL (707.5 MHz)

Reference Frequency: Cellular Mid Channel 707.50000678 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	707.500005	0.002	2.5
3.80	40	707.500007	0.000	2.5
3.80	30	707.500006	0.001	2.5
3.80	20	707.500007	0	2.5
3.80	10	707.500006	0.001	2.5
3.80	0	707.500007	-0.001	2.5
3.80	-10	707.500008	-0.002	2.5
3.80	-20	707.500008	-0.002	2.5
3.80	-30	707.500007	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	707.500007	0	2.5
3.23	20	707.500006	0.001	2.5
4.37	20	707.500006	0.000	2.5

LTE Band 41 – MID CHANNEL

Reference Frequency: Cellular Mid Channel 2592.999996MHz @ 20°C				
Limit: to stay +/- 2.5 ppm = 6482.500 Hz				
Power Supply (Vdc)	Environment Temperature (°C)	Frequency Deviation Measured with Time Elapse		
		(MHz)	Delta (ppm)	Limit (ppm)
3.80	50	2592.999994	0.001	2.5
3.80	40	2592.999992	0.002	2.5
3.80	30	2592.999997	0.000	2.5
3.80	20	2592.999996	0	2.5
3.80	10	2592.999990	0.002	2.5
3.80	0	2593.000002	-0.002	2.5
3.80	-10	2593.000003	-0.003	2.5
3.80	-20	2593.000002	-0.002	2.5
3.80	-30	2593.000001	-0.002	2.5

Reference Frequency: Cellular Mid Channel 2592.999996 MHz @ 20°C				
Limit: to stay +/- 2.5 ppm = 6482.500 Hz				
Power Supply (Vdc)	Environment Temperature (°C)	Frequency Deviation Measured with Time Elapse		
		(MHz)	Delta (ppm)	Limit (ppm)
3.80	20	2592.999996	0	2.5
4.37	20	2592.999997	0.000	2.5
3.23	20	2592.999995	0.000	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(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

CDMA and LTE

TEST RESULTS

12.1.1. ERP/EIRP Results

CDMA

Band	Mode	Channel	f(MHz)	ERP / EIRP	
				dBm	mW
BC1	1xRTT	25	1851.25	25.6	363.08
		600	1880	24.76	299.23
		1175	1908.75	25.16	328.1
	EVDO REL. 0	25	1851.25	24.56	285.76
		600	1880	25.06	320.63
		1175	1908.75	24.66	292.42

Band	Mode	Channel	f(MHz)	ERP / EIRP	
				dBm	mW
BC0	1xRTT	1013	824.7	20.781	119.7
		384	836.52	21.801	151.39
		777	848.31	21.301	134.93
	EVDO REL. 0	1013	824.7	21.05	127.35
		384	836.52	21.59	144.21
		777	848.31	21.00	125.89

Band	Mode	Channel	f(MHz)	ERP / EIRP	
				dBm	mW
BC10	1xRTT	476	817.9	19.651	92.28
		580	820.5	20.601	114.84
		684	823.1	20.281	106.68
	EVDO REL. 0	476	817.9	19.70	93.33
		580	820.5	20.36	108.64
		684	823.1	20.62	115.35

12.1.2. LTE ERP/EIRP Results

LTE Band 2

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE2	20	QPSK	1/0	1860	25.9426	392.88
			1/0	1880	25.7188	373.15
			1/0	1900	25.265	336.12
		16QAM	1/0	1860	24.8626	306.38
			1/0	1880	24.6188	289.65
			1/0	1900	24.455	278.93

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE2	15	QPSK	1/0	1857.5	25.844325	384.09
			1/0	1880	25.7788	378.34
			1/0	1902.5	25.342225	342.15
		16QAM	1/0	1857.5	24.774325	300.22
			1/0	1880	24.7588	299.14
			1/0	1902.5	24.322225	270.53

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE2	10	QPSK	1/0	1855	25.78605	378.97
			1/0	1880	25.6488	367.18
			1/0	1905	25.13945	326.55
		16QAM	1/0	1855	24.58605	287.48
			1/0	1880	24.7588	299.14
			1/0	1905	24.06945	255.24

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE2	5	QPSK	1/0	1852.5	25.297775	338.67
			1/0	1880	25.1888	330.28
			1/0	1907.5	24.336675	271.44
		16QAM	1/0	1852.5	24.387775	274.65
			1/0	1880	24.1688	261.14
			1/0	1907.5	23.276675	212.65

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE2	3	QPSK	1/0	1851.5	25.488465	353.87
			1/0	1880	25.1088	324.25
			1/0	1908.5	24.539565	284.42
		16QAM	1/0	1851.5	24.688465	294.34
			1/0	1880	23.8488	242.59
			1/0	1908.5	23.379565	217.75

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE2	1.4	QPSK	1/0	1850.7	25.499017	354.73
			1/0	1880	24.9188	310.37
			1/0	1909.3	24.261877	266.8
		16QAM	1/0	1850.7	24.489017	281.13
			1/0	1880	23.7588	237.62
			1/0	1909.3	23.421877	219.88

LTE Band 4

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE4	20	QPSK	1/0	1720	23.5368	225.78
			1/0	1732.5	24.72105	296.55
			1/0	1745	24.3753	273.86
		16QAM	1/0	1720	22.7168	186.93
			1/0	1732.5	23.47105	222.38
			1/0	1745	23.5253	225.18

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE4	15	QPSK	1/0	1717.5	23.99595	250.95
			1/0	1732.5	24.34105	271.71
			1/0	1747.5	24.47615	280.29
		16QAM	1/0	1717.5	22.92595	196.15
			1/0	1732.5	23.27105	212.38
			1/0	1747.5	23.56615	227.31

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE4	10	QPSK	1/0	1715	23.5351	225.69
			1/0	1732.5	24.49105	281.26
			1/0	1750	24.097	256.86
		16QAM	1/0	1715	22.4351	175.19
			1/0	1732.5	23.57105	227.56
			1/0	1750	23.307	214.14

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE4	5	QPSK	1/0	1712.5	23.21425	209.62
			1/0	1732.5	24.27105	267.37
			1/0	1752.5	24.46785	279.76
		16QAM	1/0	1712.5	22.34425	171.56
			1/0	1732.5	23.37105	217.32
			1/0	1752.5	23.29785	213.69

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE4	3	QPSK	1/0	1711.5	23.62791	230.56
			1/0	1732.5	24.25105	266.14
			1/0	1753.5	24.56419	286.03
		16QAM	1/0	1711.5	22.54791	179.8
			1/0	1732.5	23.07105	202.82
			1/0	1753.5	23.43419	220.51

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE4	1.4	QPSK	1/0	1710.7	23.380838	217.81
			1/0	1732.5	24.33105	271.08
			1/0	1754.3	23.171262	207.55
		16QAM	1/0	1710.7	22.550838	179.92
			1/0	1732.5	23.47105	222.38
			1/0	1754.3	24.321262	270.47

LTE Band 5

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE5	10	QPSK	1/0	829	20.7	117.49
			1/0	836.5	20.7	117.49
			1/0	844	19.6	91.2
		16QAM	1/0	829	19.8	95.5
			1/0	836.5	19.8	95.5
			1/0	844	18.8	75.86

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE5	5	QPSK	1/0	826.5	20.6	114.82
			1/0	836.5	20.8	120.23
			1/0	846.5	20.8	120.23
		16QAM	1/0	826.5	19.7	93.33
			1/0	836.5	20.1	102.33
			1/0	846.5	19.9	97.72

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE5	3	QPSK	1/0	825.5	20.2	104.71
			1/0	836.5	19.8	95.5
			1/0	847.5	20.9	123.03
		16QAM	1/0	825.5	19.3	85.11
			1/0	836.5	19.1	81.28
			1/0	847.5	20	100

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE5	1.4	QPSK	1/0	824.7	20.3	107.15
			1/0	836.5	20.5	112.2
			1/0	848.3	20.2	104.71
		16QAM	1/0	824.7	19.4	87.1
			1/0	836.5	19.4	87.1
			1/0	848.3	19.2	83.18

LTE Band 12

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE12	10	QPSK	1/0	704	20.46	111.17
			1/0	707.5	20.8	120.23
			1/0	711	21.05	127.35
		16QAM	1/0	704	19.6	91.2
			1/0	707.5	19.7	93.33
			1/0	711	20.1	102.33

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE12	5	QPSK	1/0	701.5	19.9	97.72
			1/0	707.5	21.2	131.83
			1/0	713.5	20.7	117.49
		16QAM	1/0	701.5	18.8	75.86
			1/0	707.5	20.1	102.33
			1/0	713.5	19.9	97.72

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE12	3	QPSK	1/0	700.5	20.65	116.14
			1/0	707.5	20.86	121.9
			1/0	714.5	20.11	102.57
		16QAM	1/0	700.5	19.7	93.33
			1/0	707.5	20	100
			1/0	714.5	19.3	85.11

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE12	1.4	QPSK	1/0	699.7	20.87	122.18
			1/0	707.5	20.77	119.4
			1/0	715.3	20.58	114.29
		16QAM	1/0	699.7	20	100
			1/0	707.5	19.9	97.72
			1/0	715.3	19.7	93.33

LTE Band 25

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE25	20	QPSK	1/0	1860	25.9426	392.88
			1/0	1882.5	25.7188	373.15
			1/0	1905	25.265	336.12
		16QAM	1/0	1860	24.8626	306.38
			1/0	1882.5	24.6188	289.65
			1/0	1905	24.455	278.93

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE25	15	QPSK	1/0	1857.5	25.844325	384.09
			1/0	1882.5	25.7788	378.34
			1/0	1907.5	25.342225	342.15
		16QAM	1/0	1857.5	24.774325	300.22
			1/0	1882.5	24.7588	299.14
			1/0	1907.5	24.322225	270.53

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE25	10	QPSK	1/0	1855	25.78605	378.97
			1/0	1882.5	25.6488	367.18
			1/0	1910	25.13945	326.55
		16QAM	1/0	1855	24.58605	287.48
			1/0	1882.5	24.7588	299.14
			1/0	1910	24.06945	255.24

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE25	5	QPSK	1/0	1852.5	25.297775	338.67
			1/0	1882.5	25.1888	330.28
			1/0	1912.5	24.336675	271.44
		16QAM	1/0	1852.5	24.387775	274.65
			1/0	1882.5	24.1688	261.14
			1/0	1912.5	23.276675	212.65

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE25	3	QPSK	1/0	1851.5	25.488465	353.87
			1/0	1882.5	25.1088	324.25
			1/0	1913.5	24.539565	284.42
		16QAM	1/0	1851.5	24.688465	294.34
			1/0	1882.5	23.8488	242.59
			1/0	1913.5	23.379565	217.75

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE25	1.4	QPSK	1/0	1850.7	25.50	354.81
			1/0	1882.5	24.92	310.46
			1/0	1914.3	24.26	266.69
		16QAM	1/0	1850.7	24.49	281.19
			1/0	1882.5	23.76	237.68
			1/0	1914.3	23.42	219.79

LTE Band 26

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE26	15	QPSK	1/0	821.5	19.8	95.5
			1/0	831.5	20.55	113.5
			1/0	841.5	20.27	106.41
		16QAM	1/0	821.5	18.9	77.62
			1/0	831.5	19.7	93.33
			1/0	841.5	19.4	87.1

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE26	10	QPSK	1/0	819	20.7	117.49
			1/0	831.5	20.7	117.49
			1/0	844	19.6	91.2
		16QAM	1/0	819	19.8	95.5
			1/0	831.5	19.8	95.5
			1/0	844	18.8	75.86

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE26	5	QPSK	1/0	816.5	20.6	114.82
			1/0	831.5	20.8	120.23
			1/0	846.5	20.8	120.23
		16QAM	1/0	816.5	19.7	93.33
			1/0	831.5	20.1	102.33
			1/0	846.5	19.9	97.72

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE26	3	QPSK	1/0	815.5	20.2	104.71
			1/0	831.5	19.8	95.5
			1/0	847.5	20.9	123.03
		16QAM	1/0	815.5	19.3	85.11
			1/0	831.5	19.1	81.28
			1/0	847.5	20	100

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE26	1.4	QPSK	1/0	814.7	20.3	107.15
			1/0	831.5	20.5	112.2
			1/0	848.3	20.2	104.71
		16QAM	1/0	814.7	19.4	87.1
			1/0	831.5	19.4	87.1
			1/0	848.3	19.2	83.18

LTE Band 41

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE41	20	QPSK	1/0	2506	25.6398	366.42
			1/0	2593	26.5459	451.43
			1/0	2680	26.1356	410.73
		16QAM	1/0	2506	24.8398	304.78
			1/0	2593	25.4059	347.21
			1/0	2680	25.0256	318.1

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE41	15	QPSK	1/0	2503.5	25.36905	344.27
			1/0	2593	25.6059	363.57
			1/0	2682.5	25.5624	359.95
		16QAM	1/0	2503.5	24.33905	271.58
			1/0	2593	26.4659	443.19
			1/0	2682.5	25.3324	341.38

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE41	10	QPSK	1/0	2501	25.0183	317.56
			1/0	2593	26.3059	427.16
			1/0	2685	25.0392	319.1
		16QAM	1/0	2501	24.3383	271.54
			1/0	2593	25.4059	347.21
			1/0	2685	24.24	265.46

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE41	5	QPSK	1/0	2498.5	24.783755	300.87
			1/0	2593	25.6659	368.63
			1/0	2687.5	24.796	301.72
		16QAM	1/0	2498.5	23.983755	250.25
			1/0	2593	24.7459	298.26
			1/0	2687.5	24.146	259.78

12.1.1. ERP/EIRP PLOTS

CDMA

Band BC1 EVDO	High Frequency Fundamental Measurement UL Verification Services Chamber B								
	Company:		LG						
	Project #:		15119834						
	Date:		1/30/2015						
	Test Engineer:		Kiya Kedida						
	Configuration:		EUT Only						
	Mode:		CDMA EVDO BC1						
	Test Equipment:		Receiving: Horn T345, and Chamber B 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	17.4	V	0.85	8.01	24.56	33.0	-8.4		
1.8513	17.1	H	0.85	8.01	24.29	33.0	-8.7		
Mid Ch									
1.8800	17.1	V	0.85	8.01	24.28	33.0	-8.7		
1.8800	17.9	H	0.85	8.01	25.06	33.0	-7.9		
High Ch									
1.9088	17.1	V	0.85	8.01	24.28	33.0	-8.7		
1.9088	17.5	H	0.85	8.01	24.66	33.0	-8.3		
Rev. 3.17.11									

Band BC1 1xRTT	High Frequency Fundamental Measurement UL Verification Services Chamber B								
	Company: LG Project #: 15I19834 Date: 1/29/2015 Test Engineer: Kiya Kedida Configuration: EUT Only Mode: CDMA RTT BC1								
	Test Equipment: Receiving: Horn T345, and Chamber B 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	17.0	V	0.85	8.01	24.16	33.0	-8.8	
	1.8513	18.4	H	0.85	8.01	25.60	33.0	-7.4	
	Mid Ch								
	1.8800	16.3	V	0.85	8.01	23.48	33.0	-9.5	
	1.8800	17.6	H	0.85	8.01	24.76	33.0	-8.2	
High Ch									
1.9088	16.6	V	0.85	8.01	23.76	33.0	-9.2		
1.9088	18.0	H	0.85	8.01	25.16	33.0	-7.8		
Rev. 3.17.11									

Band BC0 EVDO	High Frequency Substitution Measurement																																																																																																	
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LTE Band 2

Band LTE2 20MHz 16QAM	High Frequency Substitution Measurement UL Verification Services, Inc.																																																																																																	
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LTE Band 4

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	Low Ch									
	1850.70	16.62	V	0.9	7.9	23.61	33.0	-9.4		
	1850.70	18.51	H	0.9	7.9	25.50	33.0	-7.5		
	Mid Ch									
	1882.50	16.11	V	0.9	7.9	23.08	33.0	-9.9		
	1882.50	17.95	H	0.9	7.9	24.92	33.0	-8.1		
High Ch										
1914.70	16.24	V	0.9	7.9	23.22	33.0	-9.8			
1914.70	17.28	H	0.9	7.9	24.26	33.0	-8.7			

LTE Band 26

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