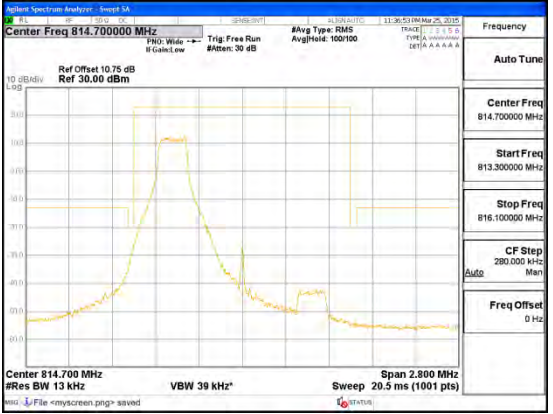
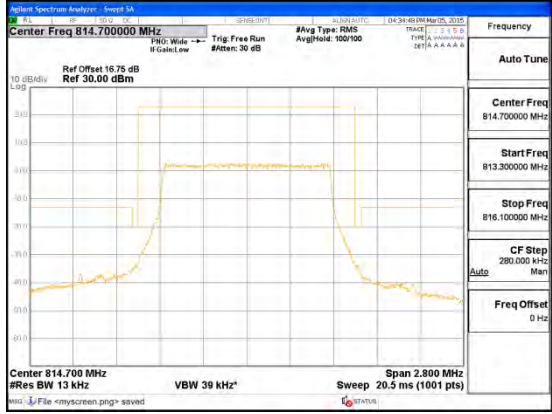
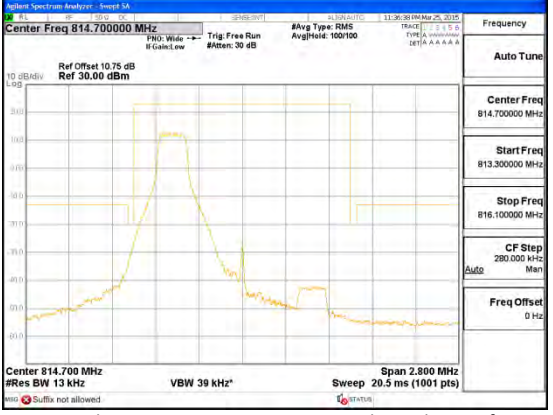
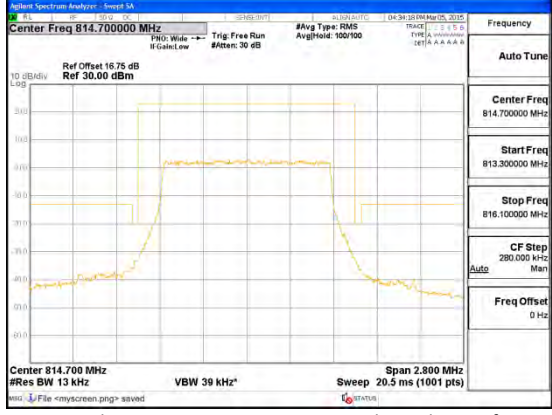


<p>Band LTE26 1.4MHz 16QAM</p>	 <p>Band LTE26 1.4MHz EM 16QAM Low Channel 1RB.gif</p>	 <p>Band LTE26 1.4MHz EM 16QAM Low Channel FRB.gif</p>
<p>Band LTE26 1.4MHz QPSK</p>	 <p>Band LTE26 1.4MHz EM QPSK Low Channel 1RB.gif</p>	 <p>Band LTE26 1.4MHz EM QPSK Low Channel FRB.gif</p>

CDMA BC10



11.3. 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

11.3.1. OUT OF BAND EMISSIONS RESULT

CDMA

Band	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
BC10	1xRTT	817.9	-35.89	-13	-22.89
		820.5	-36.24	-13	-23.24
		823.1	-35.59	-13	-22.59
	EVDO R0	817.9	-34.85	-13	-21.85
		820.5	-34.62	-13	-21.62
		823.1	-34.94	-13	-21.94
BC0	1xRTT	824.7	-34.78	-13	-21.78
		836.52	-35.56	-13	-22.56
		848.31	-34.53	-13	-21.53
	EVDO R0	824.7	-33.91	-13	-20.91
		836.52	-34.81	-13	-21.81
		848.31	-34.95	-13	-21.95
BC1	1xRTT	1851.25	-34.11	-13	-21.11
		1880	-35.07	-13	-22.07
		1908.75	-35.10	-13	-22.10
	EVDO R0	1851.25	-37.67	-13	-24.67
		1880	-37.52	-13	-24.52
		1908.75	-37.90	-13	-24.90

LTE Band 2

Band	BW (MHz)	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
LTE2	20	QPSK	1860	-29.68	-13	-16.68
			1880	-27.40	-13	-14.40
			1900	-27.72	-13	-14.72
		16QAM	1860	-28.01	-13	-15.01
			1880	-27.29	-13	-14.29
			1900	-27.70	-13	-14.70
	15	QPSK	1857.5	-27.13	-13	-14.13
			1880	-27.60	-13	-14.60
			1902.5	-29.60	-13	-16.60
		16QAM	1857.5	-27.51	-13	-14.51
			1880	-26.03	-13	-13.03
			1902.5	-29.13	-13	-16.13
	10	QPSK	1855	-22.03	-13	-9.03
			1880	-21.51	-13	-8.51
			1905	-30.61	-13	-17.61
		16QAM	1855	-21.97	-13	-8.97
			1880	-21.67	-13	-8.67
			1905	-29.63	-13	-16.63
	5	QPSK	1852.5	-30.26	-13	-17.26
			1880	-21.07	-13	-8.07
			1907.5	-29.07	-13	-16.07
		16QAM	1852.5	-29.80	-13	-16.80
			1880	-21.08	-13	-8.08
			1907.5	-21.20	-13	-8.20

Band	BW (MHz)	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
LTE2	3	QPSK	1851.5	-27.87	-13	-14.87
			1880	-27.91	-13	-14.91
			1908.5	-27.83	-13	-14.83
		16QAM	1851.5	-27.73	-13	-14.73
			1880	-27.27	-13	-14.27
			1908.5	-27.53	-13	-14.53
	1.4	QPSK	1850.7	-27.43	-13	-14.43
			1880	-27.68	-13	-14.68
			1909.3	-27.83	-13	-14.83
		16QAM	1850.7	-27.54	-13	-14.54
			1880	-27.24	-13	-14.24
			1909.3	-28.10	-13	-15.10

LTE Band 4

Band	BW (MHz)	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
LTE4	20	QPSK	1720	-27.44	-13	-14.44
			1732.5	-27.89	-13	-14.89
			1745	-23.82	-13	-10.82
		16QAM	1720	-28.07	-13	-15.07
			1732.5	-27.46	-13	-14.46
			1745	-25.84	-13	-12.84
	15	QPSK	1717.5	-27.29	-13	-14.29
			1732.5	-27.63	-13	-14.63
			1747.5	-25.39	-13	-12.39
		16QAM	1717.5	-31.27	-13	-18.27
			1732.5	-27.58	-13	-14.58
			1747.5	-25.12	-13	-12.12
	10	QPSK	1715	-21.42	-13	-8.42
			1732.5	-20.86	-13	-7.86
			1750	-33.15	-13	-20.15
		16QAM	1715	-21.38	-13	-8.38
			1732.5	-21.74	-13	-8.74
			1750	-21.97	-13	-8.97
	5	QPSK	1712.5	-21.71	-13	-8.71
			1732.5	-21.32	-13	-8.32
			1752.5	-21.53	-13	-8.53
		16QAM	1712.5	-21.74	-13	-8.74
			1732.5	-21.34	-13	-8.34
			1752.5	-29.78	-13	-16.78

Band	BW (MHz)	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
LTE4	3	QPSK	1711.5	-30.78	-13	-17.78
			1732.5	-26.83	-13	-13.83
			1753.5	-27.62	-13	-14.62
		16QAM	1711.5	-25.78	-13	-12.78
			1732.5	-27.63	-13	-14.63
			1753.5	-27.78	-13	-14.78
	1.4	QPSK	1710.7	-27.51	-13	-14.51
			1732.5	-28.06	-13	-15.06
			1754.3	-27.90	-13	-14.90
		16QAM	1710.7	-27.78	-13	-14.78
			1732.5	-27.25	-13	-14.25
			1754.3	-27.44	-13	-14.44

LTE Band 5

Band	BW (MHz)	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
LTE5	10	QPSK	829	-21.14	-13	-8.14
			836.5	-21.40	-13	-8.40
			844	-20.36	-13	-7.36
		16QAM	829	-21.73	-13	-8.73
			836.5	-21.56	-13	-8.56
			844	-21.73	-13	-8.73
	5	QPSK	826.5	-20.33	-13	-7.33
			836.5	-22.11	-13	-9.11
			846.5	-21.44	-13	-8.44
		16QAM	826.5	-21.80	-13	-8.80
			836.5	-21.01	-13	-8.01
			846.5	-20.29	-13	-7.29
	3	QPSK	825.5	-21.83	-13	-8.83
			836.5	-21.59	-13	-8.59
			847.5	-21.31	-13	-8.31
		16QAM	825.5	-21.97	-13	-8.97
			836.5	-21.07	-13	-8.07
			847.5	-22.26	-13	-9.26
	1.4	QPSK	824.7	-21.63	-13	-8.63
			836.5	-21.44	-13	-8.44
			848.3	-21.60	-13	-8.60
		16QAM	824.7	-20.53	-13	-7.53
			836.5	-21.18	-13	-8.18
			848.3	-20.92	-13	-7.92

LTE Band 12

Band	BW (MHz)	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
LTE12	10	QPSK	704	-28.07	-13	-15.07
			707.5	-20.66	-13	-7.66
			711	-21.50	-13	-8.50
		16QAM	704	-28.01	-13	-15.01
			707.5	-22.05	-13	-9.05
			711	-21.78	-13	-8.78
	5	QPSK	701.5	-20.90	-13	-7.90
			707.5	-22.16	-13	-9.16
			713.5	-21.61	-13	-8.61
		16QAM	701.5	-21.21	-13	-8.21
			707.5	-21.45	-13	-8.45
			713.5	-27.39	-13	-14.39
	3	QPSK	700.5	-21.97	-13	-8.97
			707.5	-21.51	-13	-8.51
			714.5	-21.81	-13	-8.81
		16QAM	700.5	-21.99	-13	-8.99
			707.5	-21.01	-13	-8.01
			714.5	-21.59	-13	-8.59
	1.4	QPSK	699.7	-21.36	-13	-8.36
			707.5	-21.72	-13	-8.72
			715.3	-21.32	-13	-8.32
		16QAM	699.7	-21.81	-13	-8.81
			707.5	-21.30	-13	-8.30
			715.3	-21.68	-13	-8.68

LTE Band 25

Band	BW (MHz)	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
LTE25	20	QPSK	1860	-20.83	-13	-7.83
			1882.5	-21.37	-13	-8.37
			1905	-20.57	-13	-7.57
		16QAM	1860	-21.83	-13	-8.83
			1882.5	-21.30	-13	-8.30
			1905	-20.67	-13	-7.67
	15	QPSK	1857.5	-21.10	-13	-8.10
			1882.5	-21.11	-13	-8.11
			1907.5	-21.52	-13	-8.52
		16QAM	1857.5	-21.73	-13	-8.73
			1882.5	-21.99	-13	-8.99
			1907.5	-21.76	-13	-8.76
	10	QPSK	1855	-21.13	-13	-8.13
			1882.5	-19.50	-13	-6.50
			1910	-19.12	-13	-6.12
		16QAM	1855	-19.85	-13	-6.85
			1882.5	-20.91	-13	-7.91
			1910	-21.70	-13	-8.70
	5	QPSK	1852.5	-20.86	-13	-7.86
			1882.5	-20.56	-13	-7.56
			1912.5	-21.20	-13	-8.20
		16QAM	1852.5	-21.70	-13	-8.70
			1882.5	-21.59	-13	-8.59
			1912.5	-21.20	-13	-8.20

Band	BW (MHz)	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
LTE25	3	QPSK	1851.5	-21.74	-13	-8.74
			1882.5	-21.62	-13	-8.62
			1913.5	-21.81	-13	-8.81
		16QAM	1851.5	-21.77	-13	-8.77
			1882.5	-20.97	-13	-7.97
			1913.5	-21.81	-13	-8.81
	1.4	QPSK	1850.7	-21.00	-13	-8.00
			1882.5	-21.48	-13	-8.48
			1914.3	-21.38	-13	-8.38
		16QAM	1850.7	-21.68	-13	-8.68
			1882.5	-21.05	-13	-8.05
			1914.3	-21.66	-13	-8.66

LTE Band 26

Band	BW (MHz)	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
LTE26	15	QPSK	821.5	-27.60	-13	-14.60
			831.5	-27.11	-13	-14.11
			841.5	-27.25	-13	-14.25
		16QAM	821.5	-27.86	-13	-14.86
			831.5	-27.75	-13	-14.75
			841.5	-27.84	-13	-14.84
	10	QPSK	819	-20.91	-13	-7.91
			831.5	-21.63	-13	-8.63
			844	-21.84	-13	-8.84
		16QAM	819	-20.91	-13	-7.91
			831.5	-20.76	-13	-7.76
			844	-21.84	-13	-8.84
	5	QPSK	816.5	-21.25	-13	-8.25
			831.5	-21.66	-13	-8.66
			846.5	-21.44	-13	-8.44
		16QAM	816.5	-21.10	-13	-8.10
			831.5	-21.22	-13	-8.22
			846.5	-21.66	-13	-8.66
	3	QPSK	815.5	-21.69	-13	-8.69
			831.5	-21.45	-13	-8.45
			847.5	-21.74	-13	-8.74
		16QAM	815.5	-21.47	-13	-8.47
			831.5	-21.95	-13	-8.95
			847.5	-21.56	-13	-8.56
	1.4	QPSK	814.7	-21.01	-13	-8.01
			831.5	-20.34	-13	-7.34
			848.3	-21.69	-13	-8.69
16QAM		814.7	-20.94	-13	-7.94	
		831.5	-21.57	-13	-8.57	
		848.3	-21.26	-13	-8.26	

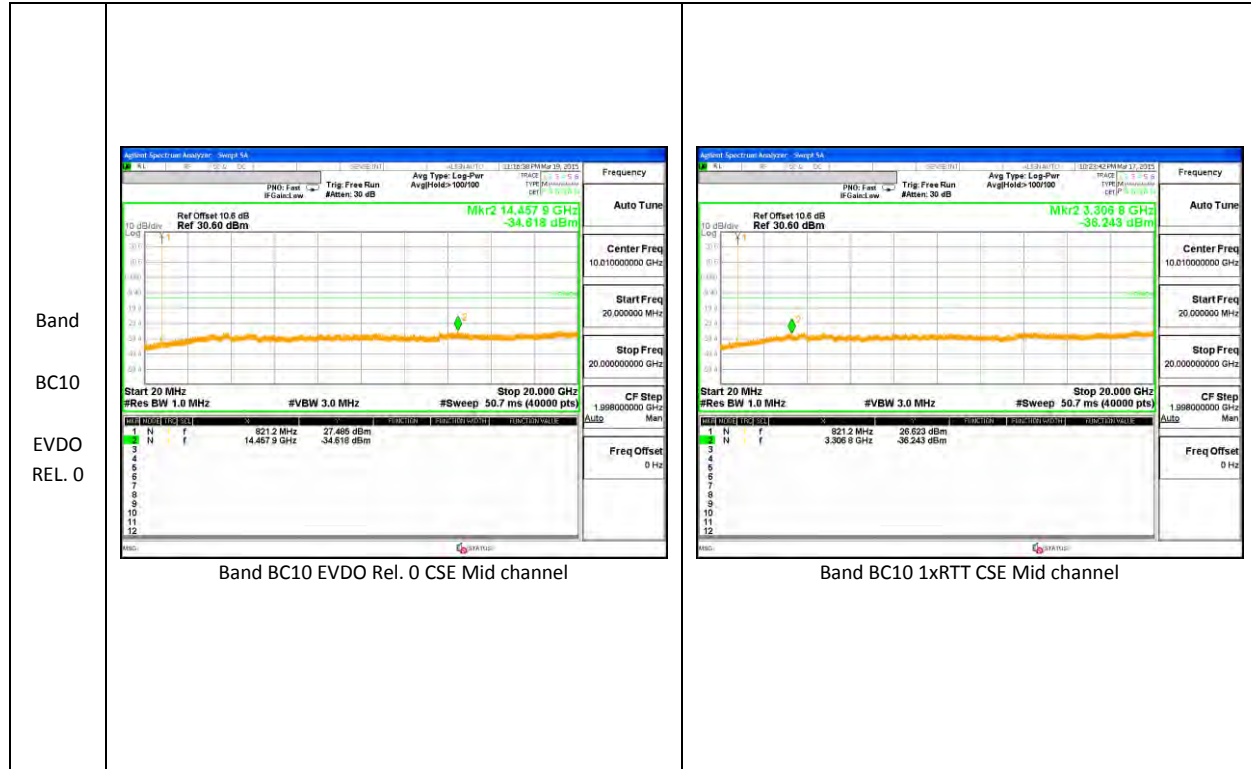
LTE Band 41

Band	BW (MHz)	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
LTE41	20	QPSK	2506	-27.14	-25	-2.14
			2593	-26.94	-25	-1.94
			2680	-26.81	-25	-1.81
		16QAM	2506	-27.21	-25	-2.21
			2593	-27.65	-25	-2.65
			2680	-27.39	-25	-2.39
	15	QPSK	2503.5	-27.32	-25	-2.32
			2593	-27.31	-25	-2.31
			2682.5	-27.01	-25	-2.01
		16QAM	2503.5	-27.20	-25	-2.20
			2593	-27.15	-25	-2.15
			2682.5	-27.27	-25	-2.27
	10	QPSK	2501	-27.71	-25	-2.71
			2593	-27.74	-25	-2.74
			2685	-27.94	-25	-2.94
		16QAM	2501	-27.50	-25	-2.50
			2593	-26.14	-25	-1.14
			2685	-26.46	-25	-1.46
	5	QPSK	2498.5	-26.87	-25	-1.87
			2593	-27.40	-25	-2.40
			2687.5	-26.86	-25	-1.86
		16QAM	2498.5	-27.62	-25	-2.62
			2593	-27.22	-25	-2.22
			2687.5	-26.96	-25	-1.96


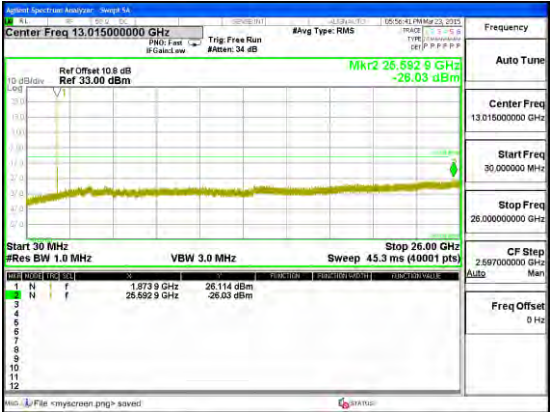
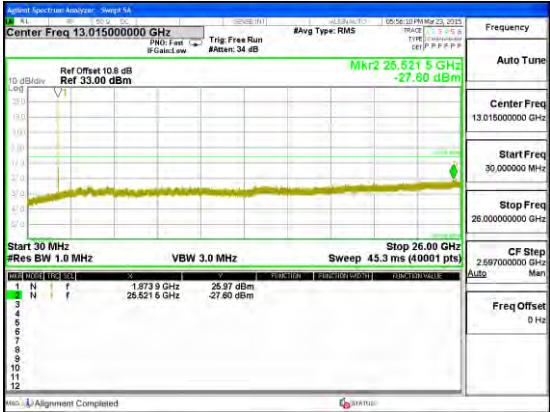
11.3.2. OUT OF BAND EMISSIONS PLOTS

CDMA





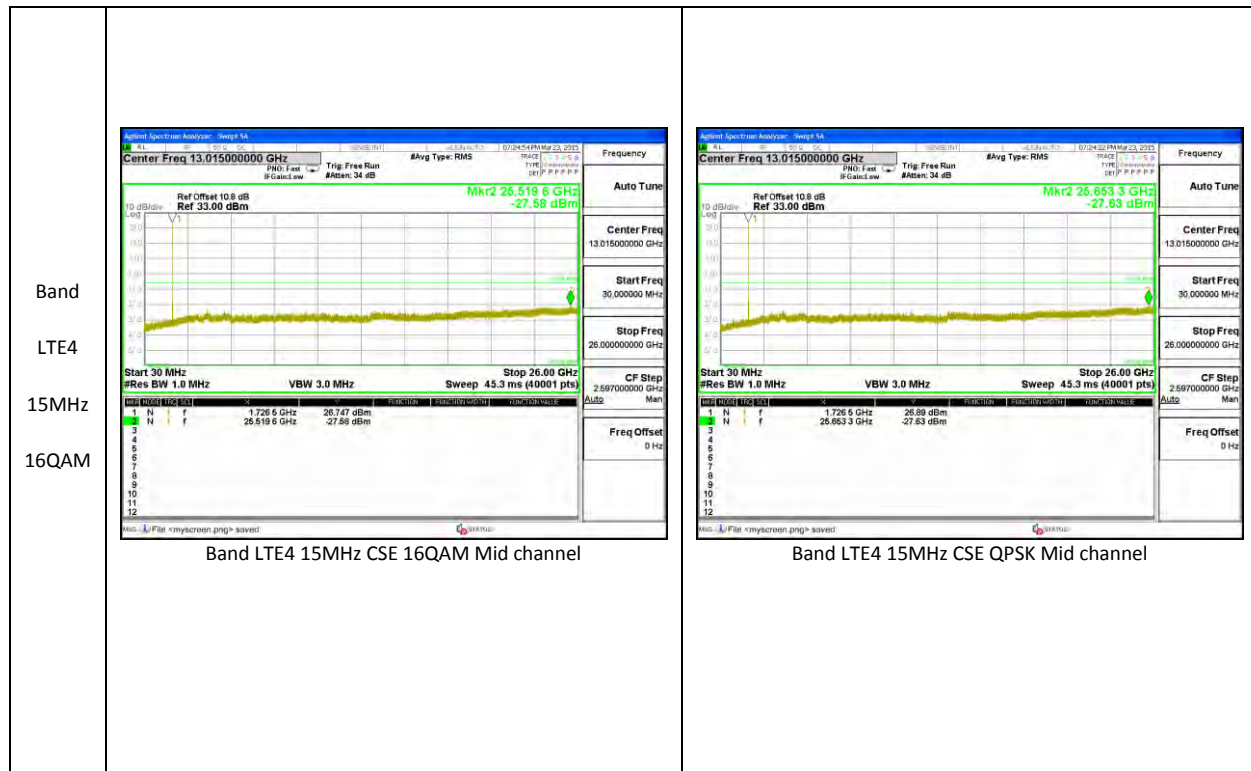
LTE Band 2

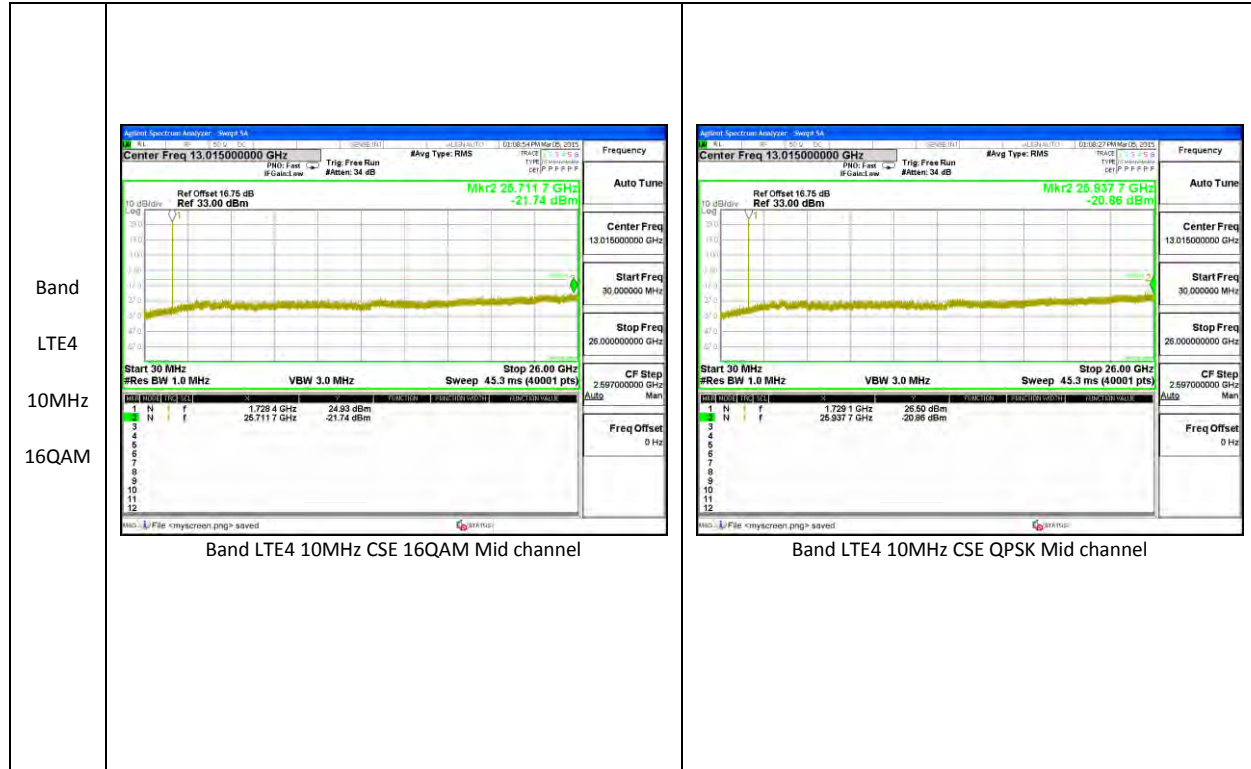
<p>Band LTE2 20MHz 16QAM</p>	 <p>Band LTE2 20MHz CSE 16QAM Mid channel</p>	 <p>Band LTE2 20MHz CSE QPSK Mid channel</p>
<p>Band LTE2 15MHz 16QAM</p>	 <p>Band LTE2 15MHz CSE 16QAM Mid channel</p>	 <p>Band LTE2 15MHz CSE QPSK Mid channel</p>

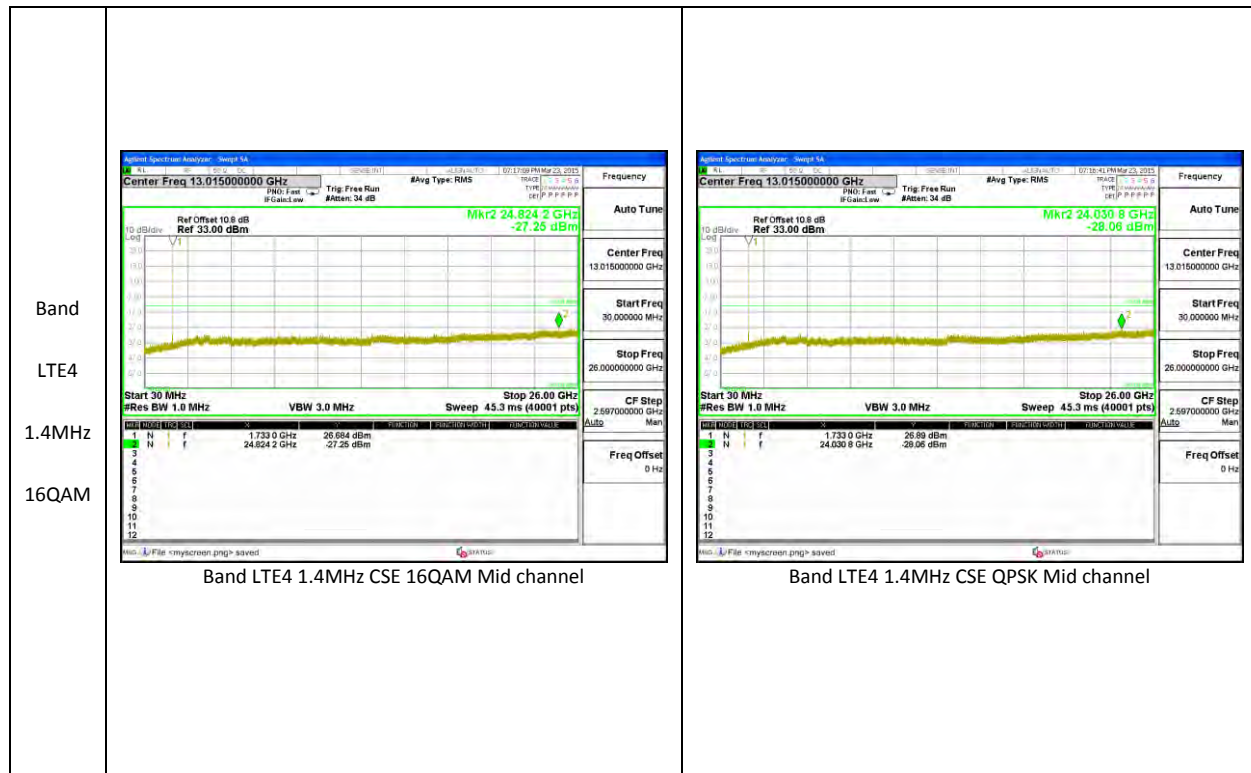
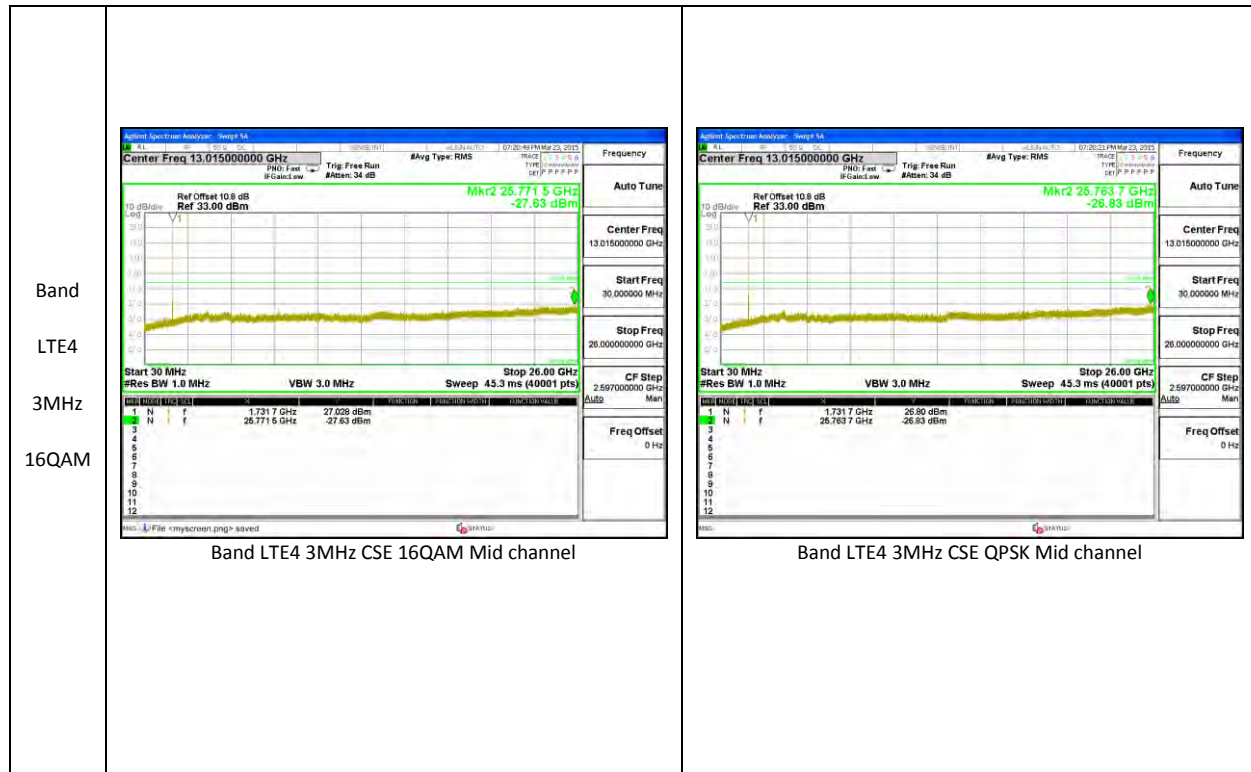


<p>Band LTE2 3MHz 16QAM</p>	<p>Center Freq 13.01500000 GHz Start Freq 30.000000 MHz Stop Freq 26.00000000 GHz Res BW 1.0 MHz VBW 3.0 MHz Sweep 45.3 ms (40001 pts)</p> <p>Mkr2 25.604 GHz -27.27 dBm</p>	<p>Center Freq 13.01500000 GHz Start Freq 30.000000 MHz Stop Freq 26.00000000 GHz Res BW 1.0 MHz VBW 3.0 MHz Sweep 45.3 ms (40001 pts)</p> <p>Mkr2 25.260 GHz -27.81 dBm</p>
<p>Band LTE2 1.4MHz 16QAM</p>	<p>Center Freq 13.01500000 GHz Start Freq 30.000000 MHz Stop Freq 26.00000000 GHz Res BW 1.0 MHz VBW 3.0 MHz Sweep 45.3 ms (40001 pts)</p> <p>Mkr2 26.659 GHz -27.23 dBm</p>	<p>Center Freq 13.01500000 GHz Start Freq 30.000000 MHz Stop Freq 26.00000000 GHz Res BW 1.0 MHz VBW 3.0 MHz Sweep 45.3 ms (40001 pts)</p> <p>Mkr2 26.659 GHz -27.88 dBm</p>

LTE Band 4

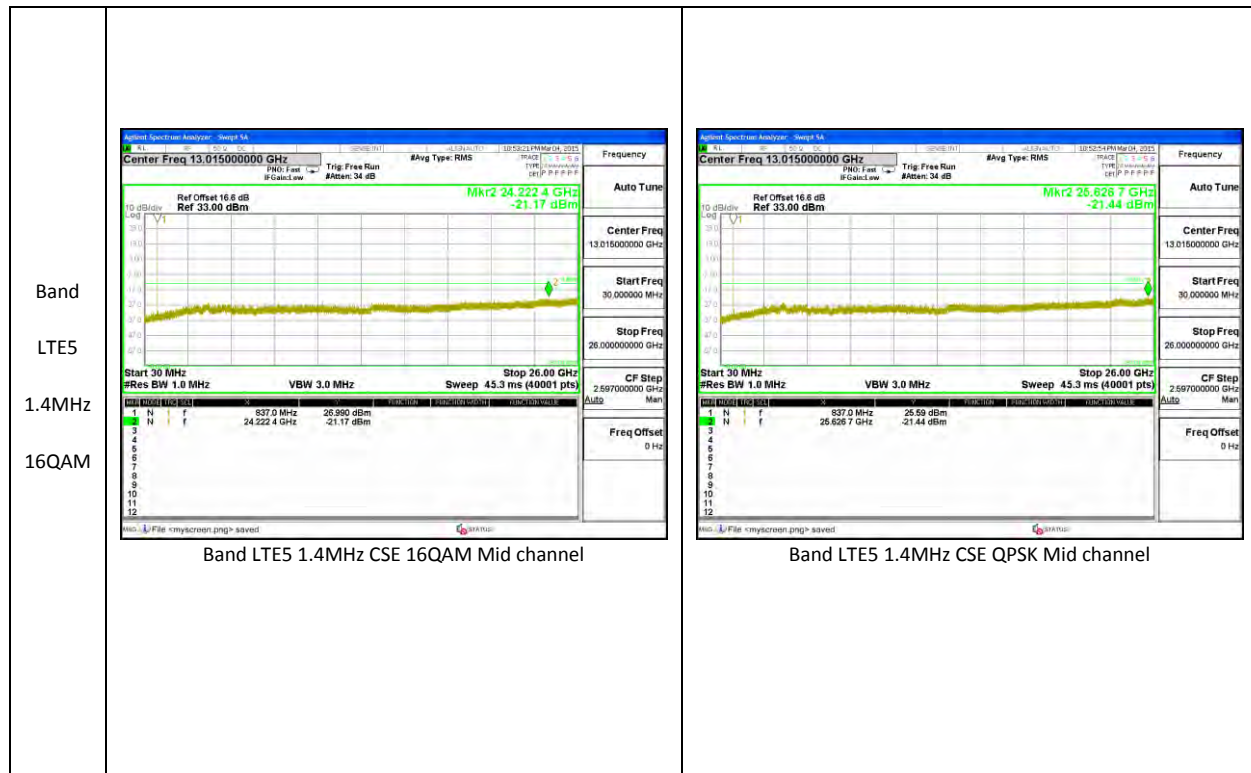
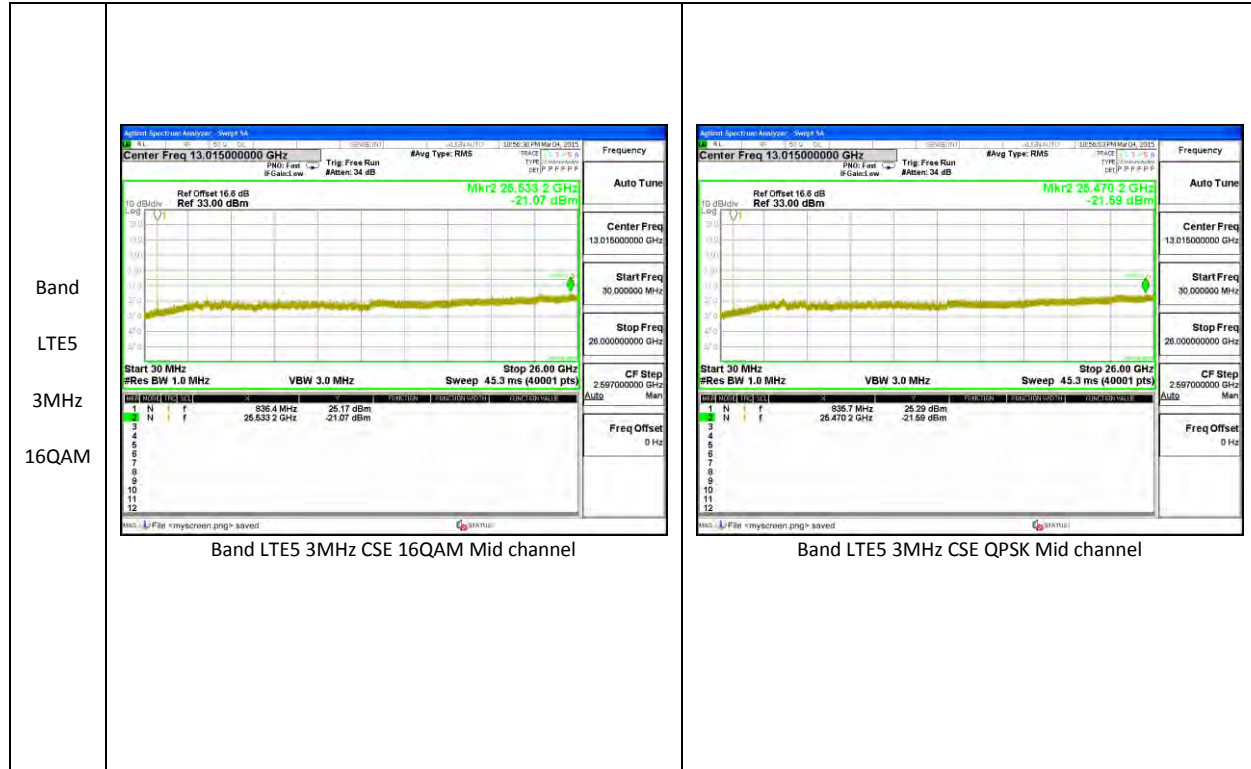




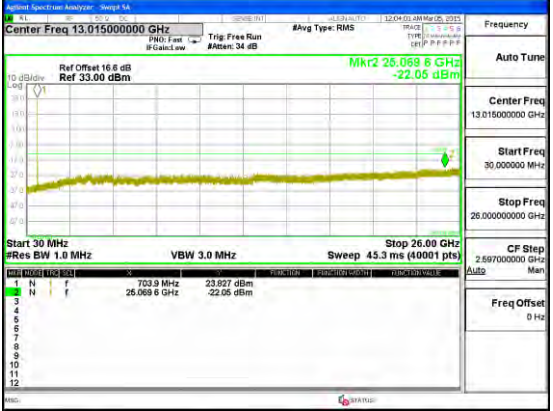
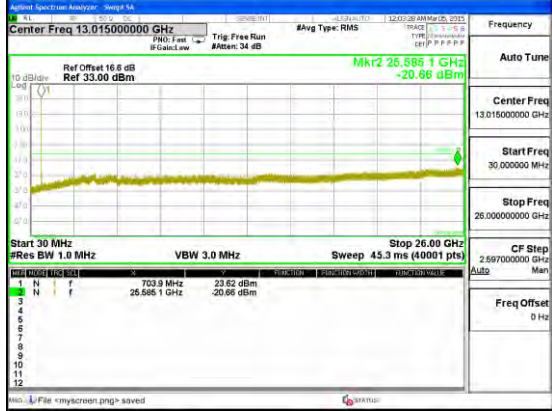
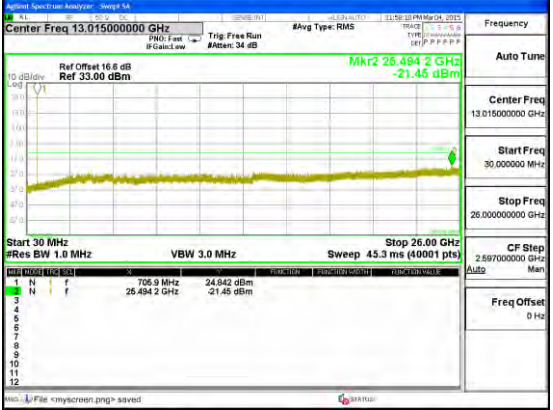


LTE Band 5



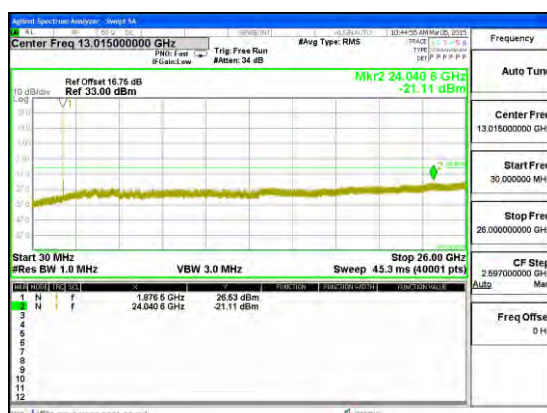


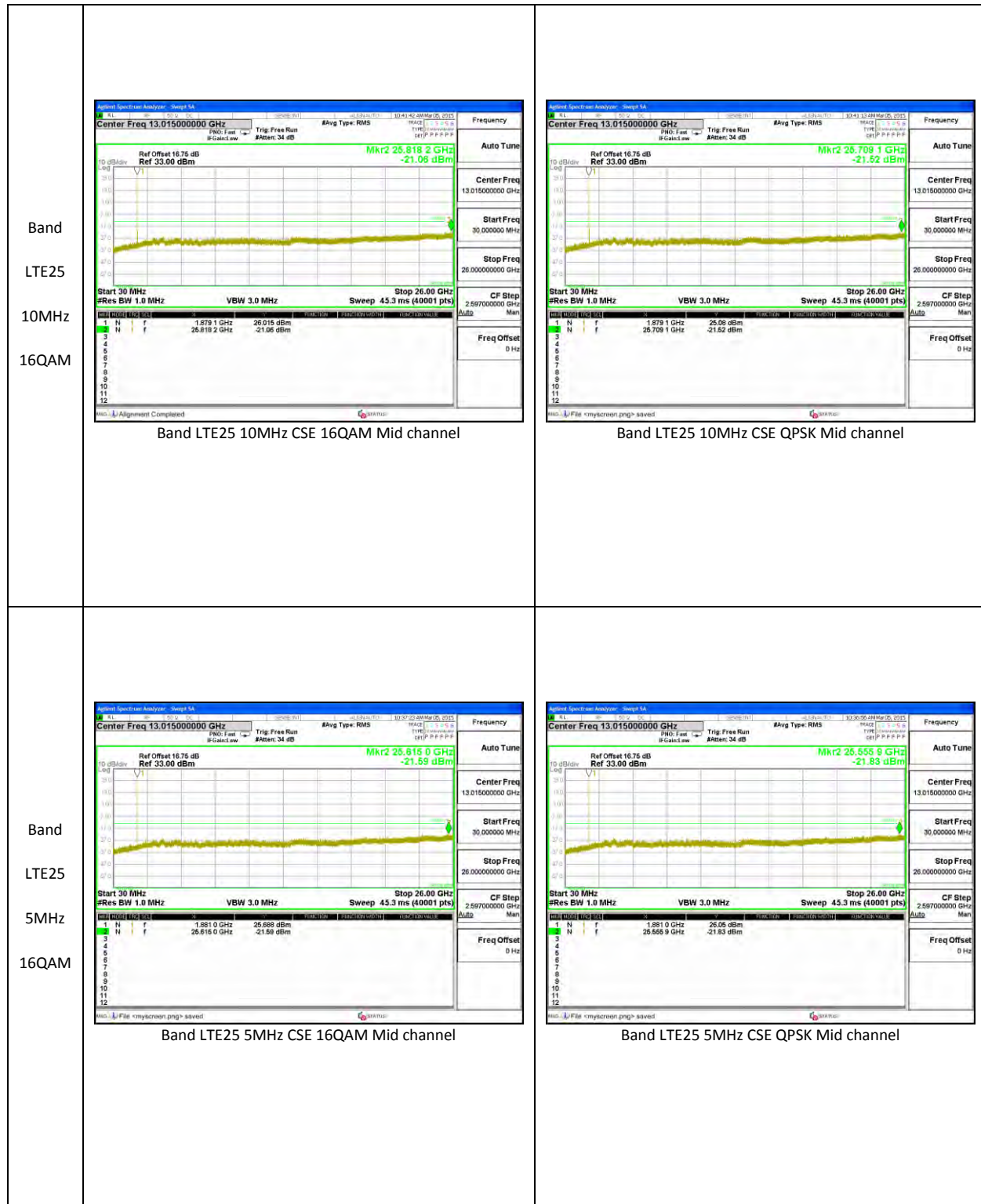
LTE Band 12

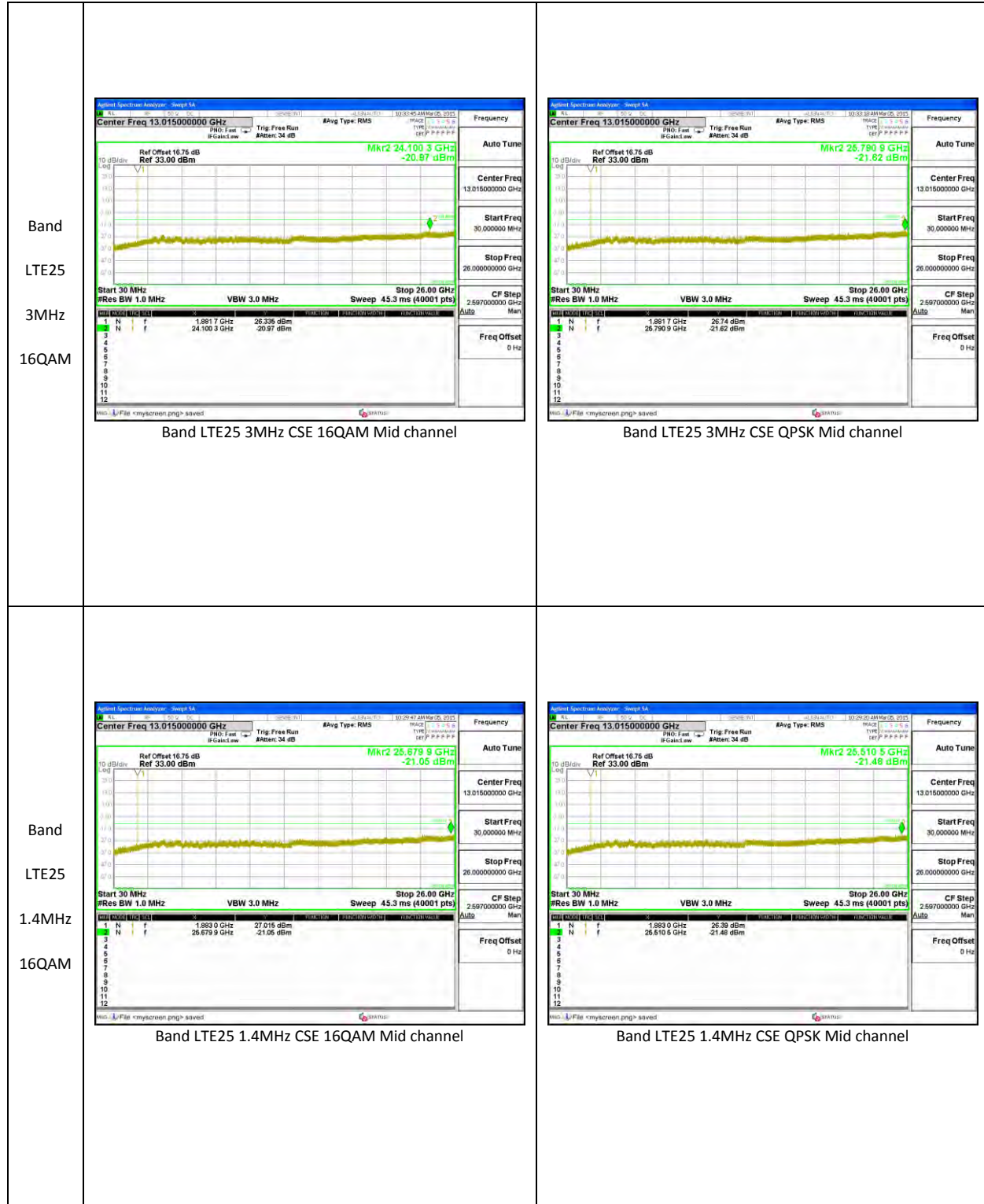
<p>Band LTE12 10MHz 16QAM</p>	 <p>Band LTE12 10MHz CSE 16QAM Mid channel</p>	 <p>Band LTE12 10MHz CSE QPSK Mid channel</p>
<p>Band LTE12 5MHz 16QAM</p>	 <p>Band LTE12 5MHz CSE 16QAM Mid channel</p>	 <p>Band LTE12 5MHz CSE QPSK Mid channel</p>



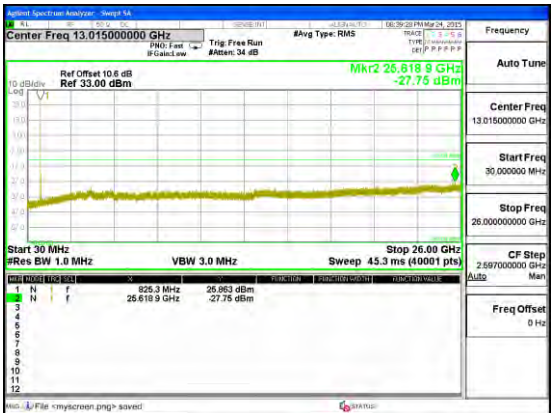
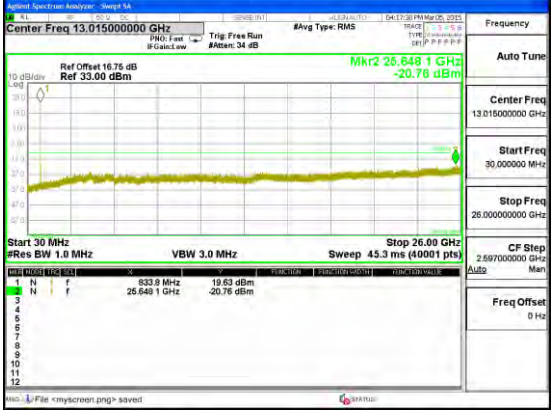
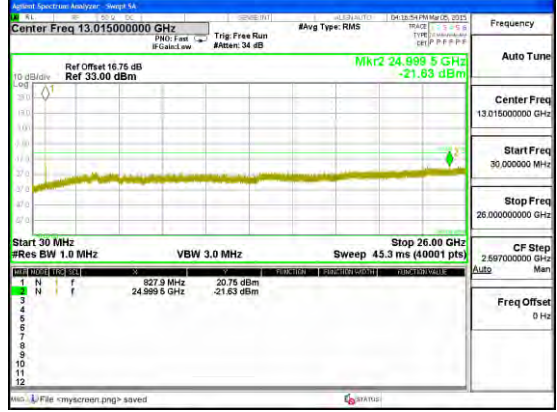
LTE Band 25

<p>Band LTE25 20MHz 16QAM</p>	 <p>Band LTE25 20MHz CSE 16QAM Mid channel</p>	 <p>Band LTE25 20MHz CSE QPSK Mid channel</p>
<p>Band LTE25 15MHz 16QAM</p>	 <p>Band LTE25 15MHz CSE 16QAM Mid channel</p>	 <p>Band LTE25 15MHz CSE QPSK Mid channel</p>





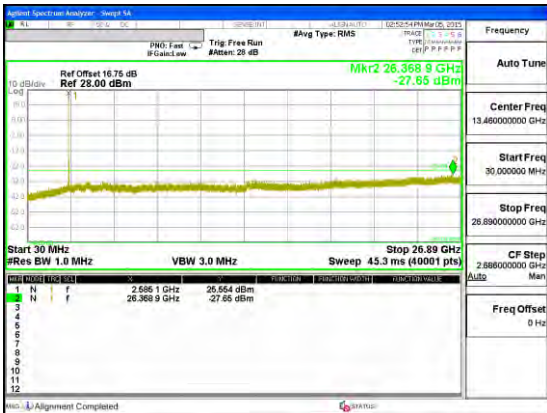

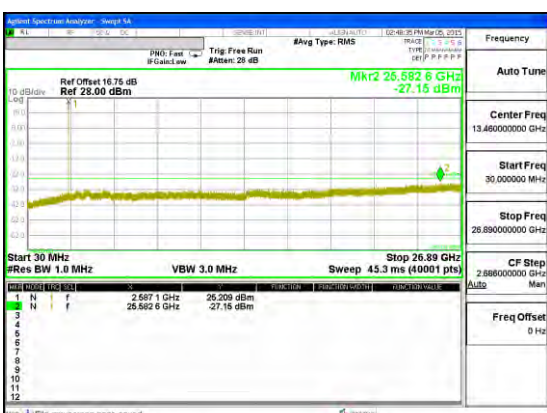
LTE Band 26

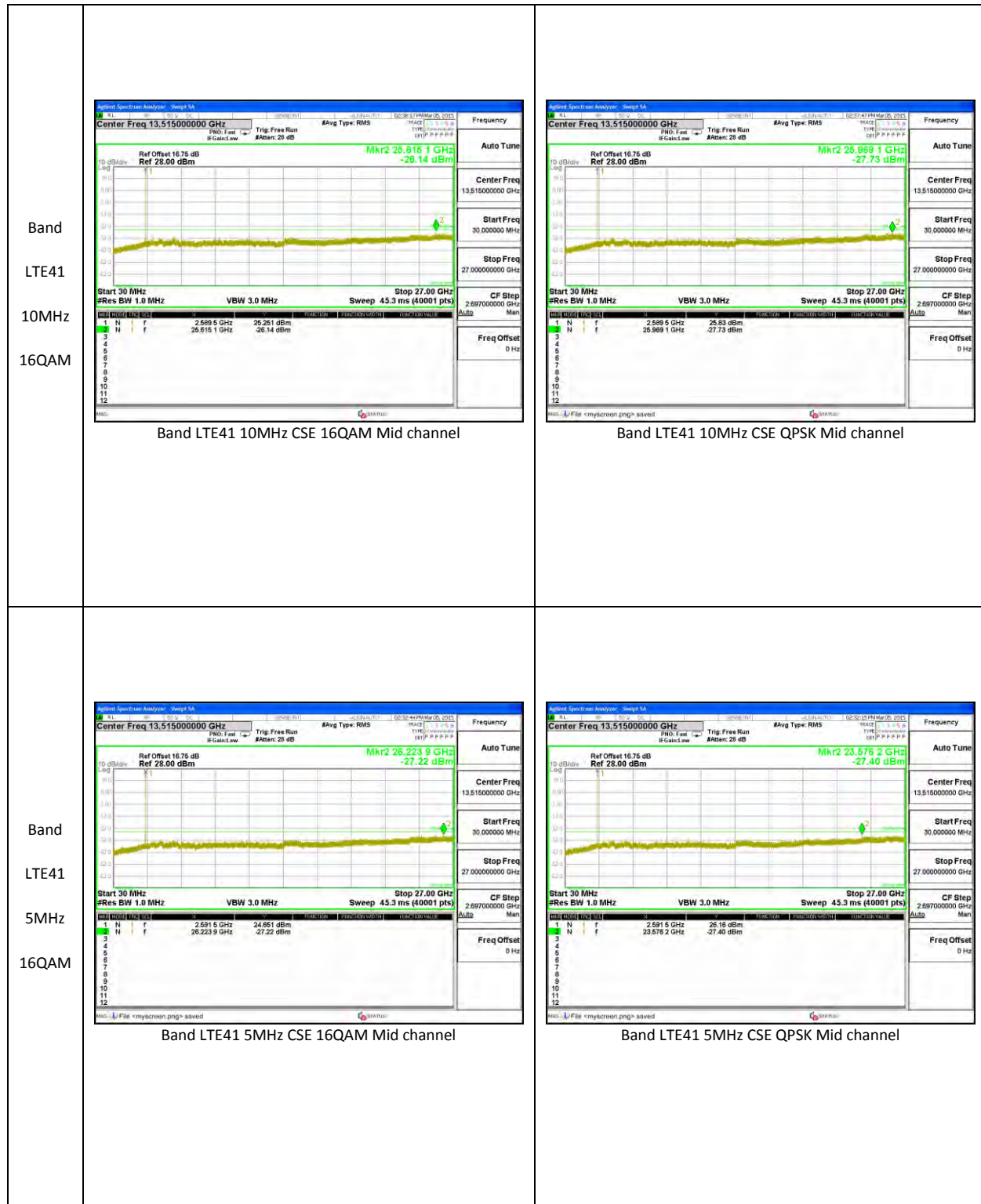
<p>Band LTE26 15MHz 16QAM</p>	 <p>Band LTE26 15MHz CSE 16QAM Mid channel</p>	 <p>Band LTE26 15MHz CSE QPSK Mid channel</p>
<p>Band LTE26 10MHz 16QAM</p>	 <p>Band LTE26 10MHz CSE 16QAM Mid channel</p>	 <p>Band LTE26 10MHz CSE QPSK Mid channel</p>





LTE Band 41

<p>Band LTE41 20MHz 16QAM</p>	 <p>Band LTE41 20MHz CSE 16QAM Mid channel</p>	 <p>Band LTE41 20MHz CSE QPSK Mid channel</p>
<p>Band LTE41 15MHz 16QAM</p>	 <p>Band LTE41 15MHz CSE 16QAM Mid channel</p>	 <p>Band LTE41 15MHz CSE QPSK Mid channel</p>



11.4. FREQUENCY STABILITY

RULE PART(S)

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

LIMITS

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

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

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

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

TEST PROCEDURE

Per KDB 971168 D01 Power Meas License Digital Systems v02r02

MODES TESTED

LTE

RESULTS

See the following pages.

11.4.1. 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	1880.000007	0.003	2.5
3.80	40	1879.999992	0.012	2.5
3.80	30	1879.999989	0.013	2.5
3.80	20	1880.000013	0	2.5
3.80	10	1879.999993	0.011	2.5
3.80	0	1879.999992	0.012	2.5
3.80	-10	1879.999993	0.011	2.5
3.80	-20	1879.999993	0.011	2.5
3.80	-30	1879.999991	0.012	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	1880.000013	0	2.5
3.23	20	1880.000000	0.007	2.5
4.37	20	1879.999992	0.011	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	1732.499994	-0.008	2.5
3.80	40	1732.499980	0.000	2.5
3.80	30	1732.499992	-0.007	2.5
3.80	20	1732.499980	0	2.5
3.80	10	1732.499973	0.004	2.5
3.80	0	1732.499996	-0.009	2.5
3.80	-10	1732.499991	-0.006	2.5
3.80	-20	1732.499973	0.004	2.5
3.80	-30	1732.499989	-0.005	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	1732.499980	0	2.5
3.23	20	1732.499981	-0.001	2.5
4.37	20	1732.499985	-0.003	2.5

LTE BAND 5 – MID CHANNEL (836.5 MHz)

Reference Frequency: Cellular Mid Channel 836.500007MHz @ 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	836.499989	0.007	2.5
3.80	40	836.499997	-0.002	2.5
3.80	30	836.499994	0.001	2.5
3.80	20	836.499995	0	2.5
3.80	10	836.499996	-0.001	2.5
3.80	0	836.499997	-0.002	2.5
3.80	-10	836.499996	-0.001	2.5
3.80	-20	836.499995	0.000	2.5
3.80	-30	836.499996	-0.002	2.5
Reference Frequency: Cellular Mid Channel 836.500007MHz @ 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	836.499995	0	2.5
3.23	20	836.499997	-0.003	2.5
4.37	20	836.499994	0.001	2.5

LTE BAND 12 – MID CHANNEL (707.5 MHz)

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	707.499996	-0.002	2.5
3.80	40	707.499996	-0.001	2.5
3.80	30	707.499990	0.007	2.5
3.80	20	707.499995	0	2.5
3.80	10	707.499992	0.004	2.5
3.80	0	707.499996	-0.001	2.5
3.80	-10	707.499993	0.003	2.5
3.80	-20	707.499996	-0.002	2.5
3.80	-30	707.499993	0.002	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	707.499995	0	2.5
3.23	20	707.499993	0.002	2.5
4.37	20	707.499997	-0.003	2.5

LTE BAND 41 Channel MID CHANNEL (2593 MHz)

Reference Frequency: LTE41 Channel 40620 Freq : 2593 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	50	2593.000031	-0.002	2.5
3.80	40	2593.000032	-0.002	2.5
3.80	30	2593.000021	0.002	2.5
3.80	20	2593.000026	0	2.5
3.80	10	2593.000032	-0.002	2.5
3.80	0	2593.000018	0.003	2.5
3.80	-10	2593.000021	0.002	2.5
3.80	-20	2593.000023	0.001	2.5
3.80	-30	2592.999862	0.063	2.5
Reference Frequency: LTE41 Channel 40620 Freq : 2593 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	2593.000026	0	2.5
3.30	20	2592.999913	0.044	2.5
4.20	20	2593.000017	0.004	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 & LB12)

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 \geq 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
BC10	1xRTT	476	817.9	23.68	233.35
		580	820.5	23.49	223.36
		684	823.1	23.38	217.77
	EVDO REL. 0	476	817.9	23.58	228.03
		580	820.5	23.39	218.27
		684	823.1	23.18	207.97

Band	Mode	Channel	f(MHz)	ERP / EIRP	
				dBm	mW
BC0	1xRTT	1013	824.7	23.44	220.80
		384	836.52	22.89	194.54
		777	848.31	22.32	170.61
	EVDO REL. 0	1013	824.7	23.38	217.77
		384	836.52	22.76	188.80
		777	848.31	22.12	162.93

Band	Mode	Channel	f(MHz)	ERP / EIRP	
				dBm	mW
BC1	1xRTT	25	1851.25	26.65	462.38
		600	1880	26.67	464.52
		1175	1908.75	27.15	518.80
	EVDO REL. 0	25	1851.25	26.05	402.72
		600	1880	26.55	451.86
		1175	1908.75	27.42	552.08

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	23.09	203.7
			1/0	1880	24.44	277.97
			1/0	1900	24.02	252.35
		16QAM	1/0	1860	22.00	158.49
			1/0	1880	23.63	230.67
			1/0	1900	23.17	207.49
	15	QPSK	1/0	1857.5	23.11	204.64
			1/0	1880	24.36	272.9
			1/0	1902.5	24.28	267.92
		16QAM	1/0	1857.5	21.98	157.76
			1/0	1880	23.64	231.21
			1/0	1902.5	23.58	228.03
	10	QPSK	1/0	1855	25.29	338.06
			1/0	1880	25.34	341.98
			1/0	1905	24.64	291.07
		16QAM	1/0	1855	24.41	276.06
			1/0	1880	24.37	273.53
			1/0	1905	23.91	246.04
	5	QPSK	1/0	1852.5	24.78	300.61
			1/0	1880	25.70	371.54
			1/0	1907.5	24.59	287.74
		16QAM	1/0	1852.5	24.00	251.19
			1/0	1880	24.38	274.16
			1/0	1907.5	23.44	220.8

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE2	3	QPSK	1/0	1851.5	24.90	309.03
			1/0	1880	25.29	338.06
			1/0	1908.5	24.19	262.42
		16QAM	1/0	1851.5	24.05	254.1
			1/0	1880	24.19	262.42
			1/0	1908.5	23.36	216.77
	1.4	QPSK	1/0	1850.7	24.81	302.69
			1/0	1880	25.98	396.28
			1/0	1909.3	23.86	243.22
		16QAM	1/0	1850.7	23.95	248.31
			1/0	1880	25.12	325.09
			1/0	1909.3	23.03	200.91

LTE Band 4

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE4	20	QPSK	1/0	1720	24.20	263.28
			1/0	1732.5	24.75	298.61
			1/0	1745	24.24	265.33
		16QAM	1/0	1720	23.38	217.98
			1/0	1732.5	23.85	242.72
			1/0	1745	23.32	214.68
	15	QPSK	1/0	1717.5	24.17	261.09
			1/0	1732.5	24.77	299.99
			1/0	1747.5	24.36	273.16
		16QAM	1/0	1717.5	23.34	215.67
			1/0	1732.5	23.89	244.97
			1/0	1747.5	23.33	215.49
	10	QPSK	1/0	1715	24.00	251.25
			1/0	1732.5	24.81	302.76
			1/0	1750	24.18	261.89
		16QAM	1/0	1715	23.37	217.32
			1/0	1732.5	23.83	241.6
			1/0	1750	23.35	216.33

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE4	5	QPSK	1/0	1712.5	24.01	252.01
			1/0	1732.5	24.66	292.49
			1/0	1752.5	24.21	263.5
		16QAM	1/0	1712.5	23.26	212.04
			1/0	1732.5	23.70	234.48
			1/0	1752.5	23.25	211.24
	3	QPSK	1/0	1711.5	24.05	253.98
			1/0	1732.5	24.87	306.98
			1/0	1753.5	24.28	268.18
		16QAM	1/0	1711.5	23.36	216.67
			1/0	1732.5	23.95	248.37
			1/0	1753.5	23.32	214.99
	1.4	QPSK	1/0	1710.7	24.06	254.74
			1/0	1732.5	24.73	297.24
			1/0	1754.3	24.26	266.76
		16QAM	1/0	1710.7	23.27	212.38
			1/0	1732.5	23.83	241.6
			1/0	1754.3	23.25	211.41

LTE Band 5

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE5	10	QPSK	1/0	829	22.25	167.8
			1/0	836.5	21.76	149.97
			1/0	844	21.52	141.91
		16QAM	1/0	829	21.08	128.17
			1/0	836.5	20.56	113.76
			1/0	844	20.42	110.15
	5	QPSK	1/0	826.5	22.20	165.96
			1/0	836.5	21.47	140.28
			1/0	846.5	21.06	127.64
		16QAM	1/0	826.5	20.98	125.26
			1/0	836.5	20.16	103.75
			1/0	846.5	19.84	96.38
	3	QPSK	1/0	825.5	22.28	168.97
			1/0	836.5	21.78	150.66
			1/0	847.5	21.22	132.43
		16QAM	1/0	825.5	21.08	128.17
			1/0	836.5	20.56	113.76
			1/0	847.5	20.32	107.65
	1.4	QPSK	1/0	824.7	22.18	165.12
			1/0	836.5	21.56	143.22
			1/0	848.3	21.32	135.52
		16QAM	1/0	824.7	21.08	128.17
			1/0	836.5	20.36	108.64
			1/0	848.3	20.22	105.2

LTE Band 12

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE12	10	QPSK	1/0	704	17.50	56.23
			1/0	707.5	18.06	63.97
			1/0	711	18.25	66.83
		16QAM	1/0	704	17.14	51.76
			1/0	707.5	17.72	59.16
			1/0	711	17.90	61.66
	5	QPSK	1/0	701.5	17.25	53.09
			1/0	707.5	17.56	57.02
			1/0	713.5	17.60	57.54
		16QAM	1/0	701.5	17.01	50.23
			1/0	707.5	17.32	53.95
			1/0	713.5	17.40	54.95
	3	QPSK	1/0	700.5	17.41	55.08
			1/0	707.5	17.82	60.53
			1/0	714.5	17.76	59.7
		16QAM	1/0	700.5	17.07	50.93
			1/0	707.5	17.52	56.49
			1/0	714.5	17.40	54.95
	1.4	QPSK	1/0	699.7	17.15	51.88
			1/0	707.5	17.49	56.1
			1/0	715.3	17.64	58.08
		16QAM	1/0	699.7	16.85	48.42
			1/0	707.5	17.22	52.72
			1/0	715.3	17.28	53.46

LTE Band 25

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE25	20	QPSK	1/0	1860	23.09	203.7
			1/0	1882.5	24.44	277.97
			1/0	1905	24.02	252.35
		16QAM	1/0	1860	22.00	158.49
			1/0	1882.5	23.63	230.67
			1/0	1905	23.17	207.49
	15	QPSK	1/0	1857.5	23.11	204.64
			1/0	1882.5	24.36	272.9
			1/0	1907.5	24.28	267.92
		16QAM	1/0	1857.5	21.98	157.76
			1/0	1882.5	23.64	231.21
			1/0	1907.5	23.58	228.03
	10	QPSK	1/0	1855	25.29	338.06
			1/0	1882.5	25.34	341.98
			1/0	1910	24.64	291.07
		16QAM	1/0	1855	24.41	276.06
			1/0	1882.5	24.37	273.53
			1/0	1910	23.91	246.04
	5	QPSK	1/0	1852.5	24.78	300.61
			1/0	1882.5	25.70	371.54
			1/0	1912.5	24.59	287.74
		16QAM	1/0	1852.5	24.00	251.19
			1/0	1882.5	24.38	274.16
			1/0	1912.5	23.44	220.8

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE25	3	QPSK	1/0	1851.5	24.90	309.03
			1/0	1882.5	25.29	338.06
			1/0	1913.5	24.19	262.42
		16QAM	1/0	1851.5	24.05	254.1
			1/0	1882.5	24.19	262.42
			1/0	1913.5	23.36	216.77
	1.4	QPSK	1/0	1850.7	24.81	302.69
			1/0	1882.5	25.98	396.28
			1/0	1914.3	23.86	243.22
		16QAM	1/0	1850.7	23.95	248.31
			1/0	1882.5	25.12	325.09
			1/0	1914.3	23.03	200.91

LTE Band 41

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE41	20	QPSK	1/0	2506	24.96	313.03
			1/0	2593	24.77	300.05
			1/0	2680	22.33	170.83
		16QAM	1/0	2506	23.84	241.87
			1/0	2593	23.97	249.57
			1/0	2680	21.63	145.4
	15	QPSK	1/0	2503.5	24.36	272.59
			1/0	2593	24.07	255.38
			1/0	2682.5	21.33	135.91
		16QAM	1/0	2503.5	23.66	232.01
			1/0	2593	23.27	212.42
			1/0	2682.5	22.13	163.4
	10	QPSK	1/0	2501	24.15	260.27
			1/0	2593	25.07	321.51
			1/0	2685	24.14	259.37
		16QAM	1/0	2501	23.35	216.49
			1/0	2593	24.47	280.02
			1/0	2685	23.44	220.76
	5	QPSK	1/0	2498.5	24.03	252.92
			1/0	2593	25.37	344.5
			1/0	2687.5	22.35	171.63
		16QAM	1/0	2498.5	23.70	234.41
			1/0	2593	24.97	314.19
			1/0	2687.5	21.55	142.76

12.1.3. ERP/EIRP PLOTS

CDMA

Band BC1	High Frequency Substitution Measurement UL Verification Services Chamber G									
	Company: LG Project #: 15I20232 Date: 3/23/2015 Test Engineer: R.Z Configuration: EUT Only Mode: CDMA EVDO BC1									
	Test Equipment: Receiving: Horn T862, and Chamber G SMA Cables Substitution: Horn T59 Substitution, 6ft SMA Cable									
	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	9.20	25.75	33.0	-7.3		
	1.8513	17.7	H	0.85	9.20	26.05	33.0	-7.0		
	Mid Ch									
	1.8800	17.6	V	0.85	9.20	25.97	33.0	-7.0		
	1.8800	18.2	H	0.85	9.20	26.55	33.0	-6.5		
High Ch										
1.9088	18.0	V	0.85	9.10	26.25	33.0	-6.8			
1.9088	19.2	H	0.85	9.10	27.42	33.0	-5.6			
Rev. 3.17.11										

Band BC1 1xRTT	High Frequency Substitution Measurement UL Verification Services Chamber G																																																																																																					
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LTE Band 2

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	Company: LG Project #: 15I20232 Date: 3/4/2015 Test Engineer: L. Lara Configuration: X-pos EUT Only (SN: 2067411) Location: Chamber C Mode: LTE_QPSK Band 2 Fundamentals, 1.4MHz Bandwidth								
	Test Equipment: Receiving: Horn T119, and Chamber C SMA Cables Substitution: Horn T59 Substitution, and 8ft SMA Cable								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch								
	1850.70	16.57	V	0.9	8.0	23.68	30.0	-6.3	
	1850.70	17.70	H	0.9	8.0	24.81	30.0	-5.2	
	Mid Ch								
	1880.00	17.32	V	0.9	8.0	24.43	30.0	-5.6	
	1880.00	18.87	H	0.9	8.0	25.98	30.0	-4.0	
High Ch									
1909.30	15.49	V	0.9	8.0	22.60	30.0	-7.4		
1909.30	16.75	H	0.9	8.0	23.86	30.0	-6.1		

LTE Band 4

Band LTE4 20MHz 16QAM	High Frequency Substitution Measurement UL Verification Services, Inc.																																																																																																	
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Band LTE5 1.4MHz QPSK	High Frequency Substitution Measurement UL Verification Services, Inc.																																																																																																	
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LTE Band 12

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Band LTE12 5MHz QPSK	High Frequency Substitution Measurement UL Verification Services, Inc.								
	Company: LG Project #: 15I20232 Date: 3/23/2015 Test Engineer: R.Z Configuration: EUT Only Location: Chamber G Mode: LTE_QPSK Band 12 Fundamentals, 5MHz Bandwidth								
	Test Equipment: Receiving: Hybrid T899, and Chamber G SMA Cables Substitution: Dipole T273, 6ft SMA Cable								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch								
	701.50	11.50	V	0.9	0.0	10.60	34.8	-24.2	
	701.50	18.15	H	0.9	0.0	17.25	34.8	-17.6	
	Mid Ch								
	707.50	10.72	V	0.9	0.0	9.82	34.8	-25.0	
	707.50	18.46	H	0.9	0.0	17.56	34.8	-17.2	
High Ch									
713.50	10.34	V	0.9	0.0	9.44	34.8	-25.4		
713.50	18.50	H	0.9	0.0	17.60	34.8	-17.2		

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LTE Band 25

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LTE Band 26

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	Company: LG Electronics Project #: 15I20232 Date: 3/23/2015 Test Engineer: R.Z Configuration: EUT Only Location: Chamber G Mode: LTE_QPSK Band 26 Fundamentals, 3MHz Bandwidth								
	Test Equipment: Receiving: Hybrid T899, and Chamber G SMA Cables Substitution: Dipole T273, 3ft SMA Cable Warehouse								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch								
	815.50	15.59	V	0.9	0.0	14.69	38.5	-23.8	
	815.50	23.18	H	0.9	0.0	22.28	38.5	-16.2	
	Mid Ch								
	831.50	15.01	V	0.9	0.0	14.11	38.5	-24.4	
	831.50	22.68	H	0.9	0.0	21.78	38.5	-16.7	
High Ch									
847.50	13.54	V	0.9	0.0	12.64	38.5	-25.9		
847.50	22.12	H	0.9	0.0	21.22	38.5	-17.3		

Band LTE26 1.4MHz 16QAM	High Frequency Substitution Measurement UL Verification Services, Inc.																																																																																																	
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LTE Band 41

Band LTE41 20MHz 16QAM	High Frequency Substitution Measurement UL Verification Services, Inc.																																																																																																	
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	Test Engineer:		R.Z																																																																																															
	Configuration:		EUT Only																																																																																															
	Location:		Chamber G																																																																																															
	Mode:		LTE_QPSK Band 41 Fundamentals, 5MHz Bandwidth																																																																																															
	Test Equipment:		Receiving: Horn T862, and Chamber G SMA Cables Substitution: Horn T59, 6ft SMA Cable																																																																																															
	<table border="1"> <thead> <tr> <th>f MHz</th> <th>SG reading (dBm)</th> <th>Ant. Pol. (H/V)</th> <th>Cable Loss (dB)</th> <th>Antenna Gain (dBi)</th> <th>EIRP (dBm)</th> <th>Limit (dBm)</th> <th>Delta (dB)</th> <th>Notes</th> </tr> </thead> <tbody> <tr> <td colspan="9">Low Ch</td> </tr> <tr> <td>2498.50</td> <td>10.60</td> <td>V</td> <td>0.9</td> <td>9.5</td> <td>19.17</td> <td>33.0</td> <td>-13.8</td> <td></td> </tr> <tr> <td>2498.50</td> <td>15.46</td> <td>H</td> <td>0.9</td> <td>9.5</td> <td>24.03</td> <td>33.0</td> <td>-9.0</td> <td></td> </tr> <tr> <td colspan="9">Mid Ch</td> </tr> <tr> <td>2593.00</td> <td>12.25</td> <td>V</td> <td>0.9</td> <td>9.5</td> <td>20.86</td> <td>33.0</td> <td>-12.1</td> <td></td> </tr> <tr> <td>2593.00</td> <td>16.77</td> <td>H</td> <td>0.9</td> <td>9.5</td> <td>25.37</td> <td>33.0</td> <td>-7.6</td> <td></td> </tr> <tr> <td colspan="9">High Ch</td> </tr> <tr> <td>2687.50</td> <td>10.10</td> <td>V</td> <td>0.9</td> <td>9.7</td> <td>18.95</td> <td>33.0</td> <td>-14.1</td> <td></td> </tr> <tr> <td>2687.50</td> <td>13.50</td> <td>H</td> <td>0.9</td> <td>9.7</td> <td>22.35</td> <td>33.0</td> <td>-10.7</td> <td></td> </tr> </tbody> </table>									f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	Low Ch									2498.50	10.60	V	0.9	9.5	19.17	33.0	-13.8		2498.50	15.46	H	0.9	9.5	24.03	33.0	-9.0		Mid Ch									2593.00	12.25	V	0.9	9.5	20.86	33.0	-12.1		2593.00	16.77	H	0.9	9.5	25.37	33.0	-7.6		High Ch									2687.50	10.10	V	0.9	9.7	18.95	33.0	-14.1		2687.50	13.50	H	0.9	9.7	22.35	33.0	-10.7
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes																																																																																										
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12.2. FIELD STRENGTH OF SPURIOUS RADIATION

RULE PART(S)

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

LIMIT

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

Part 27: (m)(4) 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

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

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

MODES TESTED

CDMA and LTE

RESULTS

12.2.1. SPURIOUS RADIATION PLOTS

CDMA

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20232							
Date:		3/25/2015							
Test Engineer:		R.Z							
Configuration:		EUT , AC Adapter, Headset							
Location:		Chamber G							
Mode:		CDMA EVDO BC10 Harmonics							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Pream p (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 817.9MHz									
1.636	-15.6	V	3.0	37.4	1.0	-52.0	-13.0	-39.0	
2.454	-24.4	V	3.0	36.4	1.0	-59.8	-13.0	-46.8	
3.272	-20.5	V	3.0	35.8	1.0	-55.3	-13.0	-42.3	
1.636	-13.0	H	3.0	37.4	1.0	-49.4	-13.0	-36.4	
2.454	-24.0	H	3.0	36.4	1.0	-59.4	-13.0	-46.4	
3.272	-19.3	H	3.0	35.8	1.0	-54.1	-13.0	-41.1	
Mid Ch, 820.5MHz									
1.641	-16.4	V	3.0	37.3	1.0	-52.7	-13.0	-39.7	
2.462	-24.6	V	3.0	36.4	1.0	-60.0	-13.0	-47.0	
3.282	-21.7	V	3.0	35.8	1.0	-56.5	-13.0	-43.5	
1.641	-13.7	H	3.0	37.3	1.0	-50.0	-13.0	-37.0	
2.462	-22.4	H	3.0	36.4	1.0	-57.8	-13.0	-44.8	
3.282	-20.5	H	3.0	35.8	1.0	-55.3	-13.0	-42.3	
High Ch, 823.1MHz									
1.646	-16.2	V	3.0	37.3	1.0	-52.5	-13.0	-39.5	
2.469	-24.4	V	3.0	36.3	1.0	-59.7	-13.0	-46.7	
3.292	-20.4	V	3.0	35.7	1.0	-55.1	-13.0	-42.1	
1.646	-16.4	H	3.0	37.3	1.0	-52.7	-13.0	-39.7	
2.469	-22.9	H	3.0	36.3	1.0	-58.2	-13.0	-45.2	
3.292	-20.3	H	3.0	35.7	1.0	-55.0	-13.0	-42.0	

Band
BC10

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20232							
Date:		3/25/2015							
Test Engineer:		R.Z							
Configuration:		EUT , AC Adapter, Headset							
Location:		Chamber G							
Mode:		CDMA 1xRTT BC10 Harmonics							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band									
BC10									
1xRTT									
Low Ch, 817.9MHz									
1.636	-16.5	V	3.0	37.4	1.0	-52.9	-13.0	-39.9	
2.454	-23.7	V	3.0	36.4	1.0	-59.1	-13.0	-46.1	
3.272	-20.7	V	3.0	35.8	1.0	-55.5	-13.0	-42.5	
1.636	-13.2	H	3.0	37.4	1.0	-49.6	-13.0	-36.6	
2.454	-24.3	H	3.0	36.4	1.0	-59.7	-13.0	-46.7	
3.272	-19.4	H	3.0	35.8	1.0	-54.2	-13.0	-41.2	
Mid Ch, 820.5MHz									
1.641	-17.5	V	3.0	37.3	1.0	-53.8	-13.0	-40.8	
2.462	-25.1	V	3.0	36.4	1.0	-60.5	-13.0	-47.5	
3.282	-22.1	V	3.0	35.8	1.0	-56.9	-13.0	-43.9	
1.641	-14.5	H	3.0	37.3	1.0	-50.8	-13.0	-37.8	
2.462	-22.7	H	3.0	36.4	1.0	-58.1	-13.0	-45.1	
3.282	-20.8	H	3.0	35.8	1.0	-55.6	-13.0	-42.6	
High Ch, 823.1MHz									
1.646	-16.8	V	3.0	37.3	1.0	-53.1	-13.0	-40.1	
2.469	-24.8	V	3.0	36.3	1.0	-60.1	-13.0	-47.1	
3.292	-20.7	V	3.0	35.7	1.0	-55.4	-13.0	-42.4	
1.646	-16.1	H	3.0	37.3	1.0	-52.4	-13.0	-39.4	
2.469	-23.0	H	3.0	36.3	1.0	-58.3	-13.0	-45.3	
3.292	-20.8	H	3.0	35.7	1.0	-55.5	-13.0	-42.5	

UL Verification Services, Inc.									
Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20232							
Date:		3/25/2015							
Test Engineer:		R.Z							
Configuration:		EUT , AC Adapter, Headset							
Location:		Chamber G							
Mode:		CDMA EVDO BC0 Harmonics							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 824.7									
1649.40	-19.0	V	3.0	37.4	1.0	-55.4	-13.0	-42.4	
2474.10	-25.6	V	3.0	36.4	1.0	-61.0	-13.0	-48.0	
3298.80	-21.7	V	3.0	35.8	1.0	-56.5	-13.0	-43.5	
1649.40	-24.4	H	3.0	37.4	1.0	-60.8	-13.0	-47.8	
2474.10	-23.1	H	3.0	36.4	1.0	-58.5	-13.0	-45.5	
3298.80	-21.0	H	3.0	35.8	1.0	-55.8	-13.0	-42.8	
Mid Ch, 836.52									
1673.04	-18.2	V	3.0	37.3	1.0	-54.5	-13.0	-41.5	
2509.56	-24.9	V	3.0	36.4	1.0	-60.3	-13.0	-47.3	
3346.08	-20.8	V	3.0	35.8	1.0	-55.6	-13.0	-42.6	
1673.04	-20.4	H	3.0	37.3	1.0	-56.7	-13.0	-43.7	
2509.56	-23.2	H	3.0	36.4	1.0	-58.6	-13.0	-45.6	
3346.08	-20.4	H	3.0	35.8	1.0	-55.2	-13.0	-42.2	
High Ch, 848.31									
1696.62	-16.0	V	3.0	37.3	1.0	-52.3	-13.0	-39.3	
2544.93	-24.7	V	3.0	36.3	1.0	-60.0	-13.0	-47.0	
3393.24	-20.7	V	3.0	35.7	1.0	-55.4	-13.0	-42.4	
1696.62	-17.6	H	3.0	37.3	1.0	-53.9	-13.0	-40.9	
2544.93	-22.5	H	3.0	36.3	1.0	-57.8	-13.0	-44.8	
3393.24	-20.4	H	3.0	35.7	1.0	-55.1	-13.0	-42.1	

Band
BC0

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20232							
Date:		3/25/2015							
Test Engineer:		R.Z							
Configuration:		EUT , AC Adapter, Headset							
Location:		Chamber G							
Mode:		CDMA 1xRTT BC0 Harmonics							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 824.7									
1649.40	-21.0	V	3.0	37.4	1.0	-57.4	-13.0	-44.4	
2474.10	-25.7	V	3.0	36.4	1.0	-61.1	-13.0	-48.1	
BC0									
3298.80	-22.1	V	3.0	35.8	1.0	-56.9	-13.0	-43.9	
1649.40	-24.7	H	3.0	37.4	1.0	-61.1	-13.0	-48.1	
2474.10	-24.2	H	3.0	36.4	1.0	-59.6	-13.0	-46.6	
1xRTT									
3298.80	-21.1	H	3.0	35.8	1.0	-55.9	-13.0	-42.9	
Mid Ch, 836.52									
1673.04	-18.6	V	3.0	37.3	1.0	-54.9	-13.0	-41.9	
2509.56	-25.2	V	3.0	36.4	1.0	-60.6	-13.0	-47.6	
3346.08	-21.1	V	3.0	35.8	1.0	-55.9	-13.0	-42.9	
1673.04	-21.7	H	3.0	37.3	1.0	-58.0	-13.0	-45.0	
2509.56	-23.2	H	3.0	36.4	1.0	-58.6	-13.0	-45.6	
3346.08	-20.5	H	3.0	35.8	1.0	-55.3	-13.0	-42.3	
High Ch, 848.31									
1696.62	-16.6	V	3.0	37.3	1.0	-52.9	-13.0	-39.9	
2544.93	-25.3	V	3.0	36.3	1.0	-60.6	-13.0	-47.6	
3393.24	-21.7	V	3.0	35.7	1.0	-56.4	-13.0	-43.4	
1696.62	-17.6	H	3.0	37.3	1.0	-53.9	-13.0	-40.9	
2544.93	-22.0	H	3.0	36.3	1.0	-57.3	-13.0	-44.3	
3393.24	-20.6	H	3.0	35.7	1.0	-55.3	-13.0	-42.3	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20232							
Date:		3/25/2015							
Test Engineer:		R.Z							
Configuration:		EUT , AC Adapter, Headset							
Location:		Chamber G							
Mode:		CDMA EVDO BC1 Harmonics							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1851.25									
3702.50	-7.2	V	3.0	35.9	1.0	-42.0	-13.0	-29.0	
5553.75	1.4	V	3.0	35.5	1.0	-33.1	-13.0	-20.1	
7405.00	-2.3	V	3.0	35.7	1.0	-37.1	-13.0	-24.1	
3702.50	-8.9	H	3.0	35.9	1.0	-43.8	-13.0	-30.8	
5553.75	-1.2	H	3.0	35.5	1.0	-35.7	-13.0	-22.7	
7405.00	-3.6	H	3.0	35.7	1.0	-38.3	-13.0	-25.3	
Mid Ch, 1880									
3760.00	-6.5	V	3.0	35.8	1.0	-41.3	-13.0	-28.3	
5640.00	4.5	V	3.0	35.5	1.0	-30.0	-13.0	-17.0	
7520.00	-5.2	V	3.0	35.7	1.0	-40.0	-13.0	-27.0	
3760.00	-9.0	H	3.0	35.8	1.0	-43.8	-13.0	-30.8	
5640.00	1.6	H	3.0	35.5	1.0	-32.9	-13.0	-19.9	
7520.00	-7.5	H	3.0	35.7	1.0	-42.2	-13.0	-29.2	
High Ch, 1908.75									
3817.50	-5.8	V	3.0	35.8	1.0	-40.6	-13.0	-27.6	
5726.25	-0.8	V	3.0	35.5	1.0	-35.3	-13.0	-22.3	
7635.00	-8.3	V	3.0	35.8	1.0	-43.0	-13.0	-30.0	
3817.50	-5.0	H	3.0	35.8	1.0	-39.8	-13.0	-26.8	
5726.25	-0.3	H	3.0	35.5	1.0	-34.8	-13.0	-21.8	
7635.00	-8.0	H	3.0	35.8	1.0	-42.8	-13.0	-29.8	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20232							
Date:		3/25/2015							
Test Engineer:		R.Z							
Configuration:		EUT , AC Adapter, Headset							
Location:		Chamber G							
Mode:		CDMA 1xRTT BC1 Harmonics							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band									
BC1									
1xRTT									
Low Ch, 1851.25									
3702.50	-7.0	V	3.0	35.9	1.0	-41.9	-13.0	-28.9	
5553.75	2.0	V	3.0	35.5	1.0	-32.5	-13.0	-19.5	
7405.00	-3.7	V	3.0	35.7	1.0	-38.4	-13.0	-25.4	
3702.50	-12.3	H	3.0	35.9	1.0	-47.1	-13.0	-34.1	
5553.75	-1.2	H	3.0	35.5	1.0	-35.7	-13.0	-22.7	
7405.00	-6.5	H	3.0	35.7	1.0	-41.2	-13.0	-28.2	
Mid Ch, 1880									
3760.00	-6.7	V	3.0	35.8	1.0	-41.5	-13.0	-28.5	
5640.00	4.0	V	3.0	35.5	1.0	-30.5	-13.0	-17.5	
7520.00	-5.1	V	3.0	35.7	1.0	-39.9	-13.0	-26.9	
3760.00	-11.0	H	3.0	35.8	1.0	-45.8	-13.0	-32.8	
5640.00	2.8	H	3.0	35.5	1.0	-31.7	-13.0	-18.7	
7520.00	-5.2	H	3.0	35.7	1.0	-39.9	-13.0	-26.9	
High Ch, 1908.75									
3817.50	-4.9	V	3.0	35.8	1.0	-39.7	-13.0	-26.7	
5726.25	-0.5	V	3.0	35.5	1.0	-35.0	-13.0	-22.0	
7635.00	-9.2	V	3.0	35.8	1.0	-43.9	-13.0	-30.9	
3817.50	-11.6	H	3.0	35.8	1.0	-46.4	-13.0	-33.4	
5726.25	-1.8	H	3.0	35.5	1.0	-36.3	-13.0	-23.3	
7635.00	-11.3	H	3.0	35.8	1.0	-46.1	-13.0	-33.1	

LTE Band 2

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
		Company:	LG							
		Project #:	15I20232							
		Date:	3/12/2015							
		Test Engineer:	Jude Semana							
		Configuration:	EUT , AC Adapter							
		Location:	Chamber G							
		Mode:	LTE_16QAM Band 2 Harmonics, 20MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	
Low Ch, 1860										
Band	3720.00	-17.4	V	3.0	35.8	1.0	-52.3	-13.0	-39.3	
	5580.00	-13.1	V	3.0	35.5	1.0	-47.6	-13.0	-34.6	
LTE2	7440.00	-10.9	V	3.0	35.7	1.0	-45.7	-13.0	-32.7	
	3720.00	-17.0	H	3.0	35.8	1.0	-51.9	-13.0	-38.9	
20MHz	5580.00	-13.0	H	3.0	35.5	1.0	-47.4	-13.0	-34.4	
	7440.00	-10.8	H	3.0	35.7	1.0	-45.6	-13.0	-32.6	
Mid Ch, 1880										
16QAM	3760.00	-11.4	V	3.0	35.8	1.0	-46.2	-13.0	-33.2	
	5640.00	-14.1	V	3.0	35.5	1.0	-48.6	-13.0	-35.6	
	7520.00	-12.1	V	3.0	35.7	1.0	-46.8	-13.0	-33.8	
	3760.00	-16.6	H	3.0	35.8	1.0	-51.4	-13.0	-38.4	
	5640.00	-13.6	H	3.0	35.5	1.0	-48.1	-13.0	-35.1	
	7520.00	-11.0	H	3.0	35.7	1.0	-45.8	-13.0	-32.8	
High Ch, 1900										
	3800.00	-16.8	V	3.0	35.8	1.0	-51.6	-13.0	-38.6	
	5700.00	-13.5	V	3.0	35.5	1.0	-48.0	-13.0	-35.0	
	7600.00	-10.5	V	3.0	35.8	1.0	-45.3	-13.0	-32.3	
	3800.00	-12.5	H	3.0	35.8	1.0	-47.3	-13.0	-34.3	
	5700.00	-12.9	H	3.0	35.5	1.0	-47.4	-13.0	-34.4	
	7600.00	-11.3	H	3.0	35.8	1.0	-46.1	-13.0	-33.1	

UL Verification Services, Inc.											
Above 1GHz High Frequency Substitution Measurement											
Company:		LG									
Project #:		15I20232									
Date:		3/12/2015									
Test Engineer:		Jude Semana									
Configuration:		EUT , AC Adapter									
Location:		Chamber G									
Mode:		LTE_QPSK Band 2 Harmonics, 20MHz Bandwidth									
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	
Band LTE2 20MHz QPSK	Low Ch, 1860										
		3720.00	-16.0	V	3.0	35.8	1.0	-50.8	-13.0	-37.8	
		5580.00	-13.8	V	3.0	35.5	1.0	-48.3	-13.0	-35.3	
		7440.00	-11.7	V	3.0	35.7	1.0	-46.4	-13.0	-33.4	
		3720.00	-17.0	H	3.0	35.8	1.0	-51.9	-13.0	-38.9	
		5580.00	-12.9	H	3.0	35.5	1.0	-47.3	-13.0	-34.3	
		7440.00	-10.5	H	3.0	35.7	1.0	-45.3	-13.0	-32.3	
		Mid Ch, 1880									
		3760.00	-11.8	V	3.0	35.8	1.0	-46.6	-13.0	-33.6	
		5640.00	-13.5	V	3.0	35.5	1.0	-48.0	-13.0	-35.0	
		7520.00	-11.9	V	3.0	35.7	1.0	-46.7	-13.0	-33.7	
		3760.00	-17.0	H	3.0	35.8	1.0	-51.8	-13.0	-38.8	
	5640.00	-13.9	H	3.0	35.5	1.0	-48.4	-13.0	-35.4		
	7520.00	-10.4	H	3.0	35.7	1.0	-45.2	-13.0	-32.2		
	High Ch, 1900										
	3800.00	-16.8	V	3.0	35.8	1.0	-51.6	-13.0	-38.6		
	5700.00	-13.5	V	3.0	35.5	1.0	-48.0	-13.0	-35.0		
	7600.00	-11.6	V	3.0	35.8	1.0	-46.3	-13.0	-33.3		
	3800.00	-12.1	H	3.0	35.8	1.0	-46.9	-13.0	-33.9		
	5700.00	-13.7	H	3.0	35.5	1.0	-48.2	-13.0	-35.2		
	7600.00	-11.6	H	3.0	35.8	1.0	-46.3	-13.0	-33.3		

Compliance Certification Services UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG							
Project #:		15I20232							
Date:		3/12/2015							
Test Engineer:		Jude Semana							
Configuration:		EUT , AC Adapter							
Location:		Chamber G							
Mode:		LTE_16QAM Band 2 Harmonics, 15MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1857.5									
Band	3715.00	-17.5	V	3.0	35.8	1.0	-52.4	-13.0	-39.4
	5572.50	-12.8	V	3.0	35.5	1.0	-47.3	-13.0	-34.3
LTE2	7430.00	-11.4	V	3.0	35.7	1.0	-46.2	-13.0	-33.2
	3715.00	-15.9	H	3.0	35.8	1.0	-50.8	-13.0	-37.8
15MHz	5572.50	-13.4	H	3.0	35.5	1.0	-47.9	-13.0	-34.9
	7430.00	-10.2	H	3.0	35.7	1.0	-44.9	-13.0	-31.9
Mid Ch, 1880									
16QAM	3760.00	-17.0	V	3.0	35.8	1.0	-51.8	-13.0	-38.8
	5640.00	-13.7	V	3.0	35.5	1.0	-48.2	-13.0	-35.2
	7520.00	-11.9	V	3.0	35.7	1.0	-46.7	-13.0	-33.7
	3760.00	-13.7	H	3.0	35.8	1.0	-48.5	-13.0	-35.5
	5640.00	-12.9	H	3.0	35.5	1.0	-47.4	-13.0	-34.4
	7520.00	-10.8	H	3.0	35.7	1.0	-45.5	-13.0	-32.5
High Ch, 1902.5									
	3805.00	-15.6	V	3.0	35.8	1.0	-50.4	-13.0	-37.4
	5707.50	-13.2	V	3.0	35.5	1.0	-47.7	-13.0	-34.7
	7610.00	-11.6	V	3.0	35.8	1.0	-46.3	-13.0	-33.3
	3805.00	-12.0	H	3.0	35.8	1.0	-46.7	-13.0	-33.7
	5707.50	-13.0	H	3.0	35.5	1.0	-47.5	-13.0	-34.5
	7610.00	-10.8	H	3.0	35.8	1.0	-45.5	-13.0	-32.5

UL Verification Services, Inc.									
Above 1GHz High Frequency Substitution Measurement									
Company:		LG							
Project #:		15I20232							
Date:		3/12/2015							
Test Engineer:		Jude Semana							
Configuration:		EUT , AC Adapter							
Location:		Chamber G							
Mode:		LTE_QPSK Band 2 Harmonics, 15MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band									
Low Ch, 1857.5									
3715.00	-17.9	V	3.0	35.8	1.0	-52.7	-13.0	-39.7	
5572.50	-13.0	V	3.0	35.5	1.0	-47.5	-13.0	-34.5	
7430.00	-11.1	V	3.0	35.7	1.0	-45.9	-13.0	-32.9	
LTE2									
3715.00	-15.6	H	3.0	35.8	1.0	-50.5	-13.0	-37.5	
5572.50	-13.3	H	3.0	35.5	1.0	-47.8	-13.0	-34.8	
7430.00	-10.4	H	3.0	35.7	1.0	-45.1	-13.0	-32.1	
15MHz									
QPSK									
Mid Ch, 1880									
3760.00	-16.7	V	3.0	35.8	1.0	-51.5	-13.0	-38.5	
5640.00	-14.0	V	3.0	35.5	1.0	-48.5	-13.0	-35.5	
7520.00	-11.2	V	3.0	35.7	1.0	-46.0	-13.0	-33.0	
3760.00	-13.7	H	3.0	35.8	1.0	-48.5	-13.0	-35.5	
5640.00	-13.9	H	3.0	35.5	1.0	-48.4	-13.0	-35.4	
7520.00	-11.1	H	3.0	35.7	1.0	-45.8	-13.0	-32.8	
High Ch, 1902.5									
3805.00	-15.7	V	3.0	35.8	1.0	-50.5	-13.0	-37.5	
5707.50	-12.4	V	3.0	35.5	1.0	-46.9	-13.0	-33.9	
7610.00	-10.9	V	3.0	35.8	1.0	-45.6	-13.0	-32.6	
3805.00	-11.7	H	3.0	35.8	1.0	-46.4	-13.0	-33.4	
5707.50	-12.8	H	3.0	35.5	1.0	-47.3	-13.0	-34.3	
7610.00	-10.2	H	3.0	35.8	1.0	-45.0	-13.0	-32.0	

UL Verification Services, Inc.									
Above 1GHz High Frequency Substitution Measurement									
Company:		LG							
Project #:		15I20232							
Date:		3/12/2015							
Test Engineer:		Jude Semana							
Configuration:		EUT , AC Adapter							
Location:		Chamber G							
Mode:		LTE_16QAM Band 2 Harmonics, 10MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band									
Low Ch, 1855									
3710.00	-17.8	V	3.0	35.9	1.0	-52.7	-13.0	-39.7	
5565.00	-13.4	V	3.0	35.5	1.0	-47.8	-13.0	-34.8	
7420.00	-11.4	V	3.0	35.7	1.0	-46.2	-13.0	-33.2	
10MHz									
3710.00	-15.5	H	3.0	35.9	1.0	-50.4	-13.0	-37.4	
5565.00	-13.2	H	3.0	35.5	1.0	-47.7	-13.0	-34.7	
7420.00	-9.4	H	3.0	35.7	1.0	-44.1	-13.0	-31.1	
16QAM									
Mid Ch, 1880									
3760.00	-16.2	V	3.0	35.8	1.0	-51.0	-13.0	-38.0	
5640.00	-13.6	V	3.0	35.5	1.0	-48.1	-13.0	-35.1	
7520.00	-11.5	V	3.0	35.7	1.0	-46.3	-13.0	-33.3	
3760.00	-12.8	H	3.0	35.8	1.0	-47.6	-13.0	-34.6	
5640.00	-13.7	H	3.0	35.5	1.0	-48.2	-13.0	-35.2	
7520.00	117.2	H	3.0	35.7	1.0	82.5	-13.0	95.5	
High Ch, 1905									
3810.00	-16.0	V	3.0	35.8	1.0	-50.8	-13.0	-37.8	
5715.00	-13.6	V	3.0	35.5	1.0	-48.1	-13.0	-35.1	
7620.00	-12.5	V	3.0	35.8	1.0	-47.2	-13.0	-34.2	
3810.00	-15.2	H	3.0	35.8	1.0	-49.9	-13.0	-36.9	
5715.00	-13.7	H	3.0	35.5	1.0	-48.2	-13.0	-35.2	
7620.00	-10.0	H	3.0	35.8	1.0	-44.8	-13.0	-31.8	

UL Verification Services, Inc.										
Above 1GHz High Frequency Substitution Measurement										
Company:		LG								
Project #:		15I20232								
Date:		3/12/2015								
Test Engineer:		Jude Semana								
Configuration:		EUT , AC Adapter								
Location:		Chamber G								
Mode:		LTE_QPSK Band 2 Harmonics, 10MHz Bandwidth								
Band	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 1855									
	3710.00	-17.0	V	3.0	35.9	1.0	-51.9	-13.0	-38.9	
LTE2	5565.00	-13.2	V	3.0	35.5	1.0	-47.7	-13.0	-34.7	
	7420.00	-10.8	V	3.0	35.7	1.0	-45.5	-13.0	-32.5	
10MHz	3710.00	-15.1	H	3.0	35.9	1.0	-49.9	-13.0	-36.9	
	5565.00	-13.4	H	3.0	35.5	1.0	-47.9	-13.0	-34.9	
QPSK	7420.00	-9.2	H	3.0	35.7	1.0	-44.0	-13.0	-31.0	
	Mid Ch, 1880									
	3760.00	-16.5	V	3.0	35.8	1.0	-51.3	-13.0	-38.3	
	5640.00	-13.5	V	3.0	35.5	1.0	-48.0	-13.0	-35.0	
	7520.00	-11.6	V	3.0	35.7	1.0	-46.3	-13.0	-33.3	
	3760.00	-13.2	H	3.0	35.8	1.0	-48.0	-13.0	-35.0	
	5640.00	-13.5	H	3.0	35.5	1.0	-48.0	-13.0	-35.0	
	7520.00	-10.7	H	3.0	35.7	1.0	-45.4	-13.0	-32.4	
	High Ch, 1905									
	3810.00	-16.4	V	3.0	35.8	1.0	-51.1	-13.0	-38.1	
	5715.00	-13.6	V	3.0	35.5	1.0	-48.1	-13.0	-35.1	
	7620.00	-11.5	V	3.0	35.8	1.0	-46.2	-13.0	-33.2	
	3810.00	-14.2	H	3.0	35.8	1.0	-48.9	-13.0	-35.9	
	5715.00	-13.7	H	3.0	35.5	1.0	-48.2	-13.0	-35.2	
	7620.00	-10.1	H	3.0	35.8	1.0	-44.8	-13.0	-31.8	

UL Verification Services, Inc.											
Above 1GHz High Frequency Substitution Measurement											
Company:		LG									
Project #:		15I20232									
Date:		3/12/2015									
Test Engineer:		Jude Semana									
Configuration:		EUT , AC Adapter									
Location:		Chamber G									
Mode:		LTE_16QAM Band 2 Harmonics, 5MHz Bandwidth									
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	
Band LTE2 5MHz 16QAM	Low Ch, 1852.5										
		3705.00	-15.8	V	3.0	35.9	1.0	-50.6	-13.0	-37.6	
		5557.50	-12.4	V	3.0	35.5	1.0	-46.9	-13.0	-33.9	
		7410.00	-9.5	V	3.0	35.7	1.0	-44.3	-13.0	-31.3	
		3705.00	-12.7	H	3.0	35.9	1.0	-47.6	-13.0	-34.6	
		5557.50	-11.0	H	3.0	35.5	1.0	-45.4	-13.0	-32.4	
		7410.00	-9.2	H	3.0	35.7	1.0	-44.0	-13.0	-31.0	
		Mid Ch, 1880									
		3760.00	-15.8	V	3.0	35.8	1.0	-50.6	-13.0	-37.6	
		5640.00	-13.3	V	3.0	35.5	1.0	-47.7	-13.0	-34.7	
		7520.00	-12.0	V	3.0	35.7	1.0	-46.8	-13.0	-33.8	
		3760.00	-11.0	H	3.0	35.8	1.0	-45.8	-13.0	-32.8	
		5640.00	-13.3	H	3.0	35.5	1.0	-47.8	-13.0	-34.8	
		7520.00	-10.7	H	3.0	35.7	1.0	-45.5	-13.0	-32.5	
		High Ch, 1907.5									
		3815.00	-12.6	V	3.0	35.8	1.0	-47.4	-13.0	-34.4	
		5722.50	-13.7	V	3.0	35.5	1.0	-48.2	-13.0	-35.2	
		7630.00	-9.2	V	3.0	35.8	1.0	-44.0	-13.0	-31.0	
	3815.00	-11.1	H	3.0	35.8	1.0	-45.8	-13.0	-32.8		
	5722.50	-13.3	H	3.0	35.5	1.0	-47.8	-13.0	-34.8		
	7630.00	-10.9	H	3.0	35.8	1.0	-45.6	-13.0	-32.6		

UL Verification Services, Inc.										
Above 1GHz High Frequency Substitution Measurement										
Company:		LG								
Project #:		15I20232								
Date:		3/12/2015								
Test Engineer:		Jude Semana								
Configuration:		EUT , AC Adapter								
Location:		Chamber G								
Mode:		LTE_QPSK Band 2 Harmonics, 5MHz Bandwidth								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 1852.5									
Band	3705.00	-16.2	V	3.0	35.9	1.0	-51.1	-13.0	-38.1	
	5557.50	-12.1	V	3.0	35.5	1.0	-46.6	-13.0	-33.6	
LTE2	7410.00	-9.2	V	3.0	35.7	1.0	-43.9	-13.0	-30.9	
	3705.00	-12.5	H	3.0	35.9	1.0	-47.4	-13.0	-34.4	
5MHz	5557.50	-12.8	H	3.0	35.5	1.0	-47.2	-13.0	-34.2	
	7410.00	-8.9	H	3.0	35.7	1.0	-43.6	-13.0	-30.6	
	Mid Ch, 1880									
QPSK	3760.00	-16.1	V	3.0	35.8	1.0	-50.9	-13.0	-37.9	
	5640.00	-14.1	V	3.0	35.5	1.0	-48.6	-13.0	-35.6	
	7520.00	-11.8	V	3.0	35.7	1.0	-46.5	-13.0	-33.5	
	3760.00	-11.1	H	3.0	35.8	1.0	-45.9	-13.0	-32.9	
	5640.00	-13.4	H	3.0	35.5	1.0	-47.9	-13.0	-34.9	
	7520.00	-10.6	H	3.0	35.7	1.0	-45.3	-13.0	-32.3	
	High Ch, 1907.5									
	3815.00	-15.3	V	3.0	35.8	1.0	-50.1	-13.0	-37.1	
	5722.50	-13.0	V	3.0	35.5	1.0	-47.5	-13.0	-34.5	
	7630.00	-9.9	V	3.0	35.8	1.0	-44.7	-13.0	-31.7	
	3815.00	-11.1	H	3.0	35.8	1.0	-45.9	-13.0	-32.9	
	5722.50	-13.2	H	3.0	35.5	1.0	-47.7	-13.0	-34.7	
	7630.00	-10.5	H	3.0	35.8	1.0	-45.2	-13.0	-32.2	

UL Verification Services, Inc.									
Above 1GHz High Frequency Substitution Measurement									
Company:		LG							
Project #:		15I20232							
Date:		3/12/2015							
Test Engineer:		Jude Semana							
Configuration:		EUT , AC Adapter							
Location:		Chamber G							
Mode:		LTE_16QAM Band 2 Harmonics, 3MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band									
Low Ch, 1851.5									
3703.00	-14.8	V	3.0	35.9	1.0	-49.6	-13.0	-36.6	
5554.50	-12.3	V	3.0	35.5	1.0	-46.8	-13.0	-33.8	
7406.00	-7.8	V	3.0	35.7	1.0	-42.6	-13.0	-29.6	
LTE2									
3703.00	-12.2	H	3.0	35.9	1.0	-47.1	-13.0	-34.1	
5554.50	-11.9	H	3.0	35.5	1.0	-46.4	-13.0	-33.4	
7406.00	-8.4	H	3.0	35.7	1.0	-43.1	-13.0	-30.1	
3MHz									
16QAM									
Mid Ch, 1880									
3760.00	-16.1	V	3.0	35.8	1.0	-51.0	-13.0	-38.0	
5640.00	-12.8	V	3.0	35.5	1.0	-47.3	-13.0	-34.3	
7520.00	-11.4	V	3.0	35.7	1.0	-46.2	-13.0	-33.2	
3760.00	-10.3	H	3.0	35.8	1.0	-45.1	-13.0	-32.1	
5640.00	-13.6	H	3.0	35.5	1.0	-48.1	-13.0	-35.1	
7520.00	-10.5	H	3.0	35.7	1.0	-45.2	-13.0	-32.2	
High Ch, 1908.5									
3817.00	-13.9	V	3.0	35.8	1.0	-48.7	-13.0	-35.7	
5725.50	-12.9	V	3.0	35.5	1.0	-47.4	-13.0	-34.4	
7634.00	-10.2	V	3.0	35.8	1.0	-44.9	-13.0	-31.9	
3817.00	-10.0	H	3.0	35.8	1.0	-44.8	-13.0	-31.8	
5725.50	-12.0	H	3.0	35.5	1.0	-46.5	-13.0	-33.5	
7634.00	-8.7	H	3.0	35.8	1.0	-43.5	-13.0	-30.5	

UL Verification Services, Inc.										
Above 1GHz High Frequency Substitution Measurement										
Company:		LG								
Project #:		15I20232								
Date:		3/12/2015								
Test Engineer:		Jude Semana								
Configuration:		EUT , AC Adapter								
Location:		Chamber G								
Mode:		LTE_QPSK Band 2 Harmonics, 3MHz Bandwidth								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band	Low Ch, 1851.5									
	3703.00	-14.9	V	3.0	35.9	1.0	-49.7	-13.0	-36.7	
	5554.50	-13.0	V	3.0	35.5	1.0	-47.5	-13.0	-34.5	
LTE2	7406.00	-8.7	V	3.0	35.7	1.0	-43.4	-13.0	-30.4	
	3703.00	-12.5	H	3.0	35.9	1.0	-47.4	-13.0	-34.4	
	5554.50	-12.4	H	3.0	35.5	1.0	-46.9	-13.0	-33.9	
3MHz	7406.00	-9.0	H	3.0	35.7	1.0	-43.7	-13.0	-30.7	
	Mid Ch, 1880									
	3760.00	-18.3	V	3.0	35.8	1.0	-53.1	-13.0	-40.1	
QPSK	5640.00	-13.1	V	3.0	35.5	1.0	-47.6	-13.0	-34.6	
	7520.00	-11.1	V	3.0	35.7	1.0	-45.9	-13.0	-32.9	
	3760.00	-10.9	H	3.0	35.8	1.0	-45.7	-13.0	-32.7	
	5640.00	-13.3	H	3.0	35.5	1.0	-47.8	-13.0	-34.8	
	7520.00	-10.3	H	3.0	35.7	1.0	-45.1	-13.0	-32.1	
	High Ch, 1908.5									
3817.00	-12.9	V	3.0	35.8	1.0	-47.7	-13.0	-34.7		
5725.50	-13.4	V	3.0	35.5	1.0	-47.9	-13.0	-34.9		
7634.00	-9.4	V	3.0	35.8	1.0	-44.1	-13.0	-31.1		
3817.00	-10.3	H	3.0	35.8	1.0	-45.0	-13.0	-32.0		
5725.50	-12.4	H	3.0	35.5	1.0	-46.9	-13.0	-33.9		
7634.00	-9.5	H	3.0	35.8	1.0	-44.3	-13.0	-31.3		

UL Verification Services, Inc.										
Above 1GHz High Frequency Substitution Measurement										
Company:		LG								
Project #:		15I20232								
Date:		3/12/2015								
Test Engineer:		Jude Semana								
Configuration:		EUT , AC Adapter								
Location:		Chamber G								
Mode:		LTE_16QAM Band 2 Harmonics, 1.4MHz Bandwidth								
Band	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 1850.7									
	3701.40	-11.6	V	3.0	35.9	1.0	-46.5	-13.0	-33.5	
LTE2	5552.10	-16.7	V	3.0	35.5	1.0	-51.2	-13.0	-38.2	
	7402.80	-7.2	V	3.0	35.7	1.0	-41.9	-13.0	-28.9	
1.4MHz	3701.40	-11.7	H	3.0	35.9	1.0	-46.6	-13.0	-33.6	
	5552.10	-13.2	H	3.0	35.5	1.0	-47.7	-13.0	-34.7	
16QAM	7402.80	-10.9	H	3.0	35.7	1.0	-45.7	-13.0	-32.7	
	Mid Ch, 1880									
	3760.00	-14.3	V	3.0	35.8	1.0	-49.1	-13.0	-36.1	
	5640.00	-10.3	V	3.0	35.5	1.0	-44.8	-13.0	-31.8	
	7520.00	-6.5	V	3.0	35.7	1.0	-41.2	-13.0	-28.2	
	3760.00	-8.8	H	3.0	35.8	1.0	-43.6	-13.0	-30.6	
	5640.00	-13.5	H	3.0	35.5	1.0	-48.0	-13.0	-35.0	
	7520.00	-10.2	H	3.0	35.7	1.0	-44.9	-13.0	-31.9	
	High Ch, 1909.3									
	3818.60	-16.3	V	3.0	35.8	1.0	-51.1	-13.0	-38.1	
	5727.90	-11.8	V	3.0	35.5	1.0	-46.3	-13.0	-33.3	
	7637.20	-7.1	V	3.0	35.8	1.0	-41.9	-13.0	-28.9	
	3818.60	-9.6	H	3.0	35.8	1.0	-44.3	-13.0	-31.3	
	5727.90	-11.6	H	3.0	35.5	1.0	-46.1	-13.0	-33.1	
	7637.20	-10.7	H	3.0	35.8	1.0	-45.5	-13.0	-32.5	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG							
Project #:		15I20232							
Date:		3/12/2015							
Test Engineer:		Jude Semana							
Configuration:		EUT , AC Adapter							
Location:		Chamber G							
Mode:		LTE_QPSK Band 2 Harmonics, 1.4MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1850.7									
Band	3701.40	-12.1	V	3.0	35.9	1.0	-47.0	-13.0	-34.0
	5552.10	-13.9	V	3.0	35.5	1.0	-48.3	-13.0	-35.3
LTE2	7402.80	-7.4	V	3.0	35.7	1.0	-42.1	-13.0	-29.1
	3701.40	-11.3	H	3.0	35.9	1.0	-46.1	-13.0	-33.1
1.4MHz	5552.10	-12.8	H	3.0	35.5	1.0	-47.3	-13.0	-34.3
	7402.80	-10.1	H	3.0	35.7	1.0	-44.8	-13.0	-31.8
Mid Ch, 1880									
QPSK	3760.00	-15.0	V	3.0	35.8	1.0	-49.8	-13.0	-36.8
	5640.00	-10.4	V	3.0	35.5	1.0	-44.9	-13.0	-31.9
	7520.00	-6.8	V	3.0	35.7	1.0	-41.5	-13.0	-28.5
	3760.00	-8.3	H	3.0	35.8	1.0	-43.1	-13.0	-30.1
	5640.00	-13.5	H	3.0	35.5	1.0	-48.0	-13.0	-35.0
	7520.00	-10.6	H	3.0	35.7	1.0	-45.3	-13.0	-32.3
High Ch, 1909.3									
	3818.60	-14.8	V	3.0	35.8	1.0	-49.6	-13.0	-36.6
	5727.90	-11.6	V	3.0	35.5	1.0	-46.1	-13.0	-33.1
	7637.20	-7.7	V	3.0	35.8	1.0	-42.4	-13.0	-29.4
	3818.60	-9.8	H	3.0	35.8	1.0	-44.5	-13.0	-31.5
	5727.90	-11.7	H	3.0	35.5	1.0	-46.2	-13.0	-33.2
	7637.20	-10.1	H	3.0	35.8	1.0	-44.9	-13.0	-31.9

LTE Band 5

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20232							
Date:		3/25/2015							
Test Engineer:		R.Z							
Configuration:		EUT/ AC Charger/ Headset							
Location:		Chamber G							
Mode:		LTE_16QAM Band 5 Harmonics, 10MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 829									
1658.00	-15.5	V	3.0	37.0	1.0	-51.5	-13.0	-38.5	
2487.00	-23.0	V	3.0	36.4	1.0	-58.4	-13.0	-45.4	
3316.00	-21.1	V	3.0	36.2	1.0	-56.3	-13.0	-43.3	
10MHz									
1658.00	-19.1	H	3.0	37.0	1.0	-55.1	-13.0	-42.1	
2487.00	-24.9	H	3.0	36.4	1.0	-60.4	-13.0	-47.4	
3316.00	-20.9	H	3.0	36.2	1.0	-56.1	-13.0	-43.1	
16QAM									
Mid Ch, 836.5									
1673.00	-16.0	V	3.0	37.0	1.0	-52.0	-13.0	-39.0	
2509.50	-22.8	V	3.0	36.4	1.0	-58.2	-13.0	-45.2	
3346.00	-21.3	V	3.0	36.1	1.0	-56.4	-13.0	-43.4	
1673.00	-23.7	H	3.0	37.0	1.0	-59.7	-13.0	-46.7	
2509.50	-24.9	H	3.0	36.4	1.0	-60.3	-13.0	-47.3	
3346.00	-22.3	H	3.0	36.1	1.0	-57.4	-13.0	-44.4	
High Ch, 844									
1688.00	-17.3	V	3.0	37.0	1.0	-53.3	-13.0	-40.3	
2532.00	-23.3	V	3.0	36.4	1.0	-58.7	-13.0	-45.7	
3376.00	-20.9	V	3.0	36.1	1.0	-56.0	-13.0	-43.0	
1688.00	-21.2	H	3.0	37.0	1.0	-57.2	-13.0	-44.2	
2532.00	-24.7	H	3.0	36.4	1.0	-60.1	-13.0	-47.1	
3376.00	-21.8	H	3.0	36.1	1.0	-56.9	-13.0	-43.9	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I20232								
Date:		3/25/2015								
Test Engineer:		R.Z								
Configuration:		EUT/ AC Charger/ Headset								
Location:		Chamber G								
Mode:		LTE_QPSK Band 5 Harmonics, 10MHz Bandwidth								
Band	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 829									
	1658.00	-13.6	V	3.0	37.0	1.0	-49.7	-13.0	-36.7	
	2487.00	-23.3	V	3.0	36.4	1.0	-58.7	-13.0	-45.7	
	3316.00	-21.1	V	3.0	36.2	1.0	-56.3	-13.0	-43.3	
10MHz	1658.00	-17.1	H	3.0	37.0	1.0	-53.1	-13.0	-40.1	
	2487.00	-23.9	H	3.0	36.4	1.0	-59.4	-13.0	-46.4	
	3316.00	-21.1	H	3.0	36.2	1.0	-56.3	-13.0	-43.3	
QPSK	Mid Ch, 836.5									
	1673.00	-16.3	V	3.0	37.0	1.0	-52.3	-13.0	-39.3	
	2509.50	-22.8	V	3.0	36.4	1.0	-58.2	-13.0	-45.2	
	3346.00	-21.1	V	3.0	36.1	1.0	-56.2	-13.0	-43.2	
	1673.00	-24.0	H	3.0	37.0	1.0	-60.0	-13.0	-47.0	
	2509.50	-25.3	H	3.0	36.4	1.0	-60.7	-13.0	-47.7	
	3346.00	-21.6	H	3.0	36.1	1.0	-56.7	-13.0	-43.7	
	High Ch, 844									
	1688.00	-17.5	V	3.0	37.0	1.0	-53.5	-13.0	-40.5	
	2532.00	-22.7	V	3.0	36.4	1.0	-58.1	-13.0	-45.1	
	3376.00	-21.2	V	3.0	36.1	1.0	-56.3	-13.0	-43.3	
	1688.00	-18.8	H	3.0	37.0	1.0	-54.8	-13.0	-41.8	
	2532.00	-24.2	H	3.0	36.4	1.0	-59.6	-13.0	-46.6	
	3376.00	-21.5	H	3.0	36.1	1.0	-56.6	-13.0	-43.6	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement												
Company:		LG Electronics										
Project #:		15I20232										
Date:		3/25/2015										
Test Engineer:		R.Z										
Configuration:		EUT/ AC Charger/ Headset										
Location:		Chamber G										
Mode:		LTE_16QAM Band 5 Harmonics, 5MHz Bandwidth										
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes		
Band	Low Ch, 826.5											
		1653.00	-16.9	V	3.0	37.0	1.0	-52.9	-13.0	-39.9		
		2479.50	-23.6	V	3.0	36.4	1.0	-59.1	-13.0	-46.1		
	LTE5	3306.00	-20.6	V	3.0	36.2	1.0	-55.7	-13.0	-42.7		
		1653.00	-17.1	H	3.0	37.0	1.0	-53.2	-13.0	-40.2		
	5MHz	2479.50	-24.8	H	3.0	36.4	1.0	-60.2	-13.0	-47.2		
		3306.00	-21.0	H	3.0	36.2	1.0	-56.1	-13.0	-43.1		
	16QAM	Mid Ch, 836.5										
			1673.00	-21.2	V	3.0	37.0	1.0	-57.2	-13.0	-44.2	
			2509.50	-23.2	V	3.0	36.4	1.0	-58.6	-13.0	-45.6	
			3346.00	-20.0	V	3.0	36.1	1.0	-55.1	-13.0	-42.1	
			1673.00	-21.9	H	3.0	37.0	1.0	-57.9	-13.0	-44.9	
		2509.50	-24.3	H	3.0	36.4	1.0	-59.7	-13.0	-46.7		
		3346.00	-20.7	H	3.0	36.1	1.0	-55.8	-13.0	-42.8		
High Ch, 846.5												
		1693.00	-20.8	V	3.0	37.0	1.0	-56.8	-13.0	-43.8		
		2539.50	-22.9	V	3.0	36.4	1.0	-58.4	-13.0	-45.4		
		3386.00	-21.1	V	3.0	36.1	1.0	-56.2	-13.0	-43.2		
		1693.00	-23.5	H	3.0	37.0	1.0	-59.5	-13.0	-46.5		
	2539.50	-24.0	H	3.0	36.4	1.0	-59.4	-13.0	-46.4			
	3386.00	-21.1	H	3.0	36.1	1.0	-56.2	-13.0	-43.2			

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I20232								
Date:		3/25/2015								
Test Engineer:		R.Z								
Configuration:		EUT/ AC Charger/ Headset								
Location:		Chamber G								
Mode:		LTE_QPSK Band 5 Harmonics, 5MHz Bandwidth								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band	Low Ch, 826.5									
	1653.00	-13.5	V	3.0	37.0	1.0	-49.5	-13.0	-36.5	
LTE5	2479.50	-23.5	V	3.0	36.4	1.0	-59.0	-13.0	-46.0	
	3306.00	-22.0	V	3.0	36.2	1.0	-57.1	-13.0	-44.1	
5MHz	1653.00	-13.5	H	3.0	37.0	1.0	-49.6	-13.0	-36.6	
	2479.50	-24.9	H	3.0	36.4	1.0	-60.3	-13.0	-47.3	
QPSK	3306.00	-20.9	H	3.0	36.2	1.0	-56.0	-13.0	-43.0	
	Mid Ch, 836.5									
	1673.00	-19.4	V	3.0	37.0	1.0	-55.4	-13.0	-42.4	
	2509.50	-22.1	V	3.0	36.4	1.0	-57.5	-13.0	-44.5	
	3346.00	-21.1	V	3.0	36.1	1.0	-56.2	-13.0	-43.2	
	1673.00	-22.3	H	3.0	37.0	1.0	-58.3	-13.0	-45.3	
	2509.50	-24.1	H	3.0	36.4	1.0	-59.5	-13.0	-46.5	
	3346.00	-21.5	H	3.0	36.1	1.0	-56.6	-13.0	-43.6	
High Ch, 846.5										
	1693.00	-17.5	V	3.0	37.0	1.0	-53.5	-13.0	-40.5	
	2539.50	-22.2	V	3.0	36.4	1.0	-57.7	-13.0	-44.7	
	3386.00	-21.1	V	3.0	36.1	1.0	-56.2	-13.0	-43.2	
	1693.00	-24.6	H	3.0	37.0	1.0	-60.5	-13.0	-47.5	
	2539.50	-24.2	H	3.0	36.4	1.0	-59.6	-13.0	-46.6	
	3386.00	-21.0	H	3.0	36.1	1.0	-56.1	-13.0	-43.1	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I20232								
Date:		3/25/2015								
Test Engineer:		R.Z								
Configuration:		EUT/ AC Charger/ Headset								
Location:		Chamber G								
Mode:		LTE_16QAM Band 5 Harmonics, 3MHz Bandwidth								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band	Low Ch, 825.5									
	1651.00	-12.2	V	3.0	37.0	1.0	-48.2	-13.0	-35.2	
	2476.50	-22.4	V	3.0	36.4	1.0	-57.8	-13.0	-44.8	
LTE5	3302.00	-20.4	V	3.0	36.2	1.0	-55.6	-13.0	-42.6	
	1651.00	-17.2	H	3.0	37.0	1.0	-53.2	-13.0	-40.2	
	2476.50	-23.7	H	3.0	36.4	1.0	-59.1	-13.0	-46.1	
3MHz	3302.00	-21.4	H	3.0	36.2	1.0	-56.6	-13.0	-43.6	
	Mid Ch, 836.5									
	1673.00	-21.1	V	3.0	37.0	1.0	-57.1	-13.0	-44.1	
16QAM	2509.50	-22.0	V	3.0	36.4	1.0	-57.4	-13.0	-44.4	
	3346.00	-21.1	V	3.0	36.1	1.0	-56.2	-13.0	-43.2	
	1673.00	-22.4	H	3.0	37.0	1.0	-58.4	-13.0	-45.4	
	2509.50	-23.4	H	3.0	36.4	1.0	-58.8	-13.0	-45.8	
	3346.00	-20.3	H	3.0	36.1	1.0	-55.4	-13.0	-42.4	
	High Ch, 847.5									
	1695.00	-21.7	V	3.0	37.0	1.0	-57.7	-13.0	-44.7	
	2542.50	-21.6	V	3.0	36.4	1.0	-57.1	-13.0	-44.1	
	3390.00	-20.9	V	3.0	36.1	1.0	-56.0	-13.0	-43.0	
	1695.00	-21.5	H	3.0	37.0	1.0	-57.5	-13.0	-44.5	
	2542.50	-23.0	H	3.0	36.4	1.0	-58.5	-13.0	-45.5	
	3390.00	-20.3	H	3.0	36.1	1.0	-55.4	-13.0	-42.4	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I20232								
Date:		3/25/2015								
Test Engineer:		R.Z								
Configuration:		EUT/ AC Charger/ Headset								
Location:		Chamber G								
Mode:		LTE_QPSK Band 5 Harmonics, 3MHz Bandwidth								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band	Low Ch, 825.5									
	1651.00	-15.5	V	3.0	37.0	1.0	-51.5	-13.0	-38.5	
LTE5	2476.50	-22.2	V	3.0	36.4	1.0	-57.7	-13.0	-44.7	
	3302.00	-19.8	V	3.0	36.2	1.0	-55.0	-13.0	-42.0	
3MHz	1651.00	-14.9	H	3.0	37.0	1.0	-51.0	-13.0	-38.0	
	2476.50	-22.5	H	3.0	36.4	1.0	-57.9	-13.0	-44.9	
QPSK	3302.00	-20.7	H	3.0	36.2	1.0	-55.9	-13.0	-42.9	
	Mid Ch, 836.5									
	1673.00	-21.7	V	3.0	37.0	1.0	-57.7	-13.0	-44.7	
	2509.50	-21.3	V	3.0	36.4	1.0	-56.7	-13.0	-43.7	
	3346.00	-21.0	V	3.0	36.1	1.0	-56.1	-13.0	-43.1	
	1673.00	-23.5	H	3.0	37.0	1.0	-59.5	-13.0	-46.5	
	2509.50	-23.9	H	3.0	36.4	1.0	-59.3	-13.0	-46.3	
	3346.00	-20.3	H	3.0	36.1	1.0	-55.4	-13.0	-42.4	
High Ch, 847.5										
	1695.00	-21.9	V	3.0	37.0	1.0	-57.9	-13.0	-44.9	
	2542.50	-21.3	V	3.0	36.4	1.0	-56.8	-13.0	-43.8	
	3390.00	-19.9	V	3.0	36.1	1.0	-55.0	-13.0	-42.0	
	1695.00	-22.5	H	3.0	37.0	1.0	-58.5	-13.0	-45.5	
	2542.50	-23.3	H	3.0	36.4	1.0	-58.8	-13.0	-45.8	
	3390.00	-19.8	H	3.0	36.1	1.0	-54.9	-13.0	-41.9	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20232							
Date:		3/25/2015							
Test Engineer:		R.Z							
Configuration:		EUT/ AC Charger/ Headset							
Location:		Chamber G							
Mode:		LTE_16QAM Band 5 Harmonics, 1.4MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band									
Low Ch, 824.7									
1649.40	-12.1	V	3.0	37.1	1.0	-48.1	-13.0	-35.1	
2474.10	-23.2	V	3.0	36.4	1.0	-58.6	-13.0	-45.6	
LTE5									
3298.80	-20.7	V	3.0	36.2	1.0	-55.9	-13.0	-42.9	
1649.40	-21.1	H	3.0	37.1	1.0	-57.1	-13.0	-44.1	
2474.10	-24.4	H	3.0	36.4	1.0	-59.9	-13.0	-46.9	
1.4MHz									
3298.80	-21.2	H	3.0	36.2	1.0	-56.4	-13.0	-43.4	
Mid Ch, 836.5									
1673.00	-20.0	V	3.0	37.0	1.0	-56.0	-13.0	-43.0	
16QAM									
2509.50	-22.0	V	3.0	36.4	1.0	-57.4	-13.0	-44.4	
3346.00	-20.4	V	3.0	36.1	1.0	-55.5	-13.0	-42.5	
1673.00	-24.2	H	3.0	37.0	1.0	-60.2	-13.0	-47.2	
2509.50	-23.8	H	3.0	36.4	1.0	-59.2	-13.0	-46.2	
3346.00	-21.2	H	3.0	36.1	1.0	-56.4	-13.0	-43.4	
High Ch, 848.3									
1696.60	-21.5	V	3.0	37.0	1.0	-57.5	-13.0	-44.5	
2544.90	-22.2	V	3.0	36.4	1.0	-57.6	-13.0	-44.6	
3393.20	-20.9	V	3.0	36.1	1.0	-55.9	-13.0	-42.9	
1696.60	-20.6	H	3.0	37.0	1.0	-56.5	-13.0	-43.5	
2544.90	-23.4	H	3.0	36.4	1.0	-58.8	-13.0	-45.8	
3393.20	-20.5	H	3.0	36.1	1.0	-55.6	-13.0	-42.6	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement											
Company:		LG Electronics									
Project #:		15I20232									
Date:		3/25/2015									
Test Engineer:		R.Z									
Configuration:		EUT/ AC Charger/ Headset									
Location:		Chamber G									
Mode:		LTE_QPSK Band 5 Harmonics, 1.4MHz Bandwidth									
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	
Band	Low Ch, 824.7										
	1649.40	-18.4	V	3.0	37.1	1.0	-54.5	-13.0	-41.5		
	2474.10	-22.9	V	3.0	36.4	1.0	-58.3	-13.0	-45.3		
	LTE5	3298.80	-20.7	V	3.0	36.2	1.0	-55.8	-13.0	-42.8	
		1649.40	-16.4	H	3.0	37.1	1.0	-52.5	-13.0	-39.5	
	1.4MHz	2474.10	-23.1	H	3.0	36.4	1.0	-58.5	-13.0	-45.5	
3298.80		-20.7	H	3.0	36.2	1.0	-55.9	-13.0	-42.9		
QPSK	Mid Ch, 836.5										
	1673.00	-19.4	V	3.0	37.0	1.0	-55.4	-13.0	-42.4		
	2509.50	-23.3	V	3.0	36.4	1.0	-58.7	-13.0	-45.7		
	3346.00	-20.5	V	3.0	36.1	1.0	-55.6	-13.0	-42.6		
	1673.00	-25.0	H	3.0	37.0	1.0	-61.0	-13.0	-48.0		
	2509.50	-23.0	H	3.0	36.4	1.0	-58.4	-13.0	-45.4		
	High Ch, 848.3										
	3346.00	-20.9	H	3.0	36.1	1.0	-56.0	-13.0	-43.0		
	1696.60	-18.2	V	3.0	37.0	1.0	-54.2	-13.0	-41.2		
	2544.90	-22.0	V	3.0	36.4	1.0	-57.4	-13.0	-44.4		
	3393.20	-19.8	V	3.0	36.1	1.0	-54.8	-13.0	-41.8		
	1696.60	-22.9	H	3.0	37.0	1.0	-58.9	-13.0	-45.9		
	2544.90	-24.2	H	3.0	36.4	1.0	-59.6	-13.0	-46.6		
	3393.20	-20.2	H	3.0	36.1	1.0	-55.2	-13.0	-42.2		

LTE Band 4

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG							
Project #:		15I20232							
Date:		3/25/2015							
Test Engineer:		R.Z							
Configuration:		EUT , AC Adapter and Headset							
Location:		Chamber G							
Mode:		LTE_16QAM Band 4 Harmonics, 15MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1717.5									
3435.00	0.4	V	3.0	36.1	1.0	-34.6	-13.0	-21.6	
5152.50	11.3	V	3.0	35.4	1.0	-23.1	-13.0	-10.1	
6870.00	8.7	V	3.0	35.7	1.0	-26.0	-13.0	-13.0	
LTE4									
3435.00	0.4	H	3.0	36.1	1.0	-34.7	-13.0	-21.7	
5152.50	8.9	H	3.0	35.4	1.0	-25.6	-13.0	-12.6	
6870.00	6.4	H	3.0	35.7	1.0	-28.3	-13.0	-15.3	
15MHz									
Mid Ch, 1732.5									
3465.00	-5.7	V	3.0	36.0	1.0	-40.8	-13.0	-27.8	
5197.50	7.6	V	3.0	35.4	1.0	-26.8	-13.0	-13.8	
6930.00	2.2	V	3.0	35.7	1.0	-32.5	-13.0	-19.5	
16QAM									
3465.00	-4.7	H	3.0	36.0	1.0	-39.8	-13.0	-26.8	
5197.50	5.0	H	3.0	35.4	1.0	-29.4	-13.0	-16.4	
6930.00	-0.5	H	3.0	35.7	1.0	-35.1	-13.0	-22.1	
High Ch, 1747.5									
3495.00	0.1	V	3.0	36.0	1.0	-35.0	-13.0	-22.0	
5242.50	9.7	V	3.0	35.4	1.0	-24.7	-13.0	-11.7	
6990.00	5.5	V	3.0	35.7	1.0	-29.2	-13.0	-16.2	
3495.00	-2.4	H	3.0	36.0	1.0	-37.4	-13.0	-24.4	
5242.50	7.2	H	3.0	35.4	1.0	-27.2	-13.0	-14.2	
6990.00	4.2	H	3.0	35.7	1.0	-30.5	-13.0	-17.5	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG							
Project #:		15I20232							
Date:		3/25/2015							
Test Engineer:		R.Z							
Configuration:		EUT , AC Adapter and Headset							
Location:		Chamber G							
Mode:		LTE_QPSK Band 4 Harmonics, 15MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1717.5									
Band	3435.00	1.8	V	3.0	36.1	1.0	-33.3	-13.0	-20.3
	5152.50	10.1	V	3.0	35.4	1.0	-24.4	-13.0	-11.4
LTE4	6870.00	8.8	V	3.0	35.7	1.0	-25.8	-13.0	-12.8
	3435.00	0.9	H	3.0	36.1	1.0	-34.2	-13.0	-21.2
	5152.50	10.3	H	3.0	35.4	1.0	-24.1	-13.0	-11.1
15MHz	6870.00	8.2	H	3.0	35.7	1.0	-26.5	-13.0	-13.5
Mid Ch, 1732.5									
QPSK	3465.00	-3.3	V	3.0	36.0	1.0	-38.3	-13.0	-25.3
	5197.50	7.6	V	3.0	35.4	1.0	-26.9	-13.0	-13.9
	6930.00	1.4	V	3.0	35.7	1.0	-33.3	-13.0	-20.3
	3465.00	-3.4	H	3.0	36.0	1.0	-38.4	-13.0	-25.4
	5197.50	3.7	H	3.0	35.4	1.0	-30.7	-13.0	-17.7
	6930.00	2.1	H	3.0	35.7	1.0	-32.6	-13.0	-19.6
High Ch, 1747.5									
	3495.00	0.2	V	3.0	36.0	1.0	-34.8	-13.0	-21.8
	5242.50	9.1	V	3.0	35.4	1.0	-25.3	-13.0	-12.3
	6990.00	6.3	V	3.0	35.7	1.0	-28.4	-13.0	-15.4
	3495.00	0.6	H	3.0	36.0	1.0	-34.4	-13.0	-21.4
	5242.50	6.1	H	3.0	35.4	1.0	-28.4	-13.0	-15.4
	6990.00	5.2	H	3.0	35.7	1.0	-29.5	-13.0	-16.5

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG							
Project #:		15I20232							
Date:		3/25/2015							
Test Engineer:		R.Z							
Configuration:		EUT , AC Adapter and Headset							
Location:		Chamber G							
Mode:		LTE_16QAM Band 4 Harmonics, 10MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1715									
Band	3430.00	2.0	V	3.0	36.1	1.0	-33.0	-13.0	-20.0
	5145.00	10.9	V	3.0	35.4	1.0	-23.6	-13.0	-10.6
LTE4	6860.00	8.4	V	3.0	35.7	1.0	-26.3	-13.0	-13.3
	3430.00	0.4	H	3.0	36.1	1.0	-34.6	-13.0	-21.6
	5145.00	9.6	H	3.0	35.4	1.0	-24.8	-13.0	-11.8
10MHz	6860.00	6.2	H	3.0	35.7	1.0	-28.5	-13.0	-15.5
Mid Ch, 1732.5									
16QAM	3465.00	-5.0	V	3.0	36.0	1.0	-40.1	-13.0	-27.1
	5197.50	4.1	V	3.0	35.4	1.0	-30.3	-13.0	-17.3
	6930.00	0.7	V	3.0	35.7	1.0	-34.0	-13.0	-21.0
	3465.00	-5.0	H	3.0	36.0	1.0	-40.0	-13.0	-27.0
	5197.50	2.6	H	3.0	35.4	1.0	-31.8	-13.0	-18.8
	6930.00	0.0	H	3.0	35.7	1.0	-34.7	-13.0	-21.7
High Ch, 1750									
	3500.00	-0.4	V	3.0	36.0	1.0	-35.4	-13.0	-22.4
	5250.00	10.2	V	3.0	35.4	1.0	-24.2	-13.0	-11.2
	7000.00	6.5	V	3.0	35.7	1.0	-28.2	-13.0	-15.2
	3500.00	0.4	H	3.0	36.0	1.0	-34.6	-13.0	-21.6
	5250.00	9.4	H	3.0	35.4	1.0	-25.1	-13.0	-12.1
	7000.00	6.5	H	3.0	35.7	1.0	-28.2	-13.0	-15.2

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement											
Company:		LG									
Project #:		15I20232									
Date:		3/25/2015									
Test Engineer:		R.Z									
Configuration:		EUT , AC Adapter and Headset									
Location:		Chamber G									
Mode:		LTE_QPSK Band 4 Harmonics, 10MHz Bandwidth									
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	
Band	Low Ch, 1715										
	3430.00	-0.3	V	3.0	36.1	1.0	-35.4	-13.0	-22.4		
	5145.00	10.6	V	3.0	35.4	1.0	-23.9	-13.0	-10.9		
	LTE4	6860.00	7.5	V	3.0	35.7	1.0	-27.2	-13.0	-14.2	
		3430.00	0.1	H	3.0	36.1	1.0	-35.0	-13.0	-22.0	
	10MHz	5145.00	9.3	H	3.0	35.4	1.0	-25.1	-13.0	-12.1	
6860.00		5.8	H	3.0	35.7	1.0	-28.8	-13.0	-15.8		
QPSK	Mid Ch, 1732.5										
	3465.00	-4.5	V	3.0	36.0	1.0	-39.6	-13.0	-26.6		
	5197.50	4.2	V	3.0	35.4	1.0	-30.2	-13.0	-17.2		
	6930.00	-1.6	V	3.0	35.7	1.0	-36.3	-13.0	-23.3		
	3465.00	-5.0	H	3.0	36.0	1.0	-40.0	-13.0	-27.0		
	5197.50	5.9	H	3.0	35.4	1.0	-28.5	-13.0	-15.5		
	High Ch, 1750										
	6930.00	0.1	H	3.0	35.7	1.0	-34.6	-13.0	-21.6		
	3500.00	3.0	V	3.0	36.0	1.0	-32.0	-13.0	-19.0		
	5250.00	9.2	V	3.0	35.4	1.0	-25.2	-13.0	-12.2		
	7000.00	8.8	V	3.0	35.7	1.0	-25.9	-13.0	-12.9		
	3500.00	0.7	H	3.0	36.0	1.0	-34.3	-13.0	-21.3		
	5250.00	7.5	H	3.0	35.4	1.0	-26.9	-13.0	-13.9		
	7000.00	5.9	H	3.0	35.7	1.0	-28.8	-13.0	-15.8		

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG								
Project #:		15I20232								
Date:		3/25/2015								
Test Engineer:		R.Z								
Configuration:		EUT , AC Adapter and Headset								
Location:		Chamber G								
Mode:		LTE_16QAM Band 4 Harmonics, 5MHz Bandwidth								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 1712.5									
Band	3425.00	0.7	V	3.0	36.1	1.0	-34.4	-13.0	-21.4	
	5137.50	10.6	V	3.0	35.4	1.0	-23.8	-13.0	-10.8	
LTE4	6850.00	7.1	V	3.0	35.7	1.0	-27.5	-13.0	-14.5	
	3425.00	0.3	H	3.0	36.1	1.0	-34.8	-13.0	-21.8	
	5137.50	10.0	H	3.0	35.4	1.0	-24.4	-13.0	-11.4	
5MHz	6850.00	6.9	H	3.0	35.7	1.0	-27.8	-13.0	-14.8	
	Mid Ch, 1732.5									
16QAM	3465.00	-6.0	V	3.0	36.0	1.0	-41.0	-13.0	-28.0	
	5197.50	4.2	V	3.0	35.4	1.0	-30.2	-13.0	-17.2	
	6930.00	0.6	V	3.0	35.7	1.0	-34.1	-13.0	-21.1	
	3465.00	-6.2	H	3.0	36.0	1.0	-41.2	-13.0	-28.2	
	5197.50	2.3	H	3.0	35.4	1.0	-32.2	-13.0	-19.2	
	6930.00	-0.2	H	3.0	35.7	1.0	-34.9	-13.0	-21.9	
	High Ch, 1752.5									
	3505.00	-0.5	V	3.0	36.0	1.0	-35.5	-13.0	-22.5	
	5257.50	11.4	V	3.0	35.4	1.0	-23.0	-13.0	-10.0	
	7010.00	5.7	V	3.0	35.7	1.0	-29.0	-13.0	-16.0	
	3505.00	3.1	H	3.0	36.0	1.0	-31.9	-13.0	-18.9	
	5257.50	8.1	H	3.0	35.4	1.0	-26.3	-13.0	-13.3	
	7010.00	6.0	H	3.0	35.7	1.0	-28.7	-13.0	-15.7	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG								
Project #:		15I20232								
Date:		3/25/2015								
Test Engineer:		R.Z								
Configuration:		EUT , AC Adapter and Headset								
Location:		Chamber G								
Mode:		LTE_QPSK Band 4 Harmonics, 5MHz Bandwidth								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band	Low Ch, 1712.5									
	3425.00	0.1	V	3.0	36.1	1.0	-35.0	-13.0	-22.0	
	5137.50	11.9	V	3.0	35.4	1.0	-22.5	-13.0	-9.5	
LTE4	6850.00	9.3	V	3.0	35.7	1.0	-25.3	-13.0	-12.3	
	3425.00	0.0	H	3.0	36.1	1.0	-35.1	-13.0	-22.1	
5MHz	5137.50	9.7	H	3.0	35.4	1.0	-24.7	-13.0	-11.7	
	6850.00	6.1	H	3.0	35.7	1.0	-28.5	-13.0	-15.5	
QPSK	Mid Ch, 1732.5									
	3465.00	-4.5	V	3.0	36.0	1.0	-39.6	-13.0	-26.6	
	5197.50	0.4	V	3.0	35.4	1.0	-34.0	-13.0	-21.0	
	6930.00	-0.5	V	3.0	35.7	1.0	-35.2	-13.0	-22.2	
	3465.00	-4.9	H	3.0	36.0	1.0	-40.0	-13.0	-27.0	
	5197.50	0.5	H	3.0	35.4	1.0	-33.9	-13.0	-20.9	
	High Ch, 1752.5									
	6930.00	0.2	H	3.0	35.7	1.0	-34.5	-13.0	-21.5	
	3505.00	-2.8	V	3.0	36.0	1.0	-37.8	-13.0	-24.8	
	5257.50	11.1	V	3.0	35.4	1.0	-23.4	-13.0	-10.4	
	7010.00	9.2	V	3.0	35.7	1.0	-25.5	-13.0	-12.5	
	3505.00	0.8	H	3.0	36.0	1.0	-34.2	-13.0	-21.2	
	5257.50	7.2	H	3.0	35.4	1.0	-27.2	-13.0	-14.2	
	7010.00	6.7	H	3.0	35.7	1.0	-28.0	-13.0	-15.0	