

LTE Band 26





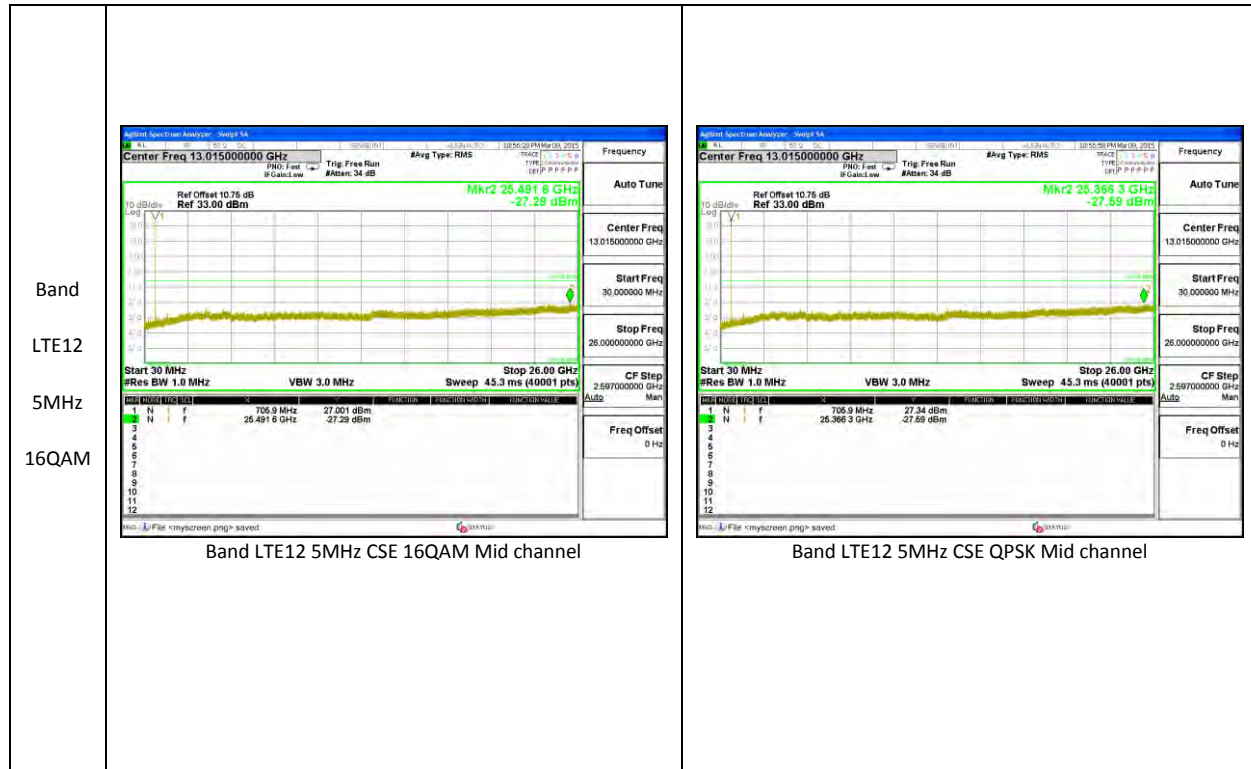
LTE Band 25

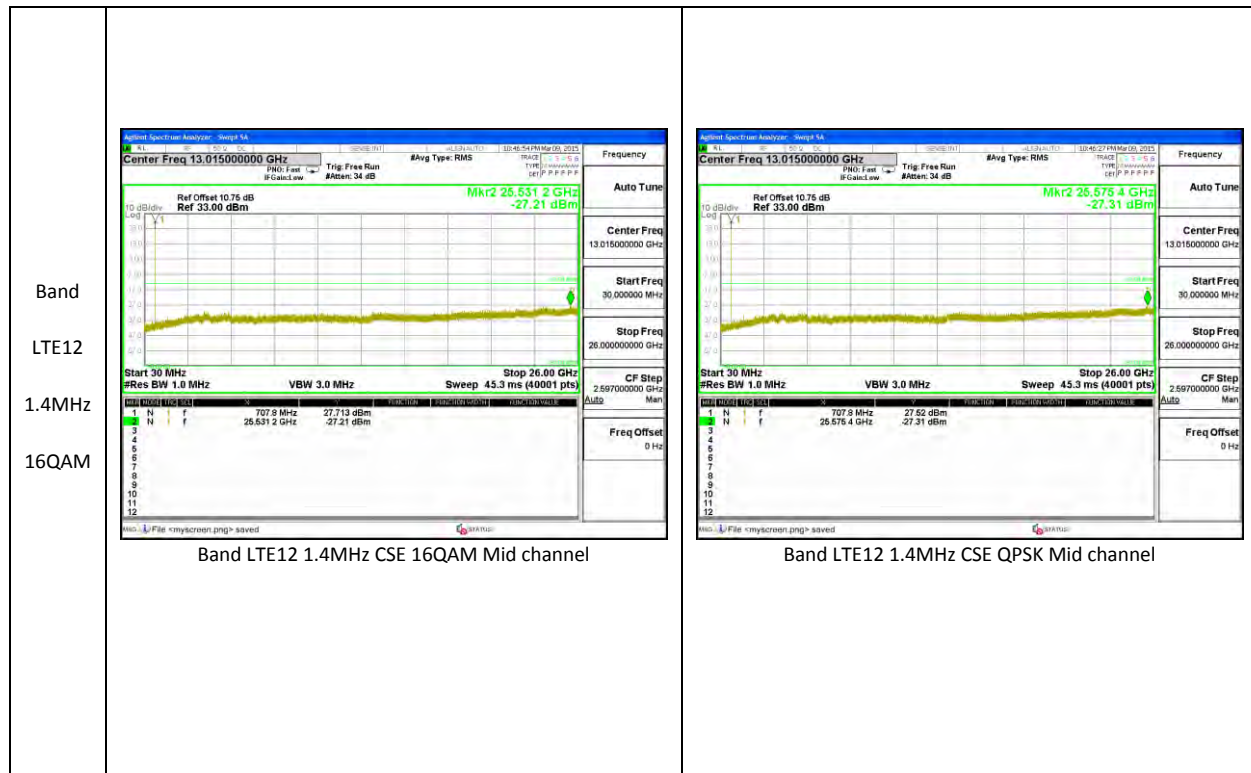
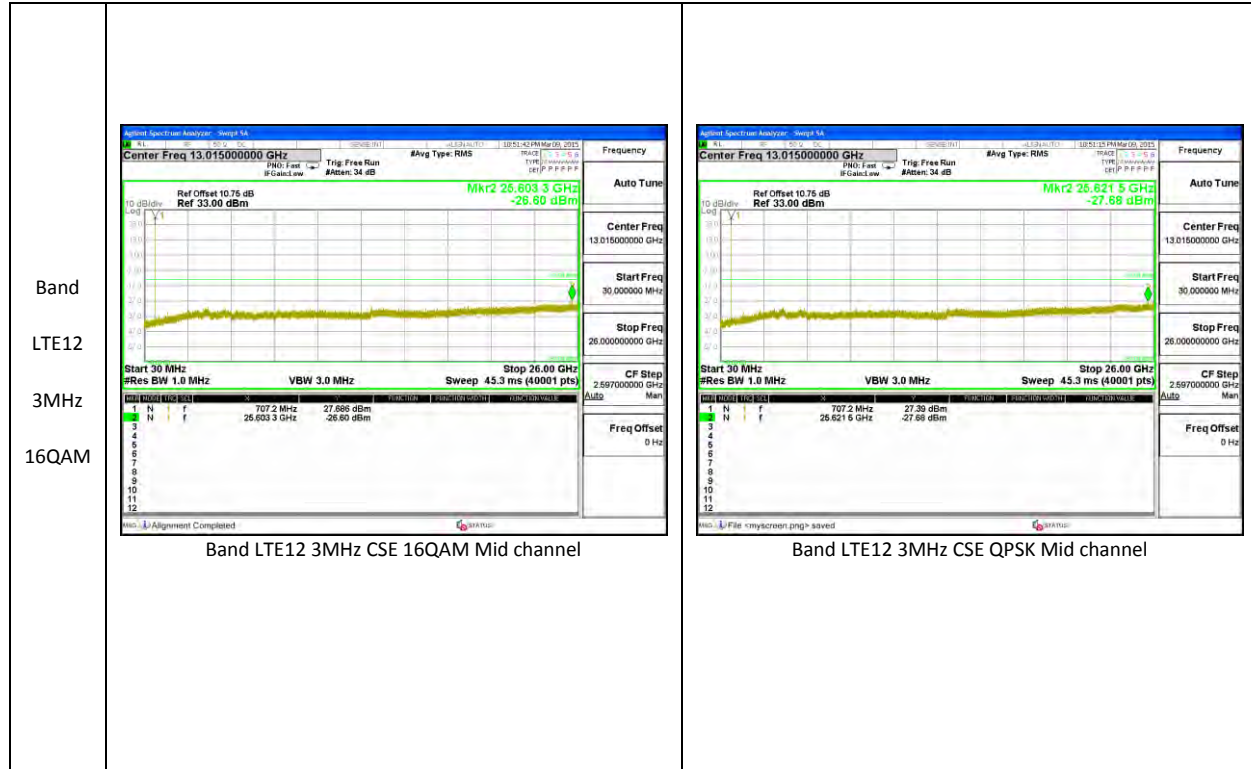




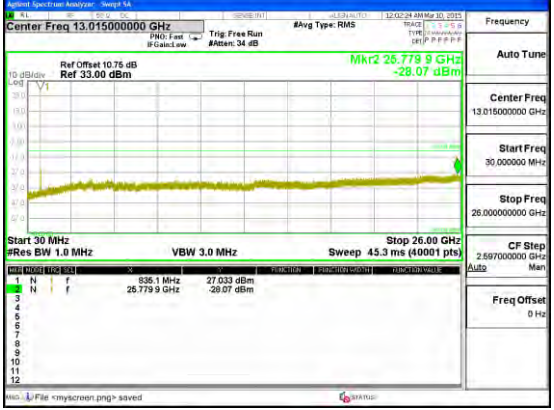
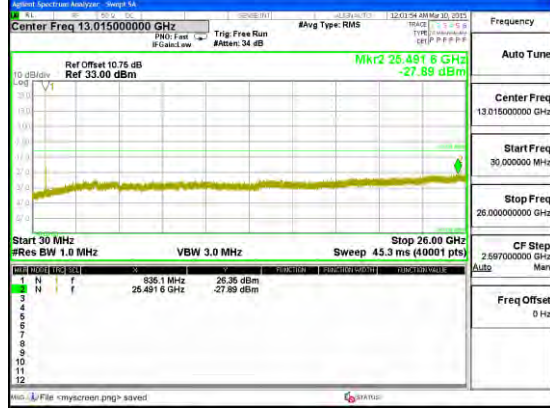


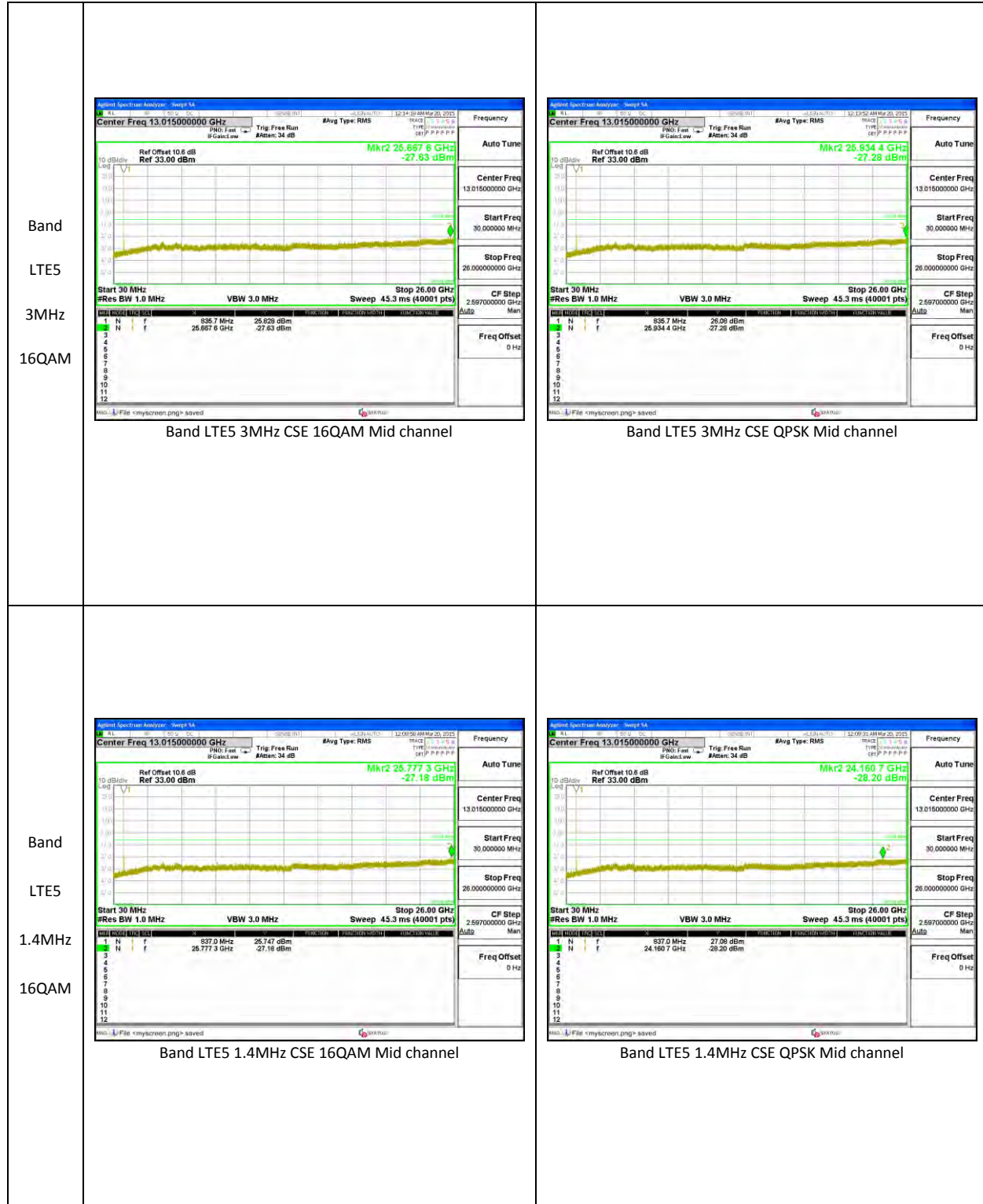
LTE Band 12



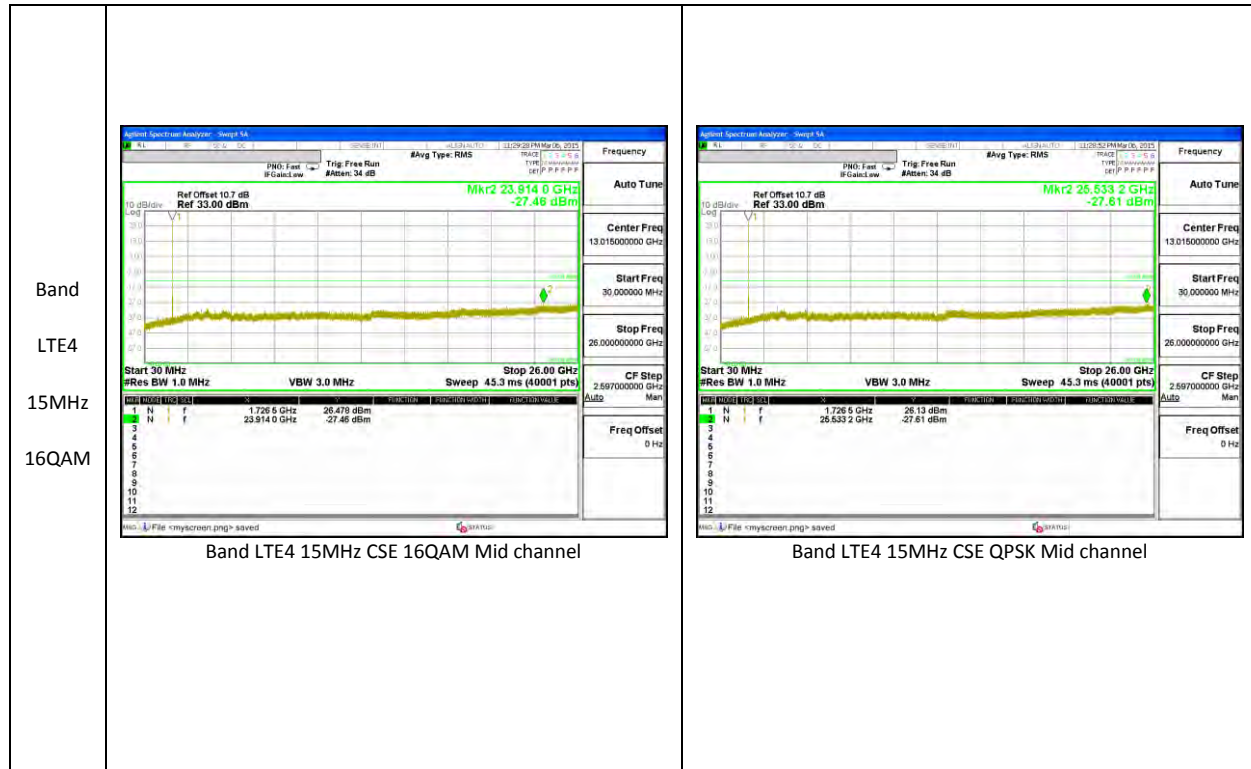


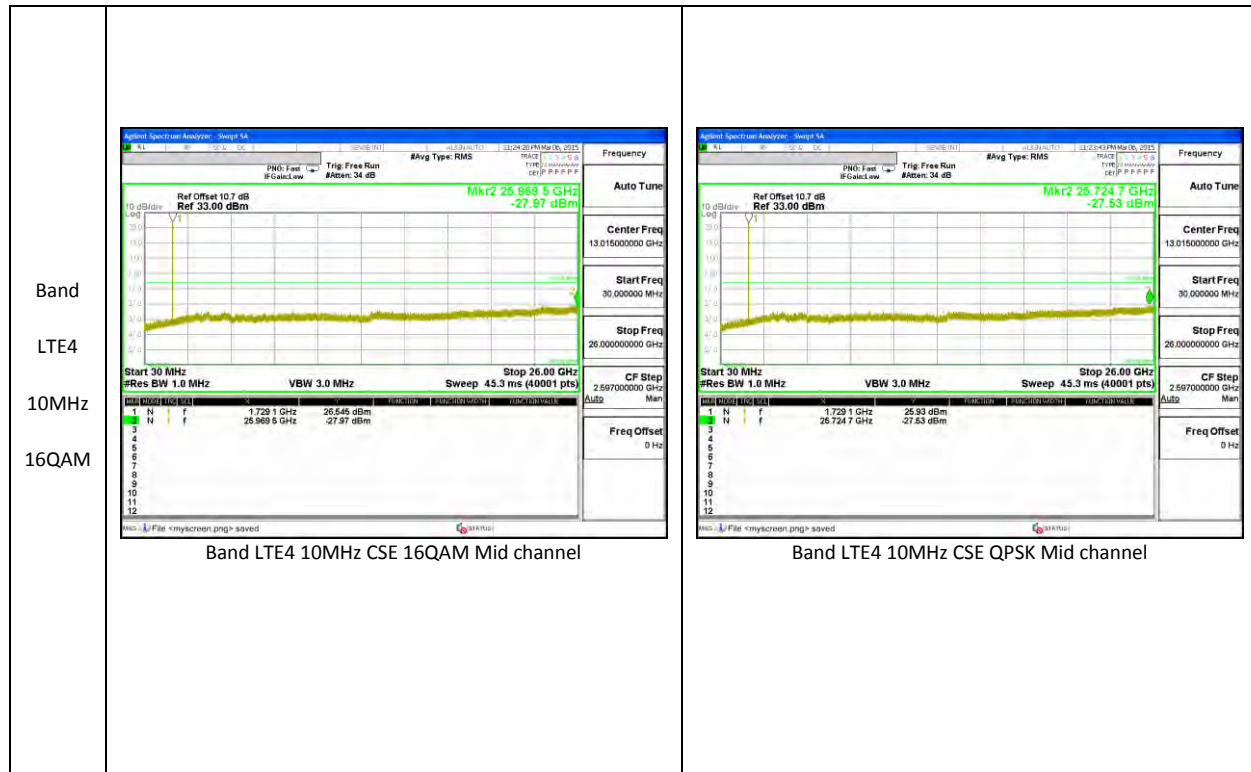
LTE Band 5

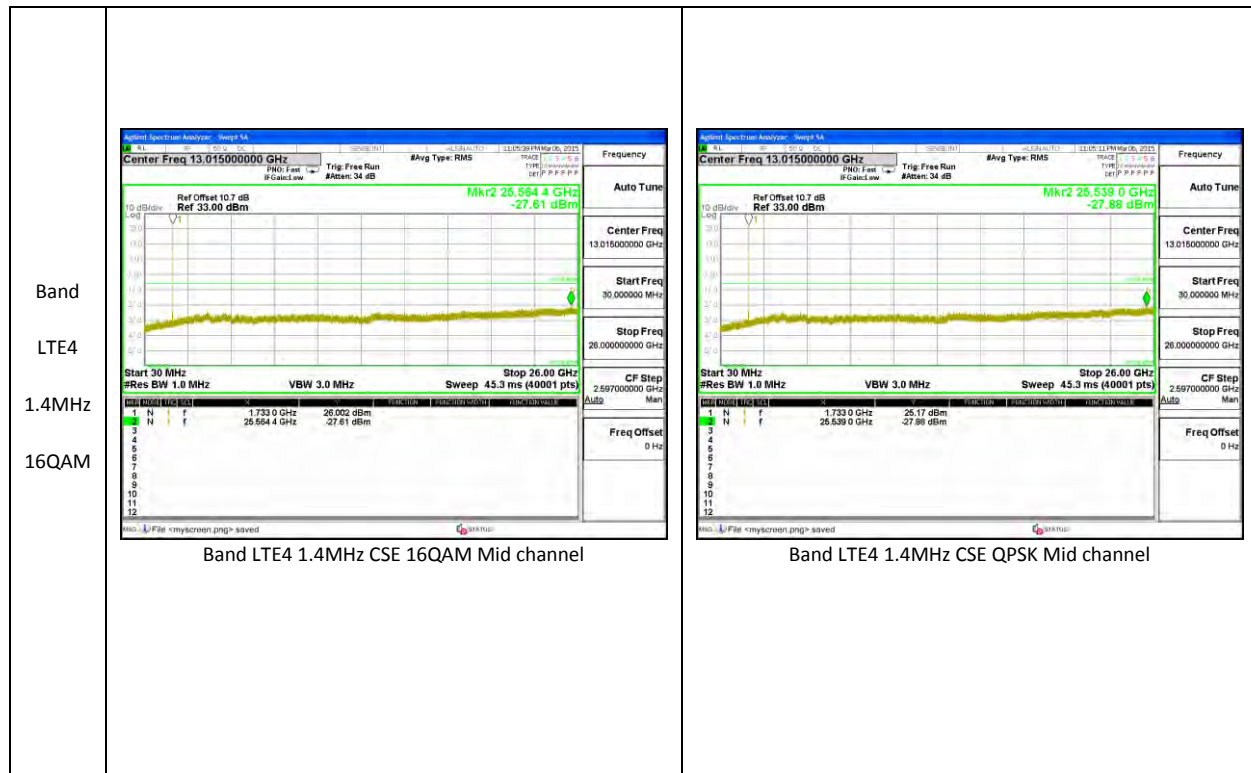
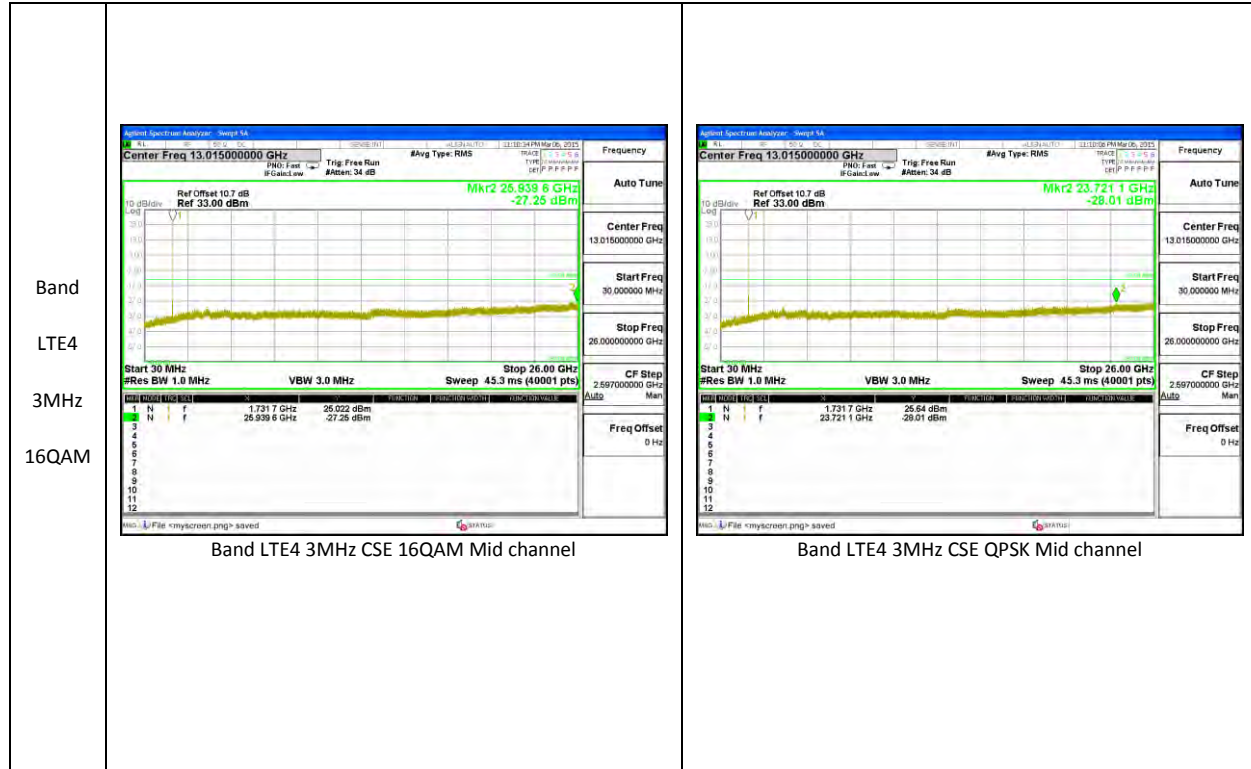
<p>Band LTE5 10MHz 16QAM</p>	 <p>Band LTE5 10MHz CSE 16QAM Mid channel</p>	 <p>Band LTE5 10MHz CSE QPSK Mid channel</p>
<p>Band LTE5 5MHz 16QAM</p>	 <p>Band LTE5 5MHz CSE 16QAM Mid channel</p>	 <p>Band LTE5 5MHz CSE QPSK Mid channel</p>



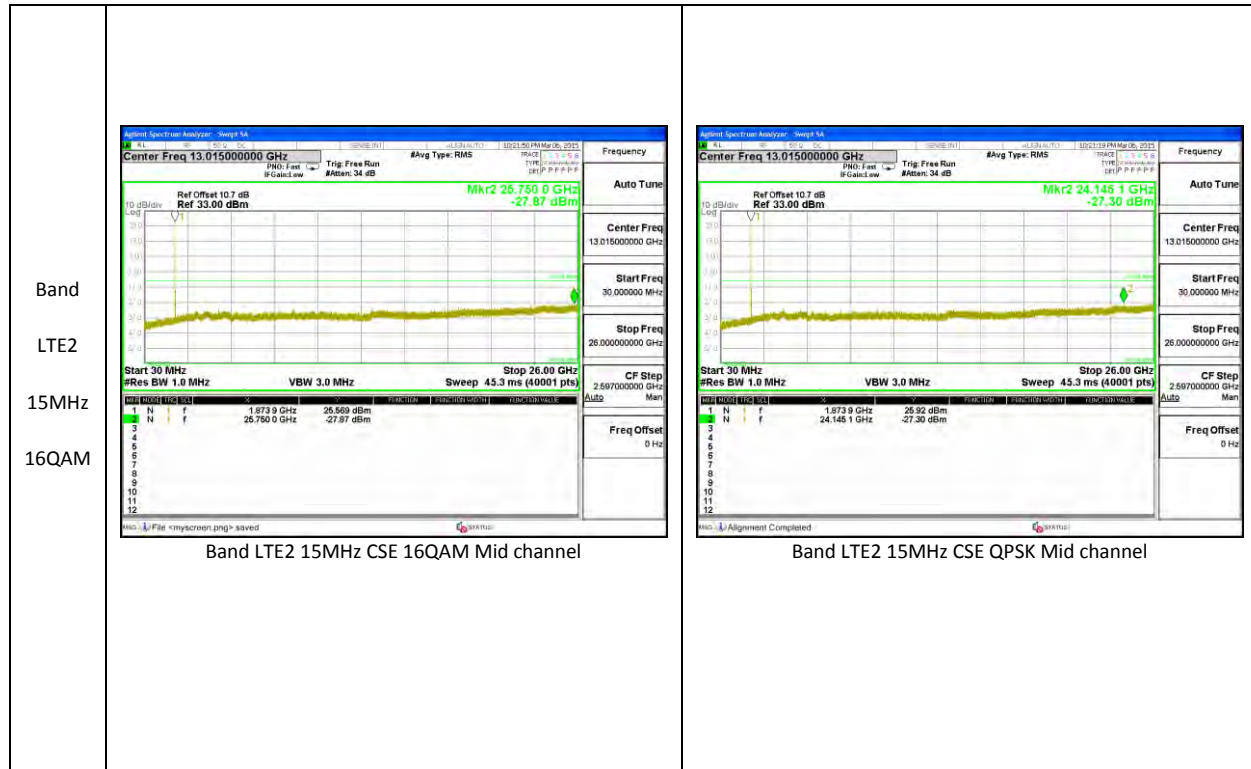
LTE Band 4

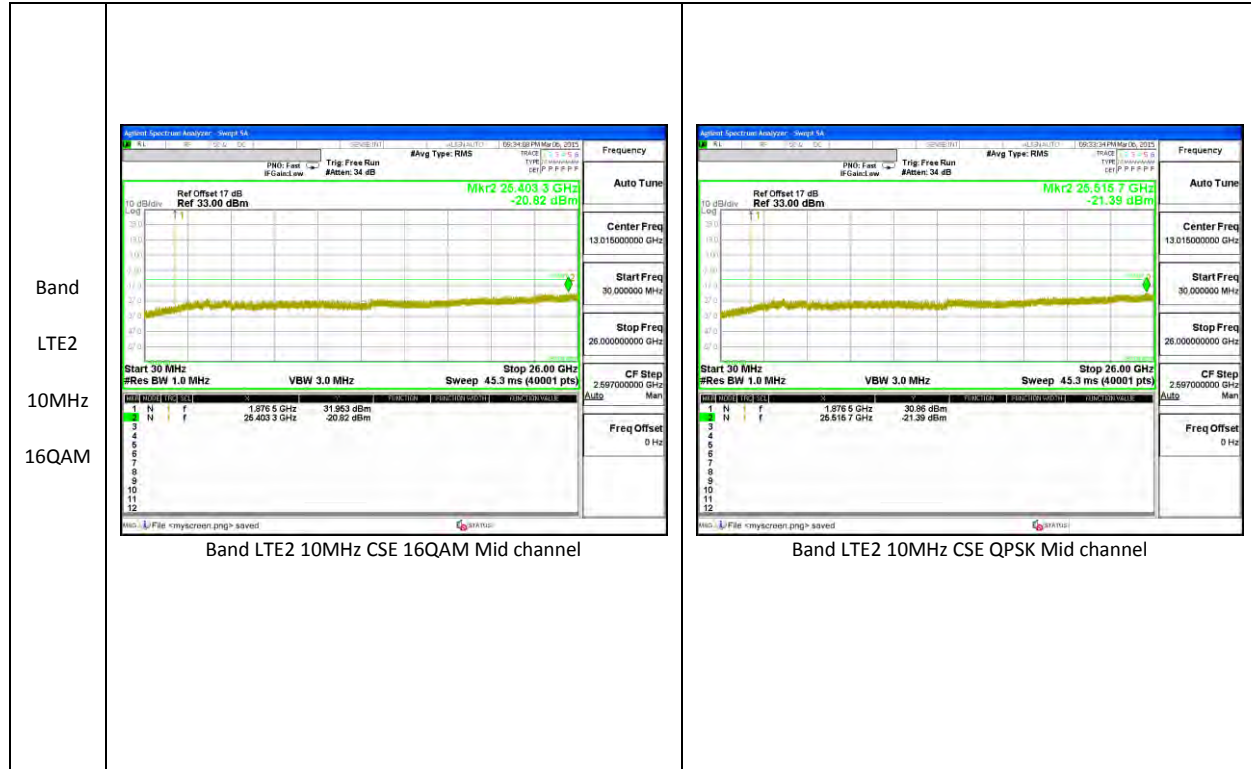






LTE Band 2

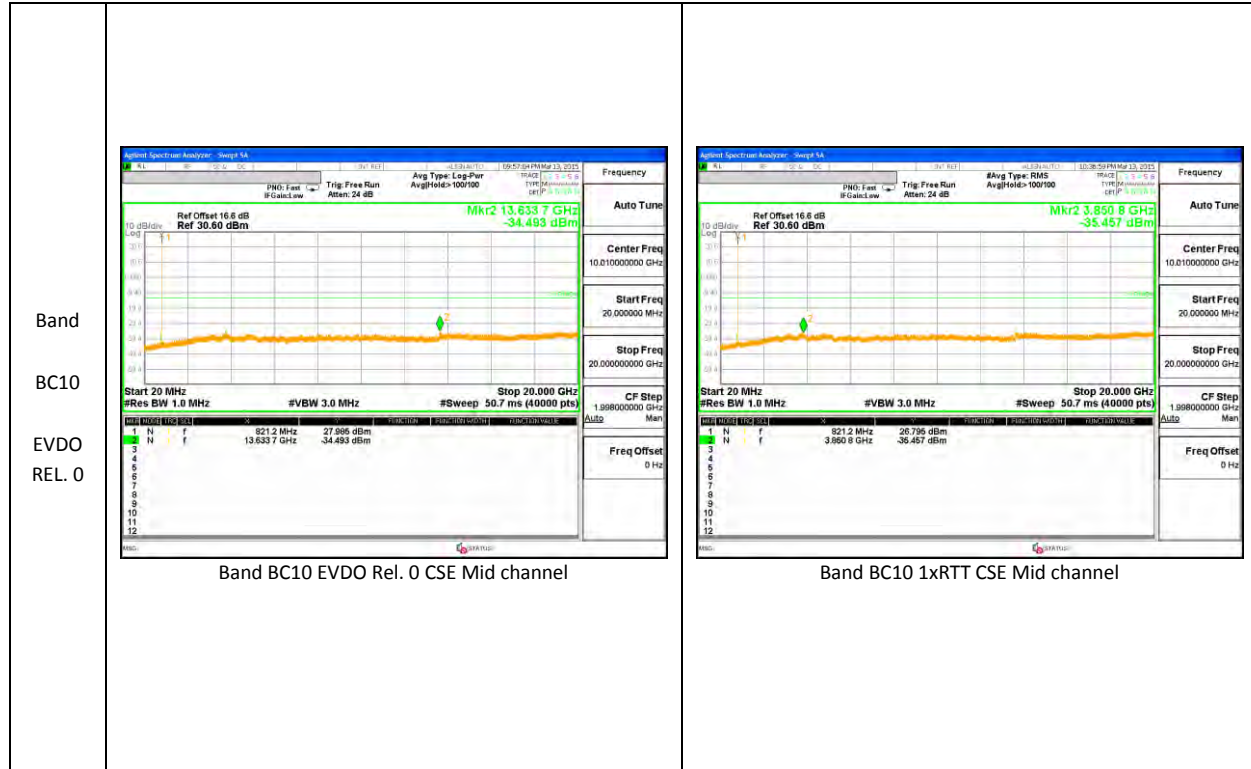




<p>Band LTE2 3MHz 16QAM</p>	<p>Center Freq 13.015000000 GHz Start Freq 30.000000 MHz Stop Freq 26.000000000 GHz Res BW 1.0 MHz VBW 3.0 MHz Sweep 45.3 ms (40001 pts)</p>	<p>Center Freq 13.015000000 GHz Start Freq 30.000000 MHz Stop Freq 26.000000000 GHz Res BW 1.0 MHz VBW 3.0 MHz Sweep 45.3 ms (40001 pts)</p>
<p>Band LTE2 1.4MHz 16QAM</p>	<p>Center Freq 13.015000000 GHz Start Freq 30.000000 MHz Stop Freq 26.000000000 GHz Res BW 1.0 MHz VBW 3.0 MHz Sweep 45.3 ms (40001 pts)</p>	<p>Center Freq 13.015000000 GHz Start Freq 30.000000 MHz Stop Freq 26.000000000 GHz Res BW 1.0 MHz VBW 3.0 MHz Sweep 45.3 ms (40001 pts)</p>

CDMA





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

CDMA, 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 (2593 MHz)

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(c) - (10) Portable stations (hand-held devices) are limited to 3 watts ERP; (LTE B17 & LTE B12)

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

LTE and CDMA

TEST RESULTS

12.1.1. ERP/EIRP Results

Band	Mode	Channel	f(MHz)	ERP / EIRP	
				dBm	mW
BC1	1xRTT	25	1851.25	25.10	323.59
		600	1880	24.73	297.03
		1175	1908.75	25.25	334.73
	EVDO REL. 0	25	1851.25	25.05	319.89
		600	1880	25.66	368.13
		1175	1908.75	25.65	367.28

Band	Mode	Channel	f(MHz)	ERP / EIRP	
				dBm	mW
BC0	1xRTT	1013	824.7	21.27	134.00
		384	836.52	21.60	144.58
		777	848.31	22.80	190.59
	EVDO REL. 0	1013	824.7	21.27	133.97
		384	836.52	21.10	128.82
		777	848.31	21.70	147.91

Band	Mode	Channel	f(MHz)	ERP / EIRP	
				dBm	mW
BC10	1xRTT	476	817.9	21.40	138.07
		580	820.5	21.30	134.93
		684	823.1	22.24	167.53
	EVDO REL. 0	476	817.9	21.03	126.77
		580	820.5	21.00	125.89
		684	823.1	22.00	158.49

12.1.2. LTE ERP/EIRP Results

LTE Band 41

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE41	20	QPSK	1/0	2506	23.38	217.77
			1/0	2593	24.52	282.87
			1/0	2680	25.28	337.29
		16QAM	1/0	2506	22.98	198.61
			1/0	2593	24.12	257.98
			1/0	2680	24.58	287.08
	15	QPSK	1/0	2503.5	23.38	217.77
			1/0	2593	24.92	310.16
			1/0	2682.5	26.08	405.51
		16QAM	1/0	2503.5	22.98	198.61
			1/0	2593	24.62	289.46
			1/0	2682.5	24.48	280.54
	10	QPSK	1/0	2501	24.52	283.14
			1/0	2593	24.12	257.98
			1/0	2685	23.78	238.78
		16QAM	1/0	2501	21.98	157.76
			1/0	2593	23.48	222.63
			1/0	2685	23.72	235.5
	5	QPSK	1/0	2498.5	23.98	250.03
			1/0	2593	24.69	294.16
			1/0	2687.5	25.63	365.59
		16QAM	1/0	2498.5	23.48	222.84
			1/0	2593	24.12	257.98
			1/0	2687.5	24.98	314.77

LTE Band 26

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE26	15	QPSK	1/0	831.5	20.33	107.89
			1/0	836.5	20.33	107.89
			1/0	841.5	21.45	139.64
		16QAM	1/0	831.5	19.99	99.77
			1/0	836.5	19.99	99.77
			1/0	841.5	21.18	131.22
	10	QPSK	1/0	819	20.13	103.04
			1/0	831.5	20.30	107.15
			1/0	844	21.90	154.88
		16QAM	1/0	819	19.82	95.94
			1/0	831.5	19.63	91.83
			1/0	844	21.60	144.54
	5	QPSK	1/0	816.5	20.27	106.41
			1/0	831.5	20.10	102.33
			1/0	846.5	21.76	149.97
		16QAM	1/0	816.5	18.97	78.89
			1/0	831.5	19.00	79.43
			1/0	846.5	20.68	116.95
	3	QPSK	1/0	815.5	20.03	100.69
			1/0	831.5	20.70	117.49
			1/0	847.5	21.75	149.62
		16QAM	1/0	815.5	19.65	92.26
			1/0	831.5	19.90	97.72
			1/0	847.5	20.65	116.14
	1.4	QPSK	1/0	814.7	20.27	106.41
			1/0	831.5	20.10	102.33
			1/0	848.3	21.98	157.76
		16QAM	1/0	814.7	20.15	103.51
			1/0	831.5	20.12	102.8
			1/0	848.3	22.10	162.18

LTE Band 25

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE25	20	QPSK	1/0	1860	25.20	330.79
			1/0	1882.5	25.07	321.39
			1/0	1905	25.56	359.42
		16QAM	1/0	1860	24.11	257.37
			1/0	1882.5	23.96	248.9
			1/0	1905	24.74	297.58
	15	QPSK	1/0	1857.5	25.24	333.85
			1/0	1882.5	25.32	340.43
			1/0	1907.5	25.51	355.3
		16QAM	1/0	1857.5	25.06	320.29
			1/0	1882.5	25.04	319.33
			1/0	1907.5	24.75	298.26
	10	QPSK	1/0	1855	24.84	304.47
			1/0	1882.5	25.82	381.97
			1/0	1910	25.45	350.43
		16QAM	1/0	1855	23.84	241.85
			1/0	1882.5	25.12	325.11
			1/0	1910	24.79	301.02
	5	QPSK	1/0	1852.5	24.64	290.77
			1/0	1882.5	24.92	310.48
			1/0	1912.5	24.45	278.36
		16QAM	1/0	1852.5	23.66	232.03
			1/0	1882.5	24.58	287.1
			1/0	1912.5	23.15	206.35
3	QPSK	1/0	1851.5	24.74	297.54	
		1/0	1882.5	25.15	327.37	
		1/0	1913.5	24.65	291.47	
	16QAM	1/0	1851.5	24.38	273.87	
		1/0	1882.5	24.62	289.76	
		1/0	1913.5	24.25	265.83	

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE25	1.4	QPSK	1/0	1850.7	24.81	302.38
			1/0	1882.5	25.16	328.12
			1/0	1914.3	25.75	375.84
		16QAM	1/0	1850.7	24.54	284.15
			1/0	1882.5	24.96	313.35
			1/0	1914.3	24.54	284.45

LTE Band 12

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE12	10	QPSK	1/0	704	18.66	73.45
			1/0	707.5	19.30	85.11
			1/0	711	19.40	87.1
		16QAM	1/0	704	18.34	68.23
			1/0	707.5	18.70	74.13
			1/0	711	18.58	72.11
	5	QPSK	1/0	701.5	18.40	69.18
			1/0	707.5	18.70	74.13
			1/0	713.5	19.16	82.41
		16QAM	1/0	701.5	17.38	54.7
			1/0	707.5	17.80	60.26
			1/0	713.5	17.80	60.26
	3	QPSK	1/0	700.5	18.70	74.13
			1/0	707.5	19.24	83.95
			1/0	714.5	19.25	84.14
		16QAM	1/0	700.5	18.40	69.18
			1/0	707.5	18.86	76.91
			1/0	714.5	18.82	76.21
	1.4	QPSK	1/0	699.7	18.46	70.15
			1/0	707.5	19.10	81.28
			1/0	715.3	19.40	87.1
		16QAM	1/0	699.7	17.90	61.66
			1/0	707.5	18.87	77.09
			1/0	715.3	17.90	61.66

LTE Band 5

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE5	10	QPSK	1/0	829	20.52	112.72
			1/0	836.5	20.48	111.69
			1/0	844	21.98	157.76
		16QAM	1/0	829	20.04	100.93
			1/0	836.5	19.68	92.9
			1/0	844	21.68	147.23
	5	QPSK	1/0	826.5	19.97	99.31
			1/0	836.5	20.07	101.62
			1/0	846.5	21.58	143.88
		16QAM	1/0	826.5	19.07	80.72
			1/0	836.5	19.20	83.18
			1/0	846.5	20.56	113.76
	3	QPSK	1/0	825.5	21.04	127.06
			1/0	836.5	20.83	121.06
			1/0	847.5	21.98	157.76
		16QAM	1/0	825.5	20.00	100
			1/0	836.5	20.58	114.29
			1/0	847.5	20.90	123.03
	1.4	QPSK	1/0	824.7	20.37	108.89
			1/0	836.5	20.47	111.43
			1/0	848.3	21.87	153.82
		16QAM	1/0	824.7	20.07	101.62
			1/0	836.5	20.36	108.64
			1/0	848.3	21.47	140.28

LTE Band 4

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE4	20	QPSK	1/0	1720	23.62	230.04
			1/0	1732.5	23.49	223.53
			1/0	1745	23.80	239.97
		16QAM	1/0	1720	22.37	172.51
			1/0	1732.5	22.17	164.94
			1/0	1745	23.07	202.84
	15	QPSK	1/0	1717.5	23.70	234.32
			1/0	1732.5	23.38	217.63
			1/0	1747.5	23.63	230.75
		16QAM	1/0	1717.5	23.07	202.68
			1/0	1732.5	22.38	172.87
			1/0	1747.5	22.87	193.71
	10	QPSK	1/0	1715	22.83	191.78
			1/0	1732.5	23.38	217.63
			1/0	1750	23.97	249.55
		16QAM	1/0	1715	22.47	176.52
			1/0	1732.5	23.28	212.68
			1/0	1750	23.82	241.07

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE4	5	QPSK	1/0	1712.5	23.77	238.13
			1/0	1732.5	23.18	207.84
			1/0	1752.5	23.27	212.4
		16QAM	1/0	1712.5	23.07	202.68
			1/0	1732.5	23.43	220.15
			1/0	1752.5	22.57	180.78
	3	QPSK	1/0	1711.5	23.64	231.1
			1/0	1732.5	23.43	220.15
			1/0	1753.5	23.50	223.95
		16QAM	1/0	1711.5	22.97	198.06
			1/0	1732.5	22.78	189.55
			1/0	1753.5	22.79	190.17
	1.4	QPSK	1/0	1710.7	23.20	208.84
			1/0	1732.5	23.24	210.73
			1/0	1754.3	23.77	238.31
		16QAM	1/0	1710.7	22.11	162.48
			1/0	1732.5	22.55	179.77
			1/0	1754.3	24.47	279.99

LTE Band 2

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE2	20	QPSK	1/0	1860	25.50	354.45
			1/0	1880	25.60	363.11
			1/0	1900	25.55	358.59
		16QAM	1/0	1860	25.00	315.9
			1/0	1880	24.32	270.42
			1/0	1900	24.85	305.21
	15	QPSK	1/0	1857.5	25.64	366.06
			1/0	1880	25.42	348.36
			1/0	1902.5	25.78	378.09
		16QAM	1/0	1857.5	24.99	315.17
			1/0	1880	24.81	302.85
			1/0	1902.5	25.75	375.84
	10	QPSK	1/0	1855	25.48	352.82
			1/0	1880	25.28	337.31
			1/0	1905	25.49	353.92
		16QAM	1/0	1855	25.27	336.16
			1/0	1880	24.92	310.48
			1/0	1905	25.51	355.3
	5	QPSK	1/0	1852.5	25.50	366.06
			1/0	1880	25.60	310.48
			1/0	1907.5	25.55	298.26
		16QAM	1/0	1852.5	25.00	318.82
			1/0	1880	24.32	264.26
			1/0	1907.5	24.85	242.44

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE2	3	QPSK	1/0	1851.5	25.44	349.58
			1/0	1880	25.28	337.31
			1/0	1908.5	25.17	328.55
		16QAM	1/0	1851.5	25.12	324.75
			1/0	1880	24.68	293.79
			1/0	1908.5	24.45	278.36
	1.4	QPSK	1/0	1850.7	25.28	336.94
			1/0	1880	24.52	283.16
			1/0	1909.3	25.22	332.35
		16QAM	1/0	1850.7	24.93	310.85
			1/0	1880	24.12	258.25
			1/0	1909.3	24.77	299.64

12.1.3. ERP/EIRP PLOTS

LTE Band 41

Band LTE41 20MHz 16QAM	High Frequency Substitution Measurement UL Verification Services, Inc.																																																																																																	
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LTE Band 12

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LTE Band 4

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MHz		(dBm)	(H/V)	(dB)	(dBi)	(dBm)	(dBm)	(dB)	
Low Ch									
1712.50		13.94	V	0.9	8.4	21.43	30.0	-8.6	
1712.50		15.57	H	0.9	8.4	23.07	30.0	-6.9	
Mid Ch									
1732.50		13.07	V	0.9	8.6	20.77	30.0	-9.2	
1732.50		15.72	H	0.9	8.6	23.43	30.0	-6.6	
High Ch									
1752.50		12.80	V	0.9	8.8	20.72	30.0	-9.3	
1752.50		14.65	H	0.9	8.8	22.57	30.0	-7.4	

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LTE Band 2

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CDMA

Band BC1	High Frequency Fundamental Measurement UL Verification Services Chamber G								
	Company:		LG Electronics						
	Project #:		15I20150						
	Date:		03/06/15						
	Test Engineer:		R. Z						
	Configuration:		EUT only						
	Mode:		CDMA EVDO BC1						
	Test Equipment:								
	Receiving: Horn T862, and Chamber G SMA Cables								
	Substitution: Horn T60 Substitution, 4ft SMA Cable Warehouse								
	f	SG reading	Ant. Pol.	Cable Loss	Antenna Gain	EIRP	Limit	Delta	Notes
	GHz	(dBm)	(H/V)	(dB)	(dBi)	(dBm)	(dBm)	(dB)	
	Low Ch								
	1.85125	16.6	V	0.85	9.20	24.97	33.0	-8.0	
	1.85125	16.7	H	0.85	9.20	25.05	33.0	-8.0	
	Mid Ch								
	1.880	16.2	V	0.85	9.10	24.40	33.0	-8.6	
	1.880	17.4	H	0.85	9.10	25.66	33.0	-7.3	
	High Ch								
	1.90875	15.6	V	0.85	9.00	23.75	33.0	-9.3	
	1.90875	17.5	H	0.85	9.00	25.65	33.0	-7.4	
	Rev. 3.17.11								

Band BC1 1xRTT	High Frequency Fundamental Measurement UL Verification Services Chamber G																																																																																																
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12.2. ADDITIONAL TESTS (Phone with Smart Case and Stylus Pen)

12.2.1. RADIATED POWER (ERP & EIRP) WITH SMART COVER

12.2.1.1. CDMA (MID CHANNEL ONLY)

Band BC1 1xRTT	High Frequency Fundamental Measurement UL Verification Services Chamber G																																											
	Company:		LG Electronics																																									
	Project #:		15I20150																																									
	Date:		03/06/15																																									
	Test Engineer:		R. Z																																									
	Configuration:		EUT only																																									
	Mode:		CDMA RTT BC1																																									
	Test Equipment:																																											
	Receiving: Horn T862, and Chamber G SMA Cables																																											
	Substitution: Horn T60 Substitution, 4ft SMA Cable Warehouse																																											
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Band BC0 1xRTT	<div style="text-align: center; border: 1px solid black; margin-bottom: 10px;"> High Frequency Substitution Measurement UL Verification Services Chamber G </div> <p> Company: LG Project #: 15I20150 Date: 3/9/2015 Test Engineer: R.Z Configuration: EUT Only Mode: CDMA RTT BC0 </p> <p> Test Equipment: Receiving: T899, and Chamber G Cable Substitution: Dipole T273, 6ft SMA Cable </p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th>f MHz</th> <th>SG reading (dBm)</th> <th>Ant. Pol. (H/V)</th> <th>Cable Loss (dB)</th> <th>Antenna Gain (dBd)</th> <th>ERP (dBm)</th> <th>Limit (dBm)</th> <th>Margin (dB)</th> <th>Notes</th> </tr> </thead> <tbody> <tr> <td>Mid Ch</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>836.52</td> <td>17.08</td> <td>V</td> <td>0.9</td> <td>0.0</td> <td>16.18</td> <td>38.5</td> <td>-22.3</td> <td></td> </tr> <tr> <td>836.52</td> <td>22.80</td> <td>H</td> <td>0.9</td> <td>0.0</td> <td>21.90</td> <td>38.5</td> <td>-16.5</td> <td></td> </tr> </tbody> </table> <p>Rev. 3.9.15</p>	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Margin (dB)	Notes	Mid Ch									836.52	17.08	V	0.9	0.0	16.18	38.5	-22.3		836.52	22.80	H	0.9	0.0	21.90	38.5	-16.5	
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Band BC10 1xRTT	<p>High Frequency Substitution Measurement UL Verification Services Chamber G</p> <p>Company: LG Project #: 15I20150 Date: 3/9/2015 Test Engineer: R.Z Configuration: EUT Only Mode: CDMA RTT BC10</p> <p>Test Equipment: Receiving: T899, and Chamber G Cable Substitution: Dipole T273, 6ft SMA Cable</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th>f MHz</th> <th>SG reading (dBm)</th> <th>Ant. Pol. (H/V)</th> <th>Cable Loss (dB)</th> <th>Antenna Gain (dBd)</th> <th>ERP (dBm)</th> <th>Limit (dBm)</th> <th>Margin (dB)</th> <th>Notes</th> </tr> </thead> <tbody> <tr> <td>Mid Ch</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>820.50</td> <td>17.10</td> <td>V</td> <td>0.9</td> <td>0.0</td> <td>16.20</td> <td>38.5</td> <td>-22.2</td> <td></td> </tr> <tr> <td>820.50</td> <td>22.50</td> <td>H</td> <td>0.9</td> <td>0.0</td> <td>21.60</td> <td>38.5</td> <td>-16.8</td> <td></td> </tr> </tbody> </table> <p>Rev. 3.9.15</p>	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Margin (dB)	Notes	Mid Ch									820.50	17.10	V	0.9	0.0	16.20	38.5	-22.2		820.50	22.50	H	0.9	0.0	21.60	38.5	-16.8	
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12.2.1.2. LTE (MID CHANNEL ONLY)

Band LTE41 5MHz QPSK	<div style="text-align: center; border: 1px solid black; padding: 5px; margin-bottom: 10px;"> High Frequency Substitution Measurement UL Verification Services, Inc. </div> <p> Company: LG Project #: 15I20150 Date: 3/6/2015 Test Engineer: R.Z Configuration: EUT ONLY Location: Chamber G Mode: LTE_QPSK Band 41 Fundamentals, 5MHz Bandwidth </p> <p> Test Equipment: Receiving: Horn T862, and Chamber G SMA Cables Substitution: Horn T60, 6ft SMA Cable </p> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th style="text-align: center;">f MHz</th> <th style="text-align: center;">SG reading (dBm)</th> <th style="text-align: center;">Ant. Pol. (H/V)</th> <th style="text-align: center;">Cable Loss (dB)</th> <th style="text-align: center;">Antenna Gain (dBi)</th> <th style="text-align: center;">EIRP (dBm)</th> <th style="text-align: center;">Limit (dBm)</th> <th style="text-align: center;">Delta (dB)</th> <th style="text-align: center;">Notes</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">Mid Ch</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td style="text-align: center;">2593.00</td> <td style="text-align: center;">13.83</td> <td style="text-align: center;">V</td> <td style="text-align: center;">0.9</td> <td style="text-align: center;">9.5</td> <td style="text-align: center;">22.44</td> <td style="text-align: center;">33.0</td> <td style="text-align: center;">-10.6</td> <td></td> </tr> <tr> <td style="text-align: center;">2593.00</td> <td style="text-align: center;">16.71</td> <td style="text-align: center;">H</td> <td style="text-align: center;">0.9</td> <td style="text-align: center;">9.5</td> <td style="text-align: center;">25.32</td> <td style="text-align: center;">33.0</td> <td style="text-align: center;">-7.7</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	Mid Ch									2593.00	13.83	V	0.9	9.5	22.44	33.0	-10.6		2593.00	16.71	H	0.9	9.5	25.32	33.0	-7.7	
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Band LTE41 5MHz 16QAM	<p>High Frequency Substitution Measurement UL Verification Services, Inc.</p> <p>Company: LG Project #: 15I20150 Date: 3/6/2015 Test Engineer: R.Z Configuration: EUT ONLY Location: Chamber G Mode: LTE_16QAM Band 41 Fundamentals, 5MHz Bandwidth</p> <p>Test Equipment: Receiving: Horn T862, and Chamber G SMA Cables Substitution: Horn T60, 6ft SMA Cable</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <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>Mid Ch</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>2593.00</td> <td>13.43</td> <td>V</td> <td>0.9</td> <td>9.5</td> <td>22.04</td> <td>33.0</td> <td>-11.0</td> <td></td> </tr> <tr> <td>2593.00</td> <td>16.01</td> <td>H</td> <td>0.9</td> <td>9.5</td> <td>24.62</td> <td>33.0</td> <td>-8.4</td> <td></td> </tr> </tbody> </table>	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	Mid Ch									2593.00	13.43	V	0.9	9.5	22.04	33.0	-11.0		2593.00	16.01	H	0.9	9.5	24.62	33.0	-8.4	
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Band LTE12 1.4MHz QPSK	<p>High Frequency Substitution Measurement UL Verification Services, Inc.</p> <p>Company: LG Electronics Project #: 15I20150 Date: 3/9/2015 Test Engineer: R.Z Configuration: EUT only Location: Chamber G Mode: LTE_QPSK Band 12 Fundamentals, 1.4MHz Bandwidth</p> <p>Test Equipment: Receiving: Hybrid T899, and Chamber G SMA Cables Substitution: Dipole T273, 6ft SMA Cable</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th>f MHz</th> <th>SG reading (dBm)</th> <th>Ant. Pol. (H/V)</th> <th>Cable Loss (dB)</th> <th>Antenna Gain (dBd)</th> <th>ERP (dBm)</th> <th>Limit (dBm)</th> <th>Delta (dB)</th> <th>Notes</th> </tr> </thead> <tbody> <tr> <td>Mid Ch</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>707.50</td> <td>12.70</td> <td>V</td> <td>0.9</td> <td>0.0</td> <td>11.80</td> <td>38.5</td> <td>-26.7</td> <td></td> </tr> <tr> <td>707.50</td> <td>20.60</td> <td>H</td> <td>0.9</td> <td>0.0</td> <td>19.70</td> <td>38.5</td> <td>-18.8</td> <td></td> </tr> </tbody> </table>	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes	Mid Ch									707.50	12.70	V	0.9	0.0	11.80	38.5	-26.7		707.50	20.60	H	0.9	0.0	19.70	38.5	-18.8	
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Band LTE12 1.4MHz 16QAM	<p>High Frequency Substitution Measurement UL Verification Services, Inc.</p> <p>Company: LG Electronics Project #: 15I20150 Date: 3/9/2015 Test Engineer: R.Z Configuration: EUT only Location: Chamber G Mode: LTE_16QAM Band 12 Fundamentals, 1.4MHz Bandwidth</p> <p>Test Equipment: Receiving: Hybrid T899, and Chamber G SMA Cables Substitution: Dipole T273, 6ft SMA Cable</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th>f MHz</th> <th>SG reading (dBm)</th> <th>Ant. Pol. (H/V)</th> <th>Cable Loss (dB)</th> <th>Antenna Gain (dBd)</th> <th>ERP (dBm)</th> <th>Limit (dBm)</th> <th>Delta (dB)</th> <th>Notes</th> </tr> </thead> <tbody> <tr> <td>Mid Ch</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>707.50</td> <td>12.00</td> <td>V</td> <td>0.9</td> <td>0.0</td> <td>11.10</td> <td>38.5</td> <td>-27.4</td> <td></td> </tr> <tr> <td>707.50</td> <td>20.80</td> <td>H</td> <td>0.9</td> <td>0.0</td> <td>19.90</td> <td>38.5</td> <td>-18.6</td> <td></td> </tr> </tbody> </table>	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes	Mid Ch									707.50	12.00	V	0.9	0.0	11.10	38.5	-27.4		707.50	20.80	H	0.9	0.0	19.90	38.5	-18.6	
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Band LTE5 1.4MHz QPSK	<p>High Frequency Substitution Measurement UL Verification Services, Inc.</p> <p>Company: LG Project #: 15I20150 Date: 3/9/2015 Test Engineer: R.Z Configuration: EUT Only Location: Chamber G Mode: LTE_QPSK Band 5 Fundamentals, 1.4MHz Bandwidth</p> <p>Test Equipment: Receiving: Hybrid T899, and Chamber G SMA Cables Substitution: Dipole T273, 6ft SMA Cable</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th>f MHz</th> <th>SG reading (dBm)</th> <th>Ant. Pol. (H/V)</th> <th>Cable Loss (dB)</th> <th>Antenna Gain (dBd)</th> <th>ERP (dBm)</th> <th>Limit (dBm)</th> <th>Delta (dB)</th> <th>Notes</th> </tr> </thead> <tbody> <tr> <td>Mid Ch</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>836.50</td> <td>16.94</td> <td>V</td> <td>0.9</td> <td>0.0</td> <td>16.04</td> <td>38.5</td> <td>-22.5</td> <td></td> </tr> <tr> <td>836.50</td> <td>22.10</td> <td>H</td> <td>0.9</td> <td>0.0</td> <td>21.20</td> <td>38.5</td> <td>-17.3</td> <td></td> </tr> </tbody> </table>	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes	Mid Ch									836.50	16.94	V	0.9	0.0	16.04	38.5	-22.5		836.50	22.10	H	0.9	0.0	21.20	38.5	-17.3	
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Band LTE5 1.4MHz 16QAM	<p>High Frequency Substitution Measurement UL Verification Services, Inc.</p> <p>Company: LG Project #: 15I20150 Date: 3/9/2015 Test Engineer: R.Z Configuration: EUT Only Location: Chamber G Mode: LTE_16QAM Band 5 Fundamentals, 1.4MHz Bandwidth</p> <p>Test Equipment: Receiving: Hybrid T899, and Chamber G SMA Cables Substitution: Dipole T273, 6ft SMA Cable</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th>f MHz</th> <th>SG reading (dBm)</th> <th>Ant. Pol. (H/V)</th> <th>Cable Loss (dB)</th> <th>Antenna Gain (dBd)</th> <th>ERP (dBm)</th> <th>Limit (dBm)</th> <th>Delta (dB)</th> <th>Notes</th> </tr> </thead> <tbody> <tr> <td>Mid Ch</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>836.50</td> <td>16.26</td> <td>V</td> <td>0.9</td> <td>0.0</td> <td>15.36</td> <td>38.5</td> <td>-23.1</td> <td></td> </tr> <tr> <td>836.50</td> <td>22.00</td> <td>H</td> <td>0.9</td> <td>0.0</td> <td>21.10</td> <td>38.5</td> <td>-17.4</td> <td></td> </tr> </tbody> </table>	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes	Mid Ch									836.50	16.26	V	0.9	0.0	15.36	38.5	-23.1		836.50	22.00	H	0.9	0.0	21.10	38.5	-17.4	
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Band LTE4 1.4MHz QPSK	<p>High Frequency Substitution Measurement UL Verification Services, Inc.</p> <p>Company: LG Project #: 15I20150 Date: 3/5/2015 Test Engineer: R.Z Configuration: EUT Only Location: Chamber G Mode: LTE_QPSK Band 4 Fundamentals, 1.4MHz Bandwidth</p> <p>Test Equipment: Receiving: Horn T862, and Chamber G SMA Cables Substitution: Horn T60, 4ft SMA Cable</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <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>Mid Ch</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>1732.50</td> <td>15.45</td> <td>V</td> <td>0.9</td> <td>8.6</td> <td>23.15</td> <td>30.0</td> <td>-6.8</td> <td></td> </tr> <tr> <td>1732.50</td> <td>16.57</td> <td>H</td> <td>0.9</td> <td>8.6</td> <td>24.28</td> <td>30.0</td> <td>-5.7</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	Mid Ch									1732.50	15.45	V	0.9	8.6	23.15	30.0	-6.8		1732.50	16.57	H	0.9	8.6	24.28	30.0	-5.7	
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1732.50	15.45	V	0.9	8.6	23.15	30.0	-6.8																														
1732.50	16.57	H	0.9	8.6	24.28	30.0	-5.7																														

Band LTE4 1.4MHz 16QAM	<p>High Frequency Substitution Measurement UL Verification Services, Inc.</p> <p>Company: LG Project #: 15I20150 Date: 3/5/2015 Test Engineer: R.Z Configuration: EUT Only Location: Chamber G Mode: LTE_16QAM Band 4 Fundamentals, 1.4MHz Bandwidth</p> <p>Test Equipment: Receiving: Horn T862, and Chamber G SMA Cables Substitution: Horn T60, 4ft SMA Cable</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <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>Mid Ch</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>1732.50</td> <td>14.17</td> <td>V</td> <td>0.9</td> <td>8.6</td> <td>21.87</td> <td>30.0</td> <td>-8.1</td> <td></td> </tr> <tr> <td>1732.50</td> <td>15.77</td> <td>H</td> <td>0.9</td> <td>8.6</td> <td>23.48</td> <td>30.0</td> <td>-6.5</td> <td></td> </tr> </tbody> </table>	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	Mid Ch									1732.50	14.17	V	0.9	8.6	21.87	30.0	-8.1		1732.50	15.77	H	0.9	8.6	23.48	30.0	-6.5	
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes																													
Mid Ch																																					
1732.50	14.17	V	0.9	8.6	21.87	30.0	-8.1																														
1732.50	15.77	H	0.9	8.6	23.48	30.0	-6.5																														

Band LTE2 1.4MHz QPSK	<p>High Frequency Substitution Measurement UL Verification Services, Inc.</p> <p>Company: LG Project #: 15I20150 Date: 3/5/2015 Test Engineer: R.Z Configuration: EUT Only Location: Chamber G Mode: LTE_QPSK Band 2 Fundamentals, 1.4MHz Bandwidth</p> <p>Test Equipment: Receiving: Horn T862, and Chamber G SMA Cables Substitution: Horn T60, 4ft SMA Cable</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <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>Mid Ch</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>1880.00</td> <td>15.87</td> <td>V</td> <td>0.9</td> <td>9.1</td> <td>24.11</td> <td>33.0</td> <td>-8.9</td> <td></td> </tr> <tr> <td>1880.00</td> <td>14.02</td> <td>H</td> <td>0.9</td> <td>9.1</td> <td>22.26</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	Mid Ch									1880.00	15.87	V	0.9	9.1	24.11	33.0	-8.9		1880.00	14.02	H	0.9	9.1	22.26	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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Band LTE2 1.4MHz 16QAM	<p>High Frequency Substitution Measurement UL Verification Services, Inc.</p> <p>Company: LG Project #: 15I20150 Date: 3/5/2015 Test Engineer: R.Z Configuration: EUT Only Location: Chamber G Mode: LTE_16QAM Band 2 Fundamentals, 1.4MHz Bandwidth</p> <p>Test Equipment: Receiving: Horn T862, and Chamber G SMA Cables Substitution: Horn T60, 4ft SMA Cable</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <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>Mid Ch</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>1880.00</td> <td>15.31</td> <td>V</td> <td>0.9</td> <td>9.1</td> <td>23.55</td> <td>33.0</td> <td>-9.4</td> <td></td> </tr> <tr> <td>1880.00</td> <td>13.66</td> <td>H</td> <td>0.9</td> <td>9.1</td> <td>21.90</td> <td>33.0</td> <td>-11.1</td> <td></td> </tr> </tbody> </table>	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	Mid Ch									1880.00	15.31	V	0.9	9.1	23.55	33.0	-9.4		1880.00	13.66	H	0.9	9.1	21.90	33.0	-11.1	
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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1880.00	15.31	V	0.9	9.1	23.55	33.0	-9.4																														
1880.00	13.66	H	0.9	9.1	21.90	33.0	-11.1																														

12.3. 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

LTE and CDMA

RESULTS

12.3.1. SPURIOUS RADIATION PLOTS

LTE Band 41

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG							
Project #:		15I20150							
Date:		3/4/2015							
Test Engineer:		R.Z							
Configuration:		EUT , AC Adapter and Headset							
Location:		Chamber G							
Mode:		LTE_16QAM Band 41 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, 2506									
5012.00	-8.0	V	3.0	35.5	1.0	-42.4	-25.0	-17.4	
7518.00	-4.8	V	3.0	35.7	1.0	-39.6	-25.0	-14.6	
10024.00	-7.3	V	3.0	36.0	1.0	-42.3	-25.0	-17.3	
Mid Ch, 2593									
5186.00	-7.1	V	3.0	35.4	1.0	-41.5	-25.0	-16.5	
7779.00	-10.1	V	3.0	35.8	1.0	-44.9	-25.0	-19.9	
10372.00	-6.8	V	3.0	35.8	1.0	-41.7	-25.0	-16.7	
5186.00	-7.9	H	3.0	35.4	1.0	-42.4	-25.0	-17.4	
7779.00	-2.8	H	3.0	35.8	1.0	-37.6	-25.0	-12.6	
10372.00	-6.6	H	3.0	35.8	1.0	-41.4	-25.0	-16.4	
High Ch, 2680									
5360.00	-6.6	V	3.0	35.4	1.0	-41.0	-25.0	-16.0	
8040.00	4.1	V	3.0	35.8	1.0	-30.7	-25.0	-5.7	
10720.00	-2.1	V	3.0	35.7	1.0	-36.8	-25.0	-11.8	
5360.00	-6.7	H	3.0	35.4	1.0	-41.1	-25.0	-16.1	
8040.00	-0.9	H	3.0	35.8	1.0	-35.7	-25.0	-10.7	
10720.00	-3.9	H	3.0	35.7	1.0	-38.6	-25.0	-13.6	

UL Verification Services, Inc.										
Above 1GHz High Frequency Substitution Measurement										
Company:		LG								
Project #:		15I20150								
Date:		3/4/2015								
Test Engineer:		R.Z								
Configuration:		EUT , AC Adapter and Headset								
Location:		Chamber G								
Mode:		LTE_QPSK Band 41 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	Low Ch, 2506									
	5012.00	-7.6	V	3.0	35.5	1.0	-42.1	-25.0	-17.1	
	7518.00	-4.0	V	3.0	35.7	1.0	-38.7	-25.0	-13.7	
	10024.00	-6.2	V	3.0	36.0	1.0	-41.2	-25.0	-16.2	
	5012.00	-7.8	H	3.0	35.5	1.0	-42.3	-25.0	-17.3	
	7518.00	-6.2	H	3.0	35.7	1.0	-41.0	-25.0	-16.0	
20MHz	10024.00	-2.1	H	3.0	36.0	1.0	-37.1	-25.0	-12.1	
	Mid Ch, 2593									
	5186.00	-7.6	V	3.0	35.4	1.0	-42.0	-25.0	-17.0	
	7779.00	-9.8	V	3.0	35.8	1.0	-44.6	-25.0	-19.6	
	10372.00	-6.3	V	3.0	35.8	1.0	-41.2	-25.0	-16.2	
	5186.00	-7.4	H	3.0	35.4	1.0	-41.9	-25.0	-16.9	
QPSK	7779.00	-2.3	H	3.0	35.8	1.0	-37.1	-25.0	-12.1	
	10372.00	-5.4	H	3.0	35.8	1.0	-40.2	-25.0	-15.2	
	High Ch, 2680									
	5360.00	-6.9	V	3.0	35.4	1.0	-41.3	-25.0	-16.3	
	8040.00	4.0	V	3.0	35.8	1.0	-30.8	-25.0	-5.8	
	10720.00	-1.5	V	3.0	35.7	1.0	-36.2	-25.0	-11.2	
	5360.00	-6.5	H	3.0	35.4	1.0	-40.9	-25.0	-15.9	
	8040.00	-1.2	H	3.0	35.8	1.0	-36.0	-25.0	-11.0	
	10720.00	-3.1	H	3.0	35.7	1.0	-37.8	-25.0	-12.8	

UL Verification Services, Inc.										
Above 1GHz High Frequency Substitution Measurement										
Company:		LG								
Project #:		15I20150								
Date:		3/4/2015								
Test Engineer:		R.Z								
Configuration:		EUT , AC Adapter and Headset								
Location:		Chamber G								
Mode:		LTE_16QAM Band 41 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, 2503.5										
Band	5007.00	-10.3	V	3.0	35.5	1.0	-44.7	-25.0	-19.7	
	7510.50	-1.5	V	3.0	35.7	1.0	-36.2	-25.0	-11.2	
LTE41	10014.00	0.9	V	3.0	36.0	1.0	-34.1	-25.0	-9.1	
	5007.00	-5.1	H	3.0	35.5	1.0	-39.6	-25.0	-14.6	
15MHz	7510.50	-3.7	H	3.0	35.7	1.0	-38.4	-25.0	-13.4	
	10014.00	-6.9	H	3.0	36.0	1.0	-41.9	-25.0	-16.9	
Mid Ch, 2593										
16QAM	5186.00	-11.9	V	3.0	35.4	1.0	-46.3	-25.0	-21.3	
	7779.00	-5.2	V	3.0	35.8	1.0	-40.0	-25.0	-15.0	
	10372.00	-3.2	V	3.0	35.8	1.0	-38.1	-25.0	-13.1	
	5186.00	-4.0	H	3.0	35.4	1.0	-38.5	-25.0	-13.5	
	7779.00	-3.4	H	3.0	35.8	1.0	-38.2	-25.0	-13.2	
	10372.00	-7.6	H	3.0	35.8	1.0	-42.4	-25.0	-17.4	
High Ch, 2682.5										
	5365.00	-10.2	V	3.0	35.4	1.0	-44.6	-25.0	-19.6	
	8047.50	-1.2	V	3.0	35.8	1.0	-36.0	-25.0	-11.0	
	10730.00	-5.7	V	3.0	35.7	1.0	-40.4	-25.0	-15.4	
	5365.00	-6.6	H	3.0	35.4	1.0	-41.0	-25.0	-16.0	
	8047.50	-3.1	H	3.0	35.8	1.0	-37.9	-25.0	-12.9	
	10730.00	-7.2	H	3.0	35.7	1.0	-41.9	-25.0	-16.9	

UL Verification Services, Inc.
Above 1GHz High Frequency Substitution Measurement

Company: LG
Project #: 15I20150
Date: 3/4/2015
Test Engineer: R.Z
Configuration: EUT , AC Adapter and Headset
Location: Chamber G
Mode: LTE_QPSK Band 41 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, 2503.5									
Band	5007.00	-10.6	V	3.0	35.5	1.0	-45.0	-25.0	-20.0	
	7510.50	-2.0	V	3.0	35.7	1.0	-36.8	-25.0	-11.8	
LTE41	10014.00	-0.2	V	3.0	36.0	1.0	-35.2	-25.0	-10.2	
	5007.00	-5.2	H	3.0	35.5	1.0	-39.7	-25.0	-14.7	
15MHz	7510.50	-3.3	H	3.0	35.7	1.0	-38.0	-25.0	-13.0	
	10014.00	-7.0	H	3.0	36.0	1.0	-42.0	-25.0	-17.0	
	Mid Ch, 2593									
QPSK	5186.00	-11.5	V	3.0	35.4	1.0	-45.9	-25.0	-20.9	
	7779.00	-5.9	V	3.0	35.8	1.0	-40.7	-25.0	-15.7	
	10372.00	-3.9	V	3.0	35.8	1.0	-38.8	-25.0	-13.8	
	5186.00	-3.9	H	3.0	35.4	1.0	-38.4	-25.0	-13.4	
	7779.00	-3.1	H	3.0	35.8	1.0	-37.9	-25.0	-12.9	
	10372.00	-7.8	H	3.0	35.8	1.0	-42.6	-25.0	-17.6	
	High Ch, 2682.5									
	5365.00	-10.4	V	3.0	35.4	1.0	-44.8	-25.0	-19.8	
	8047.50	-1.3	V	3.0	35.8	1.0	-36.1	-25.0	-11.1	
	10730.00	-5.5	V	3.0	35.7	1.0	-40.2	-25.0	-15.2	
	5365.00	-6.4	H	3.0	35.4	1.0	-40.8	-25.0	-15.8	
	8047.50	-3.4	H	3.0	35.8	1.0	-38.2	-25.0	-13.2	
	10730.00	-6.8	H	3.0	35.7	1.0	-41.5	-25.0	-16.5	

UL Verification Services, Inc.											
Above 1GHz High Frequency Substitution Measurement											
Company:		LG									
Project #:		15I20150									
Date:		3/4/2015									
Test Engineer:		R.Z									
Configuration:		EUT , AC Adapter and Headset									
Location:		Chamber G									
Mode:		LTE_16QAM Band 41 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 LTE41 10MHz 16QAM	Low Ch, 2501										
		5002.00	-8.9	V	3.0	35.5	1.0	-43.3	-25.0	-18.3	
		7503.00	-3.1	V	3.0	35.7	1.0	-37.9	-25.0	-12.9	
		10004.00	-2.4	V	3.0	36.0	1.0	-37.4	-25.0	-12.4	
		5002.00	-7.2	H	3.0	35.5	1.0	-41.6	-25.0	-16.6	
		7503.00	-3.4	H	3.0	35.7	1.0	-38.1	-25.0	-13.1	
		10004.00	-0.8	H	3.0	36.0	1.0	-35.8	-25.0	-10.8	
		Mid Ch, 2593									
		5186.00	-8.3	V	3.0	35.4	1.0	-42.7	-25.0	-17.7	
		7779.00	0.0	V	3.0	35.8	1.0	-34.8	-25.0	-9.8	
		10372.00	-8.8	V	3.0	35.8	1.0	-43.6	-25.0	-18.6	
		5186.00	-7.7	H	3.0	35.4	1.0	-42.2	-25.0	-17.2	
	7779.00	-1.7	H	3.0	35.8	1.0	-36.5	-25.0	-11.5		
	10372.00	-2.7	H	3.0	35.8	1.0	-37.5	-25.0	-12.5		
	High Ch, 2685										
	5370.00	-8.0	V	3.0	35.4	1.0	-42.5	-25.0	-17.5		
	8055.00	4.1	V	3.0	35.8	1.0	-30.7	-25.0	-5.7		
	10740.00	1.3	V	3.0	35.7	1.0	-33.4	-25.0	-8.4		
	5370.00	-3.9	H	3.0	35.4	1.0	-38.3	-25.0	-13.3		
	8055.00	-3.1	H	3.0	35.8	1.0	-37.9	-25.0	-12.9		
	10740.00	-6.0	H	3.0	35.7	1.0	-40.7	-25.0	-15.7		

UL Verification Services, Inc.
Above 1GHz High Frequency Substitution Measurement

Company: LG
Project #: 15I20150
Date: 3/4/2015
Test Engineer: R.Z
Configuration: EUT , AC Adapter and Headset
Location: Chamber G
Mode: LTE_QPSK Band 41 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, 2501									
Band	5002.00	-8.8	V	3.0	35.5	1.0	-43.2	-25.0	-18.2	
	7503.00	-3.2	V	3.0	35.7	1.0	-38.0	-25.0	-13.0	
LTE41	10004.00	-3.1	V	3.0	36.0	1.0	-38.1	-25.0	-13.1	
	5002.00	-7.4	H	3.0	35.5	1.0	-41.9	-25.0	-16.9	
10MHz	7503.00	-4.2	H	3.0	35.7	1.0	-38.9	-25.0	-13.9	
	10004.00	-3.4	H	3.0	36.0	1.0	-38.4	-25.0	-13.4	
	Mid Ch, 2593									
QPSK	5186.00	-8.4	V	3.0	35.4	1.0	-42.8	-25.0	-17.8	
	7779.00	0.5	V	3.0	35.8	1.0	-34.3	-25.0	-9.3	
	10372.00	-6.9	V	3.0	35.8	1.0	-41.7	-25.0	-16.7	
	5186.00	-7.8	H	3.0	35.4	1.0	-42.3	-25.0	-17.3	
	7779.00	-3.3	H	3.0	35.8	1.0	-38.0	-25.0	-13.0	
	10372.00	-4.4	H	3.0	35.8	1.0	-39.2	-25.0	-14.2	
	High Ch, 2685									
	5370.00	-7.7	V	3.0	35.4	1.0	-42.2	-25.0	-17.2	
	8055.00	4.5	V	3.0	35.8	1.0	-30.3	-25.0	-5.3	
	10740.00	-1.9	V	3.0	35.7	1.0	-36.6	-25.0	-11.6	
	5370.00	-6.7	H	3.0	35.4	1.0	-41.1	-25.0	-16.1	
	8055.00	-3.4	H	3.0	35.8	1.0	-38.2	-25.0	-13.2	
	10740.00	-7.6	H	3.0	35.7	1.0	-42.3	-25.0	-17.3	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement											
Company:		LG									
Project #:		15I20150									
Date:		3/4/2015									
Test Engineer:		R.Z									
Configuration:		EUT , AC Adapter and Headset									
Location:		Chamber G									
Mode:		LTE_16QAM Band 41 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 LTE41 5MHz 16QAM	Low Ch, 2498.5										
		4997.00	-7.3	V	3.0	35.5	1.0	-41.7	-25.0	-16.7	
		7495.50	-0.6	V	3.0	35.7	1.0	-35.3	-25.0	-10.3	
		9994.00	6.5	V	3.0	36.0	1.0	-28.5	-25.0	-3.5	
		4997.00	-8.0	H	3.0	35.5	1.0	-42.4	-25.0	-17.4	
		7495.50	-3.1	H	3.0	35.7	1.0	-37.8	-25.0	-12.8	
		9994.00	-3.9	H	3.0	36.0	1.0	-38.9	-25.0	-13.9	
		Mid Ch, 2593									
		5186.00	-6.9	V	3.0	35.4	1.0	-41.4	-25.0	-16.4	
		7779.00	5.6	V	3.0	35.8	1.0	-29.2	-25.0	-4.2	
		10372.00	1.5	V	3.0	35.8	1.0	-33.3	-25.0	-8.3	
		5186.00	-8.0	H	3.0	35.4	1.0	-42.5	-25.0	-17.5	
	7779.00	-4.4	H	3.0	35.8	1.0	-39.2	-25.0	-14.2		
	10372.00	-5.8	H	3.0	35.8	1.0	-40.6	-25.0	-15.6		
	High Ch, 2687.5										
	5375.00	-6.5	V	3.0	35.4	1.0	-40.9	-25.0	-15.9		
	8062.50	3.5	V	3.0	35.8	1.0	-31.3	-25.0	-6.3		
	10750.00	1.0	V	3.0	35.7	1.0	-33.7	-25.0	-8.7		
	5375.00	-4.1	H	3.0	35.4	1.0	-38.6	-25.0	-13.6		
	8062.50	0.1	H	3.0	35.8	1.0	-34.7	-25.0	-9.7		
	10750.00	-4.0	H	3.0	35.7	1.0	-38.7	-25.0	-13.7		

UL Verification Services, Inc.										
Above 1GHz High Frequency Substitution Measurement										
Company:		LG								
Project #:		15I20150								
Date:		3/4/2015								
Test Engineer:		R.Z								
Configuration:		EUT , AC Adapter and Headset								
Location:		Chamber G								
Mode:		LTE_QPSK Band 41 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, 2498.5										
Band	4997.00	-7.1	V	3.0	35.5	1.0	-41.6	-25.0	-16.6	
	7495.50	-0.7	V	3.0	35.7	1.0	-35.5	-25.0	-10.5	
LTE41	9994.00	2.4	V	3.0	36.0	1.0	-32.6	-25.0	-7.6	
	4997.00	-7.3	H	3.0	35.5	1.0	-41.8	-25.0	-16.8	
	7495.50	-2.9	H	3.0	35.7	1.0	-37.6	-25.0	-12.6	
5MHz	9994.00	-4.4	H	3.0	36.0	1.0	-39.4	-25.0	-14.4	
Mid Ch, 2593										
QPSK	5186.00	-6.8	V	3.0	35.4	1.0	-41.2	-25.0	-16.2	
	7779.00	5.9	V	3.0	35.8	1.0	-28.9	-25.0	-3.9	
	10372.00	1.8	V	3.0	35.8	1.0	-33.1	-25.0	-8.1	
	5186.00	-7.8	H	3.0	35.4	1.0	-42.3	-25.0	-17.3	
	7779.00	-3.5	H	3.0	35.8	1.0	-38.3	-25.0	-13.3	
	10372.00	-5.2	H	3.0	35.8	1.0	-40.0	-25.0	-15.0	
High Ch, 2687.5										
	5375.00	-8.1	V	3.0	35.4	1.0	-42.6	-25.0	-17.6	
	8062.50	3.0	V	3.0	35.8	1.0	-31.8	-25.0	-6.8	
	10750.00	-0.4	V	3.0	35.7	1.0	-35.0	-25.0	-10.0	
	5375.00	-5.2	H	3.0	35.4	1.0	-39.7	-25.0	-14.7	
	8062.50	-0.1	H	3.0	35.8	1.0	-34.9	-25.0	-9.9	
	10750.00	-4.2	H	3.0	35.7	1.0	-38.9	-25.0	-13.9	

LTE Band 26

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20150							
Date:		3/12/2015							
Test Engineer:		R.Z							
Configuration:		EUT/ AC Charger/ Headset							
Location:		Chamber G							
Mode:		LTE_16QAM Band 26 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, 831.5									
Band	1663.00	3.4	V	3.0	37.0	1.0	-32.7	-13.0	-19.7
	2494.50	-15.9	V	3.0	36.4	1.0	-51.4	-13.0	-38.4
LTE26	3326.00	-20.7	V	3.0	36.2	1.0	-55.9	-13.0	-42.9
	1663.00	-9.9	H	3.0	37.0	1.0	-45.9	-13.0	-32.9
15MHz	2494.50	-19.7	H	3.0	36.4	1.0	-55.1	-13.0	-42.1
	3326.00	-21.1	H	3.0	36.2	1.0	-56.3	-13.0	-43.3
Mid Ch, 836.5									
16QAM	1673.00	4.2	V	3.0	37.0	1.0	-31.8	-13.0	-18.8
	2509.50	-14.8	V	3.0	36.4	1.0	-50.2	-13.0	-37.2
	3346.00	-21.1	V	3.0	36.1	1.0	-56.2	-13.0	-43.2
	1673.00	-3.9	H	3.0	37.0	1.0	-39.9	-13.0	-26.9
	2509.50	-19.2	H	3.0	36.4	1.0	-54.6	-13.0	-41.6
	3346.00	-20.5	H	3.0	36.1	1.0	-55.6	-13.0	-42.6
High Ch, 841.5									
	1683.00	1.3	V	3.0	37.0	1.0	-34.7	-13.0	-21.7
	2524.50	-18.4	V	3.0	36.4	1.0	-53.9	-13.0	-40.9
	3366.00	-20.6	V	3.0	36.1	1.0	-55.8	-13.0	-42.8
	1683.00	-5.7	H	3.0	37.0	1.0	-41.7	-13.0	-28.7
	2524.50	-18.8	H	3.0	36.4	1.0	-54.2	-13.0	-41.2
	3366.00	-20.6	H	3.0	36.1	1.0	-55.7	-13.0	-42.7

UL Verification Services, Inc.										
Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I20150								
Date:		3/12/2015								
Test Engineer:		R.Z								
Configuration:		EUT/ AC Charger/ Headset								
Location:		Chamber G								
Mode:		LTE_QPSK Band 26 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, 831.5										
Band	1663.00	4.8	V	3.0	37.0	1.0	-31.2	-13.0	-18.2	
	2494.50	-17.0	V	3.0	36.4	1.0	-52.5	-13.0	-39.5	
LTE26	3326.00	106.6	V	3.0	36.2	1.0	71.4	-13.0	84.4	
	1663.00	-10.7	H	3.0	37.0	1.0	-46.7	-13.0	-33.7	
15MHz	2494.50	-16.9	H	3.0	36.4	1.0	-52.3	-13.0	-39.3	
	3326.00	-19.8	H	3.0	36.2	1.0	-55.0	-13.0	-42.0	
Mid Ch, 836.5										
QPSK	1673.00	2.3	V	3.0	37.0	1.0	-33.7	-13.0	-20.7	
	2509.50	-16.9	V	3.0	36.4	1.0	-52.3	-13.0	-39.3	
	3346.00	-20.4	V	3.0	36.1	1.0	-55.5	-13.0	-42.5	
	1673.00	-4.5	H	3.0	37.0	1.0	-40.5	-13.0	-27.5	
	2509.50	-20.6	H	3.0	36.4	1.0	-56.0	-13.0	-43.0	
	3346.00	-20.7	H	3.0	36.1	1.0	-55.8	-13.0	-42.8	
High Ch, 841.5										
	1683.00	3.9	V	3.0	37.0	1.0	-32.1	-13.0	-19.1	
	2524.50	-17.9	V	3.0	36.4	1.0	-53.3	-13.0	-40.3	
	3366.00	-20.5	V	3.0	36.1	1.0	-55.7	-13.0	-42.7	
	1683.00	-7.5	H	3.0	37.0	1.0	-43.5	-13.0	-30.5	
	2524.50	-19.0	H	3.0	36.4	1.0	-54.4	-13.0	-41.4	
	3366.00	-20.8	H	3.0	36.1	1.0	-55.9	-13.0	-42.9	

UL Verification Services, Inc.										
Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I20150								
Date:		3/12/2015								
Test Engineer:		R.Z								
Configuration:		EUT/ AC Charger/ Headset								
Location:		Chamber G								
Mode:		LTE_16QAM Band 26 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, 819									
Band	1638.00	0.4	V	3.0	37.0	1.0	-35.7	-13.0	-22.7	
	2457.00	-12.8	V	3.0	36.4	1.0	-48.2	-13.0	-35.2	
LTE26	3276.00	-21.3	V	3.0	36.2	1.0	-56.5	-13.0	-43.5	
	1638.00	-12.4	H	3.0	37.0	1.0	-48.4	-13.0	-35.4	
10MHz	2457.00	-18.1	H	3.0	36.4	1.0	-53.6	-13.0	-40.6	
	3276.00	-21.1	H	3.0	36.2	1.0	-56.3	-13.0	-43.3	
	Mid Ch, 831.5									
16QAM	1663.00	2.1	V	3.0	37.0	1.0	-33.9	-13.0	-20.9	
	2494.50	-16.8	V	3.0	36.4	1.0	-52.2	-13.0	-39.2	
	3326.00	-19.8	V	3.0	36.1	1.0	-54.9	-13.0	-41.9	
	1663.00	-12.4	H	3.0	37.0	1.0	-48.5	-13.0	-35.5	
	2494.50	-18.7	H	3.0	36.4	1.0	-54.1	-13.0	-41.1	
	3326.00	-20.5	H	3.0	36.1	1.0	-55.6	-13.0	-42.6	
	High Ch, 844									
	1688.00	3.7	V	3.0	37.0	1.0	-32.3	-13.0	-19.3	
	2532.00	-12.7	V	3.0	36.4	1.0	-48.1	-13.0	-35.1	
	3376.00	-21.1	V	3.0	36.1	1.0	-56.2	-13.0	-43.2	
	1688.00	-6.0	H	3.0	37.0	1.0	-42.0	-13.0	-29.0	
	2532.00	-15.0	H	3.0	36.4	1.0	-50.4	-13.0	-37.4	
	3376.00	-21.2	H	3.0	36.1	1.0	-56.3	-13.0	-43.3	

UL Verification Services, Inc.										
Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I20150								
Date:		3/12/2015								
Test Engineer:		R.Z								
Configuration:		EUT/ AC Charger/ Headset								
Location:		Chamber G								
Mode:		LTE_QPSK Band 26 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, 819										
Band	1638.00	0.5	V	3.0	37.0	1.0	-35.6	-13.0	-22.6	
	2457.00	-12.9	V	3.0	36.4	1.0	-48.3	-13.0	-35.3	
LTE26	3276.00	-20.5	V	3.0	36.2	1.0	-55.7	-13.0	-42.7	
	1638.00	-10.6	H	3.0	37.0	1.0	-46.6	-13.0	-33.6	
10MHz	2457.00	-17.4	H	3.0	36.4	1.0	-52.8	-13.0	-39.8	
	3276.00	-21.2	H	3.0	36.2	1.0	-56.4	-13.0	-43.4	
Mid Ch, 831.5										
QPSK	1663.00	-0.9	V	3.0	37.0	1.0	-36.9	-13.0	-23.9	
	2494.50	-17.3	V	3.0	36.4	1.0	-52.7	-13.0	-39.7	
	3326.00	-21.0	V	3.0	36.1	1.0	-56.1	-13.0	-43.1	
	1663.00	-12.3	H	3.0	37.0	1.0	-48.3	-13.0	-35.3	
	2494.50	-21.1	H	3.0	36.4	1.0	-56.5	-13.0	-43.5	
	3326.00	-20.3	H	3.0	36.1	1.0	-55.4	-13.0	-42.4	
High Ch, 844										
	1688.00	2.5	V	3.0	37.0	1.0	-33.5	-13.0	-20.5	
	2532.00	-14.9	V	3.0	36.4	1.0	-50.3	-13.0	-37.3	
	3376.00	-20.6	V	3.0	36.1	1.0	-55.7	-13.0	-42.7	
	1688.00	-8.8	H	3.0	37.0	1.0	-44.8	-13.0	-31.8	
	2532.00	-17.5	H	3.0	36.4	1.0	-52.9	-13.0	-39.9	
	3376.00	-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 #:		15I20150								
Date:		3/12/2015								
Test Engineer:		R.Z								
Configuration:		EUT/ AC Charger/ Headset								
Location:		Chamber G								
Mode:		LTE_16QAM Band 26 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, 816.5									
Band	1633.00	-1.3	V	3.0	37.0	1.0	-37.3	-13.0	-24.3	
	2449.50	-15.5	V	3.0	36.4	1.0	-51.0	-13.0	-38.0	
LTE26	3266.00	-19.9	V	3.0	36.2	1.0	-55.0	-13.0	-42.0	
	1633.00	-9.4	H	3.0	37.0	1.0	-45.5	-13.0	-32.5	
	2449.50	-18.1	H	3.0	36.4	1.0	-53.5	-13.0	-40.5	
5MHz	3266.00	-20.4	H	3.0	36.2	1.0	-55.5	-13.0	-42.5	
	Mid Ch, 831.5									
16QAM	1663.00	3.2	V	3.0	37.0	1.0	-32.9	-13.0	-19.9	
	2494.50	-17.1	V	3.0	36.4	1.0	-52.5	-13.0	-39.5	
	3326.00	-20.8	V	3.0	36.1	1.0	-55.9	-13.0	-42.9	
	1663.00	-7.6	H	3.0	37.0	1.0	-43.6	-13.0	-30.6	
	2494.50	-16.8	H	3.0	36.4	1.0	-52.2	-13.0	-39.2	
	3326.00	-20.9	H	3.0	36.1	1.0	-56.0	-13.0	-43.0	
	High Ch, 846.5									
	1693.00	1.6	V	3.0	37.0	1.0	-34.4	-13.0	-21.4	
	2539.50	-9.5	V	3.0	36.4	1.0	-45.0	-13.0	-32.0	
	3386.00	-20.4	V	3.0	36.1	1.0	-55.5	-13.0	-42.5	
	1693.00	-7.6	H	3.0	37.0	1.0	-43.6	-13.0	-30.6	
	2539.50	-18.6	H	3.0	36.4	1.0	-54.0	-13.0	-41.0	
	3386.00	-21.2	H	3.0	36.1	1.0	-56.3	-13.0	-43.3	

UL Verification Services, Inc.										
Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I20150								
Date:		3/12/2015								
Test Engineer:		R.Z								
Configuration:		EUT/ AC Charger/ Headset								
Location:		Chamber G								
Mode:		LTE_QPSK Band 26 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, 816.5									
Band	1633.00	-1.6	V	3.0	37.0	1.0	-37.6	-13.0	-24.6	
	2449.50	-14.8	V	3.0	36.4	1.0	-50.3	-13.0	-37.3	
LTE26	3266.00	-19.8	V	3.0	36.2	1.0	-54.9	-13.0	-41.9	
	1633.00	-7.7	H	3.0	37.0	1.0	-43.7	-13.0	-30.7	
	2449.50	-17.5	H	3.0	36.4	1.0	-52.9	-13.0	-39.9	
5MHz	3266.00	-20.7	H	3.0	36.2	1.0	-55.8	-13.0	-42.8	
	Mid Ch, 831.5									
QPSK	1663.00	1.5	V	3.0	37.0	1.0	-34.5	-13.0	-21.5	
	2494.50	-14.9	V	3.0	36.4	1.0	-50.3	-13.0	-37.3	
	3326.00	-20.8	V	3.0	36.1	1.0	-55.9	-13.0	-42.9	
	1663.00	-5.4	H	3.0	37.0	1.0	-41.4	-13.0	-28.4	
	2494.50	-15.0	H	3.0	36.4	1.0	-50.4	-13.0	-37.4	
	3326.00	-20.0	H	3.0	36.1	1.0	-55.1	-13.0	-42.1	
	High Ch, 846.5									
	1693.00	1.9	V	3.0	37.0	1.0	-34.1	-13.0	-21.1	
	2539.50	-9.6	V	3.0	36.4	1.0	-45.0	-13.0	-32.0	
	3386.00	-21.1	V	3.0	36.1	1.0	-56.2	-13.0	-43.2	
	1693.00	-5.1	H	3.0	37.0	1.0	-41.1	-13.0	-28.1	
	2539.50	-14.8	H	3.0	36.4	1.0	-50.2	-13.0	-37.2	
	3386.00	-20.9	H	3.0	36.1	1.0	-56.0	-13.0	-43.0	

UL Verification Services, Inc.										
Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I20150								
Date:		3/12/2015								
Test Engineer:		R.Z								
Configuration:		EUT/ AC Charger/ Headset								
Location:		Chamber G								
Mode:		LTE_16QAM Band 26 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
	Low Ch, 815.5									
Band	1631.00	-2.3	V	3.0	37.0	1.0	-38.4	-13.0	-25.4	
	2446.50	-16.0	V	3.0	36.4	1.0	-51.4	-13.0	-38.4	
LTE26	3262.00	-20.6	V	3.0	36.2	1.0	-55.8	-13.0	-42.8	
	1631.00	-8.0	H	3.0	37.0	1.0	-44.1	-13.0	-31.1	
	2446.50	-19.3	H	3.0	36.4	1.0	-54.7	-13.0	-41.7	
3MHz	3262.00	-21.1	H	3.0	36.2	1.0	-56.3	-13.0	-43.3	
	Mid Ch, 831.5									
16QAM	1663.00	1.9	V	3.0	37.0	1.0	-34.1	-13.0	-21.1	
	2494.50	-17.0	V	3.0	36.4	1.0	-52.4	-13.0	-39.4	
	3326.00	-20.7	V	3.0	36.1	1.0	-55.8	-13.0	-42.8	
	1663.00	-9.0	H	3.0	37.0	1.0	-45.0	-13.0	-32.0	
	2494.50	-16.1	H	3.0	36.4	1.0	-51.5	-13.0	-38.5	
	3326.00	-20.0	H	3.0	36.1	1.0	-55.1	-13.0	-42.1	
	High Ch, 847.5									
	1695.00	3.4	V	3.0	37.0	1.0	-32.6	-13.0	-19.6	
	2542.50	-14.2	V	3.0	36.4	1.0	-49.7	-13.0	-36.7	
	3390.00	-19.5	V	3.0	36.1	1.0	-54.6	-13.0	-41.6	
	1695.00	-7.5	H	3.0	37.0	1.0	-43.5	-13.0	-30.5	
	2542.50	-16.1	H	3.0	36.4	1.0	-51.6	-13.0	-38.6	
	3390.00	-22.7	H	3.0	36.1	1.0	-57.8	-13.0	-44.8	

UL Verification Services, Inc.										
Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I20150								
Date:		3/12/2015								
Test Engineer:		R.Z								
Configuration:		EUT/ AC Charger/ Headset								
Location:		Chamber G								
Mode:		LTE_QPSK Band 26 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
	Low Ch, 815.5									
Band	1631.00	-0.7	V	3.0	37.0	1.0	-36.8	-13.0	-23.8	
	2446.50	-17.0	V	3.0	36.4	1.0	-52.4	-13.0	-39.4	
LTE26	3262.00	-20.4	V	3.0	36.2	1.0	-55.6	-13.0	-42.6	
	1631.00	-12.3	H	3.0	37.0	1.0	-48.3	-13.0	-35.3	
	2446.50	-20.5	H	3.0	36.4	1.0	-55.9	-13.0	-42.9	
3MHz	3262.00	-20.2	H	3.0	36.2	1.0	-55.4	-13.0	-42.4	
	Mid Ch, 831.5									
QPSK	1663.00	3.6	V	3.0	37.0	1.0	-32.4	-13.0	-19.4	
	2494.50	-16.6	V	3.0	36.4	1.0	-52.0	-13.0	-39.0	
	3326.00	-18.9	V	3.0	36.1	1.0	-54.0	-13.0	-41.0	
	1663.00	-4.8	H	3.0	37.0	1.0	-40.8	-13.0	-27.8	
	2494.50	-16.8	H	3.0	36.4	1.0	-52.2	-13.0	-39.2	
	3326.00	-18.8	H	3.0	36.1	1.0	-53.9	-13.0	-40.9	
	High Ch, 847.5									
	1695.00	3.2	V	3.0	37.0	1.0	-32.8	-13.0	-19.8	
	2542.50	-16.0	V	3.0	36.4	1.0	-51.5	-13.0	-38.5	
	3390.00	-20.5	V	3.0	36.1	1.0	-55.6	-13.0	-42.6	
	1695.00	-4.6	H	3.0	37.0	1.0	-40.5	-13.0	-27.5	
	2542.50	-14.9	H	3.0	36.4	1.0	-50.3	-13.0	-37.3	
	3390.00	-20.7	H	3.0	36.1	1.0	-55.8	-13.0	-42.8	

UL Verification Services, Inc.										
Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I20150								
Date:		3/11/2015								
Test Engineer:		R.Z								
Configuration:		EUT/ AC Charger/ Headset								
Location:		Chamber G								
Mode:		LTE_16QAM Band 26 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, 814.7									
Band	1629.40	0.0	V	3.0	37.1	1.0	-36.0	-13.0	-23.0	
	2444.10	-10.8	V	3.0	36.4	1.0	-46.3	-13.0	-33.3	
LTE26	3258.80	-19.7	V	3.0	36.2	1.0	-54.9	-13.0	-41.9	
	1629.40	-7.2	H	3.0	37.1	1.0	-43.3	-13.0	-30.3	
1.4MHz	2444.10	-11.2	H	3.0	36.4	1.0	-46.7	-13.0	-33.7	
	3258.80	-21.0	H	3.0	36.2	1.0	-56.2	-13.0	-43.2	
	Mid Ch, 831.5									
16QAM	1663.00	2.8	V	3.0	37.0	1.0	-33.2	-13.0	-20.2	
	2494.50	-11.5	V	3.0	36.4	1.0	-46.9	-13.0	-33.9	
	3326.00	-20.8	V	3.0	36.1	1.0	-55.9	-13.0	-42.9	
	1663.00	-8.0	H	3.0	37.0	1.0	-44.0	-13.0	-31.0	
	2494.50	-11.4	H	3.0	36.4	1.0	-46.8	-13.0	-33.8	
	3326.00	-20.9	H	3.0	36.1	1.0	-56.0	-13.0	-43.0	
	High Ch, 848.3									
	1696.60	4.2	V	3.0	37.0	1.0	-31.8	-13.0	-18.8	
	2544.90	-9.3	V	3.0	36.4	1.0	-44.7	-13.0	-31.7	
	3393.20	-21.1	V	3.0	36.1	1.0	-56.1	-13.0	-43.1	
	1696.60	-2.2	H	3.0	37.0	1.0	-38.1	-13.0	-25.1	
	2544.90	-6.9	H	3.0	36.4	1.0	-42.3	-13.0	-29.3	
	3393.20	-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 #:		15I20150								
Date:		3/11/2015								
Test Engineer:		R.Z								
Configuration:		EUT/ AC Charger/ Headset								
Location:		Chamber G								
Mode:		LTE_QPSK Band 26 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, 814.7										
Band	1629.40	1.8	V	3.0	37.1	1.0	-34.3	-13.0	-21.3	
	2444.10	-11.1	V	3.0	36.4	1.0	-46.6	-13.0	-33.6	
LTE26	3258.80	-19.2	V	3.0	36.2	1.0	-54.4	-13.0	-41.4	
	1629.40	-9.3	H	3.0	37.1	1.0	-45.4	-13.0	-32.4	
1.4MHz	2444.10	-15.0	H	3.0	36.4	1.0	-50.5	-13.0	-37.5	
	3258.80	-20.2	H	3.0	36.2	1.0	-55.4	-13.0	-42.4	
Mid Ch, 831.5										
QPSK	1663.00	3.7	V	3.0	37.0	1.0	-32.3	-13.0	-19.3	
	2494.50	-9.3	V	3.0	36.4	1.0	-44.7	-13.0	-31.7	
	3326.00	-20.4	V	3.0	36.1	1.0	-55.5	-13.0	-42.5	
	1663.00	-8.7	H	3.0	37.0	1.0	-44.7	-13.0	-31.7	
	2494.50	-9.9	H	3.0	36.4	1.0	-45.3	-13.0	-32.3	
	3326.00	-21.6	H	3.0	36.1	1.0	-56.7	-13.0	-43.7	
High Ch, 848.3										
	1696.60	5.2	V	3.0	37.0	1.0	-30.8	-13.0	-17.8	
	2544.90	-7.3	V	3.0	36.4	1.0	-42.7	-13.0	-29.7	
	3393.20	-20.6	V	3.0	36.1	1.0	-55.6	-13.0	-42.6	
	1696.60	-2.9	H	3.0	37.0	1.0	-38.8	-13.0	-25.8	
	2544.90	-11.4	H	3.0	36.4	1.0	-46.8	-13.0	-33.8	
	3393.20	-20.3	H	3.0	36.1	1.0	-55.4	-13.0	-42.4	

LTE Band 25

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20150							
Date:		3/11/2015							
Test Engineer:		R.Z							
Configuration:		EUT/ AC Charger/ Headset							
Location:		Chamber G							
Mode:		LTE_16QAM Band 25 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	-17.8	V	3.0	35.8	1.0	-52.7	-13.0	-39.7
	5580.00	6.0	V	3.0	35.5	1.0	-28.5	-13.0	-15.5
LTE25	7440.00	-9.2	V	3.0	35.7	1.0	-44.0	-13.0	-31.0
	3720.00	-15.6	H	3.0	35.8	1.0	-50.4	-13.0	-37.4
20MHz	5580.00	6.8	H	3.0	35.5	1.0	-27.7	-13.0	-14.7
	7440.00	-9.0	H	3.0	35.7	1.0	-43.7	-13.0	-30.7
Mid Ch, 1882.5									
16QAM	3765.00	-18.4	V	3.0	35.8	1.0	-53.2	-13.0	-40.2
	5647.50	0.9	V	3.0	35.5	1.0	-33.6	-13.0	-20.6
	7530.00	-11.5	V	3.0	35.7	1.0	-46.3	-13.0	-33.3
	3765.00	-18.6	H	3.0	35.8	1.0	-53.4	-13.0	-40.4
	5647.50	5.4	H	3.0	35.5	1.0	-29.1	-13.0	-16.1
	7530.00	-8.7	H	3.0	35.7	1.0	-43.5	-13.0	-30.5
High Ch, 1905									
	3810.00	-16.8	V	3.0	35.8	1.0	-51.5	-13.0	-38.5
	5715.00	2.4	V	3.0	35.5	1.0	-32.1	-13.0	-19.1
	7620.00	-9.6	V	3.0	35.8	1.0	-44.4	-13.0	-31.4
	3810.00	-16.5	H	3.0	35.8	1.0	-51.3	-13.0	-38.3
	5715.00	5.8	H	3.0	35.5	1.0	-28.7	-13.0	-15.7
	7620.00	-9.2	H	3.0	35.8	1.0	-43.9	-13.0	-30.9

UL Verification Services, Inc.										
Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I20150								
Date:		3/11/2015								
Test Engineer:		R.Z								
Configuration:		EUT/ AC Charger/ Headset								
Location:		Chamber G								
Mode:		LTE_QPSK Band 25 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	-17.7	V	3.0	35.8	1.0	-52.6	-13.0	-39.6	
	5580.00	6.7	V	3.0	35.5	1.0	-27.8	-13.0	-14.8	
LTE25	7440.00	-9.3	V	3.0	35.7	1.0	-44.0	-13.0	-31.0	
	3720.00	-15.3	H	3.0	35.8	1.0	-50.1	-13.0	-37.1	
20MHz	5580.00	7.1	H	3.0	35.5	1.0	-27.4	-13.0	-14.4	
	7440.00	-8.8	H	3.0	35.7	1.0	-43.6	-13.0	-30.6	
	Mid Ch, 1882.5									
QPSK	3765.00	-17.4	V	3.0	35.8	1.0	-52.2	-13.0	-39.2	
	5647.50	4.8	V	3.0	35.5	1.0	-29.7	-13.0	-16.7	
	7530.00	-9.9	V	3.0	35.7	1.0	-44.7	-13.0	-31.7	
	3765.00	-18.1	H	3.0	35.8	1.0	-52.9	-13.0	-39.9	
	5647.50	6.1	H	3.0	35.5	1.0	-28.4	-13.0	-15.4	
	7530.00	-7.9	H	3.0	35.7	1.0	-42.7	-13.0	-29.7	
	High Ch, 1905									
	3810.00	106.7	V	3.0	35.8	1.0	72.0	-13.0	85.0	
	5715.00	3.1	V	3.0	35.5	1.0	-31.4	-13.0	-18.4	
	7620.00	-10.7	V	3.0	35.8	1.0	-45.5	-13.0	-32.5	
	3810.00	-17.0	H	3.0	35.8	1.0	-51.8	-13.0	-38.8	
	5715.00	6.0	H	3.0	35.5	1.0	-28.5	-13.0	-15.5	
	7620.00	-8.7	H	3.0	35.8	1.0	-43.4	-13.0	-30.4	

UL Verification Services, Inc.										
Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I20150								
Date:		3/11/2015								
Test Engineer:		R.Z								
Configuration:		EUT/ AC Charger/ Headset								
Location:		Chamber G								
Mode:		LTE_16QAM Band 25 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	-17.3	V	3.0	35.8	1.0	-52.1	-13.0	-39.1	
	5572.50	2.5	V	3.0	35.5	1.0	-32.0	-13.0	-19.0	
LTE25	7430.00	-7.3	V	3.0	35.7	1.0	-42.1	-13.0	-29.1	
	3715.00	-15.9	H	3.0	35.8	1.0	-50.7	-13.0	-37.7	
15MHz	5572.50	3.0	H	3.0	35.5	1.0	-31.5	-13.0	-18.5	
	7430.00	-8.1	H	3.0	35.7	1.0	-42.8	-13.0	-29.8	
	Mid Ch, 1882.5									
16QAM	3815.00	-17.4	V	3.0	35.8	1.0	-52.3	-13.0	-39.3	
	5722.50	1.8	V	3.0	35.5	1.0	-32.7	-13.0	-19.7	
	7630.00	-13.7	V	3.0	35.7	1.0	-48.5	-13.0	-35.5	
	3815.00	-17.7	H	3.0	35.8	1.0	-52.5	-13.0	-39.5	
	5722.50	3.6	H	3.0	35.5	1.0	-30.9	-13.0	-17.9	
	7630.00	-8.6	H	3.0	35.7	1.0	-43.4	-13.0	-30.4	
	High Ch, 1907.5									
	3815.00	-15.7	V	3.0	35.8	1.0	-50.5	-13.0	-37.5	
	5722.50	0.9	V	3.0	35.5	1.0	-33.6	-13.0	-20.6	
	7630.00	-8.8	V	3.0	35.8	1.0	-43.6	-13.0	-30.6	
	3815.00	-17.5	H	3.0	35.8	1.0	-52.3	-13.0	-39.3	
	5722.50	2.5	H	3.0	35.5	1.0	-32.0	-13.0	-19.0	
	7630.00	-8.2	H	3.0	35.8	1.0	-43.0	-13.0	-30.0	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement												
Company:		LG Electronics										
Project #:		15I20150										
Date:		3/11/2015										
Test Engineer:		R.Z										
Configuration:		EUT/ AC Charger/ Headset										
Location:		Chamber G										
Mode:		LTE_QPSK Band 25 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	-17.1	V	3.0	35.8	1.0	-52.0	-13.0	-39.0		
		5572.50	2.4	V	3.0	35.5	1.0	-32.1	-13.0	-19.1		
	LTE25		7430.00	-7.5	V	3.0	35.7	1.0	-42.3	-13.0	-29.3	
			3715.00	-15.3	H	3.0	35.8	1.0	-50.1	-13.0	-37.1	
	15MHz		5572.50	3.4	H	3.0	35.5	1.0	-31.1	-13.0	-18.1	
		7430.00	-8.2	H	3.0	35.7	1.0	-42.9	-13.0	-29.9		
QPSK	Mid Ch, 1882.5											
		3765.00	-16.9	V	3.0	35.8	1.0	-51.7	-13.0	-38.7		
		5647.50	2.2	V	3.0	35.5	1.0	-32.3	-13.0	-19.3		
		7530.00	-13.6	V	3.0	35.7	1.0	-48.4	-13.0	-35.4		
		3765.00	-17.3	H	3.0	35.8	1.0	-52.1	-13.0	-39.1		
		5647.50	3.5	H	3.0	35.5	1.0	-31.0	-13.0	-18.0		
		7530.00	-9.0	H	3.0	35.7	1.0	-43.8	-13.0	-30.8		
		High Ch, 1907.5										
	3815.00	-15.6	V	3.0	35.8	1.0	-50.4	-13.0	-37.4			
	5722.50	0.6	V	3.0	35.5	1.0	-33.9	-13.0	-20.9			
	7630.00	-9.2	V	3.0	35.8	1.0	-44.0	-13.0	-31.0			
	3815.00	-17.3	H	3.0	35.8	1.0	-52.1	-13.0	-39.1			
	5722.50	2.7	H	3.0	35.5	1.0	-31.8	-13.0	-18.8			
	7630.00	-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 #:		15I20150								
Date:		3/11/2015								
Test Engineer:		R.Z								
Configuration:		EUT/ AC Charger/ Headset								
Location:		Chamber G								
Mode:		LTE_16QAM Band 25 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, 1855									
Band	3710.00	-13.6	V	3.0	35.9	1.0	-48.5	-13.0	-35.5	
	5565.00	1.6	V	3.0	35.5	1.0	-32.9	-13.0	-19.9	
LTE25	7420.00	-8.3	V	3.0	35.7	1.0	-43.1	-13.0	-30.1	
	3710.00	-10.7	H	3.0	35.9	1.0	-45.6	-13.0	-32.6	
10MHz	5565.00	5.0	H	3.0	35.5	1.0	-29.4	-13.0	-16.4	
	7420.00	-8.8	H	3.0	35.7	1.0	-43.5	-13.0	-30.5	
	Mid Ch, 1882.5									
16QAM	3765.00	-16.8	V	3.0	35.8	1.0	-51.6	-13.0	-38.6	
	5647.50	2.8	V	3.0	35.5	1.0	-31.7	-13.0	-18.7	
	7530.00	-9.5	V	3.0	35.7	1.0	-44.3	-13.0	-31.3	
	3765.00	-16.9	H	3.0	35.8	1.0	-51.7	-13.0	-38.7	
	5647.50	1.1	H	3.0	35.5	1.0	-33.4	-13.0	-20.4	
	7530.00	-8.8	H	3.0	35.7	1.0	-43.6	-13.0	-30.6	
	High Ch, 1910									
	3820.00	-15.7	V	3.0	35.8	1.0	-50.5	-13.0	-37.5	
	5730.00	2.0	V	3.0	35.5	1.0	-32.5	-13.0	-19.5	
	7640.00	-7.2	V	3.0	35.8	1.0	-41.9	-13.0	-28.9	
	3820.00	-16.4	H	3.0	35.8	1.0	-51.2	-13.0	-38.2	
	5730.00	4.3	H	3.0	35.5	1.0	-30.2	-13.0	-17.2	
	7640.00	-9.0	H	3.0	35.8	1.0	-43.8	-13.0	-30.8	

UL Verification Services, Inc.										
Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I20150								
Date:		3/11/2015								
Test Engineer:		R.Z								
Configuration:		EUT/ AC Charger/ Headset								
Location:		Chamber G								
Mode:		LTE_QPSK Band 25 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, 1855									
Band	3710.00	-13.7	V	3.0	35.9	1.0	-48.6	-13.0	-35.6	
	5565.00	1.8	V	3.0	35.5	1.0	-32.7	-13.0	-19.7	
LTE25	7420.00	-8.1	V	3.0	35.7	1.0	-42.9	-13.0	-29.9	
	3710.00	-10.9	H	3.0	35.9	1.0	-45.8	-13.0	-32.8	
10MHz	5565.00	4.8	H	3.0	35.5	1.0	-29.6	-13.0	-16.6	
	7420.00	-8.6	H	3.0	35.7	1.0	-43.3	-13.0	-30.3	
	Mid Ch, 1882.5									
QPSK	3765.00	-17.2	V	3.0	35.8	1.0	-52.0	-13.0	-39.0	
	5647.50	3.2	V	3.0	35.5	1.0	-31.3	-13.0	-18.3	
	7530.00	-9.3	V	3.0	35.7	1.0	-44.1	-13.0	-31.1	
	3765.00	-16.7	H	3.0	35.8	1.0	-51.5	-13.0	-38.5	
	5647.50	1.9	H	3.0	35.5	1.0	-32.6	-13.0	-19.6	
	7530.00	-8.7	H	3.0	35.7	1.0	-43.5	-13.0	-30.5	
	High Ch, 1910									
	3820.00	-15.5	V	3.0	35.8	1.0	-50.3	-13.0	-37.3	
	5730.00	1.6	V	3.0	35.5	1.0	-32.9	-13.0	-19.9	
	7640.00	-6.6	V	3.0	35.8	1.0	-41.3	-13.0	-28.3	
	3820.00	-16.3	H	3.0	35.8	1.0	-51.1	-13.0	-38.1	
	5730.00	4.5	H	3.0	35.5	1.0	-30.0	-13.0	-17.0	
	7640.00	-9.2	H	3.0	35.8	1.0	-44.0	-13.0	-31.0	

UL Verification Services, Inc.										
Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I20150								
Date:		3/11/2015								
Test Engineer:		R.Z								
Configuration:		EUT/ AC Charger/ Headset								
Location:		Chamber G								
Mode:		LTE_16QAM Band 25 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	-17.0	V	3.0	35.9	1.0	-51.8	-13.0	-38.8	
	5557.50	2.6	V	3.0	35.5	1.0	-31.9	-13.0	-18.9	
LTE25	7410.00	-9.5	V	3.0	35.7	1.0	-44.2	-13.0	-31.2	
	3705.00	-11.2	H	3.0	35.9	1.0	-46.1	-13.0	-33.1	
	5557.50	3.9	H	3.0	35.5	1.0	-30.5	-13.0	-17.5	
5MHz	7410.00	-10.5	H	3.0	35.7	1.0	-45.2	-13.0	-32.2	
	Mid Ch, 1882.5									
16QAM	3765.00	-17.3	V	3.0	35.8	1.0	-52.1	-13.0	-39.1	
	5647.50	1.8	V	3.0	35.5	1.0	-32.7	-13.0	-19.7	
	7530.00	-11.7	V	3.0	35.7	1.0	-46.5	-13.0	-33.5	
	3765.00	-18.9	H	3.0	35.8	1.0	-53.7	-13.0	-40.7	
	5647.50	2.1	H	3.0	35.5	1.0	-32.4	-13.0	-19.4	
	7530.00	-12.9	H	3.0	35.7	1.0	-47.7	-13.0	-34.7	
	High Ch, 1912.5									
	3825.00	-17.6	V	3.0	35.8	1.0	-52.4	-13.0	-39.4	
	5737.50	2.5	V	3.0	35.5	1.0	-32.0	-13.0	-19.0	
	7650.00	-7.8	V	3.0	35.8	1.0	-42.5	-13.0	-29.5	
	3825.00	-16.8	H	3.0	35.8	1.0	-51.6	-13.0	-38.6	
	5737.50	2.9	H	3.0	35.5	1.0	-31.6	-13.0	-18.6	
	7650.00	-9.1	H	3.0	35.8	1.0	-43.9	-13.0	-30.9	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I20150								
Date:		3/11/2015								
Test Engineer:		R.Z								
Configuration:		EUT/ AC Charger/ Headset								
Location:		Chamber G								
Mode:		LTE_QPSK Band 25 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	-16.4	V	3.0	35.9	1.0	-51.2	-13.0	-38.2	
	5557.50	1.8	V	3.0	35.5	1.0	-32.7	-13.0	-19.7	
LTE25	7410.00	-10.3	V	3.0	35.7	1.0	-45.0	-13.0	-32.0	
	3705.00	-13.2	H	3.0	35.9	1.0	-48.1	-13.0	-35.1	
	5557.50	4.4	H	3.0	35.5	1.0	-30.1	-13.0	-17.1	
5MHz	7410.00	-10.9	H	3.0	35.7	1.0	-45.6	-13.0	-32.6	
	Mid Ch, 1882.5									
QPSK	3765.00	-15.5	V	3.0	35.8	1.0	-50.3	-13.0	-37.3	
	5647.50	0.0	V	3.0	35.5	1.0	-34.5	-13.0	-21.5	
	7530.00	-9.1	V	3.0	35.7	1.0	-43.9	-13.0	-30.9	
	3765.00	-18.6	H	3.0	35.8	1.0	-53.4	-13.0	-40.4	
	5647.50	2.8	H	3.0	35.5	1.0	-31.7	-13.0	-18.7	
	7530.00	-12.2	H	3.0	35.7	1.0	-47.0	-13.0	-34.0	
	High Ch, 1912.5									
	3825.00	-18.5	V	3.0	35.8	1.0	-53.3	-13.0	-40.3	
	5737.50	2.6	V	3.0	35.5	1.0	-31.9	-13.0	-18.9	
	7650.00	-7.6	V	3.0	35.8	1.0	-42.3	-13.0	-29.3	
	3825.00	-16.2	H	3.0	35.8	1.0	-51.0	-13.0	-38.0	
	5737.50	3.3	H	3.0	35.5	1.0	-31.2	-13.0	-18.2	
	7650.00	-9.3	H	3.0	35.8	1.0	-44.1	-13.0	-31.1	

UL Verification Services, Inc.										
Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I20150								
Date:		3/11/2015								
Test Engineer:		R.Z								
Configuration:		EUT/ AC Charger/ Headset								
Location:		Chamber G								
Mode:		LTE_16QAM Band 25 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
	Low Ch, 1851.5									
Band	3703.00	-11.9	V	3.0	35.9	1.0	-46.7	-13.0	-33.7	
	5554.50	6.5	V	3.0	35.5	1.0	-28.0	-13.0	-15.0	
LTE25	7406.00	-7.1	V	3.0	35.7	1.0	-41.8	-13.0	-28.8	
	3703.00	-10.8	H	3.0	35.9	1.0	-45.7	-13.0	-32.7	
	5554.50	7.7	H	3.0	35.5	1.0	-26.8	-13.0	-13.8	
3MHz	7406.00	-8.4	H	3.0	35.7	1.0	-43.1	-13.0	-30.1	
	Mid Ch, 1882.5									
16QAM	3765.00	-14.7	V	3.0	35.8	1.0	-49.5	-13.0	-36.5	
	5647.50	3.5	V	3.0	35.5	1.0	-31.0	-13.0	-18.0	
	7530.00	-5.3	V	3.0	35.7	1.0	-40.1	-13.0	-27.1	
	3765.00	-15.9	H	3.0	35.8	1.0	-50.7	-13.0	-37.7	
	5647.50	5.9	H	3.0	35.5	1.0	-28.6	-13.0	-15.6	
	7530.00	-9.3	H	3.0	35.7	1.0	-44.1	-13.0	-31.1	
	High Ch, 1913.5									
	3827.00	-15.4	V	3.0	35.8	1.0	-50.2	-13.0	-37.2	
	5740.50	3.7	V	3.0	35.5	1.0	-30.8	-13.0	-17.8	
	7654.00	-7.6	V	3.0	35.8	1.0	-42.3	-13.0	-29.3	
	3827.00	-14.7	H	3.0	35.8	1.0	-49.5	-13.0	-36.5	
	5740.50	4.1	H	3.0	35.5	1.0	-30.4	-13.0	-17.4	
	7654.00	-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 #:		15I20150								
Date:		3/11/2015								
Test Engineer:		R.Z								
Configuration:		EUT/ AC Charger/ Headset								
Location:		Chamber G								
Mode:		LTE_QPSK Band 25 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
	Low Ch, 1851.5									
Band	3703.00	-12.1	V	3.0	35.9	1.0	-46.9	-13.0	-33.9	
	5554.50	6.6	V	3.0	35.5	1.0	-27.9	-13.0	-14.9	
LTE25	7406.00	-7.3	V	3.0	35.7	1.0	-42.0	-13.0	-29.0	
	3703.00	-10.7	H	3.0	35.9	1.0	-45.6	-13.0	-32.6	
	5554.50	8.0	H	3.0	35.5	1.0	-26.5	-13.0	-13.5	
3MHz	7406.00	-8.1	H	3.0	35.7	1.0	-42.8	-13.0	-29.8	
	Mid Ch, 1882.5									
QPSK	3765.00	-15.9	V	3.0	35.8	1.0	-50.7	-13.0	-37.7	
	5647.50	3.8	V	3.0	35.5	1.0	-30.7	-13.0	-17.7	
	7530.00	-5.5	V	3.0	35.7	1.0	-40.3	-13.0	-27.3	
	3765.00	-16.6	H	3.0	35.8	1.0	-51.4	-13.0	-38.4	
	5647.50	6.0	H	3.0	35.5	1.0	-28.5	-13.0	-15.5	
	7530.00	-9.8	H	3.0	35.7	1.0	-44.6	-13.0	-31.6	
	High Ch, 1913.5									
	3827.00	-15.3	V	3.0	35.8	1.0	-50.1	-13.0	-37.1	
	5740.50	3.4	V	3.0	35.5	1.0	-31.1	-13.0	-18.1	
	7654.00	-7.4	V	3.0	35.8	1.0	-42.1	-13.0	-29.1	
	3827.00	-15.5	H	3.0	35.8	1.0	-50.3	-13.0	-37.3	
	5740.50	4.3	H	3.0	35.5	1.0	-30.2	-13.0	-17.2	
	7654.00	-7.9	H	3.0	35.8	1.0	-42.7	-13.0	-29.7	

UL Verification Services, Inc.										
Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I20150								
Date:		3/11/2015								
Test Engineer:		R.Z								
Configuration:		EUT/ AC Charger/ Headset								
Location:		Chamber G								
Mode:		LTE_16QAM Band 25 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	-7.6	V	3.0	35.9	1.0	-42.4	-13.0	-29.4	
	5552.10	5.5	V	3.0	35.5	1.0	-29.0	-13.0	-16.0	
LTE25	7402.80	-10.2	V	3.0	35.7	1.0	-44.9	-13.0	-31.9	
	3701.40	-8.1	H	3.0	35.9	1.0	-43.0	-13.0	-30.0	
1.4MHz	5552.10	4.3	H	3.0	35.5	1.0	-30.2	-13.0	-17.2	
	7402.80	-8.6	H	3.0	35.7	1.0	-43.3	-13.0	-30.3	
	Mid Ch, 1882.5									
16QAM	3765.00	-16.6	V	3.0	35.8	1.0	-44.7	-13.0	-31.7	
	5647.50	0.7	V	3.0	35.5	1.0	-33.8	-13.0	-20.8	
	7530.00	-6.7	V	3.0	35.7	1.0	-41.5	-13.0	-28.5	
	3765.00	-9.1	H	3.0	35.8	1.0	-43.9	-13.0	-30.9	
	5647.50	3.1	H	3.0	35.5	1.0	-31.4	-13.0	-18.4	
	7530.00	-10.3	H	3.0	35.7	1.0	-45.1	-13.0	-32.1	
	High Ch, 1914.3									
	3828.60	-16.0	V	3.0	35.8	1.0	-50.8	-13.0	-37.8	
	5742.90	1.7	V	3.0	35.5	1.0	-32.8	-13.0	-19.8	
	7657.20	-5.9	V	3.0	35.8	1.0	-40.6	-13.0	-27.6	
	3828.60	-13.8	H	3.0	35.8	1.0	-48.6	-13.0	-35.6	
	5742.90	4.5	H	3.0	35.5	1.0	-30.0	-13.0	-17.0	
	7657.20	-9.4	H	3.0	35.8	1.0	-44.2	-13.0	-31.2	

UL Verification Services, Inc.										
Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I20150								
Date:		3/11/2015								
Test Engineer:		R.Z								
Configuration:		EUT/ AC Charger/ Headset								
Location:		Chamber G								
Mode:		LTE_QPSK Band 25 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	-7.4	V	3.0	35.9	1.0	-42.3	-13.0	-29.3	
	5552.10	6.8	V	3.0	35.5	1.0	-27.7	-13.0	-14.7	
LTE25	7402.80	-11.3	V	3.0	35.7	1.0	-46.0	-13.0	-33.0	
	3701.40	-9.5	H	3.0	35.9	1.0	-44.4	-13.0	-31.4	
1.4MHz	5552.10	3.9	H	3.0	35.5	1.0	-30.6	-13.0	-17.6	
	7402.80	-9.4	H	3.0	35.7	1.0	-44.1	-13.0	-31.1	
	Mid Ch, 1882.5									
QPSK	3765.00	-16.7	V	3.0	35.8	1.0	-51.5	-13.0	-38.5	
	5647.50	1.1	V	3.0	35.5	1.0	-33.4	-13.0	-20.4	
	7530.00	-6.6	V	3.0	35.7	1.0	-41.4	-13.0	-28.4	
	3765.00	-9.0	H	3.0	35.8	1.0	-43.8	-13.0	-30.8	
	5647.50	3.4	H	3.0	35.5	1.0	-31.1	-13.0	-18.1	
	7530.00	-10.1	H	3.0	35.7	1.0	-44.9	-13.0	-31.9	
	High Ch, 1914.3									
	3828.60	-15.9	V	3.0	35.8	1.0	-50.7	-13.0	-37.7	
	5742.90	1.2	V	3.0	35.5	1.0	-33.3	-13.0	-20.3	
	7657.20	-5.7	V	3.0	35.8	1.0	-40.4	-13.0	-27.4	
	3828.60	-14.2	H	3.0	35.8	1.0	-49.0	-13.0	-36.0	
	5742.90	5.6	H	3.0	35.5	1.0	-28.9	-13.0	-15.9	
	7657.20	-9.3	H	3.0	35.8	1.0	-44.1	-13.0	-31.1	

LTE Band 12

**UL Verification Services, Inc.
 Above 1GHz High Frequency Substitution Measurement**

Company: LG Electronics
Project #: 15I20150
Date: 03/11/15
Test Engineer: R.Z
Configuration: EUT/ AC Charger/ Headset
Location: Chamber G
Mode: LTE_16QAM Band 12 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)	Note
LTE12 10MHz 16QAM	Low Ch,704									
	1408.00	-9.5	V	3.0	37.4	1.0	-45.9	-13.0	-32.9	
	2112.00	-12.7	V	3.0	36.6	1.0	-48.3	-13.0	-35.3	
	2816.00	-20.1	V	3.0	36.4	1.0	-55.5	-13.0	-42.5	
	1408.00	-9.2	H	3.0	37.4	1.0	-45.5	-13.0	-32.5	
	2112.00	-15.0	H	3.0	36.6	1.0	-50.6	-13.0	-37.6	
	2816.00	-22.1	H	3.0	36.4	1.0	-57.5	-13.0	-44.5	
	Mid Ch,707.5									
	1415.00	-10.6	V	3.0	37.3	1.0	-46.9	-13.0	-33.9	
	2122.50	-14.3	V	3.0	36.6	1.0	-49.9	-13.0	-36.9	
	2830.00	-21.1	V	3.0	36.4	1.0	-56.5	-13.0	-43.5	
	1415.00	-12.4	H	3.0	37.3	1.0	-48.8	-13.0	-35.8	
	2122.50	-15.6	H	3.0	36.6	1.0	-51.2	-13.0	-38.2	
	2830.00	-23.1	H	3.0	36.4	1.0	-58.4	-13.0	-45.4	
	High Ch,711									
	1422.00	-9.8	V	3.0	37.3	1.0	-46.1	-13.0	-33.1	
	2133.00	-10.6	V	3.0	36.6	1.0	-46.1	-13.0	-33.1	
	2844.00	-17.6	V	3.0	36.4	1.0	-52.9	-13.0	-39.9	
1422.00	-9.5	H	3.0	37.3	1.0	-45.8	-13.0	-32.8		
2133.00	-13.7	H	3.0	36.6	1.0	-49.2	-13.0	-36.2		

UL Verification Services, Inc.
Above 1GHz High Frequency Substitution Measurement

Company: LG Electronics
Project #: 15I20150
Date: 03/11/15
Test Engineer: R.Z
Configuration: EUT/ AC Charger/ Headset
Location: Chamber G
Mode: LTE_QPSK Band 12 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)	Note
LTE12	Low Ch,704									
10MHz	1408.00	-9.9	V	3.0	37.4	1.0	-46.3	-13.0	-33.3	
	2112.00	-12.8	V	3.0	36.6	1.0	-48.4	-13.0	-35.4	
QPSK	2816.00	-19.7	V	3.0	36.4	1.0	-55.1	-13.0	-42.1	
	1408.00	-9.5	H	3.0	37.4	1.0	-45.8	-13.0	-32.8	
	2112.00	-15.3	H	3.0	36.6	1.0	-50.9	-13.0	-37.9	
	2816.00	-21.9	H	3.0	36.4	1.0	-57.3	-13.0	-44.3	
	Mid Ch,707.5									
	1415.00	-10.3	V	3.0	37.3	1.0	-46.6	-13.0	-33.6	
	2122.50	-15.2	V	3.0	36.6	1.0	-50.8	-13.0	-37.8	
	2830.00	-21.3	V	3.0	36.4	1.0	-56.7	-13.0	-43.7	
	1415.00	-13.0	H	3.0	37.3	1.0	-49.4	-13.0	-36.4	
	2122.50	-15.4	H	3.0	36.6	1.0	-51.0	-13.0	-38.0	
	2830.00	-22.2	H	3.0	36.4	1.0	-57.5	-13.0	-44.5	
	High Ch,711									
	1422.00	-9.4	V	3.0	37.3	1.0	-45.7	-13.0	-32.7	
	2133.00	-9.0	V	3.0	36.6	1.0	-44.5	-13.0	-31.5	
	2844.00	-17.0	V	3.0	36.4	1.0	-52.3	-13.0	-39.3	
	1422.00	-9.4	H	3.0	37.3	1.0	-45.7	-13.0	-32.7	
	2133.00	-13.3	H	3.0	36.6	1.0	-48.8	-13.0	-35.8	

UL Verification Services, Inc.
Above 1GHz High Frequency Substitution Measurement

Company: LG Electronics
Project #: 15I20150
Date: 03/11/15
Test Engineer: R.Z
Configuration: EUT/ AC Charger/ Headset
Location: Chamber G
Mode: LTE_16QAM Band 12 Harmonics, 5MHz Bandwidth

Band	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Note
LTE12	Low Ch, 701.50									
5MHz	1403.00	-9.0	V	3.0	37.4	1.0	-45.4	-13.0	-32.4	
	2104.50	-12.0	V	3.0	36.6	1.0	-47.6	-13.0	-34.6	
16QAM	2806.00	-21.6	V	3.0	36.4	1.0	-57.0	-13.0	-44.0	
	1403.00	-9.0	H	3.0	37.4	1.0	-45.3	-13.0	-32.3	
	2104.50	-15.6	H	3.0	36.6	1.0	-51.2	-13.0	-38.2	
	2806.00	-22.6	H	3.0	36.4	1.0	-58.0	-13.0	-45.0	
	Mid Ch, 707.50									
	1415.00	-7.9	V	3.0	37.3	1.0	-44.2	-13.0	-31.2	
	2122.50	-15.8	V	3.0	36.6	1.0	-51.4	-13.0	-38.4	
	2830.00	-18.1	V	3.0	36.4	1.0	-53.5	-13.0	-40.5	
	1415.00	-12.0	H	3.0	37.3	1.0	-48.4	-13.0	-35.4	
	2122.50	-19.3	H	3.0	36.6	1.0	-54.9	-13.0	-41.9	
	2830.00	-20.2	H	3.0	36.4	1.0	-55.5	-13.0	-42.5	
	High Ch, 713.50									
	1427.00	-6.3	V	3.0	37.3	1.0	-42.6	-13.0	-29.6	
	2140.50	-12.2	V	3.0	36.6	1.0	-47.7	-13.0	-34.7	
	2854.00	-20.5	V	3.0	36.4	1.0	-55.8	-13.0	-42.8	
	1427.00	-7.0	H	3.0	37.3	1.0	-43.3	-13.0	-30.3	
	2140.50	-16.5	H	3.0	36.6	1.0	-52.0	-13.0	-39.0	

UL Verification Services, Inc.
Above 1GHz High Frequency Substitution Measurement

Company: LG Electronics
Project #: 15I20150
Date: 03/11/15
Test Engineer: R.Z
Configuration: EUT/ AC Charger/ Headset
Location: Chamber G
Mode: LTE_QPSK Band 12 Harmonics, 5MHz Bandwidth

Band	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Note
LTE12	Low Ch, 701.50									
5MHz	1403.00	-9.1	V	3.0	37.4	1.0	-45.5	-13.0	-32.5	
QPSK	2104.50	-10.8	V	3.0	36.6	1.0	-46.4	-13.0	-33.4	
	2806.00	-21.3	V	3.0	36.4	1.0	-56.7	-13.0	-43.7	
	1403.00	-9.2	H	3.0	37.4	1.0	-45.5	-13.0	-32.5	
	2104.50	-14.8	H	3.0	36.6	1.0	-50.4	-13.0	-37.4	
	2806.00	-21.6	H	3.0	36.4	1.0	-57.0	-13.0	-44.0	
	Mid Ch, 707.50									
	1415.00	-7.2	V	3.0	37.3	1.0	-43.5	-13.0	-30.5	
	2122.50	-15.5	V	3.0	36.6	1.0	-51.1	-13.0	-38.1	
	2830.00	-17.6	V	3.0	36.4	1.0	-53.0	-13.0	-40.0	
	1415.00	-11.3	H	3.0	37.3	1.0	-47.7	-13.0	-34.7	
	2122.50	-18.8	H	3.0	36.6	1.0	-54.4	-13.0	-41.4	
	2830.00	-20.4	H	3.0	36.4	1.0	-55.7	-13.0	-42.7	
	High Ch, 713.50									
	1427.00	-6.0	V	3.0	37.3	1.0	-42.3	-13.0	-29.3	
	2140.50	-11.6	V	3.0	36.6	1.0	-47.1	-13.0	-34.1	
	2854.00	-20.2	V	3.0	36.4	1.0	-55.5	-13.0	-42.5	
	1427.00	-6.0	H	3.0	37.3	1.0	-42.3	-13.0	-29.3	
	2140.50	-17.2	H	3.0	36.6	1.0	-52.7	-13.0	-39.7	

UL Verification Services, Inc.
Above 1GHz High Frequency Substitution Measurement

Company: LG Electronics
Project #: 15I20150
Date: 03/11/15
Test Engineer: R.Z
Configuration: EUT/ AC Charger/ Headset
Location: Chamber G
Mode: LTE_16QAM Band 12 Harmonics, 3MHz Bandwidth

Band	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamplifier (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Note
LTE12 3MHz 16QAM	Low Ch, 700.5									
	1401.00	-11.0	V	3.0	37.4	1.0	-47.4	-13.0	-34.4	
	2101.50	-11.9	V	3.0	36.6	1.0	-47.5	-13.0	-34.5	
	2802.00	-19.9	V	3.0	36.4	1.0	-55.3	-13.0	-42.3	
	1401.00	-11.1	H	3.0	37.4	1.0	-47.4	-13.0	-34.4	
	2101.50	-15.4	H	3.0	36.6	1.0	-51.0	-13.0	-38.0	
	2802.00	-20.1	H	3.0	36.4	1.0	-55.5	-13.0	-42.5	
	Mid Ch, 707.50									
	1415.00	-10.7	V	3.0	37.3	1.0	-47.0	-13.0	-34.0	
	2122.00	-12.8	V	3.0	36.6	1.0	-48.4	-13.0	-35.4	
	2830.00	-18.6	V	3.0	36.4	1.0	-54.0	-13.0	-41.0	
	1415.00	-9.9	H	3.0	37.3	1.0	-46.3	-13.0	-33.3	
	2122.00	-14.4	H	3.0	36.6	1.0	-50.0	-13.0	-37.0	
	2830.00	-20.1	H	3.0	36.4	1.0	-55.4	-13.0	-42.4	
	High Ch, 714.5									
	1429.00	-8.0	V	3.0	37.3	1.0	-44.3	-13.0	-31.3	
	2143.50	-16.1	V	3.0	36.6	1.0	-51.6	-13.0	-38.6	
	2858.00	-19.4	V	3.0	36.4	1.0	-54.7	-13.0	-41.7	
	1429.00	-9.6	H	3.0	37.3	1.0	-45.9	-13.0	-32.9	
	2143.50	-19.7	H	3.0	36.6	1.0	-55.2	-13.0	-42.2	

UL Verification Services, Inc.
Above 1GHz High Frequency Substitution Measurement

Company: LG Electronics
Project #: 15I20150
Date: 03/11/15
Test Engineer: R.Z
Configuration: EUT/ AC Charger/ Headset
Location: Chamber G
Mode: LTE_QPSK Band 12 Harmonics, 3MHz Bandwidth

Band	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Note
LTE12	Low Ch, 700.5									
3MHz	1401.00	-11.3	V	3.0	37.4	1.0	-47.6	-13.0	-34.6	
	2101.50	-12.3	V	3.0	36.6	1.0	-47.9	-13.0	-34.9	
QPSK	2802.00	-20.3	V	3.0	36.4	1.0	-55.7	-13.0	-42.7	
	1401.00	-10.2	H	3.0	37.4	1.0	-46.5	-13.0	-33.5	
	2101.50	-14.9	H	3.0	36.6	1.0	-50.5	-13.0	-37.5	
	2802.00	-19.3	H	3.0	36.4	1.0	-54.7	-13.0	-41.7	
	Mid Ch, 707.50									
	1415.00	-10.2	V	3.0	37.3	1.0	-46.5	-13.0	-33.5	
	2122.00	-12.6	V	3.0	36.6	1.0	-48.2	-13.0	-35.2	
	2830.00	-18.1	V	3.0	36.4	1.0	-53.5	-13.0	-40.5	
	1415.00	-10.1	H	3.0	37.3	1.0	-46.4	-13.0	-33.4	
	2122.00	-14.6	H	3.0	36.6	1.0	-50.2	-13.0	-37.2	
	2830.00	-19.4	H	3.0	36.4	1.0	-54.7	-13.0	-41.7	
	High Ch, 714.5									
	1429.00	-7.6	V	3.0	37.3	1.0	-43.9	-13.0	-30.9	
	2143.50	-17.4	V	3.0	36.6	1.0	-52.9	-13.0	-39.9	
	2858.00	-19.2	V	3.0	36.4	1.0	-54.5	-13.0	-41.5	
	1429.00	-8.7	H	3.0	37.3	1.0	-45.0	-13.0	-32.0	
	2143.50	-19.2	H	3.0	36.6	1.0	-54.7	-13.0	-41.7	

UL Verification Services, Inc.
Above 1GHz High Frequency Substitution Measurement

Company: LG Electronics
Project #: 15I20150
Date: 03/11/15
Test Engineer: R.Z
Configuration: EUT/ AC Charger/ Headset
Location: Chamber G
Mode: LTE_16QAM Band 12 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)	Note
LTE12	Low Ch, 699.7									
1.4MHz	1399.40	-10.6	V	3.0	37.4	1.0	-47.0	-13.0	-34.0	
	2099.10	-10.5	V	3.0	36.6	1.0	-46.1	-13.0	-33.1	
16QAM	2798.80	-22.3	V	3.0	36.4	1.0	-57.7	-13.0	-44.7	
	1399.40	-9.4	H	3.0	37.4	1.0	-45.7	-13.0	-32.7	
	2099.10	-12.6	H	3.0	36.6	1.0	-48.2	-13.0	-35.2	
	2798.80	-21.9	H	3.0	36.4	1.0	-57.3	-13.0	-44.3	
	Mid Ch, 707.50									
	1415.00	-11.2	V	3.0	37.3	1.0	-47.5	-13.0	-34.5	
	2122.00	-13.0	V	3.0	36.6	1.0	-48.6	-13.0	-35.6	
	2830.00	-19.3	V	3.0	36.4	1.0	-54.7	-13.0	-41.7	
	1415.00	-9.6	H	3.0	37.3	1.0	-46.0	-13.0	-33.0	
	2122.00	-17.0	H	3.0	36.6	1.0	-52.6	-13.0	-39.6	
	2830.00	-19.1	H	3.0	36.4	1.0	-54.4	-13.0	-41.4	
	High Ch, 715.3									
	1430.60	-6.4	V	3.0	37.3	1.0	-42.7	-13.0	-29.7	
	2145.90	-16.2	V	3.0	36.6	1.0	-51.7	-13.0	-38.7	
	2861.20	-16.6	V	3.0	36.4	1.0	-51.9	-13.0	-38.9	
	1430.60	-11.1	H	3.0	37.3	1.0	-47.4	-13.0	-34.4	
	2145.90	-18.5	H	3.0	36.6	1.0	-54.0	-13.0	-41.0	

UL Verification Services, Inc.
Above 1GHz High Frequency Substitution Measurement

Company: LG Electronics
Project #: 15I20150
Date: 3/11/2015
Test Engineer: R.Z
Configuration: EUT/ AC Charger/ Headset
Location: Chamber G
Mode: LTE_QPSK Band 12 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)	Note
LTE12	Low Ch, 699.7									
1.4MHz	1399.40	-11.0	V	3.0	37.4	1.0	-47.3	-13.0	-34.3	
	2099.10	-12.1	V	3.0	36.6	1.0	-47.7	-13.0	-34.7	
QPSK	2798.80	-20.6	V	3.0	36.4	1.0	-56.0	-13.0	-43.0	
	1399.40	-7.8	H	3.0	37.4	1.0	-44.1	-13.0	-31.1	
	2099.10	-15.1	H	3.0	36.6	1.0	-50.7	-13.0	-37.7	
	2798.80	-22.3	H	3.0	36.4	1.0	-57.7	-13.0	-44.7	
	Mid Ch, 707.50									
	1415.00	-8.8	V	3.0	37.3	1.0	-45.1	-13.0	-32.1	
	2122.00	-11.5	V	3.0	36.6	1.0	-47.1	-13.0	-34.1	
	2830.00	-18.1	V	3.0	36.4	1.0	-53.5	-13.0	-40.5	
	1415.00	-10.0	H	3.0	37.3	1.0	-46.4	-13.0	-33.4	
	2122.00	-16.7	H	3.0	36.6	1.0	-52.3	-13.0	-39.3	
	2830.00	-18.7	H	3.0	36.4	1.0	-54.0	-13.0	-41.0	
	High Ch, 715.3									
	1430.60	-7.7	V	3.0	37.3	1.0	-44.0	-13.0	-31.0	
	2145.90	-15.4	V	3.0	36.6	1.0	-50.9	-13.0	-37.9	
	2861.20	-18.1	V	3.0	36.4	1.0	-53.4	-13.0	-40.4	
	1430.60	-7.6	H	3.0	37.3	1.0	-43.9	-13.0	-30.9	
	2145.90	-17.7	H	3.0	36.6	1.0	-53.2	-13.0	-40.2	

LTE Band 5

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I20150								
Date:		3/12/2015								
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
Band	Low Ch, 829									
	1658.00	0.4	V	3.0	37.0	1.0	-35.7	-13.0	-22.7	
	2487.00	-12.8	V	3.0	36.4	1.0	-48.2	-13.0	-35.2	
LTES	3316.00	-21.3	V	3.0	36.2	1.0	-56.5	-13.0	-43.5	
	1658.00	-12.4	H	3.0	37.0	1.0	-48.4	-13.0	-35.4	
10MHz	2487.00	-18.1	H	3.0	36.4	1.0	-53.6	-13.0	-40.6	
	3316.00	-21.1	H	3.0	36.2	1.0	-56.3	-13.0	-43.3	
16QAM	Mid Ch, 836.5									
	1673.00	2.1	V	3.0	37.0	1.0	-33.9	-13.0	-20.9	
	2509.50	-16.8	V	3.0	36.4	1.0	-52.2	-13.0	-39.2	
	3346.00	-19.8	V	3.0	36.1	1.0	-54.9	-13.0	-41.9	
	1673.00	-12.4	H	3.0	37.0	1.0	-48.5	-13.0	-35.5	
	2509.50	-18.7	H	3.0	36.4	1.0	-54.1	-13.0	-41.1	
	3346.00	-20.5	H	3.0	36.1	1.0	-55.6	-13.0	-42.6	
High Ch, 844										
	1688.00	3.7	V	3.0	37.0	1.0	-32.3	-13.0	-19.3	
	2532.00	-12.7	V	3.0	36.4	1.0	-48.1	-13.0	-35.1	
	3376.00	-21.1	V	3.0	36.1	1.0	-56.2	-13.0	-43.2	
	1688.00	-6.0	H	3.0	37.0	1.0	-42.0	-13.0	-29.0	
	2532.00	-15.0	H	3.0	36.4	1.0	-50.4	-13.0	-37.4	
	3376.00	-21.2	H	3.0	36.1	1.0	-56.3	-13.0	-43.3	

UL Verification Services, Inc.										
Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I20150								
Date:		3/12/2015								
Test Engineer:		R.Z								
Configuration:		EUT/ AC Charger/ Headset								
Location:		Chamber G								
Mode:		LTE_QPSK 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									
Band	1658.00	0.5	V	3.0	37.0	1.0	-35.6	-13.0	-22.6	
	2487.00	-12.9	V	3.0	36.4	1.0	-48.3	-13.0	-35.3	
LTE5	3316.00	-20.5	V	3.0	36.2	1.0	-55.7	-13.0	-42.7	
	1658.00	-10.6	H	3.0	37.0	1.0	-46.6	-13.0	-33.6	
10MHz	2487.00	-17.4	H	3.0	36.4	1.0	-52.8	-13.0	-39.8	
	3316.00	-21.2	H	3.0	36.2	1.0	-56.4	-13.0	-43.4	
	Mid Ch, 836.5									
QPSK	1673.00	-0.9	V	3.0	37.0	1.0	-36.9	-13.0	-23.9	
	2509.50	-17.3	V	3.0	36.4	1.0	-52.7	-13.0	-39.7	
	3346.00	-21.0	V	3.0	36.1	1.0	-56.1	-13.0	-43.1	
	1673.00	-12.3	H	3.0	37.0	1.0	-48.3	-13.0	-35.3	
	2509.50	-21.1	H	3.0	36.4	1.0	-56.5	-13.0	-43.5	
	3346.00	-20.3	H	3.0	36.1	1.0	-55.4	-13.0	-42.4	
	High Ch, 844									
	1688.00	2.5	V	3.0	37.0	1.0	-33.5	-13.0	-20.5	
	2532.00	-14.9	V	3.0	36.4	1.0	-50.3	-13.0	-37.3	
	3376.00	-20.6	V	3.0	36.1	1.0	-55.7	-13.0	-42.7	
	1688.00	-8.8	H	3.0	37.0	1.0	-44.8	-13.0	-31.8	
	2532.00	-17.5	H	3.0	36.4	1.0	-52.9	-13.0	-39.9	
	3376.00	-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 #:		15I20150								
Date:		3/12/2015								
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
	Low Ch, 826.5									
Band	1653.00	-1.3	V	3.0	37.0	1.0	-37.3	-13.0	-24.3	
	2479.50	-15.5	V	3.0	36.4	1.0	-51.0	-13.0	-38.0	
LTE5	3306.00	-19.9	V	3.0	36.2	1.0	-55.0	-13.0	-42.0	
	1653.00	-9.4	H	3.0	37.0	1.0	-45.5	-13.0	-32.5	
	2479.50	-18.1	H	3.0	36.4	1.0	-53.5	-13.0	-40.5	
5MHz	3306.00	-20.4	H	3.0	36.2	1.0	-55.5	-13.0	-42.5	
	Mid Ch, 836.5									
16QAM	1673.00	3.2	V	3.0	37.0	1.0	-32.9	-13.0	-19.9	
	2509.50	-17.1	V	3.0	36.4	1.0	-52.5	-13.0	-39.5	
	3346.00	-20.8	V	3.0	36.1	1.0	-55.9	-13.0	-42.9	
	1673.00	-7.6	H	3.0	37.0	1.0	-43.6	-13.0	-30.6	
	2509.50	-16.8	H	3.0	36.4	1.0	-52.2	-13.0	-39.2	
	3346.00	-20.9	H	3.0	36.1	1.0	-56.0	-13.0	-43.0	
	High Ch, 846.5									
	1693.00	1.6	V	3.0	37.0	1.0	-34.4	-13.0	-21.4	
	2539.50	-9.5	V	3.0	36.4	1.0	-45.0	-13.0	-32.0	
	3386.00	-20.4	V	3.0	36.1	1.0	-55.5	-13.0	-42.5	
	1693.00	-7.6	H	3.0	37.0	1.0	-43.6	-13.0	-30.6	
	2539.50	-18.6	H	3.0	36.4	1.0	-54.0	-13.0	-41.0	
	3386.00	-21.2	H	3.0	36.1	1.0	-56.3	-13.0	-43.3	

UL Verification Services, Inc.										
Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I20150								
Date:		3/12/2015								
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
	Low Ch, 826.5									
Band	1653.00	-1.6	V	3.0	37.0	1.0	-37.6	-13.0	-24.6	
	2479.50	-14.8	V	3.0	36.4	1.0	-50.3	-13.0	-37.3	
LTE5	3306.00	-19.8	V	3.0	36.2	1.0	-54.9	-13.0	-41.9	
	1653.00	-7.7	H	3.0	37.0	1.0	-43.7	-13.0	-30.7	
	2479.50	-17.5	H	3.0	36.4	1.0	-52.9	-13.0	-39.9	
5MHz	3306.00	-20.7	H	3.0	36.2	1.0	-55.8	-13.0	-42.8	
	Mid Ch, 836.5									
QPSK	1673.00	1.5	V	3.0	37.0	1.0	-34.5	-13.0	-21.5	
	2509.50	-14.9	V	3.0	36.4	1.0	-50.3	-13.0	-37.3	
	3346.00	-20.8	V	3.0	36.1	1.0	-55.9	-13.0	-42.9	
	1673.00	-5.4	H	3.0	37.0	1.0	-41.4	-13.0	-28.4	
	2509.50	-15.0	H	3.0	36.4	1.0	-50.4	-13.0	-37.4	
	3346.00	-20.0	H	3.0	36.1	1.0	-55.1	-13.0	-42.1	
	High Ch, 846.5									
	1693.00	1.9	V	3.0	37.0	1.0	-34.1	-13.0	-21.1	
	2539.50	-9.6	V	3.0	36.4	1.0	-45.0	-13.0	-32.0	
	3386.00	-21.1	V	3.0	36.1	1.0	-56.2	-13.0	-43.2	
	1693.00	-5.1	H	3.0	37.0	1.0	-41.1	-13.0	-28.1	
	2539.50	-14.8	H	3.0	36.4	1.0	-50.2	-13.0	-37.2	
	3386.00	-20.9	H	3.0	36.1	1.0	-56.0	-13.0	-43.0	