

Band LTE41 5MHz 16QAM	High Frequency Substitution Measurement UL Verification Services, Inc.																																																																																																
	Company:		LG Electronics																																																																																														
	Project #:		15I21523																																																																																														
	Date:		8/24/2015																																																																																														
	Test Engineer:		R.Alegre																																																																																														
	Configuration:		EUT only																																																																																														
	Location:		Chamber B																																																																																														
	Mode:		LTE_16QAM Band 41 Fundamentals, 5MHz Bandwidth																																																																																														
	Test Equipment: Receiving: Horn T345, and Chamber B SMA Cables Substitution: Horn T59, Xft SMA Cable (SN # 506392) Warehouse																																																																																																
	<table border="1"> <thead> <tr> <th>f MHz</th> <th>SG reading (dBm)</th> <th>Ant. Pol. (H/V)</th> <th>Cable Loss (dB)</th> <th>Antenna Gain (dBi)</th> <th>EIRP (dBm)</th> <th>Limit (dBm)</th> <th>Delta (dB)</th> <th>Notes</th> </tr> </thead> <tbody> <tr> <td colspan="9">Low Ch</td> </tr> <tr> <td>2498.50</td> <td>4.94</td> <td>V</td> <td>0.9</td> <td>9.5</td> <td>13.51</td> <td>33.0</td> <td>-19.5</td> <td></td> </tr> <tr> <td>2498.50</td> <td>9.50</td> <td>H</td> <td>0.9</td> <td>9.5</td> <td>18.07</td> <td>33.0</td> <td>-14.9</td> <td></td> </tr> <tr> <td colspan="9">Mid Ch</td> </tr> <tr> <td>2593.00</td> <td>5.84</td> <td>V</td> <td>0.9</td> <td>9.5</td> <td>14.45</td> <td>33.0</td> <td>-18.6</td> <td></td> </tr> <tr> <td>2593.00</td> <td>10.09</td> <td>H</td> <td>0.9</td> <td>9.5</td> <td>18.70</td> <td>33.0</td> <td>-14.3</td> <td></td> </tr> <tr> <td colspan="9">High Ch</td> </tr> <tr> <td>2687.50</td> <td>6.04</td> <td>V</td> <td>0.9</td> <td>9.7</td> <td>14.89</td> <td>33.0</td> <td>-18.1</td> <td></td> </tr> <tr> <td>2687.50</td> <td>8.94</td> <td>H</td> <td>0.9</td> <td>9.7</td> <td>17.79</td> <td>33.0</td> <td>-15.2</td> <td></td> </tr> </tbody> </table>								f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	Low Ch									2498.50	4.94	V	0.9	9.5	13.51	33.0	-19.5		2498.50	9.50	H	0.9	9.5	18.07	33.0	-14.9		Mid Ch									2593.00	5.84	V	0.9	9.5	14.45	33.0	-18.6		2593.00	10.09	H	0.9	9.5	18.70	33.0	-14.3		High Ch									2687.50	6.04	V	0.9	9.7	14.89	33.0	-18.1		2687.50	8.94	H	0.9	9.7	17.79	33.0	-15.2
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Band

LTE41

5MHz

QPSK

High Frequency Substitution Measurement

UL Verification Services, Inc.

Company:

Project #:

Date:

Test Engineer:

Configuration:

Location:

Mode:

LG Electronics

15I21523

8/24/2015

R.Alegre

EUT only

Chamber B

LTE_QPSK Band 41 Fundamentals, 5MHz Bandwidth

Test Equipment:

Receiving: Horn T345, and Chamber B SMA Cables

Substitution: Horn T59, Xft SMA Cable (SN # 506392) Warehouse

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch								
2498.50	5.80	V	0.9	9.5	14.37	33.0	-18.6	
2498.50	9.78	H	0.9	9.5	18.35	33.0	-14.6	
Mid Ch								
2593.00	6.88	V	0.9	9.5	15.49	33.0	-17.5	
2593.00	10.83	H	0.9	9.5	19.44	33.0	-13.6	
High Ch								
2687.50	6.98	V	0.9	9.7	15.83	33.0	-17.2	
2687.50	9.81	H	0.9	9.7	18.66	33.0	-14.3	

12.2. FIELD STRENGTH OF SPURIOUS RADIATION

RULE PART(S)

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

LIMIT

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

Part 27: (m)(4) (4) For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

TEST PROCEDURE

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

GSM, WCDMA, CDMA, and LTE

RESULTS

12.2.1. SPURIOUS RADIATION PLOTS

GSM

UL Verification Services, Inc.										
Above 1GHz High Frequency Substitution Measurement										
Company:		LG								
Project #:		15I21523								
Date:		8/22/2015								
Test Engineer:		Jude Semana								
Configuration:		X-pos EUT w/ AC Adapter + Headset								
Location:		Chamber A								
Mode:		GPRS 1900 MHz Harmonics								
	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, 1850.2									
	3700.40	-12.5	V	3.0	35.9	1.0	-47.4	-13.0	-34.4	
GSM	5550.60	-11.5	V	3.0	35.5	1.0	-46.0	-13.0	-33.0	
	7400.80	-10.9	V	3.0	35.7	1.0	-45.6	-13.0	-32.6	
1900	3700.40	-12.5	H	3.0	35.9	1.0	-47.4	-13.0	-34.4	
	5550.60	-10.5	H	3.0	35.5	1.0	-44.9	-13.0	-31.9	
EGPRS	7400.80	-10.9	H	3.0	35.7	1.0	-45.6	-13.0	-32.6	
	Mid Ch, 1880									
	3760.00	-12.9	V	3.0	35.8	1.0	-47.7	-13.0	-34.7	
	5640.00	-10.8	V	3.0	35.5	1.0	-45.3	-13.0	-32.3	
	7520.00	-10.8	V	3.0	35.7	1.0	-45.5	-13.0	-32.5	
	3760.00	-12.5	H	3.0	35.8	1.0	-47.3	-13.0	-34.3	
	5640.00	-10.4	H	3.0	35.5	1.0	-44.9	-13.0	-31.9	
	7520.00	-10.9	H	3.0	35.7	1.0	-45.7	-13.0	-32.7	
	High Ch, 1909.8									
	3819.60	-12.7	V	3.0	35.8	1.0	-47.5	-13.0	-34.5	
	5729.40	-10.6	V	3.0	35.5	1.0	-45.1	-13.0	-32.1	
	7639.20	-11.1	V	3.0	35.8	1.0	-45.9	-13.0	-32.9	
	3819.60	-12.9	H	3.0	35.8	1.0	-47.6	-13.0	-34.6	
	5729.40	-10.2	H	3.0	35.5	1.0	-44.7	-13.0	-31.7	
	7639.20	-10.7	H	3.0	35.8	1.0	-45.5	-13.0	-32.5	

Band
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UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG								
Project #:		15I21523								
Date:		8/22/2015								
Test Engineer:		Jude Semana								
Configuration:		X-pos EUT w/ AC Adapter + Headset								
Location:		Chamber A								
Mode:		Rel99 Band 2 Harmonics								
	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, 1852.4									
	3704.80	-12.5	V	3.0	35.9	1.0	-47.4	-13.0	-34.4	
Band 2	5557.20	-13.3	V	3.0	35.5	1.0	-47.8	-13.0	-34.8	
	7409.60	-13.5	V	3.0	35.7	1.0	-48.2	-13.0	-35.2	
REL99	3704.80	-14.5	H	3.0	35.9	1.0	-49.4	-13.0	-36.4	
	5557.20	-13.4	H	3.0	35.5	1.0	-47.9	-13.0	-34.9	
	7409.60	-12.9	H	3.0	35.7	1.0	-47.6	-13.0	-34.6	
	Mid Ch, 1880									
	3760.00	-12.3	V	3.0	35.8	1.0	-47.1	-13.0	-34.1	
	5640.00	-13.5	V	3.0	35.5	1.0	-48.0	-13.0	-35.0	
	7520.00	-13.4	V	3.0	35.7	1.0	-48.2	-13.0	-35.2	
	3760.00	-14.3	H	3.0	35.8	1.0	-49.1	-13.0	-36.1	
	5640.00	-13.0	H	3.0	35.5	1.0	-47.5	-13.0	-34.5	
	7520.00	-12.4	H	3.0	35.7	1.0	-47.1	-13.0	-34.1	
	High Ch, 1907.6									
	3815.20	-12.7	V	3.0	35.8	1.0	-47.5	-13.0	-34.5	
	5722.80	-13.5	V	3.0	35.5	1.0	-48.0	-13.0	-35.0	
	7630.40	-13.4	V	3.0	35.8	1.0	-48.2	-13.0	-35.2	
	3815.20	-14.8	H	3.0	35.8	1.0	-49.6	-13.0	-36.6	
	5722.80	-12.8	H	3.0	35.5	1.0	-47.3	-13.0	-34.3	
	7630.40	-12.6	H	3.0	35.8	1.0	-47.4	-13.0	-34.4	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG							
Project #:		15I21523							
Date:		8/22/2015							
Test Engineer:		Jude Semana							
Configuration:		X-pos EUT w/ AC Adapter + Headset							
Location:		Chamber C							
Mode:		HSDPA Band 4 Harmonics							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1712.4									
Band 3424.80	-16.8	V	3.0	35.9	1.0	-51.7	-13.0	-38.7	
5137.20	-11.3	V	3.0	35.5	1.0	-45.8	-13.0	-32.8	
Band 4 6849.60	-14.2	V	3.0	35.7	1.0	-49.0	-13.0	-36.0	
3424.80	-16.0	H	3.0	35.9	1.0	-50.8	-13.0	-37.8	
HSDPA 5137.20	-13.5	H	3.0	35.5	1.0	-48.0	-13.0	-35.0	
6849.60	-13.4	H	3.0	35.7	1.0	-48.2	-13.0	-35.2	
Mid Ch, 1732.6									
3465.20	-16.5	V	3.0	35.8	1.0	-51.3	-13.0	-38.3	
5197.80	-11.1	V	3.0	35.5	1.0	-45.6	-13.0	-32.6	
6930.40	-13.8	V	3.0	35.7	1.0	-48.6	-13.0	-35.6	
3465.20	-15.6	H	3.0	35.8	1.0	-50.4	-13.0	-37.4	
5197.80	-13.4	H	3.0	35.5	1.0	-47.9	-13.0	-34.9	
6930.40	-13.6	H	3.0	35.7	1.0	-48.4	-13.0	-35.4	
High Ch, 1752.6									
3505.20	-16.3	V	3.0	35.8	1.0	-51.0	-13.0	-38.0	
5257.80	-10.8	V	3.0	35.5	1.0	-45.3	-13.0	-32.3	
7010.40	-14.4	V	3.0	35.8	1.0	-49.1	-13.0	-36.1	
3505.20	-16.0	H	3.0	35.8	1.0	-50.8	-13.0	-37.8	
5257.80	-13.9	H	3.0	35.5	1.0	-48.4	-13.0	-35.4	
7010.40	-13.1	H	3.0	35.8	1.0	-47.9	-13.0	-34.9	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG								
Project #:		15I21523								
Date:		8/22/2015								
Test Engineer:		Jude Semana								
Configuration:		X-pos EUT w/ AC Adapter + Headset								
Location:		Chamber A								
Mode:		REL99 Band 4 Harmonics								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 1712.4									
Band	3424.80	-15.9	V	3.0	35.9	1.0	-50.8	-13.0	-37.8	
	5137.20	-10.4	V	3.0	35.5	1.0	-44.9	-13.0	-31.9	
	6849.60	-12.2	V	3.0	35.7	1.0	-46.9	-13.0	-33.9	
Band 4	3424.80	-15.2	H	3.0	35.9	1.0	-50.1	-13.0	-37.1	
	5137.20	-13.4	H	3.0	35.5	1.0	-47.9	-13.0	-34.9	
	6849.60	-11.1	H	3.0	35.7	1.0	-45.8	-13.0	-32.8	
REL99	Mid Ch, 1732.6									
	3465.20	-15.3	V	3.0	35.8	1.0	-50.2	-13.0	-37.2	
	5197.80	-9.8	V	3.0	35.5	1.0	-44.3	-13.0	-31.3	
	6930.40	-11.7	V	3.0	35.7	1.0	-46.5	-13.0	-33.5	
	3465.20	-14.7	H	3.0	35.8	1.0	-49.5	-13.0	-36.5	
	5197.80	-13.0	H	3.0	35.5	1.0	-47.4	-13.0	-34.4	
	6930.40	-10.7	H	3.0	35.7	1.0	-45.5	-13.0	-32.5	
	High Ch, 1752.6									
	3505.20	-15.1	V	3.0	35.8	1.0	-49.9	-13.0	-36.9	
	5257.80	-9.9	V	3.0	35.5	1.0	-44.4	-13.0	-31.4	
	7010.40	-12.5	V	3.0	35.8	1.0	-47.3	-13.0	-34.3	
	3505.20	-15.1	H	3.0	35.8	1.0	-49.8	-13.0	-36.8	
	5257.80	-12.7	H	3.0	35.5	1.0	-47.2	-13.0	-34.2	
	7010.40	-11.1	H	3.0	35.8	1.0	-45.8	-13.0	-32.8	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG								
Project #:		15I21523								
Date:		8/22/2015								
Test Engineer:		Jude Semana								
Configuration:		X-pos EUT w/ AC Adapter + Headset								
Location:		Chamber A								
Mode:		HSDPA Band 5 Harmonics								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamplifier (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band	Low Ch, 826.4									
	1652.80	-23.5	V	3.0	37.0	1.0	-59.6	-13.0	-46.6	
	2479.20	-21.3	V	3.0	36.4	1.0	-56.8	-13.0	-43.8	
Band 5	3305.60	-17.1	V	3.0	36.1	1.0	-52.2	-13.0	-39.2	
	1652.80	-24.1	H	3.0	37.0	1.0	-60.1	-13.0	-47.1	
	2479.20	-22.9	H	3.0	36.4	1.0	-58.4	-13.0	-45.4	
HSDPA	3305.60	-17.6	H	3.0	36.1	1.0	-52.8	-13.0	-39.8	
	Mid Ch, 836.6									
	1673.20	-23.2	V	3.0	37.0	1.0	-59.2	-13.0	-46.2	
	2509.80	-20.8	V	3.0	36.4	1.0	-56.2	-13.0	-43.2	
	3346.40	-16.8	V	3.0	36.1	1.0	-52.0	-13.0	-39.0	
	1673.20	-23.5	H	3.0	37.0	1.0	-59.5	-13.0	-46.5	
	2509.80	-22.6	H	3.0	36.4	1.0	-58.0	-13.0	-45.0	
	3346.40	-16.7	H	3.0	36.1	1.0	-51.8	-13.0	-38.8	
	High Ch, 846.6									
	1693.20	-23.3	V	3.0	37.0	1.0	-59.3	-13.0	-46.3	
	2539.80	-20.9	V	3.0	36.4	1.0	-56.3	-13.0	-43.3	
	3386.40	-17.2	V	3.0	36.1	1.0	-52.3	-13.0	-39.3	
	1693.20	-23.7	H	3.0	37.0	1.0	-59.7	-13.0	-46.7	
	2539.80	-22.5	H	3.0	36.4	1.0	-58.0	-13.0	-45.0	
	3386.40	-16.8	H	3.0	36.1	1.0	-51.9	-13.0	-38.9	

UL Verification Services, Inc.										
Above 1GHz High Frequency Substitution Measurement										
Company:		LG								
Project #:		15I21523								
Date:		8/22/2015								
Test Engineer:		Jude Semana								
Configuration:		X-pos EUT w/ AC Adapter + Headset								
Location:		Chamber A								
Mode:		Rel99 Band 5 Harmonics								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band	Low Ch, 826.4									
	1652.80	-24.5	V	3.0	37.0	1.0	-60.5	-13.0	-47.5	
	2479.20	-21.5	V	3.0	36.4	1.0	-56.9	-13.0	-43.9	
Band 5	3305.60	-17.6	V	3.0	36.1	1.0	-52.7	-13.0	-39.7	
	1652.80	-24.3	H	3.0	37.0	1.0	-60.3	-13.0	-47.3	
	2479.20	-23.6	H	3.0	36.4	1.0	-59.0	-13.0	-46.0	
REL99	3305.60	-17.7	H	3.0	36.1	1.0	-52.8	-13.0	-39.8	
	Mid Ch, 836.6									
	1673.20	-24.1	V	3.0	37.0	1.0	-60.1	-13.0	-47.1	
	2509.80	-21.6	V	3.0	36.4	1.0	-57.0	-13.0	-44.0	
	3346.40	-16.4	V	3.0	36.1	1.0	-51.5	-13.0	-38.5	
	1673.20	-23.9	H	3.0	37.0	1.0	-59.9	-13.0	-46.9	
	2509.80	-23.1	H	3.0	36.4	1.0	-58.5	-13.0	-45.5	
	3346.40	-18.2	H	3.0	36.1	1.0	-53.4	-13.0	-40.4	
	High Ch, 846.6									
	1693.20	-24.5	V	3.0	37.0	1.0	-60.4	-13.0	-47.4	
	2539.80	-21.9	V	3.0	36.4	1.0	-57.3	-13.0	-44.3	
	3386.40	-18.0	V	3.0	36.1	1.0	-53.1	-13.0	-40.1	
	1693.20	-24.1	H	3.0	37.0	1.0	-60.1	-13.0	-47.1	
	2539.80	-23.1	H	3.0	36.4	1.0	-58.5	-13.0	-45.5	
	3386.40	-18.3	H	3.0	36.1	1.0	-53.4	-13.0	-40.4	

UL Verification Services Chamber C										
Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I21523								
Date:		8/26/2015								
Test Engineer:		R.Alegre								
Configuration:		EUT w/ AC Adapter + HS								
Mode:		EVDO BC1								

Chamber	Pre-amplifier	Filter	Limit
3m Chamber ▾	T34 8449B ▾	Filter 1 ▾	Part 24 ▾

f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1851.25 MHz									
3.703	-13.6	H	3.0	35.4	1.0	-48.0	-13.0	-35.0	
5.554	-12.9	H	3.0	34.7	1.0	-46.7	-13.0	-33.7	
7.405	-12.4	H	3.0	34.9	1.0	-46.3	-13.0	-33.3	
3.703	-11.1	V	3.0	35.4	1.0	-45.5	-13.0	-32.5	
5.554	-16.2	V	3.0	34.7	1.0	-50.0	-13.0	-37.0	
7.405	-13.3	V	3.0	34.9	1.0	-47.2	-13.0	-34.2	
Mid Ch, 1880 MHz									
3.760	-11.6	H	3.0	35.3	1.0	-46.0	-13.0	-33.0	
5.640	-16.6	H	3.0	34.7	1.0	-50.3	-13.0	-37.3	
7.520	-12.6	H	3.0	34.9	1.0	-46.5	-13.0	-33.5	
3.760	-15.7	V	3.0	35.3	1.0	-50.1	-13.0	-37.1	
5.640	-14.2	V	3.0	34.7	1.0	-47.9	-13.0	-34.9	
7.520	-13.2	V	3.0	34.9	1.0	-47.2	-13.0	-34.2	
High Ch, 1908.75 MHz									
3.818	-19.5	H	3.0	35.3	1.0	-53.8	-13.0	-40.8	
5.726	-14.1	H	3.0	34.7	1.0	-47.9	-13.0	-34.9	
7.635	-11.9	H	3.0	34.9	1.0	-45.9	-13.0	-32.9	
3.818	-15.5	V	3.0	35.3	1.0	-49.7	-13.0	-36.7	
5.726	-15.8	V	3.0	34.7	1.0	-49.5	-13.0	-36.5	
7.635	-13.0	V	3.0	34.9	1.0	-47.0	-13.0	-34.0	

Rev. 03.03.09

Note: No other emissions were detected above the system noise floor.

UL Verification Services Chamber C Above 1GHz High Frequency Substitution Measurement									
Company: LG Electronics Project #: 15I21523 Date: 8/26/2015 Test Engineer: R.Alegre Configuration: EUT w/ AC Adapter + HS Mode: RTT BC1 HARM									
Chamber		Pre-amplifier		Filter		Limit			
3m Chamber		T34 8449B		Filter 1		Part 24			
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1851.25 MHz									
3.703	-13.5	H	3.0	35.4	1.0	-47.9	-13.0	-34.9	
5.554	-12.9	H	3.0	34.7	1.0	-46.6	-13.0	-33.6	
7.405	-12.5	H	3.0	34.9	1.0	-46.4	-13.0	-33.4	
3.703	-11.2	V	3.0	35.4	1.0	-45.6	-13.0	-32.6	
5.554	-16.3	V	3.0	34.7	1.0	-50.0	-13.0	-37.0	
7.405	-13.2	V	3.0	34.9	1.0	-47.1	-13.0	-34.1	
Mid Ch, 1880 MHz									
3.760	-11.5	H	3.0	35.3	1.0	-45.9	-13.0	-32.9	
5.640	-16.6	H	3.0	34.7	1.0	-50.3	-13.0	-37.3	
7.520	-12.5	H	3.0	34.9	1.0	-46.5	-13.0	-33.5	
3.760	-15.7	V	3.0	35.3	1.0	-50.1	-13.0	-37.1	
5.640	-14.5	V	3.0	34.7	1.0	-48.3	-13.0	-35.3	
7.520	-13.3	V	3.0	34.9	1.0	-47.2	-13.0	-34.2	
High Ch, 1908.75 MHz									
3.818	-19.5	H	3.0	35.3	1.0	-53.8	-13.0	-40.8	
5.726	-14.2	H	3.0	34.7	1.0	-47.9	-13.0	-34.9	
7.635	-11.8	H	3.0	34.9	1.0	-45.8	-13.0	-32.8	
3.818	-15.5	V	3.0	35.3	1.0	-49.8	-13.0	-36.8	
5.726	-15.7	V	3.0	34.7	1.0	-49.4	-13.0	-36.4	
7.635	-13.0	V	3.0	34.9	1.0	-46.9	-13.0	-33.9	
Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.									

UL Verification Services Chamber C
Above 1GHz High Frequency Substitution Measurement

Company: LG
Project #: 15I21523
Date: 8/26/2015
Test Engineer: A. Escamilla
Configuration: EUT w/ AC Adapter + HS
Mode: EVDO BC0

Chamber
 3m Chamber

Pre-amplifier
 T34 8449B

Filter
 Filter 1

Limit
 Part 22

f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 824.7MHz									
1.649	-27.5	H	3.0	37.4	1.0	-63.9	-13.0	-50.9	
2.474	-24.5	H	3.0	36.4	1.0	-59.9	-13.0	-46.9	
3.299	-21.7	H	3.0	35.8	1.0	-56.5	-13.0	-43.5	
1.649	-27.7	V	3.0	37.4	1.0	-64.1	-13.0	-51.1	
2.474	-23.2	V	3.0	36.4	1.0	-58.6	-13.0	-45.6	
3.299	-21.3	V	3.0	35.8	1.0	-56.1	-13.0	-43.1	
Mid Ch, 836.52MHz									
1.673	-26.4	H	3.0	37.3	1.0	-62.8	-13.0	-49.8	
2.510	-24.0	H	3.0	36.4	1.0	-59.4	-13.0	-46.4	
3.346	-21.3	H	3.0	35.8	1.0	-56.1	-13.0	-43.1	
1.673	-27.1	V	3.0	37.3	1.0	-63.4	-13.0	-50.4	
2.510	-22.6	V	3.0	36.4	1.0	-58.0	-13.0	-45.0	
3.346	-21.4	V	3.0	35.8	1.0	-56.1	-13.0	-43.1	
High Ch, 848.31MHz									
1.697	-27.0	H	3.0	37.3	1.0	-63.3	-13.0	-50.3	
2.545	-24.1	H	3.0	36.3	1.0	-59.4	-13.0	-46.4	
3.393	-21.5	H	3.0	35.7	1.0	-56.2	-13.0	-43.2	
1.697	-27.0	V	3.0	37.3	1.0	-63.3	-13.0	-50.3	
2.545	-23.0	V	3.0	36.3	1.0	-58.3	-13.0	-45.3	
3.393	-21.5	V	3.0	35.7	1.0	-56.2	-13.0	-43.2	

Rev. 03.03.09
 Note: No other emissions were detected above the system noise floor.

UL Verification Services Chamber C Above 1GHz High Frequency Substitution Measurement									
Company: LG Project #: 15I21523 Date: 8/26/2015 Test Engineer: A. Escamilla Configuration: EUT w/ AC Adapter + HS Mode: RTT BC0									
Chamber		Pre-amplifier		Filter		Limit			
3m Chamber		T34 8449B		Filter 1		Part 22			
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 824.7MHz									
1.649	-26.9	H	3.0	37.4	1.0	-63.3	-13.0	-50.3	
2.474	-24.8	H	3.0	36.4	1.0	-60.2	-13.0	-47.2	
3.299	-21.2	H	3.0	35.8	1.0	-56.0	-13.0	-43.0	
1.649	-28.0	V	3.0	37.4	1.0	-64.3	-13.0	-51.3	
2.474	-22.8	V	3.0	36.4	1.0	-58.2	-13.0	-45.2	
3.299	-21.0	V	3.0	35.8	1.0	-55.8	-13.0	-42.8	
Mid Ch, 836.52MHz									
1.673	-26.0	H	3.0	37.3	1.0	-62.3	-13.0	-49.3	
2.510	-23.9	H	3.0	36.4	1.0	-59.2	-13.0	-46.2	
3.346	-21.1	H	3.0	35.8	1.0	-55.8	-13.0	-42.8	
1.673	-26.7	V	3.0	37.3	1.0	-63.0	-13.0	-50.0	
2.510	-22.8	V	3.0	36.4	1.0	-58.2	-13.0	-45.2	
3.346	-21.0	V	3.0	35.8	1.0	-55.7	-13.0	-42.7	
High Ch, 848.31MHz									
1.697	-27.3	H	3.0	37.3	1.0	-63.6	-13.0	-50.6	
2.545	-24.6	H	3.0	36.3	1.0	-60.0	-13.0	-47.0	
3.393	-21.2	H	3.0	35.7	1.0	-55.9	-13.0	-42.9	
1.697	-26.8	V	3.0	37.3	1.0	-63.1	-13.0	-50.1	
2.545	-22.8	V	3.0	36.3	1.0	-58.1	-13.0	-45.1	
3.393	-20.6	V	3.0	35.7	1.0	-55.3	-13.0	-42.3	
Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.									

UL Verification Services Chamber C Above 1GHz High Frequency Substitution Measurement																																																																																																																																																																																																																																					
Band BC10	Company:		LG																																																																																																																																																																																																																																		
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	3m Chamber		T34 8449B		Filter 1		Part 22																																																																																																																																																																																																																														
	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>f GHz</th> <th>SG reading (dBm)</th> <th>Ant. Pol. (H/V)</th> <th>Distance (m)</th> <th>Preamp (dB)</th> <th>Filter (dB)</th> <th>EIRP (dBm)</th> <th>Limit (dBm)</th> <th>Delta (dB)</th> <th>Notes</th> </tr> </thead> <tbody> <tr><td colspan="10">Low Ch, 817.9MHz</td></tr> <tr><td>1.636</td><td>-27.6</td><td>H</td><td>3.0</td><td>37.4</td><td>1.0</td><td>-64.0</td><td>-13.0</td><td>-51.0</td><td></td></tr> <tr><td>2.454</td><td>-24.8</td><td>H</td><td>3.0</td><td>36.4</td><td>1.0</td><td>-60.2</td><td>-13.0</td><td>-47.2</td><td></td></tr> <tr><td>3.272</td><td>-21.6</td><td>H</td><td>3.0</td><td>35.8</td><td>1.0</td><td>-56.4</td><td>-13.0</td><td>-43.4</td><td></td></tr> <tr><td>1.636</td><td>-27.6</td><td>V</td><td>3.0</td><td>37.4</td><td>1.0</td><td>-64.0</td><td>-13.0</td><td>-51.0</td><td></td></tr> <tr><td>2.454</td><td>-23.2</td><td>V</td><td>3.0</td><td>36.4</td><td>1.0</td><td>-58.6</td><td>-13.0</td><td>-45.6</td><td></td></tr> <tr><td>3.272</td><td>-21.6</td><td>V</td><td>3.0</td><td>35.8</td><td>1.0</td><td>-56.4</td><td>-13.0</td><td>-43.4</td><td></td></tr> <tr><td colspan="10">Mid Ch, 820.50MHz</td></tr> <tr><td>1.641</td><td>-27.8</td><td>H</td><td>3.0</td><td>37.4</td><td>1.0</td><td>-64.2</td><td>-13.0</td><td>-51.2</td><td></td></tr> <tr><td>2.462</td><td>-24.2</td><td>H</td><td>3.0</td><td>36.4</td><td>1.0</td><td>-59.6</td><td>-13.0</td><td>-46.6</td><td></td></tr> <tr><td>3.282</td><td>-21.5</td><td>H</td><td>3.0</td><td>35.8</td><td>1.0</td><td>-56.3</td><td>-13.0</td><td>-43.3</td><td></td></tr> <tr><td>1.641</td><td>-27.5</td><td>V</td><td>3.0</td><td>37.4</td><td>1.0</td><td>-63.9</td><td>-13.0</td><td>-50.9</td><td></td></tr> <tr><td>2.462</td><td>-23.0</td><td>V</td><td>3.0</td><td>36.4</td><td>1.0</td><td>-58.4</td><td>-13.0</td><td>-45.4</td><td></td></tr> <tr><td>3.282</td><td>-21.3</td><td>V</td><td>3.0</td><td>35.8</td><td>1.0</td><td>-56.1</td><td>-13.0</td><td>-43.1</td><td></td></tr> <tr><td colspan="10">High Ch, 823.10MHz</td></tr> <tr><td>1.646</td><td>-27.4</td><td>H</td><td>3.0</td><td>37.4</td><td>1.0</td><td>-63.8</td><td>-13.0</td><td>-50.8</td><td></td></tr> <tr><td>2.469</td><td>-24.5</td><td>H</td><td>3.0</td><td>36.4</td><td>1.0</td><td>-59.9</td><td>-13.0</td><td>-46.9</td><td></td></tr> <tr><td>3.292</td><td>-21.3</td><td>H</td><td>3.0</td><td>35.8</td><td>1.0</td><td>-56.2</td><td>-13.0</td><td>-43.2</td><td></td></tr> <tr><td>1.646</td><td>-27.5</td><td>V</td><td>3.0</td><td>37.4</td><td>1.0</td><td>-63.8</td><td>-13.0</td><td>-50.8</td><td></td></tr> <tr><td>2.469</td><td>-22.7</td><td>V</td><td>3.0</td><td>36.4</td><td>1.0</td><td>-58.1</td><td>-13.0</td><td>-45.1</td><td></td></tr> <tr><td>3.292</td><td>-21.4</td><td>V</td><td>3.0</td><td>35.8</td><td>1.0</td><td>-56.3</td><td>-13.0</td><td>-43.3</td><td></td></tr> </tbody> </table>									f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	Low Ch, 817.9MHz										1.636	-27.6	H	3.0	37.4	1.0	-64.0	-13.0	-51.0		2.454	-24.8	H	3.0	36.4	1.0	-60.2	-13.0	-47.2		3.272	-21.6	H	3.0	35.8	1.0	-56.4	-13.0	-43.4		1.636	-27.6	V	3.0	37.4	1.0	-64.0	-13.0	-51.0		2.454	-23.2	V	3.0	36.4	1.0	-58.6	-13.0	-45.6		3.272	-21.6	V	3.0	35.8	1.0	-56.4	-13.0	-43.4		Mid Ch, 820.50MHz										1.641	-27.8	H	3.0	37.4	1.0	-64.2	-13.0	-51.2		2.462	-24.2	H	3.0	36.4	1.0	-59.6	-13.0	-46.6		3.282	-21.5	H	3.0	35.8	1.0	-56.3	-13.0	-43.3		1.641	-27.5	V	3.0	37.4	1.0	-63.9	-13.0	-50.9		2.462	-23.0	V	3.0	36.4	1.0	-58.4	-13.0	-45.4		3.282	-21.3	V	3.0	35.8	1.0	-56.1	-13.0	-43.1		High Ch, 823.10MHz										1.646	-27.4	H	3.0	37.4	1.0	-63.8	-13.0	-50.8		2.469	-24.5	H	3.0	36.4	1.0	-59.9	-13.0	-46.9		3.292	-21.3	H	3.0	35.8	1.0	-56.2	-13.0	-43.2		1.646	-27.5	V	3.0	37.4	1.0	-63.8	-13.0	-50.8		2.469	-22.7	V	3.0	36.4	1.0	-58.1	-13.0	-45.1		3.292	-21.4	V	3.0	35.8	1.0	-56.3	-13.0	-43.3	
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1.646	-27.4	H	3.0	37.4	1.0	-63.8	-13.0	-50.8																																																																																																																																																																																																																													
2.469	-24.5	H	3.0	36.4	1.0	-59.9	-13.0	-46.9																																																																																																																																																																																																																													
3.292	-21.3	H	3.0	35.8	1.0	-56.2	-13.0	-43.2																																																																																																																																																																																																																													
1.646	-27.5	V	3.0	37.4	1.0	-63.8	-13.0	-50.8																																																																																																																																																																																																																													
2.469	-22.7	V	3.0	36.4	1.0	-58.1	-13.0	-45.1																																																																																																																																																																																																																													
3.292	-21.4	V	3.0	35.8	1.0	-56.3	-13.0	-43.3																																																																																																																																																																																																																													
Rev. 03.03.09																																																																																																																																																																																																																																					
Note: No other emissions were detected above the system noise floor.																																																																																																																																																																																																																																					

UL Verification Services Chamber C Above 1GHz High Frequency Substitution Measurement									
Company: LG Project #: 15I21523 Date: 8/26/2015 Test Engineer: A. Escamilla Configuration: EUT w/ AC Adapter + HS Mode: RTT BC10									
Chamber		Pre-amplifier		Filter		Limit			
3m Chamber		T34 8449B		Filter 1		Part 22			
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 817.9MHz									
1.636	-27.6	H	3.0	37.4	1.0	-64.0	-13.0	-51.0	
2.454	-24.4	H	3.0	36.4	1.0	-59.8	-13.0	-46.8	
3.272	-21.8	H	3.0	35.8	1.0	-56.6	-13.0	-43.6	
1.636	-27.5	V	3.0	37.4	1.0	-63.9	-13.0	-50.9	
2.454	-23.3	V	3.0	36.4	1.0	-58.8	-13.0	-45.8	
3.272	-21.4	V	3.0	35.8	1.0	-56.2	-13.0	-43.2	
Mid Ch, 820.50MHz									
1.641	-27.6	H	3.0	37.4	1.0	-63.9	-13.0	-50.9	
2.462	-24.8	H	3.0	36.4	1.0	-60.2	-13.0	-47.2	
3.282	-21.1	H	3.0	35.8	1.0	-55.9	-13.0	-42.9	
1.641	-27.5	V	3.0	37.4	1.0	-63.9	-13.0	-50.9	
2.462	-23.2	V	3.0	36.4	1.0	-58.6	-13.0	-45.6	
3.282	-21.3	V	3.0	35.8	1.0	-56.1	-13.0	-43.1	
High Ch, 823.10MHz									
1.646	-27.3	H	3.0	37.4	1.0	-63.7	-13.0	-50.7	
2.469	-24.1	H	3.0	36.4	1.0	-59.5	-13.0	-46.5	
3.292	-21.2	H	3.0	35.8	1.0	-56.0	-13.0	-43.0	
1.646	-27.7	V	3.0	37.4	1.0	-64.1	-13.0	-51.1	
2.469	-22.8	V	3.0	36.4	1.0	-58.2	-13.0	-45.2	
3.292	-21.3	V	3.0	35.8	1.0	-56.1	-13.0	-43.1	
Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.									

LTE Band 2

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: LG Electronics Project #: 15I21523 Date: 8/21/2015 Test Engineer: A. Escamilla Configuration: EUT, AC Adapter, Headset Location: Chamber C Mode: LTE_16QAM Band 2 Harmonics, 20MHz Bandwidth									
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1860									
3720.00	-17.8	V	3.0	35.8	1.0	-52.6	-13.0	-39.6	
5580.00	-16.7	V	3.0	35.5	1.0	-51.2	-13.0	-38.2	
7440.00	-13.2	V	3.0	35.7	1.0	-47.9	-13.0	-34.9	
3720.00	-17.7	H	3.0	35.8	1.0	-52.6	-13.0	-39.6	
5580.00	-16.0	H	3.0	35.5	1.0	-50.5	-13.0	-37.5	
7440.00	-11.6	H	3.0	35.7	1.0	-46.3	-13.0	-33.3	
Mid Ch, 1880									
3760.00	-15.1	V	3.0	35.8	1.0	-49.9	-13.0	-36.9	
5640.00	-15.3	V	3.0	35.5	1.0	-49.8	-13.0	-36.8	
7520.00	-13.2	V	3.0	35.7	1.0	-47.9	-13.0	-34.9	
3760.00	-17.0	H	3.0	35.8	1.0	-51.8	-13.0	-38.8	
5640.00	-15.4	H	3.0	35.5	1.0	-49.9	-13.0	-36.9	
7520.00	-12.1	H	3.0	35.7	1.0	-46.8	-13.0	-33.8	
High Ch, 1900									
3800.00	-13.4	V	3.0	35.8	1.0	-48.2	-13.0	-35.2	
5700.00	-15.8	V	3.0	35.5	1.0	-50.3	-13.0	-37.3	
7600.00	-12.3	V	3.0	35.8	1.0	-47.0	-13.0	-34.0	
3800.00	-13.4	H	3.0	35.8	1.0	-48.2	-13.0	-35.2	
5700.00	-15.1	H	3.0	35.5	1.0	-49.6	-13.0	-36.6	
7600.00	-11.8	H	3.0	35.8	1.0	-46.6	-13.0	-33.6	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I21523								
Date:		8/21/2015								
Test Engineer:		A. Escamilla								
Configuration:		EUT, AC Adapter, Headset								
Location:		Chamber C								
Mode:		LTE_QPSK Band 2 Harmonics, 10MHz Bandwidth								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band LTE2 10MHz QPSK	Low Ch, 1855									
	3710.00	-16.7	V	3.0	35.9	1.0	-51.6	-13.0	-38.6	
	5565.00	-15.5	V	3.0	35.5	1.0	-50.0	-13.0	-37.0	
	7420.00	-13.3	V	3.0	35.7	1.0	-48.0	-13.0	-35.0	
	3710.00	-17.3	H	3.0	35.9	1.0	-52.1	-13.0	-39.1	
	5565.00	-15.0	H	3.0	35.5	1.0	-49.5	-13.0	-36.5	
	7420.00	-11.7	H	3.0	35.7	1.0	-46.5	-13.0	-33.5	
	Mid Ch, 1880									
	3760.00	-16.3	V	3.0	35.8	1.0	-51.1	-13.0	-38.1	
	5640.00	-15.4	V	3.0	35.5	1.0	-49.9	-13.0	-36.9	
	7520.00	-13.5	V	3.0	35.7	1.0	-48.2	-13.0	-35.2	
	3760.00	-17.5	H	3.0	35.8	1.0	-52.3	-13.0	-39.3	
	5640.00	-14.9	H	3.0	35.5	1.0	-49.4	-13.0	-36.4	
	7520.00	-12.3	H	3.0	35.7	1.0	-47.1	-13.0	-34.1	
	High Ch, 1905									
	3810.00	-13.7	V	3.0	35.8	1.0	-48.5	-13.0	-35.5	
	5715.00	-15.3	V	3.0	35.5	1.0	-49.8	-13.0	-36.8	
	7620.00	-13.3	V	3.0	35.8	1.0	-48.1	-13.0	-35.1	
	3810.00	-13.8	H	3.0	35.8	1.0	-48.6	-13.0	-35.6	
	5715.00	-15.1	H	3.0	35.5	1.0	-49.6	-13.0	-36.6	
	7620.00	-10.7	H	3.0	35.8	1.0	-45.5	-13.0	-32.5	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I21523								
Date:		8/21/2015								
Test Engineer:		A. Escamilla								
Configuration:		EUT, AC Adapter, Headset								
Location:		Chamber C								
Mode:		LTE_16QAM Band 2 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)	Notes
	Low Ch, 1852.5									
LTE2	3705.00	-15.2	V	3.0	35.9	1.0	-50.1	-13.0	-37.1	
	5557.50	-15.2	V	3.0	35.5	1.0	-49.7	-13.0	-36.7	
5MHz	7410.00	-13.1	V	3.0	35.7	1.0	-47.8	-13.0	-34.8	
	3705.00	-16.0	H	3.0	35.9	1.0	-50.8	-13.0	-37.8	
16QAM	5557.50	-14.8	H	3.0	35.5	1.0	-49.3	-13.0	-36.3	
	7410.00	-11.9	H	3.0	35.7	1.0	-46.7	-13.0	-33.7	
	Mid Ch, 1880									
	3760.00	-17.9	V	3.0	35.8	1.0	-52.7	-13.0	-39.7	
	5640.00	-15.8	V	3.0	35.5	1.0	-50.3	-13.0	-37.3	
	7520.00	-12.6	V	3.0	35.7	1.0	-47.3	-13.0	-34.3	
	3760.00	-18.4	H	3.0	35.8	1.0	-53.2	-13.0	-40.2	
	5640.00	-15.6	H	3.0	35.5	1.0	-50.1	-13.0	-37.1	
	7520.00	-11.8	H	3.0	35.7	1.0	-46.5	-13.0	-33.5	
	High Ch, 1907.5									
	3815.00	-11.8	V	3.0	35.8	1.0	-46.6	-13.0	-33.6	
	5722.50	-15.4	V	3.0	35.5	1.0	-49.9	-13.0	-36.9	
	7630.00	-13.0	V	3.0	35.8	1.0	-47.8	-13.0	-34.8	
	3815.00	-12.3	H	3.0	35.8	1.0	-47.1	-13.0	-34.1	
	5722.50	-15.4	H	3.0	35.5	1.0	-49.8	-13.0	-36.8	
	7630.00	-11.5	H	3.0	35.8	1.0	-46.2	-13.0	-33.2	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I21523								
Date:		8/21/2015								
Test Engineer:		A. Escamilla								
Configuration:		EUT, AC Adapter, Headset								
Location:		Chamber C								
Mode:		LTE_QPSK Band 2 Harmonics, 5MHz Bandwidth								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band LTE2 5MHz QPSK	Low Ch, 1852.5									
	3705.00	-15.2	V	3.0	35.9	1.0	-50.1	-13.0	-37.1	
	5557.50	-15.3	V	3.0	35.5	1.0	-49.7	-13.0	-36.7	
	7410.00	-13.3	V	3.0	35.7	1.0	-48.1	-13.0	-35.1	
	3705.00	-17.1	H	3.0	35.9	1.0	-51.9	-13.0	-38.9	
	5557.50	-16.2	H	3.0	35.5	1.0	-50.7	-13.0	-37.7	
	7410.00	-11.0	H	3.0	35.7	1.0	-45.8	-13.0	-32.8	
	Mid Ch, 1880									
	3760.00	-18.6	V	3.0	35.8	1.0	-53.4	-13.0	-40.4	
	5640.00	-15.0	V	3.0	35.5	1.0	-49.5	-13.0	-36.5	
	7520.00	-12.9	V	3.0	35.7	1.0	-47.7	-13.0	-34.7	
	3760.00	-18.1	H	3.0	35.8	1.0	-52.9	-13.0	-39.9	
	5640.00	-14.9	H	3.0	35.5	1.0	-49.3	-13.0	-36.3	
	7520.00	-11.9	H	3.0	35.7	1.0	-46.7	-13.0	-33.7	
	High Ch, 1907.5									
	3815.00	-11.7	V	3.0	35.8	1.0	-46.5	-13.0	-33.5	
	5722.50	-14.9	V	3.0	35.5	1.0	-49.4	-13.0	-36.4	
	7630.00	-13.1	V	3.0	35.8	1.0	-47.8	-13.0	-34.8	
	3815.00	-12.0	H	3.0	35.8	1.0	-46.8	-13.0	-33.8	
	5722.50	-14.1	H	3.0	35.5	1.0	-48.6	-13.0	-35.6	
	7630.00	-12.4	H	3.0	35.8	1.0	-47.1	-13.0	-34.1	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I21523								
Date:		8/21/2015								
Test Engineer:		A. Escamilla								
Configuration:		EUT, AC Adapter, Headset								
Location:		Chamber C								
Mode:		LTE_16QAM Band 2 Harmonics, 3MHz Bandwidth								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band LTE2 3MHz 16QAM	Low Ch, 1851.5									
	3703.00	-16.0	V	3.0	35.9	1.0	-50.9	-13.0	-37.9	
	5554.50	-16.4	V	3.0	35.5	1.0	-50.9	-13.0	-37.9	
	7406.00	-13.4	V	3.0	35.7	1.0	-48.1	-13.0	-35.1	
	3703.00	-17.1	H	3.0	35.9	1.0	-51.9	-13.0	-38.9	
	5554.50	-15.9	H	3.0	35.5	1.0	-50.4	-13.0	-37.4	
	7406.00	-12.2	H	3.0	35.7	1.0	-46.9	-13.0	-33.9	
	Mid Ch, 1880									
	3760.00	-18.1	V	3.0	35.8	1.0	-52.9	-13.0	-39.9	
	5640.00	-15.9	V	3.0	35.5	1.0	-50.4	-13.0	-37.4	
	7520.00	-13.0	V	3.0	35.7	1.0	-47.8	-13.0	-34.8	
	3760.00	-18.9	H	3.0	35.8	1.0	-53.8	-13.0	-40.8	
	5640.00	-15.6	H	3.0	35.5	1.0	-50.1	-13.0	-37.1	
	7520.00	-11.6	H	3.0	35.7	1.0	-46.3	-13.0	-33.3	
	High Ch, 1908.5									
	3817.00	-11.0	V	3.0	35.8	1.0	-45.8	-13.0	-32.8	
	5725.50	-14.7	V	3.0	35.5	1.0	-49.2	-13.0	-36.2	
	7634.00	-12.3	V	3.0	35.8	1.0	-47.1	-13.0	-34.1	
	3817.00	-11.8	H	3.0	35.8	1.0	-46.6	-13.0	-33.6	
	5725.50	-15.6	H	3.0	35.5	1.0	-50.1	-13.0	-37.1	
	7634.00	-11.8	H	3.0	35.8	1.0	-46.6	-13.0	-33.6	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I21523								
Date:		8/21/2015								
Test Engineer:		A. Escamilla								
Configuration:		EUT, AC Adapter, Headset								
Location:		Chamber C								
Mode:		LTE_QPSK Band 2 Harmonics, 3MHz Bandwidth								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band LTE2 3MHz QPSK	Low Ch, 1851.5									
	3703.00	-16.0	V	3.0	35.9	1.0	-50.8	-13.0	-37.8	
	5554.50	-16.8	V	3.0	35.5	1.0	-51.2	-13.0	-38.2	
	7406.00	-13.2	V	3.0	35.7	1.0	-47.9	-13.0	-34.9	
	3703.00	-16.8	H	3.0	35.9	1.0	-51.6	-13.0	-38.6	
	5554.50	-15.4	H	3.0	35.5	1.0	-49.9	-13.0	-36.9	
	7406.00	-12.5	H	3.0	35.7	1.0	-47.2	-13.0	-34.2	
	Mid Ch, 1880									
	3760.00	-18.4	V	3.0	35.8	1.0	-53.2	-13.0	-40.2	
	5640.00	-16.4	V	3.0	35.5	1.0	-50.9	-13.0	-37.9	
	7520.00	-12.6	V	3.0	35.7	1.0	-47.4	-13.0	-34.4	
	3760.00	-19.1	H	3.0	35.8	1.0	-53.9	-13.0	-40.9	
	5640.00	-15.4	H	3.0	35.5	1.0	-49.9	-13.0	-36.9	
	7520.00	-11.6	H	3.0	35.7	1.0	-46.3	-13.0	-33.3	
	High Ch, 1908.5									
	3817.00	-11.0	V	3.0	35.8	1.0	-45.7	-13.0	-32.7	
	5725.50	-15.1	V	3.0	35.5	1.0	-49.6	-13.0	-36.6	
	7634.00	-12.5	V	3.0	35.8	1.0	-47.3	-13.0	-34.3	
	3817.00	-11.6	H	3.0	35.8	1.0	-46.4	-13.0	-33.4	
	5725.50	-15.4	H	3.0	35.5	1.0	-49.9	-13.0	-36.9	
	7634.00	-12.0	H	3.0	35.8	1.0	-46.8	-13.0	-33.8	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I21523								
Date:		8/21/2015								
Test Engineer:		A. Escamilla								
Configuration:		EUT, AC Adapter, Headset								
Location:		Chamber C								
Mode:		LTE_16QAM Band 2 Harmonics, 1.4MHz Bandwidth								
Band	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
LTE2 1.4MHz 16QAM	Low Ch, 1850.7									
	3701.40	-16.3	V	3.0	35.9	1.0	-51.2	-13.0	-38.2	
	5552.10	-16.3	V	3.0	35.5	1.0	-50.8	-13.0	-37.8	
	7402.80	-12.8	V	3.0	35.7	1.0	-47.5	-13.0	-34.5	
	3701.40	-17.5	H	3.0	35.9	1.0	-52.3	-13.0	-39.3	
	5552.10	-16.0	H	3.0	35.5	1.0	-50.4	-13.0	-37.4	
	7402.80	0.0	H	3.0	35.7	1.0	-34.7	-13.0	-21.7	
	Mid Ch, 1880									
	3760.00	-17.0	V	3.0	35.8	1.0	-51.8	-13.0	-38.8	
	5640.00	-16.2	V	3.0	35.5	1.0	-50.7	-13.0	-37.7	
	7520.00	-12.6	V	3.0	35.7	1.0	-47.4	-13.0	-34.4	
	3760.00	-18.8	H	3.0	35.8	1.0	-53.6	-13.0	-40.6	
	5640.00	-16.0	H	3.0	35.5	1.0	-50.5	-13.0	-37.5	
	7520.00	-12.0	H	3.0	35.7	1.0	-46.7	-13.0	-33.7	
	High Ch, 1909.3									
	3818.60	-10.4	V	3.0	35.8	1.0	-45.2	-13.0	-32.2	
	5727.90	-14.0	V	3.0	35.5	1.0	-48.5	-13.0	-35.5	
	7637.20	-12.7	V	3.0	35.8	1.0	-47.5	-13.0	-34.5	
	3818.60	-11.2	H	3.0	35.8	1.0	-45.9	-13.0	-32.9	
	5727.90	-15.0	H	3.0	35.5	1.0	-49.5	-13.0	-36.5	
	7637.20	-11.9	H	3.0	35.8	1.0	-46.6	-13.0	-33.6	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I21523								
Date:		8/21/2015								
Test Engineer:		A. Escamilla								
Configuration:		EUT, AC Adapter, Headset								
Location:		Chamber C								
Mode:		LTE_QPSK Band 2 Harmonics, 1.4MHz Bandwidth								
Band	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
1.4MHz	Low Ch, 1850.7									
	3701.40	-16.3	V	3.0	35.9	1.0	-51.1	-13.0	-38.1	
	5552.10	-16.4	V	3.0	35.5	1.0	-50.9	-13.0	-37.9	
	7402.80	-13.2	V	3.0	35.7	1.0	-48.0	-13.0	-35.0	
	3701.40	-16.5	H	3.0	35.9	1.0	-51.3	-13.0	-38.3	
	5552.10	-15.6	H	3.0	35.5	1.0	-50.1	-13.0	-37.1	
	7402.80	-12.7	H	3.0	35.7	1.0	-47.4	-13.0	-34.4	
	Mid Ch, 1880									
	3760.00	-17.2	V	3.0	35.8	1.0	-52.0	-13.0	-39.0	
	5640.00	-16.5	V	3.0	35.5	1.0	-51.0	-13.0	-38.0	
QPSK	7520.00	-13.0	V	3.0	35.7	1.0	-47.8	-13.0	-34.8	
	3760.00	-17.9	H	3.0	35.8	1.0	-52.7	-13.0	-39.7	
	5640.00	-15.3	H	3.0	35.5	1.0	-49.8	-13.0	-36.8	
	7520.00	-12.0	H	3.0	35.7	1.0	-46.7	-13.0	-33.7	
	High Ch, 1909.3									
	3818.60	-10.3	V	3.0	35.8	1.0	-45.1	-13.0	-32.1	
	5727.90	-14.0	V	3.0	35.5	1.0	-48.5	-13.0	-35.5	
	7637.20	-12.7	V	3.0	35.8	1.0	-47.4	-13.0	-34.4	
	3818.60	-11.3	H	3.0	35.8	1.0	-46.1	-13.0	-33.1	
	5727.90	-15.3	H	3.0	35.5	1.0	-49.8	-13.0	-36.8	
	7637.20	-11.4	H	3.0	35.8	1.0	-46.2	-13.0	-33.2	

LTE Band 4

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: LG Electronics Project #: 15I21523 Date: 8/21/2015 Test Engineer: A. Escamilla Configuration: EUT, AC Adapter, Headset Location: Chamber C Mode: LTE_16QAM Band 4 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, 1720									
3440.00	-19.1	V	3.0	36.0	1.0	-54.2	-13.0	-41.2	
5160.00	-16.9	V	3.0	35.4	1.0	-51.4	-13.0	-38.4	
6880.00	-13.8	V	3.0	35.7	1.0	-48.4	-13.0	-35.4	
3440.00	-18.3	H	3.0	36.0	1.0	-53.3	-13.0	-40.3	
5160.00	-16.5	H	3.0	35.4	1.0	-51.0	-13.0	-38.0	
6880.00	-12.9	H	3.0	35.7	1.0	-47.6	-13.0	-34.6	
Mid Ch, 1732.5									
3465.00	-17.7	V	3.0	36.0	1.0	-52.7	-13.0	-39.7	
5197.50	-16.7	V	3.0	35.4	1.0	-51.2	-13.0	-38.2	
6930.00	-14.2	V	3.0	35.7	1.0	-48.9	-13.0	-35.9	
3465.00	-19.3	H	3.0	36.0	1.0	-54.3	-13.0	-41.3	
5197.50	-16.7	H	3.0	35.4	1.0	-51.1	-13.0	-38.1	
6930.00	-13.4	H	3.0	35.7	1.0	-48.1	-13.0	-35.1	
High Ch, 1745									
3490.00	-17.8	V	3.0	36.0	1.0	-52.8	-13.0	-39.8	
5235.00	-16.5	V	3.0	35.4	1.0	-50.9	-13.0	-37.9	
6980.00	-13.9	V	3.0	35.7	1.0	-48.6	-13.0	-35.6	
3490.00	-19.7	H	3.0	36.0	1.0	-54.8	-13.0	-41.8	
5235.00	-16.3	H	3.0	35.4	1.0	-50.7	-13.0	-37.7	
6980.00	-13.2	H	3.0	35.7	1.0	-47.9	-13.0	-34.9	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I21523								
Date:		8/21/2015								
Test Engineer:		A. Escamilla								
Configuration:		EUT, AC Adapter, Headset								
Location:		Chamber C								
Mode:		LTE_QPSK Band 4 Harmonics, 20MHz Bandwidth								
Band	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 1720									
LTE4	3440.00	-18.8	V	3.0	36.0	1.0	-53.8	-13.0	-40.8	
	5160.00	-16.5	V	3.0	35.4	1.0	-50.9	-13.0	-37.9	
	6880.00	-13.8	V	3.0	35.7	1.0	-48.4	-13.0	-35.4	
	3440.00	-17.4	H	3.0	36.0	1.0	-52.5	-13.0	-39.5	
20MHz	5160.00	-16.2	H	3.0	35.4	1.0	-50.6	-13.0	-37.6	
	6880.00	-13.0	H	3.0	35.7	1.0	-47.7	-13.0	-34.7	
	Mid Ch, 1732.5									
	3465.00	-17.0	V	3.0	36.0	1.0	-52.0	-13.0	-39.0	
QPSK	5197.50	-16.8	V	3.0	35.4	1.0	-51.2	-13.0	-38.2	
	6930.00	-14.0	V	3.0	35.7	1.0	-48.7	-13.0	-35.7	
	3465.00	-19.2	H	3.0	36.0	1.0	-54.2	-13.0	-41.2	
	5197.50	-16.0	H	3.0	35.4	1.0	-50.4	-13.0	-37.4	
	6930.00	-12.7	H	3.0	35.7	1.0	-47.4	-13.0	-34.4	
	High Ch, 1745									
	3490.00	-17.6	V	3.0	36.0	1.0	-52.6	-13.0	-39.6	
	5235.00	-16.5	V	3.0	35.4	1.0	-50.9	-13.0	-37.9	
	6980.00	-14.0	V	3.0	35.7	1.0	-48.7	-13.0	-35.7	
	3490.00	-19.0	H	3.0	36.0	1.0	-54.0	-13.0	-41.0	
	5235.00	-16.2	H	3.0	35.4	1.0	-50.6	-13.0	-37.6	
	6980.00	-12.9	H	3.0	35.7	1.0	-47.6	-13.0	-34.6	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I21523								
Date:		8/21/2015								
Test Engineer:		A. Escamilla								
Configuration:		EUT, AC Adapter, Headset								
Location:		Chamber C								
Mode:		LTE_16QAM Band 4 Harmonics, 15MHz Bandwidth								
Band	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 1717.5									
LTE4	3435.00	-20.5	V	3.0	36.1	1.0	-55.6	-13.0	-42.6	
	5152.50	-16.8	V	3.0	35.4	1.0	-51.2	-13.0	-38.2	
	6870.00	-14.4	V	3.0	35.7	1.0	-49.1	-13.0	-36.1	
	3435.00	-19.9	H	3.0	36.1	1.0	-55.0	-13.0	-42.0	
	5152.50	-16.4	H	3.0	35.4	1.0	-50.8	-13.0	-37.8	
	6870.00	-13.0	H	3.0	35.7	1.0	-47.6	-13.0	-34.6	
15MHz	Mid Ch, 1732.5									
	3465.00	-19.0	V	3.0	36.0	1.0	-54.1	-13.0	-41.1	
	5197.50	-17.1	V	3.0	35.4	1.0	-51.5	-13.0	-38.5	
	6930.00	-13.9	V	3.0	35.7	1.0	-48.6	-13.0	-35.6	
	3465.00	-20.9	H	3.0	36.0	1.0	-55.9	-13.0	-42.9	
	5197.50	-16.6	H	3.0	35.4	1.0	-51.1	-13.0	-38.1	
16QAM	6930.00	-12.9	H	3.0	35.7	1.0	-47.6	-13.0	-34.6	
	High Ch, 1747.5									
	3495.00	-18.8	V	3.0	36.0	1.0	-53.8	-13.0	-40.8	
	5242.50	-16.5	V	3.0	35.4	1.0	-51.0	-13.0	-38.0	
	6990.00	-13.8	V	3.0	35.7	1.0	-48.5	-13.0	-35.5	
	3495.00	-19.0	H	3.0	36.0	1.0	-54.0	-13.0	-41.0	
	5242.50	-16.1	H	3.0	35.4	1.0	-50.5	-13.0	-37.5	
	6990.00	-12.8	H	3.0	35.7	1.0	-47.5	-13.0	-34.5	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I21523								
Date:		8/21/2015								
Test Engineer:		A. Escamilla								
Configuration:		EUT, AC Adapter, Headset								
Location:		Chamber C								
Mode:		LTE_QPSK Band 4 Harmonics, 15MHz Bandwidth								
Band	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 1717.5									
LTE4	3435.00	-20.0	V	3.0	36.1	1.0	-55.0	-13.0	-42.0	
	5152.50	-15.9	V	3.0	35.4	1.0	-50.3	-13.0	-37.3	
	6870.00	-14.4	V	3.0	35.7	1.0	-49.1	-13.0	-36.1	
	3435.00	-19.4	H	3.0	36.1	1.0	-54.5	-13.0	-41.5	
	5152.50	-15.3	H	3.0	35.4	1.0	-49.7	-13.0	-36.7	
	6870.00	-12.7	H	3.0	35.7	1.0	-47.4	-13.0	-34.4	
15MHz QPSK	Mid Ch, 1732.5									
	3465.00	-19.2	V	3.0	36.0	1.0	-54.3	-13.0	-41.3	
	5197.50	-17.2	V	3.0	35.4	1.0	-51.6	-13.0	-38.6	
	6930.00	-14.3	V	3.0	35.7	1.0	-48.9	-13.0	-35.9	
	3465.00	-20.2	H	3.0	36.0	1.0	-55.2	-13.0	-42.2	
	5197.50	-16.7	H	3.0	35.4	1.0	-51.1	-13.0	-38.1	
	6930.00	-12.3	H	3.0	35.7	1.0	-47.0	-13.0	-34.0	
	High Ch, 1747.5									
	3495.00	-18.7	V	3.0	36.0	1.0	-53.7	-13.0	-40.7	
	5242.50	-17.0	V	3.0	35.4	1.0	-51.4	-13.0	-38.4	
	6990.00	-13.6	V	3.0	35.7	1.0	-48.2	-13.0	-35.2	
	3495.00	-18.3	H	3.0	36.0	1.0	-53.3	-13.0	-40.3	
	5242.50	-16.2	H	3.0	35.4	1.0	-50.6	-13.0	-37.6	
	6990.00	-12.6	H	3.0	35.7	1.0	-47.3	-13.0	-34.3	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: LG Electronics Project #: 15I21523 Date: 8/21/2015 Test Engineer: A. Escamilla Configuration: EUT, AC Adapter, Headset Location: Chamber C Mode: LTE_16QAM Band 4 Harmonics, 10MHz Bandwidth									
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1715									
3430.00	-20.2	V	3.0	36.1	1.0	-55.3	-13.0	-42.3	
5145.00	-17.1	V	3.0	35.4	1.0	-51.5	-13.0	-38.5	
6860.00	-14.5	V	3.0	35.7	1.0	-49.2	-13.0	-36.2	
3430.00	-20.5	H	3.0	36.1	1.0	-55.6	-13.0	-42.6	
5145.00	-16.7	H	3.0	35.4	1.0	-51.2	-13.0	-38.2	
6860.00	-13.6	H	3.0	35.7	1.0	-48.3	-13.0	-35.3	
Mid Ch, 1732.5									
3465.00	-19.7	V	3.0	36.0	1.0	-54.7	-13.0	-41.7	
5197.50	-16.5	V	3.0	35.4	1.0	-50.9	-13.0	-37.9	
6930.00	-14.2	V	3.0	35.7	1.0	-48.9	-13.0	-35.9	
3465.00	-20.8	H	3.0	36.0	1.0	-55.9	-13.0	-42.9	
5197.50	-16.1	H	3.0	35.4	1.0	-50.6	-13.0	-37.6	
6930.00	-12.8	H	3.0	35.7	1.0	-47.5	-13.0	-34.5	
High Ch, 1750									
3500.00	-18.1	V	3.0	36.0	1.0	-53.2	-13.0	-40.2	
5250.00	-16.5	V	3.0	35.4	1.0	-51.0	-13.0	-38.0	
7000.00	-14.3	V	3.0	35.7	1.0	-48.9	-13.0	-35.9	
3500.00	-18.7	H	3.0	36.0	1.0	-53.7	-13.0	-40.7	
5250.00	-16.0	H	3.0	35.4	1.0	-50.4	-13.0	-37.4	
7000.00	-13.0	H	3.0	35.7	1.0	-47.7	-13.0	-34.7	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I21523								
Date:		8/21/2015								
Test Engineer:		A. Escamilla								
Configuration:		EUT, AC Adapter, Headset								
Location:		Chamber C								
Mode:		LTE_QPSK Band 4 Harmonics, 10MHz Bandwidth								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band LTE4 10MHz QPSK	Low Ch, 1715									
	3430.00	-20.2	V	3.0	36.1	1.0	-55.2	-13.0	-42.2	
	5145.00	-16.9	V	3.0	35.4	1.0	-51.4	-13.0	-38.4	
	6860.00	-14.3	V	3.0	35.7	1.0	-49.0	-13.0	-36.0	
	3430.00	-21.1	H	3.0	36.1	1.0	-56.2	-13.0	-43.2	
	5145.00	-16.9	H	3.0	35.4	1.0	-51.3	-13.0	-38.3	
	6860.00	-13.0	H	3.0	35.7	1.0	-47.7	-13.0	-34.7	
	Mid Ch, 1732.5									
	3465.00	-19.4	V	3.0	36.0	1.0	-54.4	-13.0	-41.4	
	5197.50	-16.1	V	3.0	35.4	1.0	-50.5	-13.0	-37.5	
	6930.00	-14.3	V	3.0	35.7	1.0	-49.0	-13.0	-36.0	
	3465.00	-20.7	H	3.0	36.0	1.0	-55.8	-13.0	-42.8	
	5197.50	-16.6	H	3.0	35.4	1.0	-51.0	-13.0	-38.0	
	6930.00	-13.2	H	3.0	35.7	1.0	-47.9	-13.0	-34.9	
	High Ch, 1750									
	3500.00	-16.3	V	3.0	36.0	1.0	-51.3	-13.0	-38.3	
	5250.00	-17.0	V	3.0	35.4	1.0	-51.4	-13.0	-38.4	
	7000.00	-14.3	V	3.0	35.7	1.0	-49.0	-13.0	-36.0	
	3500.00	-18.3	H	3.0	36.0	1.0	-53.3	-13.0	-40.3	
	5250.00	-16.3	H	3.0	35.4	1.0	-50.7	-13.0	-37.7	
	7000.00	-12.8	H	3.0	35.7	1.0	-47.4	-13.0	-34.4	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: LG Electronics Project #: 15I21523 Date: 8/21/2015 Test Engineer: A. Escamilla Configuration: EUT, AC Adapter, Headset Location: Chamber C Mode: LTE_16QAM Band 4 Harmonics, 5MHz Bandwidth										
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band LTE4 5MHz 16QAM	Low Ch, 1712.5									
	3425.00	-19.9	V	3.0	36.1	1.0	-55.0	-13.0	-42.0	
	5137.50	-16.0	V	3.0	35.4	1.0	-50.5	-13.0	-37.5	
	6850.00	-14.5	V	3.0	35.7	1.0	-49.1	-13.0	-36.1	
	3425.00	-20.5	H	3.0	36.1	1.0	-55.6	-13.0	-42.6	
	5137.50	-16.7	H	3.0	35.4	1.0	-51.1	-13.0	-38.1	
	6850.00	-13.0	H	3.0	35.7	1.0	-47.7	-13.0	-34.7	
	Mid Ch, 1732.5									
	3465.00	-21.3	V	3.0	36.0	1.0	-56.4	-13.0	-43.4	
	5197.50	-17.2	V	3.0	35.4	1.0	-51.7	-13.0	-38.7	
	6930.00	-14.5	V	3.0	35.7	1.0	-49.1	-13.0	-36.1	
	3465.00	-21.0	H	3.0	36.0	1.0	-56.1	-13.0	-43.1	
	5197.50	-16.8	H	3.0	35.4	1.0	-51.2	-13.0	-38.2	
	6930.00	-13.3	H	3.0	35.7	1.0	-48.0	-13.0	-35.0	
	High Ch, 1752.5									
	3505.00	-18.1	V	3.0	36.0	1.0	-53.1	-13.0	-40.1	
	5257.50	-16.4	V	3.0	35.4	1.0	-50.8	-13.0	-37.8	
	7010.00	-14.3	V	3.0	35.7	1.0	-49.0	-13.0	-36.0	
	3505.00	-21.2	H	3.0	36.0	1.0	-56.2	-13.0	-43.2	
	5257.50	-16.8	H	3.0	35.4	1.0	-51.3	-13.0	-38.3	
	7010.00	-13.0	H	3.0	35.7	1.0	-47.7	-13.0	-34.7	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I21523								
Date:		8/21/2015								
Test Engineer:		A. Escamilla								
Configuration:		EUT, AC Adapter, Headset								
Location:		Chamber C								
Mode:		LTE_QPSK Band 4 Harmonics, 5MHz Bandwidth								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band LTE4 5MHz QPSK	Low Ch, 1712.5									
	3425.00	-18.7	V	3.0	36.1	1.0	-53.8	-13.0	-40.8	
	5137.50	-16.2	V	3.0	35.4	1.0	-50.7	-13.0	-37.7	
	6850.00	-14.5	V	3.0	35.7	1.0	-49.2	-13.0	-36.2	
	3425.00	-20.8	H	3.0	36.1	1.0	-55.8	-13.0	-42.8	
	5137.50	-16.9	H	3.0	35.4	1.0	-51.4	-13.0	-38.4	
	6850.00	-13.3	H	3.0	35.7	1.0	-47.9	-13.0	-34.9	
	Mid Ch, 1732.5									
	3465.00	-20.5	V	3.0	36.0	1.0	-55.6	-13.0	-42.6	
	5197.50	-17.2	V	3.0	35.4	1.0	-51.7	-13.0	-38.7	
	6930.00	-13.8	V	3.0	35.7	1.0	-48.5	-13.0	-35.5	
	3465.00	-21.6	H	3.0	36.0	1.0	-56.7	-13.0	-43.7	
	5197.50	-16.7	H	3.0	35.4	1.0	-51.1	-13.0	-38.1	
	6930.00	-13.6	H	3.0	35.7	1.0	-48.2	-13.0	-35.2	
	High Ch, 1752.5									
	3505.00	-16.2	V	3.0	36.0	1.0	-51.2	-13.0	-38.2	
	5257.50	-16.0	V	3.0	35.4	1.0	-50.4	-13.0	-37.4	
	7010.00	-14.0	V	3.0	35.7	1.0	-48.7	-13.0	-35.7	
	3505.00	-21.3	H	3.0	36.0	1.0	-56.3	-13.0	-43.3	
	5257.50	-16.8	H	3.0	35.4	1.0	-51.2	-13.0	-38.2	
	7010.00	-12.5	H	3.0	35.7	1.0	-47.2	-13.0	-34.2	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I21523								
Date:		8/21/2015								
Test Engineer:		A. Escamilla								
Configuration:		EUT, AC Adapter, Headset								
Location:		Chamber C								
Mode:		LTE_16QAM Band 4 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)	Notes
	Low Ch, 1711.5									
LTE4	3423.00	-19.4	V	3.0	36.1	1.0	-54.5	-13.0	-41.5	
	5134.50	-17.2	V	3.0	35.4	1.0	-51.6	-13.0	-38.6	
3MHz	6846.00	-14.3	V	3.0	35.7	1.0	-49.0	-13.0	-36.0	
	3423.00	-19.6	H	3.0	36.1	1.0	-54.7	-13.0	-41.7	
16QAM	5134.50	-16.0	H	3.0	35.4	1.0	-50.4	-13.0	-37.4	
	6846.00	-12.8	H	3.0	35.7	1.0	-47.5	-13.0	-34.5	
	Mid Ch, 1732.5									
	3465.00	-21.1	V	3.0	36.0	1.0	-56.2	-13.0	-43.2	
	5197.50	-17.1	V	3.0	35.4	1.0	-51.5	-13.0	-38.5	
	6930.00	-14.6	V	3.0	35.7	1.0	-49.2	-13.0	-36.2	
	3465.00	-18.7	H	3.0	36.0	1.0	-53.8	-13.0	-40.8	
	5197.50	-15.7	H	3.0	35.4	1.0	-50.1	-13.0	-37.1	
	6930.00	-13.3	H	3.0	35.7	1.0	-48.0	-13.0	-35.0	
	High Ch, 1753.5									
	3507.00	-20.2	V	3.0	36.0	1.0	-55.2	-13.0	-42.2	
	5260.50	-16.9	V	3.0	35.4	1.0	-51.4	-13.0	-38.4	
	7014.00	-14.2	V	3.0	35.7	1.0	-48.9	-13.0	-35.9	
	3507.00	-17.3	H	3.0	36.0	1.0	-52.3	-13.0	-39.3	
	5260.50	-16.4	H	3.0	35.4	1.0	-50.9	-13.0	-37.9	
	7014.00	-12.8	H	3.0	35.7	1.0	-47.5	-13.0	-34.5	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I21523								
Date:		8/21/2015								
Test Engineer:		A. Escamilla								
Configuration:		EUT, AC Adapter, Headset								
Location:		Chamber C								
Mode:		LTE_QPSK Band 4 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)	Notes
	Low Ch, 1711.5									
LTE4	3423.00	-19.7	V	3.0	36.1	1.0	-54.8	-13.0	-41.8	
	5134.50	-17.3	V	3.0	35.4	1.0	-51.7	-13.0	-38.7	
	6846.00	-14.6	V	3.0	35.7	1.0	-49.3	-13.0	-36.3	
3MHz	3423.00	-20.9	H	3.0	36.1	1.0	-55.9	-13.0	-42.9	
	5134.50	-16.9	H	3.0	35.4	1.0	-51.3	-13.0	-38.3	
	6846.00	-13.8	H	3.0	35.7	1.0	-48.5	-13.0	-35.5	
QPSK	Mid Ch, 1732.5									
	3465.00	-21.6	V	3.0	36.0	1.0	-56.7	-13.0	-43.7	
	5197.50	-15.8	V	3.0	35.4	1.0	-50.2	-13.0	-37.2	
	6930.00	-14.5	V	3.0	35.7	1.0	-49.2	-13.0	-36.2	
	3465.00	-19.8	H	3.0	36.0	1.0	-54.9	-13.0	-41.9	
	5197.50	-16.4	H	3.0	35.4	1.0	-50.8	-13.0	-37.8	
	6930.00	-13.0	H	3.0	35.7	1.0	-47.7	-13.0	-34.7	
	High Ch, 1753.5									
	3507.00	-20.7	V	3.0	36.0	1.0	-55.7	-13.0	-42.7	
	5260.50	-16.7	V	3.0	35.4	1.0	-51.1	-13.0	-38.1	
	7014.00	-14.1	V	3.0	35.7	1.0	-48.8	-13.0	-35.8	
	3507.00	-18.7	H	3.0	36.0	1.0	-53.7	-13.0	-40.7	
	5260.50	-16.6	H	3.0	35.4	1.0	-51.0	-13.0	-38.0	
	7014.00	-12.8	H	3.0	35.7	1.0	-47.5	-13.0	-34.5	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I21523								
Date:		8/21/2015								
Test Engineer:		A. Escamilla								
Configuration:		EUT, AC Adapter, Headset								
Location:		Chamber C								
Mode:		LTE_16QAM Band 4 Harmonics, 1.4MHz Bandwidth								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band LTE4 1.4MHz 16QAM	Low Ch, 1710.7									
	3421.40	-21.1	V	3.0	36.1	1.0	-56.2	-13.0	-43.2	
	5132.10	-16.7	V	3.0	35.4	1.0	-51.1	-13.0	-38.1	
	6842.80	-14.4	V	3.0	35.7	1.0	-49.1	-13.0	-36.1	
	3421.40	-20.8	H	3.0	36.1	1.0	-55.8	-13.0	-42.8	
	5132.10	-16.9	H	3.0	35.4	1.0	-51.3	-13.0	-38.3	
	6842.80	-13.5	H	3.0	35.7	1.0	-48.1	-13.0	-35.1	
	Mid Ch, 1732.5									
	3465.00	-19.8	V	3.0	36.0	1.0	-54.8	-13.0	-41.8	
	5197.50	-16.8	V	3.0	35.4	1.0	-51.2	-13.0	-38.2	
	6930.00	-14.3	V	3.0	35.7	1.0	-49.0	-13.0	-36.0	
	3465.00	-20.8	H	3.0	36.0	1.0	-55.9	-13.0	-42.9	
	5197.50	-16.7	H	3.0	35.4	1.0	-51.1	-13.0	-38.1	
	6930.00	-13.4	H	3.0	35.7	1.0	-48.1	-13.0	-35.1	
	High Ch, 1754.3									
	3508.60	-20.8	V	3.0	36.0	1.0	-55.8	-13.0	-42.8	
	5262.90	-16.1	V	3.0	35.4	1.0	-50.5	-13.0	-37.5	
	7017.20	-13.6	V	3.0	35.7	1.0	-48.3	-13.0	-35.3	
	3508.60	-20.5	H	3.0	36.0	1.0	-55.5	-13.0	-42.5	
	5262.90	-16.1	H	3.0	35.4	1.0	-50.6	-13.0	-37.6	
	7017.20	-13.4	H	3.0	35.7	1.0	-48.1	-13.0	-35.1	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I21523							
Date:		8/21/2015							
Test Engineer:		A. Escamilla							
Configuration:		EUT, AC Adapter, Headset							
Location:		Chamber C							
Mode:		LTE_QPSK Band 4 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, 1710.7									
3421.40	-20.7	V	3.0	36.1	1.0	-55.8	-13.0	-42.8	
5132.10	-16.6	V	3.0	35.4	1.0	-51.1	-13.0	-38.1	
6842.80	-13.9	V	3.0	35.7	1.0	-48.5	-13.0	-35.5	
3421.40	-21.4	H	3.0	36.1	1.0	-56.4	-13.0	-43.4	
5132.10	-16.2	H	3.0	35.4	1.0	-50.6	-13.0	-37.6	
6842.80	-12.9	H	3.0	35.7	1.0	-47.5	-13.0	-34.5	
Mid Ch, 1732.5									
3465.00	-19.5	V	3.0	36.0	1.0	-54.6	-13.0	-41.6	
5197.50	-17.0	V	3.0	35.4	1.0	-51.4	-13.0	-38.4	
6930.00	-13.8	V	3.0	35.7	1.0	-48.5	-13.0	-35.5	
3465.00	-20.2	H	3.0	36.0	1.0	-55.3	-13.0	-42.3	
5197.50	-16.8	H	3.0	35.4	1.0	-51.2	-13.0	-38.2	
6930.00	-13.5	H	3.0	35.7	1.0	-48.2	-13.0	-35.2	
High Ch, 1754.3									
3508.60	-19.8	V	3.0	36.0	1.0	-54.8	-13.0	-41.8	
5262.90	-16.3	V	3.0	35.4	1.0	-50.7	-13.0	-37.7	
7017.20	-14.1	V	3.0	35.7	1.0	-48.8	-13.0	-35.8	
3508.60	-19.9	H	3.0	36.0	1.0	-54.9	-13.0	-41.9	
5262.90	-16.1	H	3.0	35.4	1.0	-50.5	-13.0	-37.5	
7017.20	-12.3	H	3.0	35.7	1.0	-47.0	-13.0	-34.0	

LTE Band 5

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: LG Electronics Project #: 15I21523 Date: 8/22/2015 Test Engineer: A. Escamilla Configuration: EUT, AC Adapter, Headset Location: Chamber C Mode: LTE_16QAM Band 5 Harmonics, 10MHz Bandwidth									
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 829									
1658.00	-28.0	V	3.0	37.0	1.0	-64.0	-13.0	-51.0	
2487.00	-23.2	V	3.0	36.4	1.0	-58.7	-13.0	-45.7	
3316.00	-22.0	V	3.0	36.2	1.0	-57.2	-13.0	-44.2	
1658.00	-28.2	H	3.0	37.0	1.0	-64.2	-13.0	-51.2	
2487.00	-25.8	H	3.0	36.4	1.0	-61.2	-13.0	-48.2	
3316.00	-21.9	H	3.0	36.2	1.0	-57.1	-13.0	-44.1	
Mid Ch, 836.5									
1673.00	-27.1	V	3.0	37.0	1.0	-63.1	-13.0	-50.1	
2509.50	-23.2	V	3.0	36.4	1.0	-58.6	-13.0	-45.6	
3346.00	-21.0	V	3.0	36.1	1.0	-56.1	-13.0	-43.1	
1673.00	-27.9	H	3.0	37.0	1.0	-63.9	-13.0	-50.9	
2509.50	-25.0	H	3.0	36.4	1.0	-60.4	-13.0	-47.4	
3346.00	-21.9	H	3.0	36.1	1.0	-57.0	-13.0	-44.0	
High Ch, 844									
1688.00	-27.0	V	3.0	37.0	1.0	-63.0	-13.0	-50.0	
2532.00	-23.2	V	3.0	36.4	1.0	-58.6	-13.0	-45.6	
3376.00	-21.6	V	3.0	36.1	1.0	-56.7	-13.0	-43.7	
1688.00	-27.3	H	3.0	37.0	1.0	-63.3	-13.0	-50.3	
2532.00	-24.8	H	3.0	36.4	1.0	-60.2	-13.0	-47.2	
3376.00	-21.7	H	3.0	36.1	1.0	-56.8	-13.0	-43.8	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I21523								
Date:		8/22/2015								
Test Engineer:		A. Escamilla								
Configuration:		EUT, AC Adapter, Headset								
Location:		Chamber C								
Mode:		LTE_QPSK Band 5 Harmonics, 10MHz Bandwidth								
Band	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
10MHz	Low Ch, 829									
	1658.00	-27.6	V	3.0	37.0	1.0	-63.6	-13.0	-50.6	
	2487.00	-23.2	V	3.0	36.4	1.0	-58.6	-13.0	-45.6	
	3316.00	-21.6	V	3.0	36.2	1.0	-56.8	-13.0	-43.8	
	1658.00	-28.2	H	3.0	37.0	1.0	-64.2	-13.0	-51.2	
	2487.00	-24.8	H	3.0	36.4	1.0	-60.3	-13.0	-47.3	
	3316.00	-22.0	H	3.0	36.2	1.0	-57.1	-13.0	-44.1	
	Mid Ch, 836.5									
	1673.00	-26.8	V	3.0	37.0	1.0	-62.8	-13.0	-49.8	
	2509.50	-23.2	V	3.0	36.4	1.0	-58.6	-13.0	-45.6	
QPSK	3346.00	-21.0	V	3.0	36.1	1.0	-56.2	-13.0	-43.2	
	1673.00	-27.3	H	3.0	37.0	1.0	-63.3	-13.0	-50.3	
	2509.50	-24.9	H	3.0	36.4	1.0	-60.3	-13.0	-47.3	
	3346.00	-21.6	H	3.0	36.1	1.0	-56.8	-13.0	-43.8	
	High Ch, 844									
	1688.00	-26.7	V	3.0	37.0	1.0	-62.7	-13.0	-49.7	
	2532.00	-22.9	V	3.0	36.4	1.0	-58.3	-13.0	-45.3	
	3376.00	-21.7	V	3.0	36.1	1.0	-56.8	-13.0	-43.8	
	1688.00	-27.7	H	3.0	37.0	1.0	-63.7	-13.0	-50.7	
	2532.00	-25.4	H	3.0	36.4	1.0	-60.8	-13.0	-47.8	
	3376.00	-21.4	H	3.0	36.1	1.0	-56.5	-13.0	-43.5	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I21523								
Date:		8/22/2015								
Test Engineer:		A. Escamilla								
Configuration:		EUT, AC Adapter, Headset								
Location:		Chamber C								
Mode:		LTE_16QAM Band 5 Harmonics, 10MHz Bandwidth								
Band	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamplifier (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 829									
LTE5	1658.00	-28.0	V	3.0	37.0	1.0	-64.0	-13.0	-51.0	
	2487.00	-23.2	V	3.0	36.4	1.0	-58.7	-13.0	-45.7	
10MHz	3316.00	-22.0	V	3.0	36.2	1.0	-57.2	-13.0	-44.2	
	1658.00	-28.2	H	3.0	37.0	1.0	-64.2	-13.0	-51.2	
16QAM	2487.00	-25.8	H	3.0	36.4	1.0	-61.2	-13.0	-48.2	
	3316.00	-21.9	H	3.0	36.2	1.0	-57.1	-13.0	-44.1	
	Mid Ch, 836.5									
	1673.00	-27.1	V	3.0	37.0	1.0	-63.1	-13.0	-50.1	
	2509.50	-23.2	V	3.0	36.4	1.0	-58.6	-13.0	-45.6	
	3346.00	-21.0	V	3.0	36.1	1.0	-56.1	-13.0	-43.1	
	1673.00	-27.9	H	3.0	37.0	1.0	-63.9	-13.0	-50.9	
	2509.50	-25.0	H	3.0	36.4	1.0	-60.4	-13.0	-47.4	
	3346.00	-21.9	H	3.0	36.1	1.0	-57.0	-13.0	-44.0	
	High Ch, 844									
	1688.00	-27.0	V	3.0	37.0	1.0	-63.0	-13.0	-50.0	
	2532.00	-23.2	V	3.0	36.4	1.0	-58.6	-13.0	-45.6	
	3376.00	-21.6	V	3.0	36.1	1.0	-56.7	-13.0	-43.7	
	1688.00	-27.3	H	3.0	37.0	1.0	-63.3	-13.0	-50.3	
	2532.00	-24.8	H	3.0	36.4	1.0	-60.2	-13.0	-47.2	
	3376.00	-21.7	H	3.0	36.1	1.0	-56.8	-13.0	-43.8	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I21523								
Date:		8/22/2015								
Test Engineer:		A. Escamilla								
Configuration:		EUT, AC Adapter, Headset								
Location:		Chamber C								
Mode:		LTE_QPSK Band 5 Harmonics, 10MHz Bandwidth								
Band	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
LTE5	Low Ch, 829									
	1658.00	-27.6	V	3.0	37.0	1.0	-63.6	-13.0	-50.6	
	2487.00	-23.2	V	3.0	36.4	1.0	-58.6	-13.0	-45.6	
	3316.00	-21.6	V	3.0	36.2	1.0	-56.8	-13.0	-43.8	
	1658.00	-28.2	H	3.0	37.0	1.0	-64.2	-13.0	-51.2	
	2487.00	-24.8	H	3.0	36.4	1.0	-60.3	-13.0	-47.3	
QPSK	3316.00	-22.0	H	3.0	36.2	1.0	-57.1	-13.0	-44.1	
	Mid Ch, 836.5									
	1673.00	-26.8	V	3.0	37.0	1.0	-62.8	-13.0	-49.8	
	2509.50	-23.2	V	3.0	36.4	1.0	-58.6	-13.0	-45.6	
	3346.00	-21.0	V	3.0	36.1	1.0	-56.2	-13.0	-43.2	
	1673.00	-27.3	H	3.0	37.0	1.0	-63.3	-13.0	-50.3	
	2509.50	-24.9	H	3.0	36.4	1.0	-60.3	-13.0	-47.3	
	3346.00	-21.6	H	3.0	36.1	1.0	-56.8	-13.0	-43.8	
	High Ch, 844									
	1688.00	-26.7	V	3.0	37.0	1.0	-62.7	-13.0	-49.7	
	2532.00	-22.9	V	3.0	36.4	1.0	-58.3	-13.0	-45.3	
	3376.00	-21.7	V	3.0	36.1	1.0	-56.8	-13.0	-43.8	
	1688.00	-27.7	H	3.0	37.0	1.0	-63.7	-13.0	-50.7	
	2532.00	-25.4	H	3.0	36.4	1.0	-60.8	-13.0	-47.8	
	3376.00	-21.4	H	3.0	36.1	1.0	-56.5	-13.0	-43.5	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I21523								
Date:		8/22/2015								
Test Engineer:		A. Escamilla								
Configuration:		EUT, AC Adapter, Headset								
Location:		Chamber C								
Mode:		LTE_16QAM Band 5 Harmonics, 5MHz Bandwidth								
Band	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamplifier (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 826.5									
LTE5	1653.00	-27.1	V	3.0	37.0	1.0	-63.2	-13.0	-50.2	
	2479.50	-23.6	V	3.0	36.4	1.0	-59.1	-13.0	-46.1	
	3306.00	-21.4	V	3.0	36.2	1.0	-56.6	-13.0	-43.6	
	1653.00	-27.4	H	3.0	37.0	1.0	-63.5	-13.0	-50.5	
	2479.50	-24.5	H	3.0	36.4	1.0	-59.9	-13.0	-46.9	
	3306.00	-21.8	H	3.0	36.2	1.0	-56.9	-13.0	-43.9	
5MHz	Mid Ch, 836.5									
	1673.00	-27.1	V	3.0	37.0	1.0	-63.1	-13.0	-50.1	
	2509.50	-23.4	V	3.0	36.4	1.0	-58.8	-13.0	-45.8	
	3346.00	-21.4	V	3.0	36.1	1.0	-56.6	-13.0	-43.6	
	1673.00	-27.9	H	3.0	37.0	1.0	-63.9	-13.0	-50.9	
	2509.50	-24.6	H	3.0	36.4	1.0	-60.1	-13.0	-47.1	
16QAM	3346.00	-21.2	H	3.0	36.1	1.0	-56.3	-13.0	-43.3	
	High Ch, 846.5									
	1693.00	-27.5	V	3.0	37.0	1.0	-63.5	-13.0	-50.5	
	2539.50	-23.7	V	3.0	36.4	1.0	-59.1	-13.0	-46.1	
	3386.00	-20.8	V	3.0	36.1	1.0	-55.9	-13.0	-42.9	
	1693.00	-27.7	H	3.0	37.0	1.0	-63.7	-13.0	-50.7	
	2539.50	-24.7	H	3.0	36.4	1.0	-60.1	-13.0	-47.1	
	3386.00	-21.3	H	3.0	36.1	1.0	-56.4	-13.0	-43.4	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I21523								
Date:		8/22/2015								
Test Engineer:		A. Escamilla								
Configuration:		EUT, AC Adapter, Headset								
Location:		Chamber C								
Mode:		LTE_QPSK Band 5 Harmonics, 5MHz Bandwidth								
Band	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamplifier (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 826.5									
LTE5	1653.00	-27.0	V	3.0	37.0	1.0	-63.0	-13.0	-50.0	
	2479.50	-23.2	V	3.0	36.4	1.0	-58.7	-13.0	-45.7	
5MHz	3306.00	-21.1	V	3.0	36.2	1.0	-56.2	-13.0	-43.2	
	1653.00	-27.2	H	3.0	37.0	1.0	-63.2	-13.0	-50.2	
QPSK	2479.50	-25.0	H	3.0	36.4	1.0	-60.4	-13.0	-47.4	
	3306.00	-21.9	H	3.0	36.2	1.0	-57.1	-13.0	-44.1	
	Mid Ch, 836.5									
	1673.00	-26.7	V	3.0	37.0	1.0	-62.7	-13.0	-49.7	
	2509.50	-23.2	V	3.0	36.4	1.0	-58.6	-13.0	-45.6	
	3346.00	-21.2	V	3.0	36.1	1.0	-56.4	-13.0	-43.4	
	1673.00	-27.5	H	3.0	37.0	1.0	-63.6	-13.0	-50.6	
	2509.50	-24.4	H	3.0	36.4	1.0	-59.9	-13.0	-46.9	
	3346.00	-21.1	H	3.0	36.1	1.0	-56.3	-13.0	-43.3	
	High Ch, 846.5									
	1693.00	-27.5	V	3.0	37.0	1.0	-63.5	-13.0	-50.5	
	2539.50	-22.7	V	3.0	36.4	1.0	-58.1	-13.0	-45.1	
	3386.00	-21.1	V	3.0	36.1	1.0	-56.2	-13.0	-43.2	
	1693.00	-27.6	H	3.0	37.0	1.0	-63.6	-13.0	-50.6	
	2539.50	-25.4	H	3.0	36.4	1.0	-60.8	-13.0	-47.8	
	3386.00	-21.4	H	3.0	36.1	1.0	-56.4	-13.0	-43.4	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I21523								
Date:		8/22/2015								
Test Engineer:		A. Escamilla								
Configuration:		EUT, AC Adapter, Headset								
Location:		Chamber C								
Mode:		LTE_16QAM Band 6 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)	Notes
	Low Ch, 825.5									
LTE5	1651.00	-27.2	V	3.0	37.0	1.0	-63.2	-13.0	-50.2	
	2476.50	-23.2	V	3.0	36.4	1.0	-58.7	-13.0	-45.7	
	3302.00	-21.4	V	3.0	36.2	1.0	-56.6	-13.0	-43.6	
	1651.00	-29.4	H	3.0	37.0	1.0	-65.5	-13.0	-52.5	
	2476.50	-25.0	H	3.0	36.4	1.0	-60.5	-13.0	-47.5	
	3302.00	-21.5	H	3.0	36.2	1.0	-56.7	-13.0	-43.7	
3MHz	Mid Ch, 836.5									
	1673.00	-27.3	V	3.0	37.0	1.0	-63.3	-13.0	-50.3	
	2509.50	-23.2	V	3.0	36.4	1.0	-58.6	-13.0	-45.6	
	3346.00	-21.2	V	3.0	36.1	1.0	-56.4	-13.0	-43.4	
	1673.00	-27.7	H	3.0	37.0	1.0	-63.8	-13.0	-50.8	
	2509.50	-25.0	H	3.0	36.4	1.0	-60.4	-13.0	-47.4	
16QAM	3346.00	-21.4	H	3.0	36.1	1.0	-56.5	-13.0	-43.5	
	High Ch, 847.5									
	1695.00	-27.1	V	3.0	37.0	1.0	-63.0	-13.0	-50.0	
	2542.50	-23.2	V	3.0	36.4	1.0	-58.6	-13.0	-45.6	
	3390.00	-20.9	V	3.0	36.1	1.0	-56.0	-13.0	-43.0	
	1695.00	-27.8	H	3.0	37.0	1.0	-63.7	-13.0	-50.7	
	2542.50	-25.0	H	3.0	36.4	1.0	-60.4	-13.0	-47.4	
	3390.00	-21.4	H	3.0	36.1	1.0	-56.5	-13.0	-43.5	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I21523								
Date:		8/22/2015								
Test Engineer:		A. Escamilla								
Configuration:		EUT, AC Adapter, Headset								
Location:		Chamber C								
Mode:		LTE_QPSK Band 5 Harmonics, 3MHz Bandwidth								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamplifier (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band LTE5 3MHz QPSK	Low Ch, 825.5									
	1651.00	-26.7	V	3.0	37.0	1.0	-62.8	-13.0	-49.8	
	2476.50	-22.9	V	3.0	36.4	1.0	-58.4	-13.0	-45.4	
	3302.00	-20.8	V	3.0	36.2	1.0	-55.9	-13.0	-42.9	
	1651.00	-28.0	H	3.0	37.0	1.0	-64.1	-13.0	-51.1	
	2476.50	-24.6	H	3.0	36.4	1.0	-60.0	-13.0	-47.0	
	3302.00	-21.1	H	3.0	36.2	1.0	-56.3	-13.0	-43.3	
	Mid Ch, 836.5									
	1673.00	-26.4	V	3.0	37.0	1.0	-62.4	-13.0	-49.4	
	2509.50	-23.0	V	3.0	36.4	1.0	-58.5	-13.0	-45.5	
	3346.00	-20.5	V	3.0	36.1	1.0	-55.6	-13.0	-42.6	
	1673.00	-28.0	H	3.0	37.0	1.0	-64.0	-13.0	-51.0	
	2509.50	-24.8	H	3.0	36.4	1.0	-60.2	-13.0	-47.2	
	3346.00	-20.8	H	3.0	36.1	1.0	-55.9	-13.0	-42.9	
	High Ch, 847.5									
	1695.00	-26.8	V	3.0	37.0	1.0	-62.8	-13.0	-49.8	
	2542.50	-22.9	V	3.0	36.4	1.0	-58.3	-13.0	-45.3	
	3390.00	-20.9	V	3.0	36.1	1.0	-56.0	-13.0	-43.0	
	1695.00	-27.5	H	3.0	37.0	1.0	-63.5	-13.0	-50.5	
	2542.50	-24.3	H	3.0	36.4	1.0	-59.7	-13.0	-46.7	
	3390.00	-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 #:		15I21523								
Date:		8/22/2015								
Test Engineer:		A. Escamilla								
Configuration:		EUT, AC Adapter, Headset								
Location:		Chamber C								
Mode:		LTE_16QAM Band 5 Harmonics, 1.4MHz Bandwidth								
Band	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
LTE5	Low Ch, 824.7									
	1649.40	-27.3	V	3.0	37.0	1.0	-63.3	-13.0	-50.3	
	2474.10	-23.3	V	3.0	36.4	1.0	-58.8	-13.0	-45.8	
	3298.80	-21.2	V	3.0	36.2	1.0	-56.4	-13.0	-43.4	
	1649.40	-28.0	H	3.0	37.0	1.0	-64.0	-13.0	-51.0	
	2474.10	-25.2	H	3.0	36.4	1.0	-60.7	-13.0	-47.7	
	3298.80	-21.5	H	3.0	36.2	1.0	-56.7	-13.0	-43.7	
	Mid Ch, 836.5									
	1673.00	-26.1	V	3.0	37.0	1.0	-62.1	-13.0	-49.1	
	2509.50	-23.3	V	3.0	36.4	1.0	-58.7	-13.0	-45.7	
16QAM	3346.00	-20.6	V	3.0	36.1	1.0	-55.7	-13.0	-42.7	
	1673.00	-28.0	H	3.0	37.0	1.0	-64.0	-13.0	-51.0	
	2509.50	-24.7	H	3.0	36.4	1.0	-60.1	-13.0	-47.1	
	3346.00	-20.9	H	3.0	36.1	1.0	-56.0	-13.0	-43.0	
	High Ch, 848.3									
	1696.60	-26.3	V	3.0	37.0	1.0	-62.3	-13.0	-49.3	
	2544.90	-23.4	V	3.0	36.4	1.0	-58.8	-13.0	-45.8	
	3393.20	-20.6	V	3.0	36.1	1.0	-55.7	-13.0	-42.7	
	1696.60	-27.8	H	3.0	37.0	1.0	-63.7	-13.0	-50.7	
	2544.90	-25.0	H	3.0	36.4	1.0	-60.4	-13.0	-47.4	
	3393.20	-20.9	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 #:		15I21523								
Date:		8/22/2015								
Test Engineer:		A. Escamilla								
Configuration:		EUT, AC Adapter, Headset								
Location:		Chamber C								
Mode:		LTE_QPSK Band 5 Harmonics, 1.4MHz Bandwidth								
Band	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
1.4MHz	Low Ch, 824.7									
	1649.40	-26.9	V	3.0	37.0	1.0	-62.9	-13.0	-49.9	
	2474.10	-23.0	V	3.0	36.4	1.0	-58.4	-13.0	-45.4	
	3298.80	-21.0	V	3.0	36.2	1.0	-56.1	-13.0	-43.1	
	1649.40	-28.2	H	3.0	37.0	1.0	-64.2	-13.0	-51.2	
	2474.10	-25.1	H	3.0	36.4	1.0	-60.5	-13.0	-47.5	
	3298.80	-21.0	H	3.0	36.2	1.0	-56.2	-13.0	-43.2	
	Mid Ch, 836.5									
	1673.00	-26.4	V	3.0	37.0	1.0	-62.4	-13.0	-49.4	
	2509.50	-22.9	V	3.0	36.4	1.0	-58.3	-13.0	-45.3	
QPSK	3346.00	-21.3	V	3.0	36.1	1.0	-56.4	-13.0	-43.4	
	1673.00	-27.4	H	3.0	37.0	1.0	-63.4	-13.0	-50.4	
	2509.50	-24.2	H	3.0	36.4	1.0	-59.6	-13.0	-46.6	
	3346.00	-20.6	H	3.0	36.1	1.0	-55.8	-13.0	-42.8	
	High Ch, 848.3									
	1696.60	-27.1	V	3.0	37.0	1.0	-63.1	-13.0	-50.1	
	2544.90	-22.8	V	3.0	36.4	1.0	-58.2	-13.0	-45.2	
	3393.20	-20.9	V	3.0	36.1	1.0	-56.0	-13.0	-43.0	
	1696.60	-27.9	H	3.0	37.0	1.0	-63.9	-13.0	-50.9	
	2544.90	-24.4	H	3.0	36.4	1.0	-59.8	-13.0	-46.8	
	3393.20	-21.1	H	3.0	36.1	1.0	-56.2	-13.0	-43.2	

LTE Band 7

Band	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: LG Electronics Project #: 15I21523 Date: 8/21/2015 Test Engineer: R.Z Configuration: EUT, AC Adapter, Headset Location: Chamber A Mode: LTE_16QAM Band 7 Harmonics, 20MHz Bandwidth									
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamplifier (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 2510 5020.00 -15.1 V 3.0 35.5 1.0 -49.5 -25.0 -24.5 7530.00 -14.2 V 3.0 35.7 1.0 -48.9 -25.0 -23.9 10040.00 -11.2 V 3.0 36.0 1.0 -46.2 -25.0 -21.2 5020.00 -15.2 H 3.0 35.5 1.0 -49.7 -25.0 -24.7 7530.00 -13.6 H 3.0 35.7 1.0 -48.4 -25.0 -23.4 10040.00 -10.6 H 3.0 36.0 1.0 -45.6 -25.0 -20.6 Mid Ch, 2535 5070.00 -15.7 V 3.0 35.4 1.0 -50.1 -25.0 -25.1 7605.00 -13.9 V 3.0 35.8 1.0 -48.7 -25.0 -23.7 10140.00 -11.1 V 3.0 36.0 1.0 -46.0 -25.0 -21.0 5070.00 -15.5 H 3.0 35.4 1.0 -49.9 -25.0 -24.9 7605.00 -12.9 H 3.0 35.8 1.0 -47.7 -25.0 -22.7 10140.00 -10.1 H 3.0 36.0 1.0 -45.0 -25.0 -20.0 High Ch, 2560 5120.00 -15.6 V 3.0 35.4 1.0 -50.1 -25.0 -25.1 7680.00 -13.9 V 3.0 35.8 1.0 -48.7 -25.0 -23.7 10240.00 -11.0 V 3.0 35.9 1.0 -45.9 -25.0 -20.9 5120.00 -15.2 H 3.0 35.4 1.0 -49.7 -25.0 -24.7 7680.00 -13.0 H 3.0 35.8 1.0 -47.7 -25.0 -22.7 10240.00 -10.7 H 3.0 35.9 1.0 -45.6 -25.0 -20.6									

Band	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: LG Electronics Project #: 15I21523 Date: 8/21/2015 Test Engineer: R.Z Configuration: EUT, AC Adapter, Headset Location: Chamber A Mode: LTE_QPSK Band 7 Harmonics, 20MHz Bandwidth									
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamplifier (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
LTE7	Low Ch, 2510									
	5020.00	-14.9	V	3.0	35.5	1.0	-49.3	-25.0	-24.3	
20MHz	7530.00	-14.3	V	3.0	35.7	1.0	-49.0	-25.0	-24.0	
	10040.00	-11.3	V	3.0	36.0	1.0	-46.3	-25.0	-21.3	
QPSK	5020.00	-14.8	H	3.0	35.5	1.0	-49.2	-25.0	-24.2	
	7530.00	-14.2	H	3.0	35.7	1.0	-49.0	-25.0	-24.0	
	10040.00	-11.2	H	3.0	36.0	1.0	-46.2	-25.0	-21.2	
	Mid Ch, 2535									
	5070.00	-15.9	V	3.0	35.4	1.0	-50.3	-25.0	-25.3	
	7605.00	-13.7	V	3.0	35.8	1.0	-48.5	-25.0	-23.5	
	10140.00	-11.4	V	3.0	36.0	1.0	-46.3	-25.0	-21.3	
	5070.00	-15.1	H	3.0	35.4	1.0	-49.6	-25.0	-24.6	
	7605.00	-12.7	H	3.0	35.8	1.0	-47.5	-25.0	-22.5	
	10140.00	-10.1	H	3.0	36.0	1.0	-45.1	-25.0	-20.1	
	High Ch, 2560									
	5120.00	-15.8	V	3.0	35.4	1.0	-50.3	-25.0	-25.3	
	7680.00	-14.2	V	3.0	35.8	1.0	-49.0	-25.0	-24.0	
	10240.00	-10.3	V	3.0	35.9	1.0	-45.2	-25.0	-20.2	
	5120.00	-15.3	H	3.0	35.4	1.0	-49.7	-25.0	-24.7	
	7680.00	-12.7	H	3.0	35.8	1.0	-47.5	-25.0	-22.5	
	10240.00	-10.9	H	3.0	35.9	1.0	-45.8	-25.0	-20.8	

Band	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: LG Electronics Project #: 15I21523 Date: 8/21/2015 Test Engineer: R.Z Configuration: EUT, AC Adapter, Headset Location: Chamber A Mode: LTE_16QAM Band 7 Harmonics, 15MHz Bandwidth									
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamplifier (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
LTE7	Low Ch, 2507.5									
	5015.00	-15.2	V	3.0	35.5	1.0	-49.7	-25.0	-24.7	
15MHz	7522.50	-14.7	V	3.0	35.7	1.0	-49.5	-25.0	-24.5	
	10030.00	-11.0	V	3.0	36.0	1.0	-46.0	-25.0	-21.0	
16QAM	5015.00	-15.2	H	3.0	35.5	1.0	-49.7	-25.0	-24.7	
	7522.50	-13.2	H	3.0	35.7	1.0	-47.9	-25.0	-22.9	
	10030.00	-10.3	H	3.0	36.0	1.0	-45.4	-25.0	-20.4	
	Mid Ch, 2535									
	5070.00	-15.2	V	3.0	35.4	1.0	-49.6	-25.0	-24.6	
	7605.00	-14.1	V	3.0	35.8	1.0	-48.9	-25.0	-23.9	
	10140.00	-10.7	V	3.0	36.0	1.0	-45.6	-25.0	-20.6	
	5070.00	-15.1	H	3.0	35.4	1.0	-49.6	-25.0	-24.6	
	7605.00	-12.9	H	3.0	35.8	1.0	-47.7	-25.0	-22.7	
	10140.00	-10.4	H	3.0	36.0	1.0	-45.4	-25.0	-20.4	
	High Ch, 2562.5									
	5125.00	-15.0	V	3.0	35.4	1.0	-49.4	-25.0	-24.4	
	7687.50	-13.7	V	3.0	35.8	1.0	-48.5	-25.0	-23.5	
	10250.00	-10.5	V	3.0	35.9	1.0	-45.4	-25.0	-20.4	
	5125.00	-15.4	H	3.0	35.4	1.0	-49.8	-25.0	-24.8	
	7687.50	-12.9	H	3.0	35.8	1.0	-47.6	-25.0	-22.6	
	10250.00	-10.4	H	3.0	35.9	1.0	-45.3	-25.0	-20.3	

Band	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: LG Electronics Project #: 15I21523 Date: 8/21/2015 Test Engineer: R.Z Configuration: EUT, AC Adapter, Headset Location: Chamber A Mode: LTE_QPSK Band 7 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
LTE7	Low Ch, 2507.5									
	5015.00	-14.5	V	3.0	35.5	1.0	-49.0	-25.0	-24.0	
15MHz	7522.50	-15.0	V	3.0	35.7	1.0	-49.7	-25.0	-24.7	
	10030.00	-9.9	V	3.0	36.0	1.0	-44.9	-25.0	-19.9	
QPSK	5015.00	-15.1	H	3.0	35.5	1.0	-49.6	-25.0	-24.6	
	7522.50	-13.4	H	3.0	35.7	1.0	-48.2	-25.0	-23.2	
	10030.00	-10.3	H	3.0	36.0	1.0	-45.3	-25.0	-20.3	
	Mid Ch, 2535									
	5070.00	-15.5	V	3.0	35.4	1.0	-49.9	-25.0	-24.9	
	7605.00	-13.9	V	3.0	35.8	1.0	-48.7	-25.0	-23.7	
	10140.00	-10.2	V	3.0	36.0	1.0	-45.1	-25.0	-20.1	
	5070.00	-15.3	H	3.0	35.4	1.0	-49.7	-25.0	-24.7	
	7605.00	-13.1	H	3.0	35.8	1.0	-47.9	-25.0	-22.9	
	10140.00	-10.2	H	3.0	36.0	1.0	-45.2	-25.0	-20.2	
	High Ch, 2562.5									
	5125.00	-14.5	V	3.0	35.4	1.0	-49.0	-25.0	-24.0	
	7687.50	-13.2	V	3.0	35.8	1.0	-48.0	-25.0	-23.0	
	10250.00	-9.8	V	3.0	35.9	1.0	-44.7	-25.0	-19.7	
	5125.00	-15.8	H	3.0	35.4	1.0	-50.2	-25.0	-25.2	
	7687.50	-12.9	H	3.0	35.8	1.0	-47.7	-25.0	-22.7	
	10250.00	-9.7	H	3.0	35.9	1.0	-44.6	-25.0	-19.6	

Band	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: LG Electronics Project #: 15I21523 Date: 8/21/2015 Test Engineer: R.Z Configuration: EUT, AC Adapter, Headset Location: Chamber A Mode: LTE_16QAM Band 7 Harmonics, 10MHz Bandwidth									
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamplifier (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 2505 5010.00 -15.5 V 3.0 35.5 1.0 -50.0 -25.0 -25.0 7515.00 -14.8 V 3.0 35.7 1.0 -49.6 -25.0 -24.6 10020.00 -10.8 V 3.0 36.0 1.0 -45.8 -25.0 -20.8 5010.00 -15.2 H 3.0 35.5 1.0 -49.7 -25.0 -24.7 7515.00 -13.2 H 3.0 35.7 1.0 -47.9 -25.0 -22.9 10020.00 -9.8 H 3.0 36.0 1.0 -44.8 -25.0 -19.8 Mid Ch, 2535 5070.00 -14.6 V 3.0 35.4 1.0 -49.0 -25.0 -24.0 7605.00 -13.6 V 3.0 35.8 1.0 -48.4 -25.0 -23.4 10140.00 -10.4 V 3.0 36.0 1.0 -45.4 -25.0 -20.4 5070.00 -15.3 H 3.0 35.4 1.0 -49.8 -25.0 -24.8 7605.00 -13.1 H 3.0 35.8 1.0 -47.9 -25.0 -22.9 10140.00 -9.5 H 3.0 36.0 1.0 -44.5 -25.0 -19.5 High Ch, 2565 5130.00 -15.4 V 3.0 35.4 1.0 -49.8 -25.0 -24.8 7695.00 -14.0 V 3.0 35.8 1.0 -48.8 -25.0 -23.8 10260.00 -10.5 V 3.0 35.9 1.0 -45.4 -25.0 -20.4 5130.00 -15.1 H 3.0 35.4 1.0 -49.5 -25.0 -24.5 7695.00 -13.0 H 3.0 35.8 1.0 -47.8 -25.0 -22.8 10260.00 -10.0 H 3.0 35.9 1.0 -44.9 -25.0 -19.9									

Band	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: LG Electronics Project #: 15I21523 Date: 8/21/2015 Test Engineer: R.Z Configuration: EUT, AC Adapter, Headset Location: Chamber A Mode: LTE_QPSK Band 7 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
LTE7	Low Ch, 2505									
	5010.00	-15.7	V	3.0	35.5	1.0	-50.2	-25.0	-25.2	
10MHz	7515.00	-15.1	V	3.0	35.7	1.0	-49.9	-25.0	-24.9	
	10020.00	-10.9	V	3.0	36.0	1.0	-45.9	-25.0	-20.9	
QPSK	5010.00	-14.4	H	3.0	35.5	1.0	-48.9	-25.0	-23.9	
	7515.00	-13.2	H	3.0	35.7	1.0	-47.9	-25.0	-22.9	
	10020.00	-9.6	H	3.0	36.0	1.0	-44.6	-25.0	-19.6	
	Mid Ch, 2535									
	5070.00	-15.3	V	3.0	35.4	1.0	-49.7	-25.0	-24.7	
	7605.00	-13.1	V	3.0	35.8	1.0	-47.9	-25.0	-22.9	
	10140.00	-10.6	V	3.0	36.0	1.0	-45.5	-25.0	-20.5	
	5070.00	-15.0	H	3.0	35.4	1.0	-49.5	-25.0	-24.5	
	7605.00	-13.1	H	3.0	35.8	1.0	-47.8	-25.0	-22.8	
	10140.00	-10.5	H	3.0	36.0	1.0	-45.5	-25.0	-20.5	
	High Ch, 2565									
	5130.00	-15.6	V	3.0	35.4	1.0	-50.0	-25.0	-25.0	
	7695.00	-13.8	V	3.0	35.8	1.0	-48.6	-25.0	-23.6	
	10260.00	-10.0	V	3.0	35.9	1.0	-44.9	-25.0	-19.9	
	5130.00	-15.3	H	3.0	35.4	1.0	-49.8	-25.0	-24.8	
	7695.00	-12.3	H	3.0	35.8	1.0	-47.1	-25.0	-22.1	
	10260.00	-10.5	H	3.0	35.9	1.0	-45.4	-25.0	-20.4	

Band	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: LG Electronics Project #: 15I21523 Date: 8/21/2015 Test Engineer: R.Z Configuration: EUT, AC Adapter, Headset Location: Chamber A Mode: LTE_QPSK Band 7 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
LTE7	Low Ch, 2502.5									
	5005.00	-15.5	V	3.0	35.5	1.0	-50.0	-25.0	-25.0	
5MHz	7507.50	-14.8	V	3.0	35.7	1.0	-49.6	-25.0	-24.6	
	10010.00	-10.7	V	3.0	36.0	1.0	-45.7	-25.0	-20.7	
QPSK	5005.00	-14.3	H	3.0	35.5	1.0	-48.8	-25.0	-23.8	
	7507.50	-13.5	H	3.0	35.7	1.0	-48.2	-25.0	-23.2	
	10010.00	-9.2	H	3.0	36.0	1.0	-44.2	-25.0	-19.2	
	Mid Ch, 2535									
	5070.00	-15.2	V	3.0	35.4	1.0	-49.6	-25.0	-24.6	
	7605.00	-13.5	V	3.0	35.8	1.0	-48.3	-25.0	-23.3	
	10140.00	-11.7	V	3.0	36.0	1.0	-46.6	-25.0	-21.6	
	5070.00	-14.7	H	3.0	35.4	1.0	-49.2	-25.0	-24.2	
	7605.00	-13.6	H	3.0	35.8	1.0	-48.4	-25.0	-23.4	
	10140.00	-10.1	H	3.0	36.0	1.0	-45.1	-25.0	-20.1	
	High Ch, 2567.5									
	5135.00	-16.2	V	3.0	35.4	1.0	-50.6	-25.0	-25.6	
	7702.50	-14.0	V	3.0	35.8	1.0	-48.7	-25.0	-23.7	
	10270.00	-6.2	V	3.0	35.9	1.0	-41.1	-25.0	-16.1	
	5135.00	-15.0	H	3.0	35.4	1.0	-49.5	-25.0	-24.5	
	7702.50	-13.2	H	3.0	35.8	1.0	-48.0	-25.0	-23.0	
	10270.00	-8.4	H	3.0	35.9	1.0	-43.3	-25.0	-18.3	

LTE Band 13

Band LTE13 10MHz 16QAM	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: LG Electronics Project #: 15I21523 Date: 8/22/2015 Test Engineer: A. Escamilla Configuration: EUT, AC Adapter, Headset Location: Chamber C Mode: LTE_16QAM Band 13 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
	Mid Ch, 782									
	1564.00	-28.8	V	3.0	37.1	1.0	-65.0	-13.0	-52.0	
	2346.00	-23.5	V	3.0	36.5	1.0	-59.0	-13.0	-46.0	
	3128.00	-21.5	V	3.0	36.3	1.0	-56.8	-13.0	-43.8	
	1564.00	-28.9	H	3.0	37.1	1.0	-65.0	-13.0	-52.0	
	2346.00	-25.4	H	3.0	36.5	1.0	-60.9	-13.0	-47.9	
	3128.00	-21.6	H	3.0	36.3	1.0	-56.9	-13.0	-43.9	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:	LG Electronics									
Project #:	15I21523									
Date:	8/22/2015									
Test Engineer:	A. Escamilla									
Configuration:	EUT, AC Adapter, Headset									
Location:	Chamber C									
Mode:	LTE_QPSK Band 13 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 LTE13 10MHz QPSK	Mid Ch, 782									
	1564.00	-28.6	V	3.0	37.1	1.0	-64.8	-13.0	-51.8	
	2346.00	-23.8	V	3.0	36.5	1.0	-59.3	-13.0	-46.3	
	3128.00	-21.4	V	3.0	36.3	1.0	-56.7	-13.0	-43.7	
	1564.00	-28.8	H	3.0	37.1	1.0	-64.9	-13.0	-51.9	
	2346.00	-25.0	H	3.0	36.5	1.0	-60.5	-13.0	-47.5	
	3128.00	-21.5	H	3.0	36.3	1.0	-56.8	-13.0	-43.8	

LTE Band 17

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: LG Electronics Project #: 15I21523 Date: 8/21/2015 Test Engineer: A. Escamilla Configuration: EUT, AC Adapter, Headset Location: Chamber C Mode: LTE_16QAM Band 17 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, 709									
1418.00	-29.8	V	3.0	37.4	1.0	-66.2	-13.0	-53.2	
2127.00	-17.9	V	3.0	36.6	1.0	-53.4	-13.0	-40.4	
2836.00	-22.5	V	3.0	36.4	1.0	-57.9	-13.0	-44.9	
1418.00	-30.6	H	3.0	37.4	1.0	-66.9	-13.0	-53.9	
2127.00	-21.3	H	3.0	36.6	1.0	-56.9	-13.0	-43.9	
2836.00	-23.7	H	3.0	36.4	1.0	-59.1	-13.0	-46.1	
Mid Ch, 710									
1420.00	-30.7	V	3.0	37.3	1.0	-67.1	-13.0	-54.1	
2130.00	-18.4	V	3.0	36.6	1.0	-54.0	-13.0	-41.0	
2840.00	-22.6	V	3.0	36.4	1.0	-57.9	-13.0	-44.9	
1420.00	-30.4	H	3.0	37.3	1.0	-66.8	-13.0	-53.8	
2130.00	-21.0	H	3.0	36.6	1.0	-56.5	-13.0	-43.5	
2840.00	-23.7	H	3.0	36.4	1.0	-59.1	-13.0	-46.1	
High Ch, 711									
1422.00	-30.8	V	3.0	37.3	1.0	-67.1	-13.0	-54.1	
2133.00	-20.3	V	3.0	36.6	1.0	-55.9	-13.0	-42.9	
2844.00	-23.3	V	3.0	36.4	1.0	-58.7	-13.0	-45.7	
1422.00	-29.6	H	3.0	37.3	1.0	-66.0	-13.0	-53.0	
2133.00	-20.4	H	3.0	36.6	1.0	-56.0	-13.0	-43.0	
2844.00	-23.9	H	3.0	36.4	1.0	-59.3	-13.0	-46.3	

LTE Band 25

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: LG Electronics Project #: 15I21523 Date: 8/22/2015 Test Engineer: A. Escamilla Configuration: EUT, AC Adapter, Headset Location: Chamber C Mode: LTE_16QAM Band 25 Harmonics, 20MHz Bandwidth									
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamplifier (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1860									
3720.00	-19.7	V	3.0	35.8	1.0	-54.5	-13.0	-41.5	
5580.00	-15.8	V	3.0	35.5	1.0	-50.2	-13.0	-37.2	
7440.00	-13.2	V	3.0	35.7	1.0	-47.9	-13.0	-34.9	
3720.00	-19.0	H	3.0	35.8	1.0	-53.9	-13.0	-40.9	
5580.00	-15.9	H	3.0	35.5	1.0	-50.3	-13.0	-37.3	
7440.00	-11.9	H	3.0	35.7	1.0	-46.6	-13.0	-33.6	
Mid Ch, 1882.5									
3765.00	-19.8	V	3.0	35.8	1.0	-54.6	-13.0	-41.6	
5647.50	-15.9	V	3.0	35.5	1.0	-50.4	-13.0	-37.4	
7530.00	-13.0	V	3.0	35.7	1.0	-47.8	-13.0	-34.8	
3765.00	-18.9	H	3.0	35.8	1.0	-53.7	-13.0	-40.7	
5647.50	-15.2	H	3.0	35.5	1.0	-49.7	-13.0	-36.7	
7530.00	-11.9	H	3.0	35.7	1.0	-46.7	-13.0	-33.7	
High Ch, 1905									
3810.00	-19.1	V	3.0	35.8	1.0	-53.9	-13.0	-40.9	
5715.00	-15.7	V	3.0	35.5	1.0	-50.2	-13.0	-37.2	
7620.00	-12.6	V	3.0	35.8	1.0	-47.4	-13.0	-34.4	
3810.00	-19.5	H	3.0	35.8	1.0	-54.3	-13.0	-41.3	
5715.00	-14.8	H	3.0	35.5	1.0	-49.3	-13.0	-36.3	
7620.00	-11.8	H	3.0	35.8	1.0	-46.5	-13.0	-33.5	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: LG Electronics Project #: 15I21523 Date: 8/22/2015 Test Engineer: A. Escamilla Configuration: EUT, AC Adapter, Headset Location: Chamber C 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									
3701.40	-20.0	V	3.0	35.9	1.0	-54.8	-13.0	-41.8	
5552.10	-16.0	V	3.0	35.5	1.0	-50.5	-13.0	-37.5	
7402.80	-12.7	V	3.0	35.7	1.0	-47.5	-13.0	-34.5	
3701.40	-20.2	H	3.0	35.9	1.0	-55.1	-13.0	-42.1	
5552.10	-15.5	H	3.0	35.5	1.0	-50.0	-13.0	-37.0	
7402.80	-12.3	H	3.0	35.7	1.0	-47.0	-13.0	-34.0	
Mid Ch, 1882.5									
3765.00	-19.8	V	3.0	35.8	1.0	-44.7	-13.0	-31.7	
5647.50	-15.6	V	3.0	35.5	1.0	-50.1	-13.0	-37.1	
7530.00	-12.9	V	3.0	35.7	1.0	-47.7	-13.0	-34.7	
3765.00	-19.8	H	3.0	35.8	1.0	-54.6	-13.0	-41.6	
5647.50	-14.1	H	3.0	35.5	1.0	-48.6	-13.0	-35.6	
7530.00	-11.9	H	3.0	35.7	1.0	-46.7	-13.0	-33.7	
High Ch, 1914.3									
3828.60	-19.5	V	3.0	35.8	1.0	-54.3	-13.0	-41.3	
5742.90	-15.4	V	3.0	35.5	1.0	-49.9	-13.0	-36.9	
7657.20	-12.8	V	3.0	35.8	1.0	-47.5	-13.0	-34.5	
3828.60	-19.9	H	3.0	35.8	1.0	-54.7	-13.0	-41.7	
5742.90	-15.1	H	3.0	35.5	1.0	-49.6	-13.0	-36.6	
7657.20	-12.1	H	3.0	35.8	1.0	-46.9	-13.0	-33.9	

Band	Compliance Certification Services Above 1GHz High Frequency Substitution Measurement Company: LG Electronics Project #: 15I21523 Date: 8/21/2015 Test Engineer: R.Z Configuration: EUT, AC Adapter, Headset Location: Chamber A 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
LTE26	Mid Ch, 831.5									
	1663.00	-27.5	V	3.0	37.0	1.0	-63.6	-13.0	-50.6	
15MHz	2494.50	-22.8	V	3.0	36.4	1.0	-58.2	-13.0	-45.2	
	3326.00	-20.3	V	3.0	36.2	1.0	-55.5	-13.0	-42.5	
QPSK	1663.00	-28.0	H	3.0	37.0	1.0	-64.0	-13.0	-51.0	
	2494.50	-22.9	H	3.0	36.4	1.0	-58.4	-13.0	-45.4	
	3326.00	-20.2	H	3.0	36.2	1.0	-55.3	-13.0	-42.3	
	Mid Ch, 836.5									
	1673.00	-27.4	V	3.0	37.0	1.0	-63.4	-13.0	-50.4	
	2509.50	-22.7	V	3.0	36.4	1.0	-58.1	-13.0	-45.1	
	3346.00	-21.7	V	3.0	36.1	1.0	-56.9	-13.0	-43.9	
	1673.00	-27.8	H	3.0	37.0	1.0	-63.8	-13.0	-50.8	
	2509.50	-23.9	H	3.0	36.4	1.0	-59.4	-13.0	-46.4	
	3346.00	-21.2	H	3.0	36.1	1.0	-56.3	-13.0	-43.3	
	High Ch, 841.5									
	1683.00	-27.4	V	3.0	37.0	1.0	-63.4	-13.0	-50.4	
	2524.50	-22.9	V	3.0	36.4	1.0	-58.3	-13.0	-45.3	
	3366.00	-20.9	V	3.0	36.1	1.0	-56.0	-13.0	-43.0	
	1683.00	-27.4	H	3.0	37.0	1.0	-63.4	-13.0	-50.4	
	2524.50	-25.2	H	3.0	36.4	1.0	-60.6	-13.0	-47.6	
	3366.00	-20.9	H	3.0	36.1	1.0	-56.1	-13.0	-43.1	

Compliance Certification Services

Above 1GHz High Frequency Substitution Measurement

Company:

Project #:

Date:

Test Engineer:

Configuration:

Location:

Mode:

LG Electronics

15I21523

8/21/2015

R.Z

EUT, AC Adapter, Headset

Chamber A

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									
1638.00	-27.5	V	3.0	37.0	1.0	-63.5	-13.0	-50.5	
2457.00	-22.7	V	3.0	36.4	1.0	-58.1	-13.0	-45.1	
3276.00	-20.9	V	3.0	36.2	1.0	-56.1	-13.0	-43.1	
1638.00	-28.1	H	3.0	37.0	1.0	-64.2	-13.0	-51.2	
2457.00	-24.2	H	3.0	36.4	1.0	-59.7	-13.0	-46.7	
3276.00	-20.1	H	3.0	36.2	1.0	-55.3	-13.0	-42.3	
Mid Ch, 831.5									
1663.00	-27.1	V	3.0	37.0	1.0	-63.1	-13.0	-50.1	
2494.50	-21.6	V	3.0	36.4	1.0	-57.0	-13.0	-44.0	
3326.00	-19.9	V	3.0	36.1	1.0	-55.1	-13.0	-42.1	
1663.00	-28.4	H	3.0	37.0	1.0	-64.4	-13.0	-51.4	
2494.50	-24.6	H	3.0	36.4	1.0	-60.1	-13.0	-47.1	
3326.00	-20.9	H	3.0	36.1	1.0	-56.0	-13.0	-43.0	
High Ch, 844									
1688.00	-26.4	V	3.0	37.0	1.0	-62.4	-13.0	-49.4	
2532.00	-22.6	V	3.0	36.4	1.0	-58.0	-13.0	-45.0	
3376.00	-21.5	V	3.0	36.1	1.0	-56.6	-13.0	-43.6	
1688.00	-27.9	H	3.0	37.0	1.0	-63.8	-13.0	-50.8	
2532.00	-25.0	H	3.0	36.4	1.0	-60.4	-13.0	-47.4	
3376.00	-20.8	H	3.0	36.1	1.0	-55.9	-13.0	-42.9	

Compliance Certification Services

Above 1GHz High Frequency Substitution Measurement

Company:

Project #:

Date:

Test Engineer:

Configuration:

Location:

Mode:

LG Electronics

15I21523

8/21/2015

R.Z

EUT, AC Adapter, Headset

Chamber A

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									
1633.00	-27.3	V	3.0	37.0	1.0	-63.4	-13.0	-50.4	
2449.50	-22.6	V	3.0	36.4	1.0	-58.0	-13.0	-45.0	
3266.00	-20.1	V	3.0	36.2	1.0	-55.2	-13.0	-42.2	
1633.00	-27.9	H	3.0	37.0	1.0	-64.0	-13.0	-51.0	
2449.50	-23.2	H	3.0	36.4	1.0	-58.7	-13.0	-45.7	
3266.00	-20.2	H	3.0	36.2	1.0	-55.4	-13.0	-42.4	
Mid Ch, 831.5									
1663.00	-27.3	V	3.0	37.0	1.0	-63.3	-13.0	-50.3	
2494.50	-22.5	V	3.0	36.4	1.0	-57.9	-13.0	-44.9	
3326.00	-21.1	V	3.0	36.1	1.0	-56.3	-13.0	-43.3	
1663.00	-27.9	H	3.0	37.0	1.0	-63.9	-13.0	-50.9	
2494.50	-24.1	H	3.0	36.4	1.0	-59.6	-13.0	-46.6	
3326.00	-21.7	H	3.0	36.1	1.0	-56.8	-13.0	-43.8	
High Ch, 846.5									
1693.00	-26.4	V	3.0	37.0	1.0	-62.3	-13.0	-49.3	
2539.50	-22.3	V	3.0	36.4	1.0	-57.7	-13.0	-44.7	
3386.00	-20.9	V	3.0	36.1	1.0	-56.0	-13.0	-43.0	
1693.00	-27.4	H	3.0	37.0	1.0	-63.4	-13.0	-50.4	
2539.50	-24.3	H	3.0	36.4	1.0	-59.7	-13.0	-46.7	
3386.00	-20.7	H	3.0	36.1	1.0	-55.8	-13.0	-42.8	

Compliance Certification Services

Above 1GHz High Frequency Substitution Measurement

Company:

Project #:

Date:

Test Engineer:

Configuration:

Location:

Mode:

LG Electronics

15I21523

8/21/2015

R.Z

EUT, AC Adapter, Headset

Chamber A

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									
1631.00	-27.3	V	3.0	37.0	1.0	-63.3	-13.0	-50.3	
2446.50	-22.6	V	3.0	36.4	1.0	-58.0	-13.0	-45.0	
3262.00	-18.6	V	3.0	36.2	1.0	-53.8	-13.0	-40.8	
1631.00	-25.9	H	3.0	37.0	1.0	-62.0	-13.0	-49.0	
2446.50	-23.8	H	3.0	36.4	1.0	-59.2	-13.0	-46.2	
3262.00	-19.9	H	3.0	36.2	1.0	-55.1	-13.0	-42.1	
Mid Ch, 831.5									
1663.00	-27.0	V	3.0	37.0	1.0	-63.0	-13.0	-50.0	
2494.50	-23.0	V	3.0	36.4	1.0	-58.4	-13.0	-45.4	
3326.00	-20.9	V	3.0	36.1	1.0	-56.1	-13.0	-43.1	
1663.00	-27.2	H	3.0	37.0	1.0	-63.2	-13.0	-50.2	
2494.50	-24.7	H	3.0	36.4	1.0	-60.2	-13.0	-47.2	
3326.00	-21.5	H	3.0	36.1	1.0	-56.6	-13.0	-43.6	
High Ch, 847.5									
1695.00	-26.2	V	3.0	37.0	1.0	-62.2	-13.0	-49.2	
2542.50	-23.4	V	3.0	36.4	1.0	-58.8	-13.0	-45.8	
3390.00	-21.0	V	3.0	36.1	1.0	-56.1	-13.0	-43.1	
1695.00	-27.0	H	3.0	37.0	1.0	-63.0	-13.0	-50.0	
2542.50	-24.7	H	3.0	36.4	1.0	-60.1	-13.0	-47.1	
3390.00	-21.9	H	3.0	36.1	1.0	-57.0	-13.0	-44.0	

LTE Band 41

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: LG Electronics Project #: 15I21523 Date: 8/19/2015 Test Engineer: A. Escamilla Configuration: EUT, AC Adapter, Headset Location: Chamber C Mode: LTE_16QAM Band 41 Harmonics, 20MHz Bandwidth									
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamplifier (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 2506									
5012.00	-16.8	V	3.0	35.5	1.0	-51.2	-25.0	-26.2	
7518.00	-9.8	V	3.0	35.7	1.0	-44.6	-25.0	-19.6	
10024.00	-2.1	V	3.0	36.0	1.0	-37.2	-25.0	-12.2	
5012.00	-16.8	H	3.0	35.5	1.0	-51.2	-25.0	-26.2	
7518.00	-11.3	H	3.0	35.7	1.0	-46.1	-25.0	-21.1	
10024.00	-9.9	H	3.0	36.0	1.0	-44.9	-25.0	-19.9	
Mid Ch, 2593									
5186.00	-16.3	V	3.0	35.4	1.0	-50.7	-25.0	-25.7	
7779.00	-9.0	V	3.0	35.8	1.0	-43.8	-25.0	-18.8	
10372.00	-1.0	V	3.0	35.8	1.0	-35.9	-25.0	-10.9	
5186.00	-16.3	H	3.0	35.4	1.0	-50.7	-25.0	-25.7	
7779.00	-10.8	H	3.0	35.8	1.0	-45.6	-25.0	-20.6	
10372.00	-6.3	H	3.0	35.8	1.0	-41.1	-25.0	-16.1	
High Ch, 2680									
5360.00	-16.8	V	3.0	35.4	1.0	-51.2	-25.0	-26.2	
8040.00	-11.5	V	3.0	35.8	1.0	-46.3	-25.0	-21.3	
10720.00	-6.1	V	3.0	35.7	1.0	-40.7	-25.0	-15.7	
5360.00	-15.8	H	3.0	35.4	1.0	-50.2	-25.0	-25.2	
8040.00	-11.2	H	3.0	35.8	1.0	-46.0	-25.0	-21.0	
10720.00	-2.4	H	3.0	35.7	1.0	-37.1	-25.0	-12.1	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I21523							
Date:		8/19/2015							
Test Engineer:		A. Escamilla							
Configuration:		EUT, AC Adapter, Headset							
Location:		Chamber C							
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
Low Ch, 2506									
5012.00	-16.4	V	3.0	35.5	1.0	-50.9	-25.0	-25.9	
7518.00	-11.4	V	3.0	35.7	1.0	-46.1	-25.0	-21.1	
10024.00	-6.7	V	3.0	36.0	1.0	-41.7	-25.0	-16.7	
5012.00	-16.5	H	3.0	35.5	1.0	-50.9	-25.0	-25.9	
7518.00	-11.1	H	3.0	35.7	1.0	-45.8	-25.0	-20.8	
10024.00	-10.3	H	3.0	36.0	1.0	-45.3	-25.0	-20.3	
Mid Ch, 2593									
5186.00	-16.0	V	3.0	35.4	1.0	-50.5	-25.0	-25.5	
7779.00	-11.1	V	3.0	35.8	1.0	-45.9	-25.0	-20.9	
10372.00	-5.5	V	3.0	35.8	1.0	-40.4	-25.0	-15.4	
5186.00	-16.1	H	3.0	35.4	1.0	-50.6	-25.0	-25.6	
7779.00	-10.7	H	3.0	35.8	1.0	-45.5	-25.0	-20.5	
10372.00	-8.5	H	3.0	35.8	1.0	-43.4	-25.0	-18.4	
High Ch, 2680									
5360.00	-16.5	V	3.0	35.4	1.0	-51.0	-25.0	-26.0	
8040.00	-11.7	V	3.0	35.8	1.0	-46.5	-25.0	-21.5	
10720.00	-8.0	V	3.0	35.7	1.0	-42.7	-25.0	-17.7	
5360.00	-16.3	H	3.0	35.4	1.0	-50.8	-25.0	-25.8	
8040.00	-11.5	H	3.0	35.8	1.0	-46.3	-25.0	-21.3	
10720.00	-7.1	H	3.0	35.7	1.0	-41.8	-25.0	-16.8	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: LG Electronics Project #: 15I21523 Date: 8/19/2015 Test Engineer: A. Escamilla Configuration: EUT, AC Adapter, Headset Location: Chamber C 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
Low Ch, 2501									
5002.00	-16.8	V	3.0	35.5	1.0	-51.3	-25.0	-26.3	
7503.00	-11.0	V	3.0	35.7	1.0	-45.7	-25.0	-20.7	
10004.00	-10.7	V	3.0	36.0	1.0	-45.7	-25.0	-20.7	
5002.00	-16.2	H	3.0	35.5	1.0	-50.7	-25.0	-25.7	
7503.00	-11.0	H	3.0	35.7	1.0	-45.7	-25.0	-20.7	
10004.00	-7.7	H	3.0	36.0	1.0	-42.8	-25.0	-17.8	
Mid Ch, 2593									
5186.00	-16.5	V	3.0	35.4	1.0	-50.9	-25.0	-25.9	
7779.00	-10.2	V	3.0	35.8	1.0	-44.9	-25.0	-19.9	
10372.00	-7.6	V	3.0	35.8	1.0	-42.5	-25.0	-17.5	
5186.00	-15.9	H	3.0	35.4	1.0	-50.3	-25.0	-25.3	
7779.00	-9.7	H	3.0	35.8	1.0	-44.5	-25.0	-19.5	
10372.00	-9.4	H	3.0	35.8	1.0	-44.3	-25.0	-19.3	
High Ch, 2685									
5370.00	-15.7	V	3.0	35.4	1.0	-50.2	-25.0	-25.2	
8055.00	-12.1	V	3.0	35.8	1.0	-46.9	-25.0	-21.9	
10740.00	-2.2	V	3.0	35.7	1.0	-36.9	-25.0	-11.9	
5370.00	-16.4	H	3.0	35.4	1.0	-50.9	-25.0	-25.9	
8055.00	-11.3	H	3.0	35.8	1.0	-46.1	-25.0	-21.1	
10740.00	-10.1	H	3.0	35.7	1.0	-44.8	-25.0	-19.8	

