

LTE Band 41

Band LTE41 20MHz 16QAM	High Frequency Substitution Measurement UL Verification Services, Inc.																																																																																																	
	Company:		LG																																																																																															
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12.2. ADDITIONAL TESTS (Phone with Smart Case and Stylus Pen)

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

12.2.1.1. CDMA (MID CHANNEL ONLY)

Band BC1 1xRTT	High Frequency Substitution Measurement UL Fremont Radiated Chamber F								
	Company:		LG						
	Project #:		15119834						
	Date:		02/13/15						
	Test Engineer:		R.Z						
	Configuration:		EUT w/HS+AC						
	Mode:		CDMA 1XRTT 1900MHz						
	Test Equipment:								
	Receiving: Horn T120 and Chamber F SMA Cables								
	Substitution: Horn T60 Substitution, 8ft SMA Cable Warehouse								
	f	SG reading	Ant. Pol.	Cable Loss	Antenna Gain	EIRP	Limit	Margin	Notes
	GHz	(dBm)	(H/V)	(dB)	(dBi)	(dBm)	(dBm)	(dB)	
	Mid Ch								
	1.880	13.6	V	0.98	8.53	21.15	33.0	-11.9	
	1.880	17.4	H	0.98	8.68	25.10	33.0	-7.9	
Rev. 2.13.15									

Band BC0 1xRTT	High Frequency Substitution Measurement UL Fremont Radiated Chamber F										
	Company: LG Project #: 15I19834 Date: 02/13/15 Test Engineer: R.Z Configuration: EUT w/HS+AC Mode: CDMA 1XRTT 850MHz										
	Test Equipment: Receiving: Sunol T122, and Chamber F Cable Substitution: Dipole S/N: 00022117, 8ft SMA Cable										
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	EIRP (dBm)	ERP Limit (dBm)	EIRP Limit (dBm)	Margin (dB)	Notes
	Mid Ch										
	836.52	16.53	V	0.6	0.0	15.91	18.06	38.45	40.60	-22.5	
	836.52	21.56	H	0.6	0.0	20.94	23.09	38.45	40.60	-17.5	
	Rev. 2.13.15										

Band BC10 1xRTT	High Frequency Substitution Measurement UL Fremont Radiated Chamber F											
	Company: LG Project #: 15I19834 Date: 02/13/15 Test Engineer: R.Z Configuration: EUT w/HS+AC Mode: CDMA 1XRTT 800MHz											
	Test Equipment: Receiving: Sunol T122, and Chamber F Cable Substitution: Dipole S/N: 00022117, 8ft SMA Cable											
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	EIRP (dBm)	ERP Limit (dBm)	EIRP Limit (dBm)	Margin (dB)	Notes	
	Mid Ch											
	819.15	17.06	V	0.6	0.0	16.44	18.59	38.45	40.60	-22.0		
	819.15	20.90	H	0.6	0.0	20.28	22.43	38.45	40.60	-18.2		
	Rev. 2.13.15											

12.2.1.2. LTE (MID CHANNEL ONLY)

Band LTE41 10MHz QPSK	High Frequency Substitution Measurement UL Fremont Radiated Chamber F																																											
	Company: LG																																											
	Project #: 15I19834																																											
	Date: 2/12/2015																																											
	Test Engineer: R.Z																																											
	Configuration: EUT w/ HS+AC																																											
	Mode: LTE Band 41 QPSK 10MHz BW																																											
	Test Equipment:																																											
	Receiving: Horn T 120, and Chamber F SMA Cables																																											
	Substitution: Horn T59 Substitution, 4ft SMA Cable (s/n 245182-003; SUCOFLEX 104PEA)																																											
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Band LTE41 10MHz 16QAM	High Frequency Substitution Measurement UL Fremont Radiated Chamber F							
Company: LG Project #: 15I19834 Date: 2/12/2015 Test Engineer: R.Z Configuration: EUT w/ HS+AC Mode: LTE Band 41 16QAM 10MHz BW								
Test Equipment: Receiving: Horn T120, and Chamber F SMA Cables Substitution: Horn T59 Substitution, 4ft SMA Cable (s/n 245182-003; SUCOFLEX 104PEA)								
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin EIRP (dB)	Notes
Mid Ch								
2.593	15.5	V	1.16	9.63	23.94	33.0	-9.1	
2.593	14.9	H	1.16	9.69	23.45	33.0	-9.5	
Rev. 2.12.15								

Band LTE12 10MHz QPSK	High Frequency Substitution Measurement UL Fremont Radiated Chamber F																																												
	<p> Company: LG Project #: 15119834 Date: 2/12/2015 Test Engineer: R.Z Configuration: EUT w/ HS+AC Mode: LTE Band 12 QPSK 10MHz BW </p> <p> Test Equipment: Receiving: Sunol T122, and Chamber F Cable Substitution: Dipole S/N: 00022117, 4ft SMA Cable (s/n 245182-003; SUCOFLEX 104PEA) </p> <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 (dBd)</th> <th>ERP (dBm)</th> <th>EIRP (dBm)</th> <th>ERP Limit (dBm)</th> <th>EIRP Limit (dBm)</th> <th>Margin (dB)</th> <th>Notes</th> </tr> </thead> <tbody> <tr> <td>Mid Ch</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>707.50</td> <td>12.68</td> <td>V</td> <td>0.55</td> <td>0.0</td> <td>12.13</td> <td>14.28</td> <td>34.77</td> <td>36.99</td> <td>-22.7</td> <td></td> </tr> <tr> <td>707.50</td> <td>16.91</td> <td>H</td> <td>0.55</td> <td>0.0</td> <td>16.36</td> <td>18.51</td> <td>34.77</td> <td>36.99</td> <td>-18.5</td> <td></td> </tr> </tbody> </table> <p>Rev. 2.12.15</p>	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	EIRP (dBm)	ERP Limit (dBm)	EIRP Limit (dBm)	Margin (dB)	Notes	Mid Ch											707.50	12.68	V	0.55	0.0	12.13	14.28	34.77	36.99	-22.7		707.50	16.91	H	0.55	0.0	16.36	18.51	34.77	36.99	-18.5	
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	EIRP (dBm)	ERP Limit (dBm)	EIRP Limit (dBm)	Margin (dB)	Notes																																			
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707.50	16.91	H	0.55	0.0	16.36	18.51	34.77	36.99	-18.5																																				

Band LTE12 10MHz 16QAM	High Frequency Substitution Measurement UL Fremont Radiated Chamber E																																												
	<p> Company: LG Project #: 15I19834 Date: 2/12/2015 Test Engineer: R.Z Configuration: EUT w/ HS+AC Mode: LTE Band 12 16QAM 10MHz BW </p> <p> Test Equipment: Receiving: Sunol T122, and Chamber F Cable Substitution: Dipole S/N: 00022117, 4ft SMA Cable (s/n 245182-003; SUCOFLEX 104PEA) </p> <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 (dBd)</th> <th>ERP (dBm)</th> <th>EIRP (dBm)</th> <th>ERP Limit (dBm)</th> <th>EIRP Limit (dBm)</th> <th>Margin (dB)</th> <th>Notes</th> </tr> </thead> <tbody> <tr> <td>Mid Ch</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>707.50</td> <td>10.06</td> <td>V</td> <td>0.55</td> <td>0.0</td> <td>9.51</td> <td>11.66</td> <td>34.77</td> <td>36.99</td> <td>-25.3</td> <td></td> </tr> <tr> <td>707.50</td> <td>12.58</td> <td>H</td> <td>0.55</td> <td>0.0</td> <td>12.03</td> <td>14.18</td> <td>34.77</td> <td>36.99</td> <td>-22.8</td> <td></td> </tr> </tbody> </table> <p>Rev. 2.12.15</p>	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	EIRP (dBm)	ERP Limit (dBm)	EIRP Limit (dBm)	Margin (dB)	Notes	Mid Ch											707.50	10.06	V	0.55	0.0	9.51	11.66	34.77	36.99	-25.3		707.50	12.58	H	0.55	0.0	12.03	14.18	34.77	36.99	-22.8	
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	EIRP (dBm)	ERP Limit (dBm)	EIRP Limit (dBm)	Margin (dB)	Notes																																			
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707.50	10.06	V	0.55	0.0	9.51	11.66	34.77	36.99	-25.3																																				
707.50	12.58	H	0.55	0.0	12.03	14.18	34.77	36.99	-22.8																																				

Band LTE5 10MHz QPSK	High Frequency Substitution Measurement UL Fremont Radiated Chamber F										
	Company: LG										
	Project #: 15I19834										
	Date: 2/12/2015										
	Test Engineer: R.Z										
	Configuration: EUT w/ HS+AC										
	Mode: LTE Band 5 QPSK 10MHz BW										
	Test Equipment:										
	Receiving: Sunol T122, and Chamber F Cable										
	Substitution: Dipole S/N: 00022117, 4ft SMA Cable (s/n 245182-003; SUCOFLEX 104PEA)										
f	SG reading	Ant. Pol.	Cable Loss	Antenna Gain	ERP	EIRP	ERP Limit	EIRP Limit	Margin	Notes	
MHz	(dBm)	(H/V)	(dB)	(dBd)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)		
Mid Ch											
836.50	18.11	V	0.6	0.0	17.49	19.64	38.45	40.60	-21.0		
836.50	17.40	H	0.6	0.0	16.78	18.93	38.45	40.60	-21.7		
Rev. 2.12.15											

Band LTE5 10MHz 16QAM	High Frequency Substitution Measurement UL Fremont Radiated Chamber F																																												
	Company: LG Project #: 15119834 Date: 2/12/2015 Test Engineer: R.Z Configuration: EUT w/ HS+AC Mode: LTE Band 5 16QAM 10MHz BW																																												
	Test Equipment: Receiving: Sunol T122, and Chamber F Cable Substitution: Dipole S/N: 00022117, 4ft SMA Cable (s/n 245182-003; SUCOFLEX 104PEA)																																												
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f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	EIRP (dBm)	ERP Limit (dBm)	EIRP Limit (dBm)	Margin (dB)	Notes																																			
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	Rev. 2.12.15																																												

Band LTE4 10MHz QPSK	High Frequency Substitution Measurement UL Fremont Radiated Chamber F																																				
Company: LG Project #: 15I19834 Date: 2/12/2015 Test Engineer: R.Z Configuration: EUT w/ HS+AC Mode: LTE Band 4 QPSK 10MHz BW																																					
Test Equipment: Receiving: Horn T120, and Chamber F SMA Cables Substitution: Horn T59 Substitution, 4ft SMA Cable (s/n 245182-003; SUCOFLEX 104PEA)																																					
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Rev. 2.12.15																																					

Band LTE4 10MHz 16QAM	High Frequency Substitution Measurement UL Fremont Radiated Chamber F							
Company: LG Project #: 15I19834 Date: 2/12/2015 Test Engineer: R.Z Configuration: EUT w/ HS+AC Mode: LTE Band 4 16QAM 10MHz BW								
Test Equipment: Receiving: Horn T120, and Chamber F SMA Cables Substitution: Horn T59 Substitution, 4ft SMA Cable (s/n 245182-003; SUCOFLEX 104PEA)								
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin EIRP (dB)	Notes
Mid Ch								
1.733	8.9	V	0.95	8.50	16.49	30.0	-13.5	
1.733	17.3	H	0.95	8.70	25.05	30.0	-5.0	
Rev. 2.12.15								

Band LTE2 10MHz QPSK	High Frequency Substitution Measurement UL Fremont Radiated Chamber F																																				
Company: LG Project #: 15I19834 Date: 2/12/2015 Test Engineer: R.Z Configuration: EUT w/ HS+AC Mode: LTE Band 2 QPSK 10MHz BW																																					
Test Equipment: Receiving: Horn T120, and Chamber F SMA Cables Substitution: Horn T59 Substitution, 4ft SMA Cable (s/n 245182-003; SUCOFLEX 104PEA)																																					
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	<p> Company: LG Project #: 15119834 Date: 2/12/2015 Test Engineer: R.Z Configuration: EUT w/ HS+AC Mode: LTE Band 2 16QAM 10MHz BW </p> <p> Test Equipment: Receiving: Horn T120, and Chamber F SMA Cables Substitution: Horn T59 Substitution, 4ft SMA Cable (s/n 245182-003; SUCOFLEX 104PEA) </p> <table border="1"> <thead> <tr> <th>f GHz</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>Margin EIRP (dB)</th> <th>Notes</th> </tr> </thead> <tbody> <tr> <td>Mid Ch</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>1.880</td> <td>10.3</td> <td>V</td> <td>0.98</td> <td>8.53</td> <td>17.83</td> <td>33.0</td> <td>-15.2</td> <td></td> </tr> <tr> <td>1.880</td> <td>16.9</td> <td>H</td> <td>0.98</td> <td>8.68</td> <td>24.60</td> <td>33.0</td> <td>-8.4</td> <td></td> </tr> </tbody> </table> <p>Rev. 2.12.15</p>	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin EIRP (dB)	Notes	Mid Ch									1.880	10.3	V	0.98	8.53	17.83	33.0	-15.2		1.880	16.9	H	0.98	8.68	24.60	33.0	-8.4	
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12.3. FIELD STRENGTH OF SPURIOUS RADIATION

RULE PART(S)

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

LIMIT

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

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

TEST PROCEDURE

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

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

MODES TESTED

CDMA and LTE

RESULTS

12.3.1. SPURIOUS RADIATION PLOTS

CDMA

UL Verification Services Chamber B Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15119834							
Date:		01/30/15							
Test Engineer:		K. Kedida							
Configuration:		EUT w/ AC Adapter + HS, X-position							
Mode:		EVDO BC1							
Chamber		Pre-amplifier		Filter		Limit			
5m Chamber B		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
Band									
BC1									
EVDO									
Low Ch, 1851.25 MHz									
3.703	-14.9	H	3.0	35.4	1.0	-49.3	-13.0	-36.3	
5.554	1.9	H	3.0	34.7	1.0	-31.8	-13.0	-18.8	
7.405	-8.4	H	3.0	34.9	1.0	-42.3	-13.0	-29.3	
3.703	-15.0	V	3.0	35.4	1.0	-49.4	-13.0	-36.4	
5.554	-2.1	V	3.0	34.7	1.0	-35.8	-13.0	-22.8	
7.405	-8.5	V	3.0	34.9	1.0	-42.4	-13.0	-29.4	
Mid Ch, 1880 MHz									
3.760	-15.3	H	3.0	35.3	1.0	-49.7	-13.0	-36.7	
5.640	0.8	H	3.0	34.7	1.0	-32.9	-13.0	-19.9	
7.520	-8.1	H	3.0	34.9	1.0	-42.1	-13.0	-29.1	
3.760	-15.7	V	3.0	35.3	1.0	-50.0	-13.0	-37.0	
5.640	-2.4	V	3.0	34.7	1.0	-36.1	-13.0	-23.1	
7.520	-9.0	V	3.0	34.9	1.0	-42.9	-13.0	-29.9	
High Ch, 1908.75 MHz									
3.818	-15.2	H	3.0	35.3	1.0	-49.5	-13.0	-36.5	
5.726	-0.3	H	3.0	34.7	1.0	-34.1	-13.0	-21.1	
7.635	-8.1	H	3.0	34.9	1.0	-42.0	-13.0	-29.0	
3.818	-15.1	V	3.0	35.3	1.0	-49.4	-13.0	-36.4	
5.726	-2.0	V	3.0	34.7	1.0	-35.7	-13.0	-22.7	
7.635	-7.2	V	3.0	34.9	1.0	-41.1	-13.0	-28.1	
Rev. 03.03.09									
Note: No other emissions were detected above the system noise floor.									

UL Verification Services Chamber B Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15119834							
Date:		02/02/15							
Test Engineer:		K. Kedida							
Configuration:		EUT w/ AC Adapter + HS, X-position							
Mode:		RTT BC1 HARM							
Chamber		Pre-amplifier			Filter		Limit		
5m Chamber B		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
Band									
BC1									
1xRTT									
Low Ch, 1851.25 MHz									
3.703	-13.9	H	3.0	35.4	1.0	-48.3	-13.0	-35.3	
5.554	-0.2	H	3.0	34.7	1.0	-34.0	-13.0	-21.0	
7.405	-8.3	H	3.0	34.9	1.0	-42.2	-13.0	-29.2	
3.703	-14.5	V	3.0	35.4	1.0	-48.9	-13.0	-35.9	
5.554	-1.2	V	3.0	34.7	1.0	-34.9	-13.0	-21.9	
7.405	-8.6	V	3.0	34.9	1.0	-42.5	-13.0	-29.5	
Mid Ch, 1880 MHz									
3.760	-15.3	H	3.0	35.3	1.0	-49.6	-13.0	-36.6	
5.640	0.3	H	3.0	34.7	1.0	-33.4	-13.0	-20.4	
7.520	-9.0	H	3.0	34.9	1.0	-43.0	-13.0	-30.0	
3.760	-14.6	V	3.0	35.3	1.0	-49.0	-13.0	-36.0	
5.640	-1.8	V	3.0	34.7	1.0	-35.5	-13.0	-22.5	
7.520	-10.8	V	3.0	34.9	1.0	-44.8	-13.0	-31.8	
High Ch, 1908.75 MHz									
3.818	-15.8	H	3.0	35.3	1.0	-50.1	-13.0	-37.1	
5.726	-0.2	H	3.0	34.7	1.0	-33.9	-13.0	-20.9	
7.635	-10.7	H	3.0	34.9	1.0	-44.7	-13.0	-31.7	
3.818	-15.4	V	3.0	35.3	1.0	-49.7	-13.0	-36.7	
5.726	-1.6	V	3.0	34.7	1.0	-35.3	-13.0	-22.3	
7.635	-11.7	V	3.0	34.9	1.0	-45.7	-13.0	-32.7	
Rev. 03.03.09									
Note: No other emissions were detected above the system noise floor.									

UL Verification Services Chamber B Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15119834							
Date:		01/30/15							
Test Engineer:		K.Kedida							
Configuration:		EUT w/ AC Adapter + HS, X-position							
Mode:		EVDO BC0							
Chamber		Pre-amplifier			Filter		Limit		
5m Chamber B		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
Band									
BC0									
EVDO									
Low Ch, 824.7MHz									
1.649	-24.7	H	3.0	37.4	1.0	-61.0	-13.0	-48.0	
2.474	-8.4	H	3.0	36.4	1.0	-43.8	-13.0	-30.8	
3.299	-19.9	H	3.0	35.8	1.0	-54.7	-13.0	-41.7	
1.649	-20.2	V	3.0	37.4	1.0	-56.6	-13.0	-43.6	
2.474	-6.9	V	3.0	36.4	1.0	-42.3	-13.0	-29.3	
3.299	-19.1	V	3.0	35.8	1.0	-53.9	-13.0	-40.9	
Mid Ch, 836.52MHz									
1.673	-24.0	H	3.0	37.3	1.0	-60.4	-13.0	-47.4	
2.510	-6.5	H	3.0	36.4	1.0	-41.9	-13.0	-28.9	
3.346	-19.5	H	3.0	35.8	1.0	-54.3	-13.0	-41.3	
1.673	-21.2	V	3.0	37.3	1.0	-57.6	-13.0	-44.6	
2.510	-5.9	V	3.0	36.4	1.0	-41.2	-13.0	-28.2	
3.346	-18.3	V	3.0	35.8	1.0	-53.1	-13.0	-40.1	
High Ch, 848.31MHz									
1.697	-24.5	H	3.0	37.3	1.0	-60.8	-13.0	-47.8	
2.545	-7.3	H	3.0	36.3	1.0	-42.6	-13.0	-29.6	
3.393	-19.3	H	3.0	35.7	1.0	-54.0	-13.0	-41.0	
1.697	-20.8	V	3.0	37.3	1.0	-57.1	-13.0	-44.1	
2.545	-4.4	V	3.0	36.3	1.0	-39.7	-13.0	-26.7	
3.393	-19.5	V	3.0	35.7	1.0	-54.2	-13.0	-41.2	
Rev. 03.03.09									
Note: No other emissions were detected above the system noise floor.									

UL Verification Services Chamber B Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15119834								
Date:		02/20/15								
Test Engineer:		K.Kedida								
Configuration:		EUT w/ AC Adapter + HS, X-position								
Mode:		RTT BC0								
Chamber		Pre-amplifier			Filter		Limit			
5m Chamber B		T34 8449B			Filter 1		Part 22			
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
BC0 1xRTT	Low Ch, 824.7MHz									
	1.649	-23.7	H	3.0	37.4	1.0	-60.0	-13.0	-47.0	
	2.474	-12.8	H	3.0	36.4	1.0	-48.2	-13.0	-35.2	
	3.299	-18.5	H	3.0	35.8	1.0	-53.3	-13.0	-40.3	
	1.649	-23.5	V	3.0	37.4	1.0	-59.8	-13.0	-46.8	
	2.474	-9.6	V	3.0	36.4	1.0	-45.0	-13.0	-32.0	
	3.299	-18.4	V	3.0	35.8	1.0	-53.2	-13.0	-40.2	
	Mid Ch, 836.52MHz									
	1.673	-24.6	H	3.0	37.3	1.0	-60.9	-13.0	-47.9	
	2.510	-10.6	H	3.0	36.4	1.0	-46.0	-13.0	-33.0	
	3.346	-19.7	H	3.0	35.8	1.0	-54.5	-13.0	-41.5	
	1.673	-22.8	V	3.0	37.3	1.0	-59.1	-13.0	-46.1	
2.510	-7.7	V	3.0	36.4	1.0	-43.1	-13.0	-30.1		
3.346	-18.9	V	3.0	35.8	1.0	-53.7	-13.0	-40.7		
High Ch, 848.31MHz										
1.697	-20.5	H	3.0	37.3	1.0	-56.8	-13.0	-43.8		
2.545	-11.1	H	3.0	36.3	1.0	-46.5	-13.0	-33.5		
3.393	-18.8	H	3.0	35.7	1.0	-53.5	-13.0	-40.5		
1.697	-23.8	V	3.0	37.3	1.0	-60.1	-13.0	-47.1		
2.545	-17.7	V	3.0	36.3	1.0	-53.0	-13.0	-40.0		
3.393	-17.7	V	3.0	35.7	1.0	-52.5	-13.0	-39.5		
Rev. 03.03.09										
Note: No other emissions were detected above the system noise floor.										

UL Verification Services Chamber B Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I19834							
Date:		01/30/15							
Test Engineer:		K.Kedida							
Configuration:		EUT w/ AC Adapter + HS, X-position							
Mode:		EVDO BC10							
Chamber		Pre-amplifier			Filter		Limit		
5m Chamber B		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
Band									
BC10									
EVDO									
Low Ch, 824.7MHz									
1.649	-23.1	H	3.0	37.4	1.0	-59.4	-13.0	-46.4	
2.474	-7.3	H	3.0	36.4	1.0	-42.7	-13.0	-29.7	
3.299	-18.5	H	3.0	35.8	1.0	-53.3	-13.0	-40.3	
1.649	-19.4	V	3.0	37.4	1.0	-55.8	-13.0	-42.8	
2.474	-7.9	V	3.0	36.4	1.0	-43.3	-13.0	-30.3	
3.299	-18.2	V	3.0	35.8	1.0	-53.0	-13.0	-40.0	
Mid Ch, 836.52MHz									
1.673	-22.7	H	3.0	37.3	1.0	-59.0	-13.0	-46.0	
2.510	-7.7	H	3.0	36.4	1.0	-43.0	-13.0	-30.0	
3.346	-18.2	H	3.0	35.8	1.0	-53.0	-13.0	-40.0	
1.673	-22.6	V	3.0	37.3	1.0	-58.9	-13.0	-45.9	
2.510	-7.3	V	3.0	36.4	1.0	-42.6	-13.0	-29.6	
3.346	-18.4	V	3.0	35.8	1.0	-53.1	-13.0	-40.1	
High Ch, 848.31MHz									
1.697	-23.6	H	3.0	37.3	1.0	-59.9	-13.0	-46.9	
2.545	-8.1	H	3.0	36.3	1.0	-43.4	-13.0	-30.4	
3.393	-18.1	H	3.0	35.7	1.0	-52.8	-13.0	-39.8	
1.697	-22.7	V	3.0	37.3	1.0	-59.0	-13.0	-46.0	
2.545	-6.3	V	3.0	36.3	1.0	-41.6	-13.0	-28.6	
3.393	-17.8	V	3.0	35.7	1.0	-52.5	-13.0	-39.5	
Rev. 03.03.09									
Note: No other emissions were detected above the system noise floor.									

UL Verification Services Chamber B Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15119834							
Date:		02/02/15							
Test Engineer:		K.Kedida							
Configuration:		EUT w/ AC Adapter + HS, X-position							
Mode:		RTT BC10							
Chamber		Pre-amplifier			Filter		Limit		
5m Chamber B		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
Band									
BC10									
1xRTT									
Low Ch, 824.7MHz									
1.649	-24.0	H	3.0	37.4	1.0	-60.4	-13.0	-47.4	
2.474	-11.9	H	3.0	36.4	1.0	-47.3	-13.0	-34.3	
3.299	-19.3	H	3.0	35.8	1.0	-54.1	-13.0	-41.1	
1.649	-22.9	V	3.0	37.4	1.0	-59.2	-13.0	-46.2	
2.474	-9.1	V	3.0	36.4	1.0	-44.5	-13.0	-31.5	
3.299	-19.1	V	3.0	35.8	1.0	-53.9	-13.0	-40.9	
Mid Ch, 836.52MHz									
1.673	-24.0	H	3.0	37.3	1.0	-60.3	-13.0	-47.3	
2.510	-10.3	H	3.0	36.4	1.0	-45.7	-13.0	-32.7	
3.346	-19.4	H	3.0	35.8	1.0	-54.1	-13.0	-41.1	
1.673	-23.4	V	3.0	37.3	1.0	-59.8	-13.0	-46.8	
2.510	-10.5	V	3.0	36.4	1.0	-45.8	-13.0	-32.8	
3.346	-19.1	V	3.0	35.8	1.0	-53.8	-13.0	-40.8	
High Ch, 848.31MHz									
1.697	-24.7	H	3.0	37.3	1.0	-61.0	-13.0	-48.0	
2.545	-11.1	H	3.0	36.3	1.0	-46.5	-13.0	-33.5	
3.393	-18.9	H	3.0	35.7	1.0	-53.6	-13.0	-40.6	
1.697	-22.8	V	3.0	37.3	1.0	-59.1	-13.0	-46.1	
2.545	-9.5	V	3.0	36.3	1.0	-44.9	-13.0	-31.9	
3.393	-19.1	V	3.0	35.7	1.0	-53.8	-13.0	-40.8	
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 #:		15119834							
Date:		1/29/2015							
Test Engineer:		D. Sblendorio							
Configuration:		EUT/ AC Charger/ 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									
Band	3720.00	-11.0	V	3.0	35.8	1.0	-45.8	-13.0	-32.8
	5580.00	-7.4	V	3.0	35.5	1.0	-41.9	-13.0	-28.9
LTE2	7440.00	-1.4	V	3.0	35.7	1.0	-36.2	-13.0	-23.2
	3720.00	-10.8	H	3.0	35.8	1.0	-45.6	-13.0	-32.6
	5580.00	-6.5	H	3.0	35.5	1.0	-41.0	-13.0	-28.0
20MHz	7440.00	-0.5	H	3.0	35.7	1.0	-35.2	-13.0	-22.2
Mid Ch, 1880									
16QAM	3760.00	-9.9	V	3.0	35.8	1.0	-44.7	-13.0	-31.7
	5640.00	-7.1	V	3.0	35.5	1.0	-41.5	-13.0	-28.5
	7520.00	-2.5	V	3.0	35.7	1.0	-37.2	-13.0	-24.2
	3760.00	-10.5	H	3.0	35.8	1.0	-45.3	-13.0	-32.3
	5640.00	-5.1	H	3.0	35.5	1.0	-39.6	-13.0	-26.6
	7520.00	-1.8	H	3.0	35.7	1.0	-36.5	-13.0	-23.5
High Ch, 1900									
	3800.00	-9.7	V	3.0	35.8	1.0	-44.5	-13.0	-31.5
	5700.00	-6.9	V	3.0	35.5	1.0	-41.4	-13.0	-28.4
	7600.00	-0.8	V	3.0	35.8	1.0	-35.5	-13.0	-22.5
	3800.00	-10.4	H	3.0	35.8	1.0	-45.2	-13.0	-32.2
	5700.00	-6.6	H	3.0	35.5	1.0	-41.1	-13.0	-28.1
	7600.00	-0.9	H	3.0	35.8	1.0	-35.6	-13.0	-22.6

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15119834							
Date:		1/29/2015							
Test Engineer:		D. Sblendorio							
Configuration:		EUT/ AC Charger/ Headset							
Location:		Chamber C							
Mode:		LTE_QPSK Band 2 Harmonics, 20MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1860									
Band	3720.00	-9.7	V	3.0	35.8	1.0	-44.5	-13.0	-31.5
	5580.00	-6.7	V	3.0	35.5	1.0	-41.2	-13.0	-28.2
LTE2	7440.00	-1.6	V	3.0	35.7	1.0	-36.3	-13.0	-23.3
	3720.00	-9.7	H	3.0	35.8	1.0	-44.6	-13.0	-31.6
	5580.00	-5.7	H	3.0	35.5	1.0	-40.2	-13.0	-27.2
20MHz	7440.00	-1.3	H	3.0	35.7	1.0	-36.0	-13.0	-23.0
Mid Ch, 1880									
QPSK	3760.00	-9.6	V	3.0	35.8	1.0	-44.4	-13.0	-31.4
	5640.00	-7.5	V	3.0	35.5	1.0	-42.0	-13.0	-29.0
	7520.00	-2.2	V	3.0	35.7	1.0	-36.9	-13.0	-23.9
	3760.00	-10.4	H	3.0	35.8	1.0	-45.2	-13.0	-32.2
	5640.00	-5.3	H	3.0	35.5	1.0	-39.8	-13.0	-26.8
	7520.00	-0.8	H	3.0	35.7	1.0	-35.6	-13.0	-22.6
High Ch, 1900									
	3800.00	-9.5	V	3.0	35.8	1.0	-44.3	-13.0	-31.3
	5700.00	-7.1	V	3.0	35.5	1.0	-41.6	-13.0	-28.6
	7600.00	-1.1	V	3.0	35.8	1.0	-35.9	-13.0	-22.9
	3800.00	-10.4	H	3.0	35.8	1.0	-45.1	-13.0	-32.1
	5700.00	-6.2	H	3.0	35.5	1.0	-40.7	-13.0	-27.7
	7600.00	-0.7	H	3.0	35.8	1.0	-35.4	-13.0	-22.4

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I19834							
Date:		1/29/2015							
Test Engineer:		D. Sblendorio							
Configuration:		EUT/ AC Charger/ Headset							
Location:		Chamber C							
Mode:		LTE_16QAM Band 2 Harmonics, 15MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band									
Low Ch, 1857.5									
3715.00	-10.1	V	3.0	35.8	1.0	-44.9	-13.0	-31.9	
5572.50	-7.1	V	3.0	35.5	1.0	-41.6	-13.0	-28.6	
LTE2									
7430.00	-2.0	V	3.0	35.7	1.0	-36.7	-13.0	-23.7	
3715.00	-11.4	H	3.0	35.8	1.0	-46.2	-13.0	-33.2	
5572.50	-7.3	H	3.0	35.5	1.0	-41.8	-13.0	-28.8	
15MHz									
7430.00	-0.9	H	3.0	35.7	1.0	-35.6	-13.0	-22.6	
Mid Ch, 1880									
3760.00	-10.4	V	3.0	35.8	1.0	-45.2	-13.0	-32.2	
16QAM									
5640.00	-7.3	V	3.0	35.5	1.0	-41.8	-13.0	-28.8	
7520.00	-2.2	V	3.0	35.7	1.0	-37.0	-13.0	-24.0	
3760.00	-9.5	H	3.0	35.8	1.0	-44.3	-13.0	-31.3	
5640.00	-6.5	H	3.0	35.5	1.0	-41.0	-13.0	-28.0	
7520.00	-1.8	H	3.0	35.7	1.0	-36.5	-13.0	-23.5	
High Ch, 1902.5									
3805.00	-10.2	V	3.0	35.8	1.0	-45.0	-13.0	-32.0	
5707.50	-6.5	V	3.0	35.5	1.0	-41.0	-13.0	-28.0	
7610.00	-1.2	V	3.0	35.8	1.0	-36.0	-13.0	-23.0	
3805.00	-9.4	H	3.0	35.8	1.0	-44.2	-13.0	-31.2	
5707.50	-6.1	H	3.0	35.5	1.0	-40.6	-13.0	-27.6	
7610.00	-0.2	H	3.0	35.8	1.0	-35.0	-13.0	-22.0	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15119834							
Date:		1/29/2015							
Test Engineer:		D. Sblendorio							
Configuration:		EUT/ AC Charger/ Headset							
Location:		Chamber C							
Mode:		LTE_QPSK Band 2 Harmonics, 15MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band									
Low Ch, 1857.5									
3715.00	-10.2	V	3.0	35.8	1.0	-45.1	-13.0	-32.1	
5572.50	-7.2	V	3.0	35.5	1.0	-41.6	-13.0	-28.6	
LTE2									
7430.00	-1.7	V	3.0	35.7	1.0	-36.5	-13.0	-23.5	
3715.00	-9.0	H	3.0	35.8	1.0	-43.9	-13.0	-30.9	
5572.50	-7.6	H	3.0	35.5	1.0	-42.0	-13.0	-29.0	
15MHz									
7430.00	-0.6	H	3.0	35.7	1.0	-35.3	-13.0	-22.3	
QPSK									
Mid Ch, 1880									
3760.00	-9.6	V	3.0	35.8	1.0	-44.5	-13.0	-31.5	
5640.00	-7.6	V	3.0	35.5	1.0	-42.1	-13.0	-29.1	
7520.00	-2.3	V	3.0	35.7	1.0	-37.0	-13.0	-24.0	
3760.00	-10.5	H	3.0	35.8	1.0	-45.3	-13.0	-32.3	
5640.00	-6.9	H	3.0	35.5	1.0	-41.3	-13.0	-28.3	
7520.00	-1.0	H	3.0	35.7	1.0	-35.8	-13.0	-22.8	
High Ch, 1902.5									
3805.00	-10.0	V	3.0	35.8	1.0	-44.8	-13.0	-31.8	
5707.50	-7.1	V	3.0	35.5	1.0	-41.6	-13.0	-28.6	
7610.00	-1.3	V	3.0	35.8	1.0	-36.1	-13.0	-23.1	
3805.00	-9.5	H	3.0	35.8	1.0	-44.3	-13.0	-31.3	
5707.50	-5.9	H	3.0	35.5	1.0	-40.4	-13.0	-27.4	
7610.00	-0.1	H	3.0	35.8	1.0	-34.9	-13.0	-21.9	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15119834								
Date:		1/29/2015								
Test Engineer:		D. Sblendorio								
Configuration:		EUT/ AC Charger/ Headset								
Location:		Chamber C								
Mode:		LTE_16QAM Band 2 Harmonics, 10MHz Bandwidth								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band	Low Ch, 1855									
	3710.00	-10.7	V	3.0	35.9	1.0	-45.5	-13.0	-32.5	
LTE2	5565.00	-7.3	V	3.0	35.5	1.0	-41.8	-13.0	-28.8	
	7420.00	-2.2	V	3.0	35.7	1.0	-36.9	-13.0	-23.9	
10MHz	3710.00	-10.0	H	3.0	35.9	1.0	-44.9	-13.0	-31.9	
	5565.00	-6.6	H	3.0	35.5	1.0	-41.1	-13.0	-28.1	
16QAM	7420.00	-1.2	H	3.0	35.7	1.0	-35.9	-13.0	-22.9	
	Mid Ch, 1880									
	3760.00	-9.6	V	3.0	35.8	1.0	-44.4	-13.0	-31.4	
	5640.00	-7.1	V	3.0	35.5	1.0	-41.6	-13.0	-28.6	
	7520.00	-2.2	V	3.0	35.7	1.0	-37.0	-13.0	-24.0	
	3760.00	-11.3	H	3.0	35.8	1.0	-46.2	-13.0	-33.2	
	5640.00	-6.9	H	3.0	35.5	1.0	-41.4	-13.0	-28.4	
	7520.00	-1.2	H	3.0	35.7	1.0	-36.0	-13.0	-23.0	
	High Ch, 1905									
	3810.00	-11.1	V	3.0	35.8	1.0	-45.9	-13.0	-32.9	
	5715.00	-6.4	V	3.0	35.5	1.0	-40.9	-13.0	-27.9	
	7620.00	-1.3	V	3.0	35.8	1.0	-36.1	-13.0	-23.1	
	3810.00	-10.3	H	3.0	35.8	1.0	-45.0	-13.0	-32.0	
	5715.00	-6.1	H	3.0	35.5	1.0	-40.6	-13.0	-27.6	
	7620.00	0.0	H	3.0	35.8	1.0	-34.7	-13.0	-21.7	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement												
Company:		LG Electronics										
Project #:		15119834										
Date:		1/29/2015										
Test Engineer:		D. Sblendorio										
Configuration:		EUT/ AC Charger/ 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	Low Ch, 1855											
		3710.00	-10.3	V	3.0	35.9	1.0	-45.2	-13.0	-32.2		
		5565.00	-7.5	V	3.0	35.5	1.0	-42.0	-13.0	-29.0		
	LTE2		7420.00	-0.8	V	3.0	35.7	1.0	-35.5	-13.0	-22.5	
			3710.00	-10.8	H	3.0	35.9	1.0	-45.6	-13.0	-32.6	
	10MHz		5565.00	-6.9	H	3.0	35.5	1.0	-41.4	-13.0	-28.4	
		7420.00	-1.5	H	3.0	35.7	1.0	-36.2	-13.0	-23.2		
QPSK	Mid Ch, 1880											
		3760.00	-10.1	V	3.0	35.8	1.0	-44.9	-13.0	-31.9		
		5640.00	-6.8	V	3.0	35.5	1.0	-41.3	-13.0	-28.3		
		7520.00	-2.5	V	3.0	35.7	1.0	-37.3	-13.0	-24.3		
		3760.00	-10.7	H	3.0	35.8	1.0	-45.5	-13.0	-32.5		
		5640.00	-7.1	H	3.0	35.5	1.0	-41.6	-13.0	-28.6		
	7520.00	-1.5	H	3.0	35.7	1.0	-36.3	-13.0	-23.3			
	High Ch, 1905											
	3810.00	-9.8	V	3.0	35.8	1.0	-44.6	-13.0	-31.6			
	5715.00	-6.7	V	3.0	35.5	1.0	-41.2	-13.0	-28.2			
	7620.00	-1.7	V	3.0	35.8	1.0	-36.5	-13.0	-23.5			
	3810.00	-9.6	H	3.0	35.8	1.0	-44.4	-13.0	-31.4			
	5715.00	-5.7	H	3.0	35.5	1.0	-40.2	-13.0	-27.2			
	7620.00	-1.1	H	3.0	35.8	1.0	-35.8	-13.0	-22.8			

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I19834								
Date:		1/29/2015								
Test Engineer:		D. Sblendorio								
Configuration:		EUT/ AC Charger/ Headset								
Location:		Chamber C								
Mode:		LTE_16QAM Band 2 Harmonics, 5MHz Bandwidth								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band	Low Ch, 1852.5									
	3705.00	-9.9	V	3.0	35.9	1.0	-44.7	-13.0	-31.7	
LTE2	5557.50	-7.3	V	3.0	35.5	1.0	-41.8	-13.0	-28.8	
	7410.00	-1.6	V	3.0	35.7	1.0	-36.4	-13.0	-23.4	
5MHz	3705.00	-10.6	H	3.0	35.9	1.0	-45.4	-13.0	-32.4	
	5557.50	-6.9	H	3.0	35.5	1.0	-41.4	-13.0	-28.4	
16QAM	7410.00	-1.2	H	3.0	35.7	1.0	-36.0	-13.0	-23.0	
	Mid Ch, 1880									
	3760.00	-10.5	V	3.0	35.8	1.0	-45.3	-13.0	-32.3	
	5640.00	-7.0	V	3.0	35.5	1.0	-41.5	-13.0	-28.5	
	7520.00	-1.8	V	3.0	35.7	1.0	-36.6	-13.0	-23.6	
	3760.00	-9.5	H	3.0	35.8	1.0	-44.3	-13.0	-31.3	
	5640.00	-6.7	H	3.0	35.5	1.0	-41.2	-13.0	-28.2	
	7520.00	-1.1	H	3.0	35.7	1.0	-35.8	-13.0	-22.8	
	High Ch, 1907.5									
	3815.00	-9.8	V	3.0	35.8	1.0	-44.6	-13.0	-31.6	
5722.50	-6.5	V	3.0	35.5	1.0	-41.0	-13.0	-28.0		
7630.00	-1.6	V	3.0	35.8	1.0	-36.4	-13.0	-23.4		
3815.00	-9.9	H	3.0	35.8	1.0	-44.7	-13.0	-31.7		
5722.50	-6.0	H	3.0	35.5	1.0	-40.5	-13.0	-27.5		
7630.00	-0.7	H	3.0	35.8	1.0	-35.5	-13.0	-22.5		

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15119834								
Date:		1/29/2015								
Test Engineer:		D. Sblendorio								
Configuration:		EUT/ AC Charger/ 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	Low Ch, 1852.5									
	3705.00	-10.4	V	3.0	35.9	1.0	-45.2	-13.0	-32.2	
LTE2	5557.50	-7.4	V	3.0	35.5	1.0	-41.9	-13.0	-28.9	
	7410.00	-1.9	V	3.0	35.7	1.0	-36.6	-13.0	-23.6	
5MHz	3705.00	-9.6	H	3.0	35.9	1.0	-44.5	-13.0	-31.5	
	5557.50	-6.2	H	3.0	35.5	1.0	-40.6	-13.0	-27.6	
QPSK	7410.00	0.3	H	3.0	35.7	1.0	-34.4	-13.0	-21.4	
	Mid Ch, 1880									
	3760.00	-9.8	V	3.0	35.8	1.0	-44.6	-13.0	-31.6	
	5640.00	-5.7	V	3.0	35.5	1.0	-40.2	-13.0	-27.2	
	7520.00	-2.2	V	3.0	35.7	1.0	-36.9	-13.0	-23.9	
	3760.00	-10.9	H	3.0	35.8	1.0	-45.7	-13.0	-32.7	
	5640.00	-5.3	H	3.0	35.5	1.0	-39.8	-13.0	-26.8	
	7520.00	-0.8	H	3.0	35.7	1.0	-35.5	-13.0	-22.5	
	High Ch, 1907.5									
	3815.00	-9.9	V	3.0	35.8	1.0	-44.6	-13.0	-31.6	
	5722.50	-6.7	V	3.0	35.5	1.0	-41.2	-13.0	-28.2	
	7630.00	-1.3	V	3.0	35.8	1.0	-36.0	-13.0	-23.0	
	3815.00	-10.5	H	3.0	35.8	1.0	-45.2	-13.0	-32.2	
	5722.50	-6.3	H	3.0	35.5	1.0	-40.8	-13.0	-27.8	
	7630.00	-0.4	H	3.0	35.8	1.0	-35.2	-13.0	-22.2	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15119834							
Date:		1/29/2015							
Test Engineer:		D. Sblendorio							
Configuration:		EUT/ AC Charger/ 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									
Low Ch, 1851.5									
3703.00	-12.0	V	3.0	35.9	1.0	-46.9	-13.0	-33.9	
5554.50	-10.4	V	3.0	35.5	1.0	-44.9	-13.0	-31.9	
LTE2									
7406.00	-5.4	V	3.0	35.7	1.0	-40.1	-13.0	-27.1	
3703.00	-9.4	H	3.0	35.9	1.0	-44.3	-13.0	-31.3	
5554.50	-6.5	H	3.0	35.5	1.0	-41.0	-13.0	-28.0	
3MHz									
7406.00	-0.6	H	3.0	35.7	1.0	-35.3	-13.0	-22.3	
16QAM									
Mid Ch, 1880									
3760.00	-1.1	V	3.0	35.8	1.0	-35.9	-13.0	-22.9	
5640.00	2.3	V	3.0	35.5	1.0	-32.2	-13.0	-19.2	
7520.00	8.2	V	3.0	35.7	1.0	-26.6	-13.0	-13.6	
3760.00	-10.2	H	3.0	35.8	1.0	-45.0	-13.0	-32.0	
5640.00	-6.2	H	3.0	35.5	1.0	-40.7	-13.0	-27.7	
7520.00	-1.6	H	3.0	35.7	1.0	-36.3	-13.0	-23.3	
High Ch, 1908.5									
3817.00	-9.5	V	3.0	35.8	1.0	-44.3	-13.0	-31.3	
5725.50	-6.3	V	3.0	35.5	1.0	-40.8	-13.0	-27.8	
7634.00	-0.6	V	3.0	35.8	1.0	-35.4	-13.0	-22.4	
3817.00	-9.9	H	3.0	35.8	1.0	-44.7	-13.0	-31.7	
5725.50	-5.5	H	3.0	35.5	1.0	-40.0	-13.0	-27.0	
7634.00	0.1	H	3.0	35.8	1.0	-34.7	-13.0	-21.7	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15119834								
Date:		1/29/2015								
Test Engineer:		D. Sblendorio								
Configuration:		EUT/ AC Charger/ 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	Low Ch, 1851.5									
	3703.00	-11.5	V	3.0	35.9	1.0	-46.4	-13.0	-33.4	
LTE2	5554.50	-11.1	V	3.0	35.5	1.0	-45.6	-13.0	-32.6	
	7406.00	-5.5	V	3.0	35.7	1.0	-40.2	-13.0	-27.2	
3MHz	3703.00	-10.5	H	3.0	35.9	1.0	-45.4	-13.0	-32.4	
	5554.50	-6.5	H	3.0	35.5	1.0	-41.0	-13.0	-28.0	
QPSK	7406.00	-1.3	H	3.0	35.7	1.0	-36.0	-13.0	-23.0	
	Mid Ch, 1880									
	3760.00	-0.5	V	3.0	35.8	1.0	-35.3	-13.0	-22.3	
	5640.00	2.5	V	3.0	35.5	1.0	-32.0	-13.0	-19.0	
	7520.00	7.2	V	3.0	35.7	1.0	-27.5	-13.0	-14.5	
	3760.00	-10.0	H	3.0	35.8	1.0	-44.8	-13.0	-31.8	
	5640.00	-5.3	H	3.0	35.5	1.0	-39.8	-13.0	-26.8	
	7520.00	-0.6	H	3.0	35.7	1.0	-35.4	-13.0	-22.4	
	High Ch, 1908.5									
	3817.00	-9.4	V	3.0	35.8	1.0	-44.1	-13.0	-31.1	
	5725.50	-5.7	V	3.0	35.5	1.0	-40.2	-13.0	-27.2	
	7634.00	-1.3	V	3.0	35.8	1.0	-36.0	-13.0	-23.0	
	3817.00	-9.9	H	3.0	35.8	1.0	-44.7	-13.0	-31.7	
	5725.50	-5.5	H	3.0	35.5	1.0	-40.0	-13.0	-27.0	
	7634.00	-0.6	H	3.0	35.8	1.0	-35.3	-13.0	-22.3	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15119834							
Date:		1/27/2015							
Test Engineer:		D. Sblendorio							
Configuration:		EUT/ AC Charger/ Headset							
Location:		Chamber C							
Mode:		LTE_16QAM Band 2 Harmonics, 1.4MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band									
LTE2									
1.4MHz									
16QAM									
Low Ch, 1850.7									
3701.40	-9.7	V	3.0	35.9	1.0	-44.5	-13.0	-31.5	
5552.10	-7.4	V	3.0	35.5	1.0	-41.9	-13.0	-28.9	
7402.80	-0.8	V	3.0	35.7	1.0	-35.5	-13.0	-22.5	
3701.40	-10.6	H	3.0	35.9	1.0	-45.4	-13.0	-32.4	
5552.10	-7.0	H	3.0	35.5	1.0	-41.5	-13.0	-28.5	
7402.80	-0.2	H	3.0	35.7	1.0	-34.9	-13.0	-21.9	
Mid Ch, 1880									
3760.00	-9.9	V	3.0	35.8	1.0	-44.7	-13.0	-31.7	
5640.00	-7.1	V	3.0	35.5	1.0	-41.6	-13.0	-28.6	
7520.00	-2.2	V	3.0	35.7	1.0	-37.0	-13.0	-24.0	
3760.00	-9.6	H	3.0	35.8	1.0	-44.4	-13.0	-31.4	
5640.00	-4.3	H	3.0	35.5	1.0	-38.8	-13.0	-25.8	
7520.00	-1.0	H	3.0	35.7	1.0	-35.7	-13.0	-22.7	
High Ch, 1909.3									
3818.60	-9.3	V	3.0	35.8	1.0	-44.0	-13.0	-31.0	
5727.90	-5.8	V	3.0	35.5	1.0	-40.3	-13.0	-27.3	
7637.20	-0.9	V	3.0	35.8	1.0	-35.6	-13.0	-22.6	
3818.60	-11.1	H	3.0	35.8	1.0	-45.9	-13.0	-32.9	
5727.90	-6.8	H	3.0	35.5	1.0	-41.3	-13.0	-28.3	
7637.20	0.6	H	3.0	35.8	1.0	-34.2	-13.0	-21.2	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement											
Company:		LG Electronics									
Project #:		15119834									
Date:		1/27/2015									
Test Engineer:		D. Sblendorio									
Configuration:		EUT/ AC Charger/ Headset									
Location:		Chamber C									
Mode:		LTE_QPSK Band 2 Harmonics, 1.4MHz Bandwidth									
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	
Band	Low Ch, 1850.7										
		3701.40	-8.2	V	3.0	35.9	1.0	-43.1	-13.0	-30.1	
		5552.10	-6.4	V	3.0	35.5	1.0	-40.9	-13.0	-27.9	
	LTE2	7402.80	-2.0	V	3.0	35.7	1.0	-36.7	-13.0	-23.7	
		3701.40	-9.3	H	3.0	35.9	1.0	-44.2	-13.0	-31.2	
	1.4MHz	5552.10	-7.3	H	3.0	35.5	1.0	-41.7	-13.0	-28.7	
7402.80		-1.0	H	3.0	35.7	1.0	-35.7	-13.0	-22.7		
QPSK	Mid Ch, 1880										
		3760.00	-10.5	V	3.0	35.8	1.0	-45.3	-13.0	-32.3	
		5640.00	-7.0	V	3.0	35.5	1.0	-41.5	-13.0	-28.5	
		7520.00	-1.9	V	3.0	35.7	1.0	-36.6	-13.0	-23.6	
		3760.00	-9.2	H	3.0	35.8	1.0	-44.0	-13.0	-31.0	
		5640.00	-4.9	H	3.0	35.5	1.0	-39.4	-13.0	-26.4	
	7520.00	-1.1	H	3.0	35.7	1.0	-35.8	-13.0	-22.8		
	High Ch, 1909.3										
	3818.60	-10.1	V	3.0	35.8	1.0	-44.9	-13.0	-31.9		
	5727.90	-6.7	V	3.0	35.5	1.0	-41.2	-13.0	-28.2		
	7637.20	-0.1	V	3.0	35.8	1.0	-34.8	-13.0	-21.8		
	3818.60	-10.5	H	3.0	35.8	1.0	-45.3	-13.0	-32.3		
	5727.90	-6.2	H	3.0	35.5	1.0	-40.7	-13.0	-27.7		
	7637.20	-0.6	H	3.0	35.8	1.0	-35.3	-13.0	-22.3		

LTE Band 4

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15119834							
Date:		2/2/2015							
Test Engineer:		R.Zheng							
Configuration:		EUT , AC Adapter							
Location:		Chamber B							
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	-7.7	V	3.0	36.0	1.0	-42.8	-13.0	-29.8	
5160.00	-1.4	V	3.0	35.4	1.0	-35.8	-13.0	-22.8	
6880.00	-16.8	V	3.0	35.7	1.0	-51.5	-13.0	-38.5	
3440.00	-4.8	H	3.0	36.0	1.0	-39.8	-13.0	-26.8	
5160.00	-0.5	H	3.0	35.4	1.0	-34.9	-13.0	-21.9	
6880.00	-14.9	H	3.0	35.7	1.0	-49.6	-13.0	-36.6	
Mid Ch, 1732.5									
3465.00	-14.9	V	3.0	36.0	1.0	-50.0	-13.0	-37.0	
5197.50	-1.9	V	3.0	35.4	1.0	-36.3	-13.0	-23.3	
6930.00	-15.4	V	3.0	35.7	1.0	-50.0	-13.0	-37.0	
3465.00	-13.0	H	3.0	36.0	1.0	-48.0	-13.0	-35.0	
5197.50	-6.8	H	3.0	35.4	1.0	-41.2	-13.0	-28.2	
6930.00	-13.4	H	3.0	35.7	1.0	-48.1	-13.0	-35.1	
High Ch, 1745									
3490.00	-5.8	V	3.0	36.0	1.0	-40.8	-13.0	-27.8	
5235.00	-13.2	V	3.0	35.4	1.0	-47.6	-13.0	-34.6	
6980.00	-17.7	V	3.0	35.7	1.0	-52.4	-13.0	-39.4	
3490.00	-6.6	H	3.0	36.0	1.0	-41.6	-13.0	-28.6	
5235.00	-9.8	H	3.0	35.4	1.0	-44.3	-13.0	-31.3	
6980.00	-13.5	H	3.0	35.7	1.0	-48.2	-13.0	-35.2	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I19834							
Date:		2/2/2015							
Test Engineer:		R.Zheng							
Configuration:		EUT , AC Adapter							
Location:		Chamber B							
Mode:		LTE_QPSK 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
Band									
LTE4									
20MHz									
QPSK									
Low Ch, 1720									
3440.00	-7.3	V	3.0	36.0	1.0	-42.4	-13.0	-29.4	
5160.00	-0.3	V	3.0	35.4	1.0	-34.7	-13.0	-21.7	
6880.00	-16.3	V	3.0	35.7	1.0	-51.0	-13.0	-38.0	
3440.00	-4.0	H	3.0	36.0	1.0	-39.0	-13.0	-26.0	
5160.00	-0.1	H	3.0	35.4	1.0	-34.5	-13.0	-21.5	
6880.00	-14.7	H	3.0	35.7	1.0	-49.4	-13.0	-36.4	
Mid Ch, 1732.5									
3465.00	-14.5	V	3.0	36.0	1.0	-49.5	-13.0	-36.5	
5197.50	-5.0	V	3.0	35.4	1.0	-39.4	-13.0	-26.4	
6930.00	-13.6	V	3.0	35.7	1.0	-48.2	-13.0	-35.2	
3465.00	-12.5	H	3.0	36.0	1.0	-47.5	-13.0	-34.5	
5197.50	-6.5	H	3.0	35.4	1.0	-40.9	-13.0	-27.9	
6930.00	-12.7	H	3.0	35.7	1.0	-47.4	-13.0	-34.4	
High Ch, 1745									
3490.00	-5.6	V	3.0	36.0	1.0	-40.6	-13.0	-27.6	
5235.00	-12.3	V	3.0	35.4	1.0	-46.7	-13.0	-33.7	
6980.00	-17.2	V	3.0	35.7	1.0	-51.9	-13.0	-38.9	
3490.00	-6.4	H	3.0	36.0	1.0	-41.4	-13.0	-28.4	
5235.00	-10.5	H	3.0	35.4	1.0	-45.0	-13.0	-32.0	
6980.00	-13.6	H	3.0	35.7	1.0	-48.3	-13.0	-35.3	

UL Verification Services, Inc.										
Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15119834								
Date:		2/2/2015								
Test Engineer:		R.Zheng								
Configuration:		EUT , AC Adapter								
Location:		Chamber B								
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	-16.0	V	3.0	36.1	1.0	-51.1	-13.0	-38.1	
	5152.50	-11.2	V	3.0	35.4	1.0	-45.7	-13.0	-32.7	
	6870.00	-10.3	V	3.0	35.7	1.0	-45.0	-13.0	-32.0	
15MHz	3435.00	-15.7	H	3.0	36.1	1.0	-50.7	-13.0	-37.7	
	5152.50	-10.1	H	3.0	35.4	1.0	-44.5	-13.0	-31.5	
	6870.00	-9.2	H	3.0	35.7	1.0	-43.9	-13.0	-30.9	
16QAM	Mid Ch, 1732.5									
	3465.00	-14.6	V	3.0	36.0	1.0	-49.7	-13.0	-36.7	
	5197.50	-7.7	V	3.0	35.4	1.0	-42.1	-13.0	-29.1	
	6930.00	-6.2	V	3.0	35.7	1.0	-40.8	-13.0	-27.8	
	3465.00	-13.4	H	3.0	36.0	1.0	-48.5	-13.0	-35.5	
	5197.50	-10.6	H	3.0	35.4	1.0	-45.0	-13.0	-32.0	
	6930.00	-8.6	H	3.0	35.7	1.0	-43.3	-13.0	-30.3	
	High Ch, 1747.5									
	3495.00	-1.4	V	3.0	36.0	1.0	-36.4	-13.0	-23.4	
	5242.50	-1.7	V	3.0	35.4	1.0	-36.1	-13.0	-23.1	
	6990.00	-8.0	V	3.0	35.7	1.0	-42.7	-13.0	-29.7	
	3495.00	-14.4	H	3.0	36.0	1.0	-49.4	-13.0	-36.4	
	5242.50	-10.9	H	3.0	35.4	1.0	-45.4	-13.0	-32.4	
	6990.00	-8.3	H	3.0	35.7	1.0	-43.0	-13.0	-30.0	

UL Verification Services, Inc.										
Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15119834								
Date:		2/2/2015								
Test Engineer:		R.Zheng								
Configuration:		EUT , AC Adapter								
Location:		Chamber B								
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									
	3435.00	-16.3	V	3.0	36.1	1.0	-51.3	-13.0	-38.3	
	5152.50	-10.9	V	3.0	35.4	1.0	-45.3	-13.0	-32.3	
	6870.00	-10.1	V	3.0	35.7	1.0	-44.8	-13.0	-31.8	
LTE4	3435.00	-15.6	H	3.0	36.1	1.0	-50.6	-13.0	-37.6	
15MHz	5152.50	-10.3	H	3.0	35.4	1.0	-44.7	-13.0	-31.7	
QPSK	6870.00	-8.6	H	3.0	35.7	1.0	-43.3	-13.0	-30.3	
	Mid Ch, 1732.5									
	3465.00	-14.4	V	3.0	36.0	1.0	-49.5	-13.0	-36.5	
	5197.50	-8.0	V	3.0	35.4	1.0	-42.4	-13.0	-29.4	
	6930.00	-6.6	V	3.0	35.7	1.0	-41.2	-13.0	-28.2	
	3465.00	-13.3	H	3.0	36.0	1.0	-48.3	-13.0	-35.3	
	5197.50	-10.0	H	3.0	35.4	1.0	-44.4	-13.0	-31.4	
	6930.00	-7.8	H	3.0	35.7	1.0	-42.5	-13.0	-29.5	
	High Ch, 1747.5									
	3495.00	-1.8	V	3.0	36.0	1.0	-36.8	-13.0	-23.8	
	5242.50	-0.2	V	3.0	35.4	1.0	-34.6	-13.0	-21.6	
	6990.00	-8.5	V	3.0	35.7	1.0	-43.2	-13.0	-30.2	
	3495.00	-13.6	H	3.0	36.0	1.0	-48.6	-13.0	-35.6	
	5242.50	-10.6	H	3.0	35.4	1.0	-45.1	-13.0	-32.1	
	6990.00	-8.5	H	3.0	35.7	1.0	-43.2	-13.0	-30.2	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15119834								
Date:		2/2/2015								
Test Engineer:		R.Zheng								
Configuration:		EUT , AC Adapter								
Location:		Chamber B								
Mode:		LTE_16QAM Band 4 Harmonics, 10MHz Bandwidth								
Band	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 1715									
	3430.00	-8.9	V	3.0	36.1	1.0	-44.0	-13.0	-31.0	
	5145.00	-10.9	V	3.0	35.4	1.0	-45.4	-13.0	-32.4	
	6860.00	-13.9	V	3.0	35.7	1.0	-48.5	-13.0	-35.5	
10MHz	3430.00	-19.5	H	3.0	36.1	1.0	-54.6	-13.0	-41.6	
	5145.00	-8.1	H	3.0	35.4	1.0	-42.5	-13.0	-29.5	
	6860.00	-14.7	H	3.0	35.7	1.0	-49.4	-13.0	-36.4	
16QAM	Mid Ch, 1732.5									
	3465.00	-10.3	V	3.0	36.0	1.0	-45.3	-13.0	-32.3	
	5197.50	-5.1	V	3.0	35.4	1.0	-39.5	-13.0	-26.5	
	6930.00	-15.4	V	3.0	35.7	1.0	-50.0	-13.0	-37.0	
	3465.00	-12.7	H	3.0	36.0	1.0	-47.7	-13.0	-34.7	
	5197.50	-8.4	H	3.0	35.4	1.0	-42.8	-13.0	-29.8	
	6930.00	-13.0	H	3.0	35.7	1.0	-47.6	-13.0	-34.6	
	High Ch, 1750									
	3500.00	-18.5	V	3.0	36.0	1.0	-53.5	-13.0	-40.5	
	5250.00	-7.9	V	3.0	35.4	1.0	-42.3	-13.0	-29.3	
	7000.00	-16.0	V	3.0	35.7	1.0	-50.7	-13.0	-37.7	
	3500.00	-21.7	H	3.0	36.0	1.0	-56.7	-13.0	-43.7	
	5250.00	-2.7	H	3.0	35.4	1.0	-37.1	-13.0	-24.1	
	7000.00	-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 #:		15119834								
Date:		2/2/2015								
Test Engineer:		R.Zheng								
Configuration:		EUT , AC Adapter								
Location:		Chamber B								
Mode:		LTE_QPSK Band 4 Harmonics, 10MHz Bandwidth								
Band	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 1715									
	3430.00	-9.3	V	3.0	36.1	1.0	-44.4	-13.0	-31.4	
	5145.00	-10.7	V	3.0	35.4	1.0	-45.2	-13.0	-32.2	
	6860.00	-15.1	V	3.0	35.7	1.0	-49.8	-13.0	-36.8	
LTE4	3430.00	-19.1	H	3.0	36.1	1.0	-54.2	-13.0	-41.2	
10MHz	5145.00	-7.5	H	3.0	35.4	1.0	-42.0	-13.0	-29.0	
QPSK	6860.00	-14.1	H	3.0	35.7	1.0	-48.8	-13.0	-35.8	
	Mid Ch, 1732.5									
	3465.00	-10.8	V	3.0	36.0	1.0	-45.9	-13.0	-32.9	
	5197.50	-5.4	V	3.0	35.4	1.0	-39.8	-13.0	-26.8	
	6930.00	-15.7	V	3.0	35.7	1.0	-50.3	-13.0	-37.3	
	3465.00	-12.7	H	3.0	36.0	1.0	-47.7	-13.0	-34.7	
	5197.50	-8.4	H	3.0	35.4	1.0	-42.8	-13.0	-29.8	
	6930.00	-13.0	H	3.0	35.7	1.0	-47.6	-13.0	-34.6	
	High Ch, 1750									
	3500.00	-18.1	V	3.0	36.0	1.0	-53.1	-13.0	-40.1	
	5250.00	-7.6	V	3.0	35.4	1.0	-42.0	-13.0	-29.0	
	7000.00	-15.2	V	3.0	35.7	1.0	-49.9	-13.0	-36.9	
	3500.00	-21.0	H	3.0	36.0	1.0	-56.0	-13.0	-43.0	
	5250.00	-3.1	H	3.0	35.4	1.0	-37.5	-13.0	-24.5	
	7000.00	-12.2	H	3.0	35.7	1.0	-46.9	-13.0	-33.9	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15119834								
Date:		2/2/2015								
Test Engineer:		R.Zheng								
Configuration:		EUT , AC Adapter								
Location:		Chamber B								
Mode:		LTE_16QAM Band 4 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, 1712.5									
	3425.00	-12.3	V	3.0	36.1	1.0	-47.4	-13.0	-34.4	
LTE4	5137.50	-11.1	V	3.0	35.4	1.0	-45.5	-13.0	-32.5	
	6850.00	-18.3	V	3.0	35.7	1.0	-52.9	-13.0	-39.9	
5MHz	3425.00	-22.1	H	3.0	36.1	1.0	-57.2	-13.0	-44.2	
	5137.50	-6.4	H	3.0	35.4	1.0	-40.8	-13.0	-27.8	
	6850.00	-10.5	H	3.0	35.7	1.0	-45.2	-13.0	-32.2	
16QAM	Mid Ch, 1732.5									
	3465.00	-19.9	V	3.0	36.0	1.0	-54.9	-13.0	-41.9	
	5197.50	-6.8	V	3.0	35.4	1.0	-41.2	-13.0	-28.2	
	6930.00	-8.9	V	3.0	35.7	1.0	-43.5	-13.0	-30.5	
	3465.00	-13.8	H	3.0	36.0	1.0	-48.8	-13.0	-35.8	
	5197.50	-5.1	H	3.0	35.4	1.0	-39.5	-13.0	-26.5	
	6930.00	-7.8	H	3.0	35.7	1.0	-42.5	-13.0	-29.5	
	High Ch, 1752.5									
	3505.00	-15.6	V	3.0	36.0	1.0	-50.6	-13.0	-37.6	
	5257.50	-10.8	V	3.0	35.4	1.0	-45.3	-13.0	-32.3	
	7010.00	-14.6	V	3.0	35.7	1.0	-49.3	-13.0	-36.3	
	3505.00	-16.1	H	3.0	36.0	1.0	-51.1	-13.0	-38.1	
	5257.50	-5.7	H	3.0	35.4	1.0	-40.1	-13.0	-27.1	
	7010.00	-13.9	H	3.0	35.7	1.0	-48.6	-13.0	-35.6	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15119834								
Date:		2/2/2015								
Test Engineer:		R.Zheng								
Configuration:		EUT , AC Adapter								
Location:		Chamber B								
Mode:		LTE_QPSK Band 4 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, 1712.5									
	3425.00	-10.9	V	3.0	36.1	1.0	-45.9	-13.0	-32.9	
LTE4	5137.50	-10.3	V	3.0	35.4	1.0	-44.7	-13.0	-31.7	
	6850.00	-20.8	V	3.0	35.7	1.0	-55.4	-13.0	-42.4	
5MHz	3425.00	-21.3	H	3.0	36.1	1.0	-56.4	-13.0	-43.4	
	5137.50	-6.3	H	3.0	35.4	1.0	-40.7	-13.0	-27.7	
QPSK	6850.00	-10.7	H	3.0	35.7	1.0	-45.3	-13.0	-32.3	
	Mid Ch, 1732.5									
	3465.00	-21.0	V	3.0	36.0	1.0	-56.1	-13.0	-43.1	
	5197.50	-7.7	V	3.0	35.4	1.0	-42.1	-13.0	-29.1	
	6930.00	-9.0	V	3.0	35.7	1.0	-43.6	-13.0	-30.6	
	3465.00	-14.0	H	3.0	36.0	1.0	-49.0	-13.0	-36.0	
	5197.50	-4.6	H	3.0	35.4	1.0	-39.0	-13.0	-26.0	
	6930.00	-6.5	H	3.0	35.7	1.0	-41.2	-13.0	-28.2	
	High Ch, 1752.5									
	3505.00	-15.5	V	3.0	36.0	1.0	-50.5	-13.0	-37.5	
	5257.50	-10.2	V	3.0	35.4	1.0	-44.7	-13.0	-31.7	
	7010.00	-14.9	V	3.0	35.7	1.0	-49.5	-13.0	-36.5	
	3505.00	-14.7	H	3.0	36.0	1.0	-49.7	-13.0	-36.7	
	5257.50	-5.1	H	3.0	35.4	1.0	-39.5	-13.0	-26.5	
	7010.00	-13.6	H	3.0	35.7	1.0	-48.3	-13.0	-35.3	

UL Verification Services, Inc.										
Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15119834								
Date:		2/2/2015								
Test Engineer:		R.Zheng								
Configuration:		EUT , AC Adapter								
Location:		Chamber C								
Mode:		LTE_16QAM 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									
	3423.00	-16.6	V	3.0	36.1	1.0	-51.6	-13.0	-38.6	
LTE4	5134.50	-15.3	V	3.0	35.4	1.0	-49.8	-13.0	-36.8	
	6846.00	-18.2	V	3.0	35.7	1.0	-52.9	-13.0	-39.9	
3MHz	3423.00	-17.6	H	3.0	36.1	1.0	-52.6	-13.0	-39.6	
	5134.50	-11.8	H	3.0	35.4	1.0	-46.2	-13.0	-33.2	
	6846.00	-14.4	H	3.0	35.7	1.0	-49.1	-13.0	-36.1	
16QAM	Mid Ch, 1732.5									
	3465.00	-10.8	V	3.0	36.0	1.0	-45.9	-13.0	-32.9	
	5197.50	-9.8	V	3.0	35.4	1.0	-44.2	-13.0	-31.2	
	6930.00	-14.4	V	3.0	35.7	1.0	-49.0	-13.0	-36.0	
	3465.00	-15.4	H	3.0	36.0	1.0	-50.4	-13.0	-37.4	
	5197.50	-16.9	H	3.0	35.4	1.0	-51.3	-13.0	-38.3	
	6930.00	-12.0	H	3.0	35.7	1.0	-46.7	-13.0	-33.7	
	High Ch, 1753.5									
	3507.00	-16.4	V	3.0	36.0	1.0	-51.4	-13.0	-38.4	
	5260.50	-11.3	V	3.0	35.4	1.0	-45.7	-13.0	-32.7	
	7014.00	-3.5	V	3.0	35.7	1.0	-38.1	-13.0	-25.1	
	3507.00	-16.4	H	3.0	36.0	1.0	-51.4	-13.0	-38.4	
	5260.50	-9.6	H	3.0	35.4	1.0	-44.0	-13.0	-31.0	
	7014.00	-8.1	H	3.0	35.7	1.0	-42.8	-13.0	-29.8	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company: LG Electronics Project #: 15119834 Date: 2/2/2015 Test Engineer: R.Zheng Configuration: EUT , AC Adapter 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									
	3423.00	-15.6	V	3.0	36.1	1.0	-50.7	-13.0	-37.7	
LTE4	5134.50	-15.1	V	3.0	35.4	1.0	-49.5	-13.0	-36.5	
	6846.00	-17.7	V	3.0	35.7	1.0	-52.3	-13.0	-39.3	
3MHz	3423.00	-18.3	H	3.0	36.1	1.0	-53.3	-13.0	-40.3	
	5134.50	-12.6	H	3.0	35.4	1.0	-47.0	-13.0	-34.0	
QPSK	6846.00	-13.9	H	3.0	35.7	1.0	-48.6	-13.0	-35.6	
	Mid Ch, 1732.5									
	3465.00	-11.1	V	3.0	36.0	1.0	-46.1	-13.0	-33.1	
	5197.50	-9.9	V	3.0	35.4	1.0	-44.3	-13.0	-31.3	
	6930.00	-13.9	V	3.0	35.7	1.0	-48.6	-13.0	-35.6	
	3465.00	-15.7	H	3.0	36.0	1.0	-50.7	-13.0	-37.7	
	5197.50	-15.6	H	3.0	35.4	1.0	-50.0	-13.0	-37.0	
	6930.00	-11.8	H	3.0	35.7	1.0	-46.4	-13.0	-33.4	
	High Ch, 1753.5									
	3507.00	-16.6	V	3.0	36.0	1.0	-51.6	-13.0	-38.6	
	5260.50	-11.0	V	3.0	35.4	1.0	-45.5	-13.0	-32.5	
	7014.00	-5.2	V	3.0	35.7	1.0	-39.9	-13.0	-26.9	
	3507.00	-15.9	H	3.0	36.0	1.0	-50.9	-13.0	-37.9	
	5260.50	-8.9	H	3.0	35.4	1.0	-43.4	-13.0	-30.4	
	7014.00	-7.7	H	3.0	35.7	1.0	-42.4	-13.0	-29.4	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15119834								
Date:		2/2/2015								
Test Engineer:		R.Zheng								
Configuration:		EUT , AC Adapter								
Location:		Chamber C								
Mode:		LTE_16QAM Band 4 Harmonics, 1.4MHz Bandwidth								
Band	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 1710.7									
LTE4	3421.40	-13.6	V	3.0	36.1	1.0	-48.6	-13.0	-35.6	
	5132.10	-3.8	V	3.0	35.4	1.0	-38.2	-13.0	-25.2	
	6842.80	-15.9	V	3.0	35.7	1.0	-50.6	-13.0	-37.6	
1.4MHz	3421.40	-14.7	H	3.0	36.1	1.0	-49.8	-13.0	-36.8	
	5132.10	-11.8	H	3.0	35.4	1.0	-46.3	-13.0	-33.3	
	6842.80	-14.6	H	3.0	35.7	1.0	-49.2	-13.0	-36.2	
16QAM	Mid Ch, 1732.5									
	3465.00	-16.0	V	3.0	36.0	1.0	-51.0	-13.0	-38.0	
	5197.50	-6.7	V	3.0	35.4	1.0	-41.1	-13.0	-28.1	
	6930.00	-12.6	V	3.0	35.7	1.0	-47.3	-13.0	-34.3	
	3465.00	-16.4	H	3.0	36.0	1.0	-51.4	-13.0	-38.4	
	5197.50	-5.1	H	3.0	35.4	1.0	-39.5	-13.0	-26.5	
	6930.00	-10.3	H	3.0	35.7	1.0	-44.9	-13.0	-31.9	
	High Ch, 1754.3									
	3508.60	-18.0	V	3.0	36.0	1.0	-53.0	-13.0	-40.0	
	5262.90	-13.5	V	3.0	35.4	1.0	-47.9	-13.0	-34.9	
	7017.20	-8.9	V	3.0	35.7	1.0	-43.6	-13.0	-30.6	
	3508.60	-16.4	H	3.0	36.0	1.0	-51.4	-13.0	-38.4	
	5262.90	-6.8	H	3.0	35.4	1.0	-41.3	-13.0	-28.3	
	7017.20	-9.4	H	3.0	35.7	1.0	-44.1	-13.0	-31.1	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I19834							
Date:		2/2/2015							
Test Engineer:		R.Zheng							
Configuration:		EUT , AC Adapter							
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	-15.2	V	3.0	36.1	1.0	-50.3	-13.0	-37.3	
5132.10	-4.3	V	3.0	35.4	1.0	-38.7	-13.0	-25.7	
6842.80	-15.5	V	3.0	35.7	1.0	-50.2	-13.0	-37.2	
3421.40	-17.2	H	3.0	36.1	1.0	-52.3	-13.0	-39.3	
5132.10	-11.4	H	3.0	35.4	1.0	-45.9	-13.0	-32.9	
6842.80	-14.4	H	3.0	35.7	1.0	-49.1	-13.0	-36.1	
Mid Ch, 1732.5									
3465.00	-16.8	V	3.0	36.0	1.0	-51.9	-13.0	-38.9	
5197.50	-7.2	V	3.0	35.4	1.0	-41.6	-13.0	-28.6	
6930.00	-12.3	V	3.0	35.7	1.0	-47.0	-13.0	-34.0	
3465.00	-17.7	H	3.0	36.0	1.0	-52.7	-13.0	-39.7	
5197.50	-5.1	H	3.0	35.4	1.0	-39.5	-13.0	-26.5	
6930.00	-10.0	H	3.0	35.7	1.0	-44.7	-13.0	-31.7	
High Ch, 1754.3									
3508.60	-18.5	V	3.0	36.0	1.0	-53.5	-13.0	-40.5	
5262.90	-13.0	V	3.0	35.4	1.0	-47.5	-13.0	-34.5	
7017.20	-8.8	V	3.0	35.7	1.0	-43.5	-13.0	-30.5	
3508.60	-16.6	H	3.0	36.0	1.0	-51.6	-13.0	-38.6	
5262.90	-7.2	H	3.0	35.4	1.0	-41.7	-13.0	-28.7	
7017.20	-10.2	H	3.0	35.7	1.0	-44.9	-13.0	-31.9	

LTE Band 5

UL Verification Services, Inc. Chamber C Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15119834							
Date:		01/30/15							
Test Engineer:		James Jackson							
Configuration:		EUT w/ AC Adaptor + HS, X-pos							
Mode:		LTE5 10MHz 16QAM HARM							
Chamber		Pre-amplifier			Filter		Limit		
3m Chamber		T34 8449B			Filter1		Part 22		
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band									
LTE5									
10MHz									
16QAM									
Low Ch, 829MHz									
1.658	-22.3	V	3.0	37.4	1.0	-58.7	-13.0	-45.7	
2.487	-22.1	V	3.0	36.4	1.0	-57.5	-13.0	-44.5	
3.316	-23.0	V	3.0	35.8	1.0	-57.8	-13.0	-44.8	
1.658	-24.7	H	3.0	37.4	1.0	-61.0	-13.0	-48.0	
2.487	-25.8	H	3.0	36.4	1.0	-61.2	-13.0	-48.2	
3.316	-23.4	H	3.0	35.8	1.0	-58.2	-13.0	-45.2	
Mid Ch, 836.5MHz									
1.673	-26.2	V	3.0	37.3	1.0	-62.5	-13.0	-49.5	
2.510	-23.0	V	3.0	36.4	1.0	-58.4	-13.0	-45.4	
3.346	-23.4	V	3.0	35.8	1.0	-58.2	-13.0	-45.2	
1.673	-27.7	H	3.0	37.3	1.0	-64.1	-13.0	-51.1	
2.510	-23.7	H	3.0	36.4	1.0	-59.1	-13.0	-46.1	
3.346	-23.6	H	3.0	35.8	1.0	-58.3	-13.0	-45.3	
High Ch, 844MHz									
1.688	-24.3	V	3.0	37.3	1.0	-60.7	-13.0	-47.7	
2.532	-22.5	V	3.0	36.3	1.0	-57.8	-13.0	-44.8	
3.376	-23.2	V	3.0	35.7	1.0	-57.9	-13.0	-44.9	
1.688	-23.6	H	3.0	37.3	1.0	-60.0	-13.0	-47.0	
2.532	-25.4	H	3.0	36.3	1.0	-60.7	-13.0	-47.7	
3.376	-23.4	H	3.0	35.7	1.0	-58.1	-13.0	-45.1	
Rev. 03.03.09									
Note: No other emissions were detected above the system noise floor.									

UL Verification Services, Inc. Chamber C Above 1GHz High Frequency Substitution Measurement										
		Company:	LG Electronics							
		Project #:	15I19834							
		Date:	01/30/15							
		Test Engineer:	James Jackson							
		Configuration:	EUT w/ AC Adaptor + HS, X-pos							
		Mode:	LTE5 10MHz QPSK HARM							
		Chamber	Pre-amplifier		Filter		Limit			
		3m Chamber	T34 8449B		Filter 1		Part 22			
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	(dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 829MHz									
	1.658	-22.3	V	3.0	37.4	1.0	-58.7	-13.0	-45.7	
	2.487	-22.4	V	3.0	36.4	1.0	-57.8	-13.0	-44.8	
10MHz	3.316	-23.4	V	3.0	35.8	1.0	-58.2	-13.0	-45.2	
	1.658	-24.4	H	3.0	37.4	1.0	-60.8	-13.0	-47.8	
QPSK	2.487	-25.3	H	3.0	36.4	1.0	-60.7	-13.0	-47.7	
	3.316	-24.0	H	3.0	35.8	1.0	-58.7	-13.0	-45.7	
	Mid Ch, 836.5MHz									
	1.673	-25.5	V	3.0	37.3	1.0	-61.9	-13.0	-48.9	
	2.510	-19.4	V	3.0	36.4	1.0	-54.7	-13.0	-41.7	
	3.346	-24.0	V	3.0	35.8	1.0	-58.7	-13.0	-45.7	
	1.673	-27.6	H	3.0	37.3	1.0	-63.9	-13.0	-50.9	
	2.510	-24.4	H	3.0	36.4	1.0	-59.7	-13.0	-46.7	
	3.346	-23.0	H	3.0	35.8	1.0	-57.8	-13.0	-44.8	
	High Ch, 844 MHz									
	1.688	-23.5	V	3.0	37.3	1.0	-59.9	-13.0	-46.9	
	2.532	-23.0	V	3.0	36.3	1.0	-58.3	-13.0	-45.3	
	3.376	-23.2	V	3.0	35.7	1.0	-57.9	-13.0	-44.9	
	1.688	-24.7	H	3.0	37.3	1.0	-61.0	-13.0	-48.0	
	2.532	-25.9	H	3.0	36.3	1.0	-61.3	-13.0	-48.3	
	3.376	-24.1	H	3.0	35.7	1.0	-58.8	-13.0	-45.8	
Rev. 03.03.09										
Note: No other emissions were detected above the system noise floor.										

UL Verification Services, Inc. Chamber C Above 1GHz High Frequency Substitution Measurement										
		Company:	LG Electronics							
		Project #:	15119834							
		Date:	01/30/15							
		Test Engineer:	James Jackson							
		Configuration:	EUT w/ AC Adaptor + HS, X-pos							
		Mode:	LTE5 5MHz 16QAM HARM							
		Chamber	Pre-amplifier	Filter	Limit					
		3m Chamber	T34 8449B	Filter 1	Part 22					
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 826.5MHz									
	1.653	-26.3	V	3.0	37.4	1.0	-62.7	-13.0	-49.7	
	2.480	-23.5	V	3.0	36.4	1.0	-58.9	-13.0	-45.9	
5MHz	3.306	-23.6	V	3.0	35.8	1.0	-58.4	-13.0	-45.4	
	1.653	-26.5	H	3.0	37.4	1.0	-62.9	-13.0	-49.9	
16QAM	2.480	-26.2	H	3.0	36.4	1.0	-61.6	-13.0	-48.6	
	3.306	-23.3	H	3.0	35.8	1.0	-58.1	-13.0	-45.1	
	Mid Ch, 836.5MHz									
	1.673	-21.6	V	3.0	37.3	1.0	-57.9	-13.0	-44.9	
	2.510	-22.6	V	3.0	36.4	1.0	-57.9	-13.0	-44.9	
	3.346	-22.9	V	3.0	35.8	1.0	-57.7	-13.0	-44.7	
	1.673	-24.8	H	3.0	37.3	1.0	-61.1	-13.0	-48.1	
	2.510	-25.7	H	3.0	36.4	1.0	-61.0	-13.0	-48.0	
	3.346	-23.6	H	3.0	35.8	1.0	-58.3	-13.0	-45.3	
	High Ch, 846.5MHz									
	1.693	-24.7	V	3.0	37.3	1.0	-61.0	-13.0	-48.0	
	2.540	-23.3	V	3.0	36.3	1.0	-58.6	-13.0	-45.6	
	3.386	-23.6	V	3.0	35.7	1.0	-58.3	-13.0	-45.3	
	1.693	-25.3	H	3.0	37.3	1.0	-61.6	-13.0	-48.6	
	2.540	-25.7	H	3.0	36.3	1.0	-61.0	-13.0	-48.0	
	3.386	-24.1	H	3.0	35.7	1.0	-58.8	-13.0	-45.8	
Rev. 03.03.09										
Note: No other emissions were detected above the system noise floor.										

UL Verification Services, Inc. Chamber C Above 1GHz High Frequency Substitution Measurement										
		Company:	LG Electronics							
		Project #:	15119834							
		Date:	01/30/15							
		Test Engineer:	James Jackson							
		Configuration:	EUT w/ AC Adaptor + HS, X-pos							
		Mode:	LTE5 5MHz QPSK HARM							
		Chamber	Pre-amplifier	Filter	Limit					
		3m Chamber	T34 8449B	Filter 1	Part 22					
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	(dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 826.5MHz									
	1.653	-25.5	V	3.0	37.4	1.0	-61.9	-13.0	-48.9	
	2.480	-22.9	V	3.0	36.4	1.0	-58.3	-13.0	-45.3	
5MHz	3.306	-23.9	V	3.0	35.8	1.0	-58.7	-13.0	-45.7	
	1.653	-26.2	H	3.0	37.4	1.0	-62.6	-13.0	-49.6	
QPSK	2.480	-25.6	H	3.0	36.4	1.0	-60.9	-13.0	-47.9	
	3.306	-22.3	H	3.0	35.8	1.0	-57.1	-13.0	-44.1	
	Mid Ch, 836.5MHz									
	1.673	-20.9	V	3.0	37.3	1.0	-57.3	-13.0	-44.3	
	2.510	-22.3	V	3.0	36.4	1.0	-57.7	-13.0	-44.7	
	3.346	-23.0	V	3.0	35.8	1.0	-57.7	-13.0	-44.7	
	1.673	-24.8	H	3.0	37.3	1.0	-61.1	-13.0	-48.1	
	2.510	-24.8	H	3.0	36.4	1.0	-60.2	-13.0	-47.2	
	3.346	-23.3	H	3.0	35.8	1.0	-58.1	-13.0	-45.1	
	High Ch, 846.5 MHz									
	1.693	-23.9	V	3.0	37.3	1.0	-60.3	-13.0	-47.3	
	2.540	-23.5	V	3.0	36.3	1.0	-58.8	-13.0	-45.8	
	3.386	-23.4	V	3.0	35.7	1.0	-58.1	-13.0	-45.1	
	1.693	-25.0	H	3.0	37.3	1.0	-61.3	-13.0	-48.3	
	2.540	-23.2	H	3.0	36.3	1.0	-58.5	-13.0	-45.5	
	3.386	-24.0	H	3.0	35.7	1.0	-58.7	-13.0	-45.7	
Rev. 03.03.09										
Note: No other emissions were detected above the system noise floor.										

UL Verification Services, Inc. Chamber C Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I19834								
Date:		01/30/15								
Test Engineer:		J. Jackson								
Configuration:		EUT w/ AC Adapter + HS, X-position								
Mode:		LTE5_3M_16QAM								
		Chamber		Pre-amplifier		Filter		Limit		
		3m Chamber		T34 8449B		Filter 1		Part 22		
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	(dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
LTE5 3MHz 16QAM	Low Ch, 825.5MHz									
	1.65	-25.6	V	3.0	37.4	1.0	-62.0	-13.0	-49.0	
	2.48	-24.1	V	3.0	36.4	1.0	-59.5	-13.0	-46.5	
	3.30	-23.9	V	3.0	35.8	1.0	-58.7	-13.0	-45.7	
	1.65	-25.9	H	3.0	37.4	1.0	-62.3	-13.0	-49.3	
	2.48	-26.1	H	3.0	36.4	1.0	-61.5	-13.0	-48.5	
	3.30	-23.6	H	3.0	35.8	1.0	-58.4	-13.0	-45.4	
	Mid Ch, 836.5MHz									
	1.673	-21.3	V	3.0	37.3	1.0	-57.6	-13.0	-44.6	
	2.510	-23.6	V	3.0	36.4	1.0	-58.9	-13.0	-45.9	
	3.346	-23.5	V	3.0	35.8	1.0	-58.3	-13.0	-45.3	
	1.673	-24.4	H	3.0	37.3	1.0	-60.8	-13.0	-47.8	
	2.510	-24.9	H	3.0	36.4	1.0	-60.3	-13.0	-47.3	
	3.346	-22.9	H	3.0	35.8	1.0	-57.6	-13.0	-44.6	
	High Ch, 847.5 MHz									
1.70	-24.0	V	3.0	37.3	1.0	-60.3	-13.0	-47.3		
2.54	-22.3	V	3.0	36.3	1.0	-57.6	-13.0	-44.6		
3.39	-23.4	V	3.0	35.7	1.0	-58.1	-13.0	-45.1		
1.70	-23.6	H	3.0	37.3	1.0	-59.9	-13.0	-46.9		
2.54	-24.5	H	3.0	36.3	1.0	-59.8	-13.0	-46.8		
3.39	-23.6	H	3.0	35.7	1.0	-58.3	-13.0	-45.3		
Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.										

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

Company: LG Electronics
Project #: 15I19834
Date: 01/30/15
Test Engineer: J. Jackson
Configuration: EUT w/ AC Adapter + HS, X-position
Mode: LTE5_3M_QPSK

Chamber	Pre-amplifier	Filter	Limit
3m Chamber	T34 8449B	Filter 1	Part 22

Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	(dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 825.5MHz									
	1.65	-25.2	V	3.0	37.4	1.0	-61.6	-13.0	-48.6	
	2.48	-24.1	V	3.0	36.4	1.0	-59.4	-13.0	-46.4	
3MHz	3.30	-24.3	V	3.0	35.8	1.0	-59.1	-13.0	-46.1	
	1.65	-26.4	H	3.0	37.4	1.0	-62.8	-13.0	-49.8	
QPSK	2.48	-26.8	H	3.0	36.4	1.0	-62.1	-13.0	-49.1	
	3.30	-23.6	H	3.0	35.8	1.0	-58.4	-13.0	-45.4	
	Mid Ch, 836.5MHz									
	1.673	-21.1	V	3.0	37.3	1.0	-57.4	-13.0	-44.4	
	2.510	-24.0	V	3.0	36.4	1.0	-59.4	-13.0	-46.4	
	3.346	-23.8	V	3.0	35.8	1.0	-58.6	-13.0	-45.6	
	1.673	-24.1	H	3.0	37.3	1.0	-60.5	-13.0	-47.5	
	2.510	-25.0	H	3.0	36.4	1.0	-60.4	-13.0	-47.4	
	3.346	-23.2	H	3.0	35.8	1.0	-57.9	-13.0	-44.9	
	High Ch, 847.5 MHz									
	1.70	-25.3	V	3.0	37.3	1.0	-61.6	-13.0	-48.6	
	2.54	-22.9	V	3.0	36.3	1.0	-58.3	-13.0	-45.3	
	3.39	-23.6	V	3.0	35.7	1.0	-58.3	-13.0	-45.3	
	1.70	-23.3	H	3.0	37.3	1.0	-59.6	-13.0	-46.6	
	2.54	-25.6	H	3.0	36.3	1.0	-60.9	-13.0	-47.9	
	3.39	-23.6	H	3.0	35.7	1.0	-58.3	-13.0	-45.3	

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

UL Verification Services, Inc. Chamber C Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15119834								
Date:		01/30/15								
Test Engineer:		J. Jackson								
Configuration:		EUT w/ AC Adapter + HS, X-position								
Mode:		LTE5 1.4MHz 16QAM HARM								
Chamber		Pre-amplifier		Filter		Limit				
3m Chamber		T34 8449B		Filter 1		Part 22				
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	(dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
LTE5 1.4MHz 16QAM	Low Ch, 824.7MHz									
	1.65	-25.7	V	3.0	37.4	1.0	-62.1	-13.0	-49.1	
	2.47	-23.3	V	3.0	36.4	1.0	-58.6	-13.0	-45.6	
	3.30	-23.2	V	3.0	35.8	1.0	-58.0	-13.0	-45.0	
	1.65	-27.1	H	3.0	37.4	1.0	-63.5	-13.0	-50.5	
	2.47	-25.8	H	3.0	36.4	1.0	-61.2	-13.0	-48.2	
	3.30	-24.0	H	3.0	35.8	1.0	-58.8	-13.0	-45.8	
	Mid Ch, 836.5MHz									
	1.673	-24.9	V	3.0	37.3	1.0	-61.2	-13.0	-48.2	
	2.510	-23.2	V	3.0	36.4	1.0	-58.6	-13.0	-45.6	
	3.346	-23.8	V	3.0	35.8	1.0	-58.6	-13.0	-45.6	
	1.673	-24.7	H	3.0	37.3	1.0	-61.0	-13.0	-48.0	
	2.510	-24.2	H	3.0	36.4	1.0	-59.6	-13.0	-46.6	
	3.346	-23.7	H	3.0	35.8	1.0	-58.5	-13.0	-45.5	
	High Ch, 848.3 MHz									
1.70	-24.2	V	3.0	37.3	1.0	-60.5	-13.0	-47.5		
2.54	-22.3	V	3.0	36.3	1.0	-57.7	-13.0	-44.7		
3.39	-23.7	V	3.0	35.7	1.0	-58.4	-13.0	-45.4		
1.70	-23.1	H	3.0	37.3	1.0	-59.4	-13.0	-46.4		
2.54	-26.3	H	3.0	36.3	1.0	-61.6	-13.0	-48.6		
3.39	-23.4	H	3.0	35.7	1.0	-58.1	-13.0	-45.1		
Rev. 03.03.09										
Note: No other emissions were detected above the system noise floor.										

UL Verification Services, Inc. Chamber C Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15119834							
Date:		01/30/15							
Test Engineer:		J. Jackson							
Configuration:		EUT w/ AC Adapter + HS, X-position							
Mode:		LTE5 1.4MHz QPSK HARM							
		Chamber	Pre-amplifier		Filter		Limit		
		3m Chamber	T34 8449B		Filter 1		Part 22		
Band									
LTE5									
1.4MHz									
QPSK									
f	SG reading	Ant. Pol.	Distance		Filter	EIRP	Limit	Delta	Notes
GHz	(dBm)	(H/V)	(m)	(dB)	(dB)	(dBm)	(dBm)	(dB)	
Low Ch, 824.7MHz									
1.65	-26.1	V	3.0	37.4	1.0	-62.4	-13.0	-49.4	
2.47	-22.7	V	3.0	36.4	1.0	-58.1	-13.0	-45.1	
3.30	-23.6	V	3.0	35.8	1.0	-58.4	-13.0	-45.4	
1.65	-26.5	H	3.0	37.4	1.0	-62.9	-13.0	-49.9	
2.47	-26.0	H	3.0	36.4	1.0	-61.4	-13.0	-48.4	
3.30	-24.0	H	3.0	35.8	1.0	-58.8	-13.0	-45.8	
Mid Ch, 836.5MHz									
1.673	-24.3	V	3.0	37.3	1.0	-60.6	-13.0	-47.6	
2.510	-23.4	V	3.0	36.4	1.0	-58.7	-13.0	-45.7	
3.346	-23.9	V	3.0	35.8	1.0	-58.7	-13.0	-45.7	
1.673	-25.2	H	3.0	37.3	1.0	-61.5	-13.0	-48.5	
2.510	-25.9	H	3.0	36.4	1.0	-61.3	-13.0	-48.3	
3.346	-23.6	H	3.0	35.8	1.0	-58.3	-13.0	-45.3	
High Ch, 848.3 MHz									
1.70	-24.2	V	3.0	37.3	1.0	-60.5	-13.0	-47.5	
2.54	-23.1	V	3.0	36.3	1.0	-58.5	-13.0	-45.5	
3.39	-23.7	V	3.0	35.7	1.0	-58.4	-13.0	-45.4	
1.70	-23.0	H	3.0	37.3	1.0	-59.3	-13.0	-46.3	
2.54	-25.1	H	3.0	36.3	1.0	-60.5	-13.0	-47.5	
3.39	-23.2	H	3.0	35.7	1.0	-57.9	-13.0	-44.9	

LTE Band 12

**UL Verification Services Chamber B
 Above 1GHz High Frequency Substitution Measurement**

Company: LG Electronics
Project #: 15119834
Date: 01/30/15
Test Engineer: J. Jackson
Configuration: EUT , AC Adapter
Location: Chamber C
Mode: LTE_16QAM Band 12 Harmonics, 10MHz Bandwidth

Band	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch,704									
LTE12	1408.00	-24.6	V	3.0	37.4	1.0	-60.9	-13.0	-47.9	
10MHz	2112.00	-22.9	V	3.0	36.6	1.0	-58.5	-13.0	-45.5	
	2816.00	-22.6	V	3.0	36.4	1.0	-58.0	-13.0	-45.0	
16QAM	1408.00	-12.6	H	3.0	37.4	1.0	-49.0	-13.0	-36.0	
	2112.00	-18.2	H	3.0	36.6	1.0	-53.8	-13.0	-40.8	
	2816.00	-22.5	H	3.0	36.4	1.0	-57.9	-13.0	-44.9	
	Mid Ch,707.5									
	1415.00	-25.5	V	3.0	37.3	1.0	-61.8	-13.0	-48.8	
	2122.50	-23.4	V	3.0	36.6	1.0	-59.0	-13.0	-46.0	
	2830.00	-22.4	V	3.0	36.4	1.0	-57.8	-13.0	-44.8	
	1415.00	-22.8	H	3.0	37.3	1.0	-59.1	-13.0	-46.1	
	2122.50	-23.7	H	3.0	36.6	1.0	-59.2	-13.0	-46.2	
	2830.00	-23.5	H	3.0	36.4	1.0	-58.8	-13.0	-45.8	
	High Ch,711									
	1422.00	-22.4	V	3.0	37.3	1.0	-58.8	-13.0	-45.8	
	2133.00	-17.3	V	3.0	36.6	1.0	-52.9	-13.0	-39.9	
	2844.00	-21.5	V	3.0	36.4	1.0	-56.9	-13.0	-43.9	
	1422.00	-13.9	H	3.0	37.3	1.0	-50.3	-13.0	-37.3	
	2133.00	-19.7	H	3.0	36.6	1.0	-55.3	-13.0	-42.3	
	2844.00	-19.4	H	3.0	36.4	1.0	-54.8	-13.0	-41.8	

**UL Verification Services Chamber B
 Above 1GHz High Frequency Substitution Measurement**

Company: LG Electronics
Project #: 15119834
Date: 01/30/15
Test Engineer: J. Jackson
Configuration: EUT , AC Adapter
Location: Chamber C
Mode: LTE_QPSK Band 12 Harmonics, 10MHz Bandwidth

Band	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	
LTE12	Low Ch,704										
	1408.00	-25.1	V	3.0	37.4	1.0	-61.5	-13.0	-48.5		
	2112.00	-23.0	V	3.0	36.6	1.0	-58.6	-13.0	-45.6		
10MHz	2816.00	-22.3	V	3.0	36.4	1.0	-57.7	-13.0	-44.7		
	QPSK	1408.00	-12.8	H	3.0	37.4	1.0	-49.1	-13.0	-36.1	
		2112.00	-16.2	H	3.0	36.6	1.0	-51.7	-13.0	-38.7	
QPSK	2816.00	-22.6	H	3.0	36.4	1.0	-58.0	-13.0	-45.0		
	Mid Ch,707.5										
	1415.00	-25.8	V	3.0	37.3	1.0	-62.1	-13.0	-49.1		
	2122.50	-23.5	V	3.0	36.6	1.0	-59.1	-13.0	-46.1		
	2830.00	-23.0	V	3.0	36.4	1.0	-58.4	-13.0	-45.4		
	1415.00	-20.0	H	3.0	37.3	1.0	-56.3	-13.0	-43.3		
	2122.50	-23.4	H	3.0	36.6	1.0	-59.0	-13.0	-46.0		
	2830.00	-22.2	H	3.0	36.4	1.0	-57.6	-13.0	-44.6		
	High Ch,711										
	1422.00	-22.7	V	3.0	37.3	1.0	-59.0	-13.0	-46.0		
	2133.00	-18.0	V	3.0	36.6	1.0	-53.6	-13.0	-40.6		
	2844.00	-20.6	V	3.0	36.4	1.0	-56.0	-13.0	-43.0		
	1422.00	-13.9	H	3.0	37.3	1.0	-50.2	-13.0	-37.2		
	2133.00	-19.2	H	3.0	36.6	1.0	-54.8	-13.0	-41.8		
	2844.00	-18.8	H	3.0	36.4	1.0	-54.2	-13.0	-41.2		

**UL Verification Services Chamber B
 Above 1GHz High Frequency Substitution Measurement**

Company: LG Electronics
Project #: 15I19834
Date: 01/30/15
Test Engineer: J. Jackson
Configuration: EUT , AC Adapter
Location: Chamber C
Mode: LTE_16QAM Band 12 Harmonics, 5MHz Bandwidth

Band	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 701.50									
	1403.00	-13.8	V	3.0	37.4	1.0	-50.1	-13.0	-37.1	
LTE12	2104.50	-17.1	V	3.0	36.6	1.0	-52.7	-13.0	-39.7	
5MHz	2806.00	-22.0	V	3.0	36.4	1.0	-57.4	-13.0	-44.4	
16QAM	1403.00	-12.7	H	3.0	37.4	1.0	-49.0	-13.0	-36.0	
	2104.50	-17.0	H	3.0	36.6	1.0	-52.5	-13.0	-39.5	
	2806.00	-21.0	H	3.0	36.4	1.0	-56.3	-13.0	-43.3	
	Mid Ch, 707.50									
	1415.00	-16.0	V	3.0	37.3	1.0	-52.3	-13.0	-39.3	
	2122.50	-19.6	V	3.0	36.6	1.0	-55.1	-13.0	-42.1	
	2830.00	-17.5	V	3.0	36.4	1.0	-52.9	-13.0	-39.9	
	1415.00	-15.5	H	3.0	37.3	1.0	-51.8	-13.0	-38.8	
	2122.50	-24.4	H	3.0	36.6	1.0	-59.9	-13.0	-46.9	
	2830.00	-20.8	H	3.0	36.4	1.0	-56.2	-13.0	-43.2	
	High Ch, 713.50									
	1427.00	-13.1	V	3.0	37.3	1.0	-49.5	-13.0	-36.5	
	2140.50	-21.9	V	3.0	36.6	1.0	-57.4	-13.0	-44.4	
	2854.00	-18.0	V	3.0	36.4	1.0	-53.4	-13.0	-40.4	
	1427.00	-14.6	H	3.0	37.3	1.0	-50.9	-13.0	-37.9	
	2140.50	-19.1	H	3.0	36.6	1.0	-54.7	-13.0	-41.7	
	2854.00	-23.9	H	3.0	36.4	1.0	-59.3	-13.0	-46.3	

**UL Verification Services Chamber B
 Above 1GHz High Frequency Substitution Measurement**

Company: LG Electronics
Project #: 15119834
Date: 01/30/15
Test Engineer: J. Jackson
Configuration: EUT , AC Adapter
Location: Chamber C
Mode: LTE_QPSK Band 12 Harmonics, 5MHz Bandwidth

Band	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 701.50									
	1403.00	-13.9	V	3.0	37.4	1.0	-50.3	-13.0	-37.3	
LTE12	2104.50	-16.5	V	3.0	36.6	1.0	-52.1	-13.0	-39.1	
5MHz	2806.00	-21.9	V	3.0	36.4	1.0	-57.2	-13.0	-44.2	
QPSK	1403.00	-12.7	H	3.0	37.4	1.0	-49.0	-13.0	-36.0	
	2104.50	-16.6	H	3.0	36.6	1.0	-52.2	-13.0	-39.2	
	2806.00	-19.5	H	3.0	36.4	1.0	-54.9	-13.0	-41.9	
	Mid Ch, 707.50									
	1415.00	-15.9	V	3.0	37.3	1.0	-52.2	-13.0	-39.2	
	2122.50	-18.8	V	3.0	36.6	1.0	-54.4	-13.0	-41.4	
	2830.00	-16.7	V	3.0	36.4	1.0	-52.1	-13.0	-39.1	
	1415.00	-15.3	H	3.0	37.3	1.0	-51.6	-13.0	-38.6	
	2122.50	-25.0	H	3.0	36.6	1.0	-60.6	-13.0	-47.6	
	2830.00	-21.3	H	3.0	36.4	1.0	-56.7	-13.0	-43.7	
	High Ch, 713.50									
	1427.00	-13.3	V	3.0	37.3	1.0	-49.6	-13.0	-36.6	
	2140.50	-21.8	V	3.0	36.6	1.0	-57.3	-13.0	-44.3	
	2854.00	-20.6	V	3.0	36.4	1.0	-55.9	-13.0	-42.9	
	1427.00	-14.5	H	3.0	37.3	1.0	-50.8	-13.0	-37.8	
	2140.50	-19.3	H	3.0	36.6	1.0	-54.8	-13.0	-41.8	
	2854.00	-22.1	H	3.0	36.4	1.0	-57.5	-13.0	-44.5	

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

Company: LG Electronics
Project #: 15119834
Date: 02/02/15
Test Engineer: R.Zheng
Configuration: EUT , AC Adapter
Location: Chamber C
Mode: LTE_16QAM Band 12 Harmonics, 3MHz Bandwidth

Band	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
LTE12 3MHz 16QAM	Low Ch, 700.5									
	1401.00	-16.4	V	3.0	37.4	1.0	-52.7	-13.0	-39.7	
	2101.50	-4.7	V	3.0	36.6	1.0	-40.3	-13.0	-27.3	
	2802.00	-20.3	V	3.0	36.4	1.0	-55.7	-13.0	-42.7	
	1401.00	-15.0	H	3.0	37.4	1.0	-51.4	-13.0	-38.4	
	2101.50	-6.3	H	3.0	36.6	1.0	-41.9	-13.0	-28.9	
	2802.00	-20.6	H	3.0	36.4	1.0	-56.0	-13.0	-43.0	
	Mid Ch, 707.50									
	1415.00	-14.2	V	3.0	37.3	1.0	-50.5	-13.0	-37.5	
	2122.00	-6.2	V	3.0	36.6	1.0	-41.8	-13.0	-28.8	
	2830.00	-17.9	V	3.0	36.4	1.0	-53.3	-13.0	-40.3	
	1415.00	-15.3	H	3.0	37.3	1.0	-51.7	-13.0	-38.7	
	2122.00	-5.1	H	3.0	36.6	1.0	-40.7	-13.0	-27.7	
	2830.00	-16.8	H	3.0	36.4	1.0	-52.2	-13.0	-39.2	
	High Ch, 714.5									
	1429.00	-19.9	V	3.0	37.3	1.0	-56.2	-13.0	-43.2	
	2143.50	-8.5	V	3.0	36.6	1.0	-44.0	-13.0	-31.0	
	2858.00	-18.3	V	3.0	36.4	1.0	-53.7	-13.0	-40.7	
	1429.00	-18.1	H	3.0	37.3	1.0	-54.5	-13.0	-41.5	
	2143.50	-8.6	H	3.0	36.6	1.0	-44.1	-13.0	-31.1	
	2858.00	-20.3	H	3.0	36.4	1.0	-55.7	-13.0	-42.7	

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

Company: LG Electronics
Project #: 15119834
Date: 02/02/15
Test Engineer: R.Zheng
Configuration: EUT , AC Adapter
Location: Chamber C
Mode: LTE_QPSK Band 12 Harmonics, 3MHz Bandwidth

Band	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 700.5									
LTE12	1401.00	-16.7	V	3.0	37.4	1.0	-53.1	-13.0	-40.1	
3MHz	2101.50	-4.1	V	3.0	36.6	1.0	-39.7	-13.0	-26.7	
	2802.00	-19.7	V	3.0	36.4	1.0	-55.1	-13.0	-42.1	
QPSK	1401.00	-15.2	H	3.0	37.4	1.0	-51.5	-13.0	-38.5	
	2101.50	-6.7	H	3.0	36.6	1.0	-42.3	-13.0	-29.3	
	2802.00	-20.1	H	3.0	36.4	1.0	-55.5	-13.0	-42.5	
	Mid Ch, 707.50									
	1415.00	-14.0	V	3.0	37.3	1.0	-50.4	-13.0	-37.4	
	2122.00	-6.7	V	3.0	36.6	1.0	-42.2	-13.0	-29.2	
	2830.00	-17.8	V	3.0	36.4	1.0	-53.1	-13.0	-40.1	
	1415.00	-15.1	H	3.0	37.3	1.0	-51.5	-13.0	-38.5	
	2122.00	-5.2	H	3.0	36.6	1.0	-40.7	-13.0	-27.7	
	2830.00	-16.6	H	3.0	36.4	1.0	-52.0	-13.0	-39.0	
	High Ch, 714.5									
	1429.00	-19.7	V	3.0	37.3	1.0	-56.0	-13.0	-43.0	
	2143.50	-8.4	V	3.0	36.6	1.0	-43.9	-13.0	-30.9	
	2858.00	-18.1	V	3.0	36.4	1.0	-53.5	-13.0	-40.5	
	1429.00	-18.4	H	3.0	37.3	1.0	-54.7	-13.0	-41.7	
	2143.50	-8.6	H	3.0	36.6	1.0	-44.1	-13.0	-31.1	
	2858.00	-19.2	H	3.0	36.4	1.0	-54.6	-13.0	-41.6	

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

Company: LG Electronics
Project #: 15119834
Date: 02/02/15
Test Engineer: R.Zheng
Configuration: EUT , AC Adapter
Location: Chamber C
Mode: LTE_16QAM Band 12 Harmonics, 1.4MHz Bandwidth

Band	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
LTE12 1.4MHz 16QAM	Low Ch, 699.7									
	1399.40	-15.5	V	3.0	37.4	1.0	-51.8	-13.0	-38.8	
	2099.10	-3.0	V	3.0	36.6	1.0	-38.5	-13.0	-25.5	
	2798.80	-22.5	V	3.0	36.4	1.0	-57.9	-13.0	-44.9	
	1399.40	-15.1	H	3.0	37.4	1.0	-51.5	-13.0	-38.5	
	2099.10	-4.0	H	3.0	36.6	1.0	-39.5	-13.0	-26.5	
	2798.80	-20.0	H	3.0	36.4	1.0	-55.4	-13.0	-42.4	
	Mid Ch, 707.50									
	1415.00	-12.8	V	3.0	37.3	1.0	-49.1	-13.0	-36.1	
	2122.00	-4.6	V	3.0	36.6	1.0	-40.2	-13.0	-27.2	
	2830.00	-19.2	V	3.0	36.4	1.0	-54.6	-13.0	-41.6	
	1415.00	-13.5	H	3.0	37.3	1.0	-49.8	-13.0	-36.8	
	2122.00	-6.4	H	3.0	36.6	1.0	-42.0	-13.0	-29.0	
	2830.00	-17.3	H	3.0	36.4	1.0	-52.7	-13.0	-39.7	
	High Ch, 715.3									
	1430.60	-16.4	V	3.0	37.3	1.0	-52.8	-13.0	-39.8	
	2145.90	-8.3	V	3.0	36.6	1.0	-43.8	-13.0	-30.8	
	2861.20	-20.5	V	3.0	36.4	1.0	-55.9	-13.0	-42.9	
	1430.60	-18.2	H	3.0	37.3	1.0	-54.6	-13.0	-41.6	
	2145.90	-9.3	H	3.0	36.6	1.0	-44.8	-13.0	-31.8	
	2861.20	-21.9	H	3.0	36.4	1.0	-57.3	-13.0	-44.3	

**UL Verification Services Chamber B
 Above 1GHz High Frequency Substitution Measurement**

Company: LG Electronics
Project #: 15I19834
Date: 02/02/15
Test Engineer: R.Zheng
Configuration: EUT , AC Adapter
Location: Chamber C
Mode: LTE_QPSK Band 12 Harmonics, 1.4MHz Bandwidth

Band	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	
LTE12	Low Ch, 699.7										
	1399.40	-15.6	V	3.0	37.4	1.0	-52.0	-13.0	-39.0		
	2099.10	-4.3	V	3.0	36.6	1.0	-39.9	-13.0	-26.9		
1.4MHz	2798.80	-22.0	V	3.0	36.4	1.0	-57.4	-13.0	-44.4		
	QPSK	1399.40	-15.4	H	3.0	37.4	1.0	-51.7	-13.0	-38.7	
		2099.10	-4.9	H	3.0	36.6	1.0	-40.5	-13.0	-27.5	
2798.80		-22.4	H	3.0	36.4	1.0	-57.8	-13.0	-44.8		
	Mid Ch, 707.50										
	1415.00	-13.1	V	3.0	37.3	1.0	-49.4	-13.0	-36.4		
	2122.00	-6.1	V	3.0	36.6	1.0	-41.7	-13.0	-28.7		
	2830.00	-18.9	V	3.0	36.4	1.0	-54.3	-13.0	-41.3		
	1415.00	-13.8	H	3.0	37.3	1.0	-50.2	-13.0	-37.2		
	2122.00	-5.1	H	3.0	36.6	1.0	-40.7	-13.0	-27.7		
	2830.00	-17.0	H	3.0	36.4	1.0	-52.4	-13.0	-39.4		
	High Ch, 715.3										
	1430.60	-16.5	V	3.0	37.3	1.0	-52.8	-13.0	-39.8		
	2145.90	-8.2	V	3.0	36.6	1.0	-43.8	-13.0	-30.8		
	2861.20	-20.2	V	3.0	36.4	1.0	-55.6	-13.0	-42.6		
	1430.60	-17.8	H	3.0	37.3	1.0	-54.2	-13.0	-41.2		
	2145.90	-9.0	H	3.0	36.6	1.0	-44.6	-13.0	-31.6		
	2861.20	-21.3	H	3.0	36.4	1.0	-56.7	-13.0	-43.7		

LTE Band 25

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15119834							
Date:		1/29/2015							
Test Engineer:		D. Sblendorio							
Configuration:		EUT/ AC Charger/ Headset							
Location:		Chamber C							
Mode:		LTE_16QAM Band 25 Harmonics, 20MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1860									
3720.00	-11.0	V	3.0	35.8	1.0	-45.8	-13.0	-32.8	
5580.00	-7.4	V	3.0	35.5	1.0	-41.9	-13.0	-28.9	
7440.00	-1.4	V	3.0	35.7	1.0	-36.2	-13.0	-23.2	
LTE25									
3720.00	-10.8	H	3.0	35.8	1.0	-45.6	-13.0	-32.6	
20MHz									
5580.00	-6.5	H	3.0	35.5	1.0	-41.0	-13.0	-28.0	
7440.00	-0.5	H	3.0	35.7	1.0	-35.2	-13.0	-22.2	
Mid Ch, 1882.5									
16QAM									
3765.00	-9.9	V	3.0	35.8	1.0	-44.7	-13.0	-31.7	
5647.50	-7.1	V	3.0	35.5	1.0	-41.5	-13.0	-28.5	
7530.00	-2.5	V	3.0	35.7	1.0	-37.2	-13.0	-24.2	
3765.00	-10.5	H	3.0	35.8	1.0	-45.3	-13.0	-32.3	
5647.50	-5.1	H	3.0	35.5	1.0	-39.6	-13.0	-26.6	
7530.00	-1.8	H	3.0	35.7	1.0	-36.5	-13.0	-23.5	
High Ch, 1905									
3810.00	-9.7	V	3.0	35.8	1.0	-44.5	-13.0	-31.5	
5715.00	-6.9	V	3.0	35.5	1.0	-41.4	-13.0	-28.4	
7620.00	-0.8	V	3.0	35.8	1.0	-35.5	-13.0	-22.5	
3810.00	-10.4	H	3.0	35.8	1.0	-45.2	-13.0	-32.2	
5715.00	-6.6	H	3.0	35.5	1.0	-41.1	-13.0	-28.1	
7620.00	-0.9	H	3.0	35.8	1.0	-35.6	-13.0	-22.6	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15119834							
Date:		1/29/2015							
Test Engineer:		D. Sblendorio							
Configuration:		EUT/ AC Charger/ Headset							
Location:		Chamber C							
Mode:		LTE_QPSK Band 25 Harmonics, 20MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band									
Low Ch, 1860									
3720.00	-9.7	V	3.0	35.8	1.0	-44.5	-13.0	-31.5	
5580.00	-6.7	V	3.0	35.5	1.0	-41.2	-13.0	-28.2	
LTE25									
7440.00	-1.6	V	3.0	35.7	1.0	-36.3	-13.0	-23.3	
3720.00	-9.7	H	3.0	35.8	1.0	-44.6	-13.0	-31.6	
5580.00	-5.7	H	3.0	35.5	1.0	-40.2	-13.0	-27.2	
20MHz									
7440.00	-1.3	H	3.0	35.7	1.0	-36.0	-13.0	-23.0	
QPSK									
Mid Ch, 1882.5									
3765.00	-9.6	V	3.0	35.8	1.0	-44.4	-13.0	-31.4	
5647.50	-7.5	V	3.0	35.5	1.0	-42.0	-13.0	-29.0	
7530.00	-2.2	V	3.0	35.7	1.0	-36.9	-13.0	-23.9	
3765.00	-10.4	H	3.0	35.8	1.0	-45.2	-13.0	-32.2	
5647.50	-5.3	H	3.0	35.5	1.0	-39.8	-13.0	-26.8	
7530.00	-0.8	H	3.0	35.7	1.0	-35.6	-13.0	-22.6	
High Ch, 1905									
3810.00	-9.5	V	3.0	35.8	1.0	-44.3	-13.0	-31.3	
5715.00	-7.1	V	3.0	35.5	1.0	-41.6	-13.0	-28.6	
7620.00	-1.1	V	3.0	35.8	1.0	-35.9	-13.0	-22.9	
3810.00	-10.4	H	3.0	35.8	1.0	-45.1	-13.0	-32.1	
5715.00	-6.2	H	3.0	35.5	1.0	-40.7	-13.0	-27.7	
7620.00	-0.7	H	3.0	35.8	1.0	-35.4	-13.0	-22.4	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15119834							
Date:		1/29/2015							
Test Engineer:		D. Sblendorio							
Configuration:		EUT/ AC Charger/ Headset							
Location:		Chamber C							
Mode:		LTE_16QAM Band 25 Harmonics, 15MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band									
LTE25									
15MHz									
16QAM									
Low Ch, 1857.5									
3715.00	-10.1	V	3.0	35.8	1.0	-44.9	-13.0	-31.9	
5572.50	-7.1	V	3.0	35.5	1.0	-41.6	-13.0	-28.6	
7430.00	-2.0	V	3.0	35.7	1.0	-36.7	-13.0	-23.7	
3715.00	-11.4	H	3.0	35.8	1.0	-46.2	-13.0	-33.2	
5572.50	-7.3	H	3.0	35.5	1.0	-41.8	-13.0	-28.8	
7430.00	-0.9	H	3.0	35.7	1.0	-35.6	-13.0	-22.6	
Mid Ch, 1882.5									
3815.00	-10.4	V	3.0	35.8	1.0	-45.2	-13.0	-32.2	
5722.50	-7.3	V	3.0	35.5	1.0	-41.8	-13.0	-28.8	
7630.00	-2.2	V	3.0	35.7	1.0	-37.0	-13.0	-24.0	
3815.00	-9.5	H	3.0	35.8	1.0	-44.3	-13.0	-31.3	
5722.50	-6.5	H	3.0	35.5	1.0	-41.0	-13.0	-28.0	
7630.00	-1.8	H	3.0	35.7	1.0	-36.5	-13.0	-23.5	
High Ch, 1907.5									
3815.00	-10.2	V	3.0	35.8	1.0	-45.0	-13.0	-32.0	
5722.50	-6.5	V	3.0	35.5	1.0	-41.0	-13.0	-28.0	
7630.00	-1.2	V	3.0	35.8	1.0	-36.0	-13.0	-23.0	
3815.00	-9.4	H	3.0	35.8	1.0	-44.2	-13.0	-31.2	
5722.50	-6.1	H	3.0	35.5	1.0	-40.6	-13.0	-27.6	
7630.00	-0.2	H	3.0	35.8	1.0	-35.0	-13.0	-22.0	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement											
Company:		LG Electronics									
Project #:		15119834									
Date:		1/29/2015									
Test Engineer:		D. Sblendorio									
Configuration:		EUT/ AC Charger/ Headset									
Location:		Chamber C									
Mode:		LTE_QPSK Band 25 Harmonics, 15MHz Bandwidth									
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	
Band	Low Ch, 1857.5										
		3715.00	-10.2	V	3.0	35.8	1.0	-45.1	-13.0	-32.1	
		5572.50	-7.2	V	3.0	35.5	1.0	-41.6	-13.0	-28.6	
	LTE25	7430.00	-1.7	V	3.0	35.7	1.0	-36.5	-13.0	-23.5	
		3715.00	-9.0	H	3.0	35.8	1.0	-43.9	-13.0	-30.9	
	15MHz	5572.50	-7.6	H	3.0	35.5	1.0	-42.0	-13.0	-29.0	
7430.00		-0.6	H	3.0	35.7	1.0	-35.3	-13.0	-22.3		
QPSK	Mid Ch, 1882.5										
		3765.00	-9.6	V	3.0	35.8	1.0	-44.5	-13.0	-31.5	
		5647.50	-7.6	V	3.0	35.5	1.0	-42.1	-13.0	-29.1	
		7530.00	-2.3	V	3.0	35.7	1.0	-37.0	-13.0	-24.0	
		3765.00	-10.5	H	3.0	35.8	1.0	-45.3	-13.0	-32.3	
		5647.50	-6.9	H	3.0	35.5	1.0	-41.3	-13.0	-28.3	
	7530.00	-1.0	H	3.0	35.7	1.0	-35.8	-13.0	-22.8		
	High Ch, 1907.5										
	3815.00	-10.0	V	3.0	35.8	1.0	-44.8	-13.0	-31.8		
	5722.50	-7.1	V	3.0	35.5	1.0	-41.6	-13.0	-28.6		
	7630.00	-1.3	V	3.0	35.8	1.0	-36.1	-13.0	-23.1		
	3815.00	-9.5	H	3.0	35.8	1.0	-44.3	-13.0	-31.3		
	5722.50	-5.9	H	3.0	35.5	1.0	-40.4	-13.0	-27.4		
	7630.00	-0.1	H	3.0	35.8	1.0	-34.9	-13.0	-21.9		

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15119834							
Date:		1/29/2015							
Test Engineer:		D. Sblendorio							
Configuration:		EUT/ AC Charger/ Headset							
Location:		Chamber C							
Mode:		LTE_16QAM Band 25 Harmonics, 10MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1855									
3710.00	-10.7	V	3.0	35.9	1.0	-45.5	-13.0	-32.5	
5565.00	-7.3	V	3.0	35.5	1.0	-41.8	-13.0	-28.8	
7420.00	-2.2	V	3.0	35.7	1.0	-36.9	-13.0	-23.9	
3710.00	-10.0	H	3.0	35.9	1.0	-44.9	-13.0	-31.9	
5565.00	-6.6	H	3.0	35.5	1.0	-41.1	-13.0	-28.1	
7420.00	-1.2	H	3.0	35.7	1.0	-35.9	-13.0	-22.9	
Mid Ch, 1882.5									
3765.00	-9.6	V	3.0	35.8	1.0	-44.4	-13.0	-31.4	
5647.50	-7.1	V	3.0	35.5	1.0	-41.6	-13.0	-28.6	
7530.00	-2.2	V	3.0	35.7	1.0	-37.0	-13.0	-24.0	
3765.00	-11.3	H	3.0	35.8	1.0	-46.2	-13.0	-33.2	
5647.50	-6.9	H	3.0	35.5	1.0	-41.4	-13.0	-28.4	
7530.00	-1.2	H	3.0	35.7	1.0	-36.0	-13.0	-23.0	
High Ch, 1910									
3820.00	-11.1	V	3.0	35.8	1.0	-45.9	-13.0	-32.9	
5730.00	-6.4	V	3.0	35.5	1.0	-40.9	-13.0	-27.9	
7640.00	-1.3	V	3.0	35.8	1.0	-36.1	-13.0	-23.1	
3820.00	-10.3	H	3.0	35.8	1.0	-45.0	-13.0	-32.0	
5730.00	-6.1	H	3.0	35.5	1.0	-40.6	-13.0	-27.6	
7640.00	0.0	H	3.0	35.8	1.0	-34.7	-13.0	-21.7	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15119834							
Date:		1/29/2015							
Test Engineer:		D. Sblendorio							
Configuration:		EUT/ AC Charger/ Headset							
Location:		Chamber C							
Mode:		LTE_QPSK Band 25 Harmonics, 10MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1855									
3710.00	-10.3	V	3.0	35.9	1.0	-45.2	-13.0	-32.2	
5565.00	-7.5	V	3.0	35.5	1.0	-42.0	-13.0	-29.0	
7420.00	-0.8	V	3.0	35.7	1.0	-35.5	-13.0	-22.5	
3710.00	-10.8	H	3.0	35.9	1.0	-45.6	-13.0	-32.6	
5565.00	-6.9	H	3.0	35.5	1.0	-41.4	-13.0	-28.4	
7420.00	-1.5	H	3.0	35.7	1.0	-36.2	-13.0	-23.2	
Mid Ch, 1882.5									
3765.00	-10.1	V	3.0	35.8	1.0	-44.9	-13.0	-31.9	
5647.50	-6.8	V	3.0	35.5	1.0	-41.3	-13.0	-28.3	
7530.00	-2.5	V	3.0	35.7	1.0	-37.3	-13.0	-24.3	
3765.00	-10.7	H	3.0	35.8	1.0	-45.5	-13.0	-32.5	
5647.50	-7.1	H	3.0	35.5	1.0	-41.6	-13.0	-28.6	
7530.00	-1.5	H	3.0	35.7	1.0	-36.3	-13.0	-23.3	
High Ch, 1910									
3820.00	-9.8	V	3.0	35.8	1.0	-44.6	-13.0	-31.6	
5730.00	-6.7	V	3.0	35.5	1.0	-41.2	-13.0	-28.2	
7640.00	-1.7	V	3.0	35.8	1.0	-36.5	-13.0	-23.5	
3820.00	-9.6	H	3.0	35.8	1.0	-44.4	-13.0	-31.4	
5730.00	-5.7	H	3.0	35.5	1.0	-40.2	-13.0	-27.2	
7640.00	-1.1	H	3.0	35.8	1.0	-35.8	-13.0	-22.8	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15119834							
Date:		1/29/2015							
Test Engineer:		D. Sblendorio							
Configuration:		EUT/ AC Charger/ Headset							
Location:		Chamber C							
Mode:		LTE_16QAM Band 25 Harmonics, 5MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1852.5									
Band	3705.00	-9.9	V	3.0	35.9	1.0	-44.7	-13.0	-31.7
	5557.50	-7.3	V	3.0	35.5	1.0	-41.8	-13.0	-28.8
LTE25	7410.00	-1.6	V	3.0	35.7	1.0	-36.4	-13.0	-23.4
	3705.00	-10.6	H	3.0	35.9	1.0	-45.4	-13.0	-32.4
	5557.50	-6.9	H	3.0	35.5	1.0	-41.4	-13.0	-28.4
5MHz	7410.00	-1.2	H	3.0	35.7	1.0	-36.0	-13.0	-23.0
Mid Ch, 1882.5									
16QAM	3765.00	-10.5	V	3.0	35.8	1.0	-45.3	-13.0	-32.3
	5647.50	-7.0	V	3.0	35.5	1.0	-41.5	-13.0	-28.5
	7530.00	-1.8	V	3.0	35.7	1.0	-36.6	-13.0	-23.6
	3765.00	-9.5	H	3.0	35.8	1.0	-44.3	-13.0	-31.3
	5647.50	-6.7	H	3.0	35.5	1.0	-41.2	-13.0	-28.2
	7530.00	-1.1	H	3.0	35.7	1.0	-35.8	-13.0	-22.8
High Ch, 1912.5									
	3825.00	-9.8	V	3.0	35.8	1.0	-44.6	-13.0	-31.6
	5737.50	-6.5	V	3.0	35.5	1.0	-41.0	-13.0	-28.0
	7650.00	-1.6	V	3.0	35.8	1.0	-36.4	-13.0	-23.4
	3825.00	-9.9	H	3.0	35.8	1.0	-44.7	-13.0	-31.7
	5737.50	-6.0	H	3.0	35.5	1.0	-40.5	-13.0	-27.5
	7650.00	-0.7	H	3.0	35.8	1.0	-35.5	-13.0	-22.5

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I19834							
Date:		1/29/2015							
Test Engineer:		D. Sblendorio							
Configuration:		EUT/ AC Charger/ Headset							
Location:		Chamber C							
Mode:		LTE_QPSK Band 25 Harmonics, 5MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band									
Low Ch, 1852.5									
3705.00	-10.4	V	3.0	35.9	1.0	-45.2	-13.0	-32.2	
5557.50	-7.4	V	3.0	35.5	1.0	-41.9	-13.0	-28.9	
LTE25									
7410.00	-1.9	V	3.0	35.7	1.0	-36.6	-13.0	-23.6	
3705.00	-9.6	H	3.0	35.9	1.0	-44.5	-13.0	-31.5	
5557.50	-6.2	H	3.0	35.5	1.0	-40.6	-13.0	-27.6	
5MHz									
7410.00	0.3	H	3.0	35.7	1.0	-34.4	-13.0	-21.4	
QPSK									
Mid Ch, 1882.5									
3765.00	-9.8	V	3.0	35.8	1.0	-44.6	-13.0	-31.6	
5647.50	-5.7	V	3.0	35.5	1.0	-40.2	-13.0	-27.2	
7530.00	-2.2	V	3.0	35.7	1.0	-36.9	-13.0	-23.9	
3765.00	-10.9	H	3.0	35.8	1.0	-45.7	-13.0	-32.7	
5647.50	-5.3	H	3.0	35.5	1.0	-39.8	-13.0	-26.8	
7530.00	-0.8	H	3.0	35.7	1.0	-35.5	-13.0	-22.5	
High Ch, 1912.5									
3825.00	-9.9	V	3.0	35.8	1.0	-44.6	-13.0	-31.6	
5737.50	-6.7	V	3.0	35.5	1.0	-41.2	-13.0	-28.2	
7650.00	-1.3	V	3.0	35.8	1.0	-36.0	-13.0	-23.0	
3825.00	-10.5	H	3.0	35.8	1.0	-45.2	-13.0	-32.2	
5737.50	-6.3	H	3.0	35.5	1.0	-40.8	-13.0	-27.8	
7650.00	-0.4	H	3.0	35.8	1.0	-35.2	-13.0	-22.2	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I19834							
Date:		1/29/2015							
Test Engineer:		D. Sblendorio							
Configuration:		EUT/ AC Charger/ Headset							
Location:		Chamber C							
Mode:		LTE_16QAM Band 25 Harmonics, 3MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band									
Low Ch, 1851.5									
3703.00	-12.0	V	3.0	35.9	1.0	-46.9	-13.0	-33.9	
5554.50	-10.4	V	3.0	35.5	1.0	-44.9	-13.0	-31.9	
LTE25									
7406.00	-5.4	V	3.0	35.7	1.0	-40.1	-13.0	-27.1	
3703.00	-9.4	H	3.0	35.9	1.0	-44.3	-13.0	-31.3	
5554.50	-6.5	H	3.0	35.5	1.0	-41.0	-13.0	-28.0	
3MHz									
7406.00	-0.6	H	3.0	35.7	1.0	-35.3	-13.0	-22.3	
16QAM									
Mid Ch, 1882.5									
3765.00	-1.1	V	3.0	35.8	1.0	-35.9	-13.0	-22.9	
5647.50	2.3	V	3.0	35.5	1.0	-32.2	-13.0	-19.2	
7530.00	8.2	V	3.0	35.7	1.0	-26.6	-13.0	-13.6	
3765.00	-10.2	H	3.0	35.8	1.0	-45.0	-13.0	-32.0	
5647.50	-6.2	H	3.0	35.5	1.0	-40.7	-13.0	-27.7	
7530.00	-1.6	H	3.0	35.7	1.0	-36.3	-13.0	-23.3	
High Ch, 1913.5									
3827.00	-9.5	V	3.0	35.8	1.0	-44.3	-13.0	-31.3	
5740.50	-6.3	V	3.0	35.5	1.0	-40.8	-13.0	-27.8	
7654.00	-0.6	V	3.0	35.8	1.0	-35.4	-13.0	-22.4	
3827.00	-9.9	H	3.0	35.8	1.0	-44.7	-13.0	-31.7	
5740.50	-5.5	H	3.0	35.5	1.0	-40.0	-13.0	-27.0	
7654.00	0.1	H	3.0	35.8	1.0	-34.7	-13.0	-21.7	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15119834							
Date:		1/29/2015							
Test Engineer:		D. Sblendorio							
Configuration:		EUT/ AC Charger/ Headset							
Location:		Chamber C							
Mode:		LTE_QPSK Band 25 Harmonics, 3MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band									
Low Ch, 1851.5									
3703.00	-11.5	V	3.0	35.9	1.0	-46.4	-13.0	-33.4	
5554.50	-11.1	V	3.0	35.5	1.0	-45.6	-13.0	-32.6	
LTE25									
7406.00	-5.5	V	3.0	35.7	1.0	-40.2	-13.0	-27.2	
3703.00	-10.5	H	3.0	35.9	1.0	-45.4	-13.0	-32.4	
5554.50	-6.5	H	3.0	35.5	1.0	-41.0	-13.0	-28.0	
3MHz									
7406.00	-1.3	H	3.0	35.7	1.0	-36.0	-13.0	-23.0	
Mid Ch, 1882.5									
3765.00	-0.5	V	3.0	35.8	1.0	-35.3	-13.0	-22.3	
5647.50	2.5	V	3.0	35.5	1.0	-32.0	-13.0	-19.0	
7530.00	7.2	V	3.0	35.7	1.0	-27.5	-13.0	-14.5	
3765.00	-10.0	H	3.0	35.8	1.0	-44.8	-13.0	-31.8	
5647.50	-5.3	H	3.0	35.5	1.0	-39.8	-13.0	-26.8	
7530.00	-0.6	H	3.0	35.7	1.0	-35.4	-13.0	-22.4	
QPSK									
High Ch, 1913.5									
3827.00	-9.4	V	3.0	35.8	1.0	-44.1	-13.0	-31.1	
5740.50	-5.7	V	3.0	35.5	1.0	-40.2	-13.0	-27.2	
7654.00	-1.3	V	3.0	35.8	1.0	-36.0	-13.0	-23.0	
3827.00	-9.9	H	3.0	35.8	1.0	-44.7	-13.0	-31.7	
5740.50	-5.5	H	3.0	35.5	1.0	-40.0	-13.0	-27.0	
7654.00	-0.6	H	3.0	35.8	1.0	-35.3	-13.0	-22.3	

UL Verification Services, Inc.										
Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15119834								
Date:		1/27/2015								
Test Engineer:		D. Sblendorio								
Configuration:		EUT/ AC Charger/ Headset								
Location:		Chamber C								
Mode:		LTE_16QAM Band 25 Harmonics, 1.4MHz Bandwidth								
Band	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 1850.7									
	3701.40	-9.7	V	3.0	35.9	1.0	-44.5	-13.0	-31.5	
	5552.10	-7.4	V	3.0	35.5	1.0	-41.9	-13.0	-28.9	
	7402.80	-0.8	V	3.0	35.7	1.0	-35.5	-13.0	-22.5	
LTE25	3701.40	-10.6	H	3.0	35.9	1.0	-45.4	-13.0	-32.4	
1.4MHz	5552.10	-7.0	H	3.0	35.5	1.0	-41.5	-13.0	-28.5	
	7402.80	-0.2	H	3.0	35.7	1.0	-34.9	-13.0	-21.9	
16QAM	Mid Ch, 1882.5									
	3765.00	-9.9	V	3.0	35.8	1.0	-44.7	-13.0	-31.7	
	5647.50	-7.1	V	3.0	35.5	1.0	-41.6	-13.0	-28.6	
	7530.00	-2.2	V	3.0	35.7	1.0	-37.0	-13.0	-24.0	
	3765.00	-9.6	H	3.0	35.8	1.0	-44.4	-13.0	-31.4	
	5647.50	-4.3	H	3.0	35.5	1.0	-38.8	-13.0	-25.8	
	7530.00	-1.0	H	3.0	35.7	1.0	-35.7	-13.0	-22.7	
	High Ch, 1914.3									
	3828.60	-9.3	V	3.0	35.8	1.0	-44.0	-13.0	-31.0	
	5742.90	-5.8	V	3.0	35.5	1.0	-40.3	-13.0	-27.3	
	7657.20	-0.9	V	3.0	35.8	1.0	-35.6	-13.0	-22.6	
	3828.60	-11.1	H	3.0	35.8	1.0	-45.9	-13.0	-32.9	
	5742.90	-6.8	H	3.0	35.5	1.0	-41.3	-13.0	-28.3	
	7657.20	0.6	H	3.0	35.8	1.0	-34.2	-13.0	-21.2	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15119834							
Date:		1/27/2015							
Test Engineer:		D. Sblendorio							
Configuration:		EUT/ AC Charger/ Headset							
Location:		Chamber C							
Mode:		LTE_QPSK Band 25 Harmonics, 1.4MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band									
LTE25									
1.4MHz									
QPSK									
Low Ch, 1850.7									
3701.40	-8.2	V	3.0	35.9	1.0	-43.1	-13.0	-30.1	
5552.10	-6.4	V	3.0	35.5	1.0	-40.9	-13.0	-27.9	
7402.80	-2.0	V	3.0	35.7	1.0	-36.7	-13.0	-23.7	
3701.40	-9.3	H	3.0	35.9	1.0	-44.2	-13.0	-31.2	
5552.10	-7.3	H	3.0	35.5	1.0	-41.7	-13.0	-28.7	
7402.80	-1.0	H	3.0	35.7	1.0	-35.7	-13.0	-22.7	
Mid Ch, 1882.5									
3765.00	-10.5	V	3.0	35.8	1.0	-45.3	-13.0	-32.3	
5647.50	-7.0	V	3.0	35.5	1.0	-41.5	-13.0	-28.5	
7530.00	-1.9	V	3.0	35.7	1.0	-36.6	-13.0	-23.6	
3765.00	-9.2	H	3.0	35.8	1.0	-44.0	-13.0	-31.0	
5647.50	-4.9	H	3.0	35.5	1.0	-39.4	-13.0	-26.4	
7530.00	-1.1	H	3.0	35.7	1.0	-35.8	-13.0	-22.8	
High Ch, 1914.3									
3828.60	-10.1	V	3.0	35.8	1.0	-44.9	-13.0	-31.9	
5742.90	-6.7	V	3.0	35.5	1.0	-41.2	-13.0	-28.2	
7657.20	-0.1	V	3.0	35.8	1.0	-34.8	-13.0	-21.8	
3828.60	-10.5	H	3.0	35.8	1.0	-45.3	-13.0	-32.3	
5742.90	-6.2	H	3.0	35.5	1.0	-40.7	-13.0	-27.7	
7657.20	-0.6	H	3.0	35.8	1.0	-35.3	-13.0	-22.3	

LTE Band 26

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I19834							
Date:		2/2/2015							
Test Engineer:		R.Zheng							
Configuration:		EUT , AC Adapter							
Location:		Chamber B							
Mode:		LTE_16QAM Band 26 Harmonics, 15MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 821.5									
1643.00	-22.0	V	3.0	37.0	1.0	-58.0	-13.0	-45.0	
2464.50	-12.0	V	3.0	36.4	1.0	-47.4	-13.0	-34.4	
3286.00	-24.7	V	3.0	36.2	1.0	-59.8	-13.0	-46.8	
15MHz									
1643.00	-24.0	H	3.0	37.0	1.0	-60.1	-13.0	-47.1	
2464.50	-11.2	H	3.0	36.4	1.0	-46.6	-13.0	-33.6	
3286.00	-24.6	H	3.0	36.2	1.0	-59.8	-13.0	-46.8	
16QAM									
Mid Ch, 831.5									
1663.00	-19.6	V	3.0	37.0	1.0	-55.6	-13.0	-42.6	
2494.50	-11.2	V	3.0	36.4	1.0	-46.6	-13.0	-33.6	
3326.00	-21.4	V	3.0	36.1	1.0	-56.5	-13.0	-43.5	
1663.00	-20.6	H	3.0	37.0	1.0	-56.6	-13.0	-43.6	
2494.50	-15.1	H	3.0	36.4	1.0	-50.5	-13.0	-37.5	
3326.00	-24.7	H	3.0	36.1	1.0	-59.8	-13.0	-46.8	
High Ch, 841.5									
1683.00	-18.8	V	3.0	37.0	1.0	-54.8	-13.0	-41.8	
2524.50	-19.2	V	3.0	36.4	1.0	-54.6	-13.0	-41.6	
3366.00	-24.6	V	3.0	36.1	1.0	-59.7	-13.0	-46.7	
1683.00	-18.6	H	3.0	37.0	1.0	-54.6	-13.0	-41.6	
2524.50	-14.0	H	3.0	36.4	1.0	-49.4	-13.0	-36.4	
3366.00	-24.9	H	3.0	36.1	1.0	-60.0	-13.0	-47.0	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15119834								
Date:		2/2/2015								
Test Engineer:		R.Zheng								
Configuration:		EUT , AC Adapter								
Location:		Chamber B								
Mode:		LTE_QPSK Band 26 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, 821.5									
	1643.00	-23.1	V	3.0	37.0	1.0	-59.1	-13.0	-46.1	
LTE26	2464.50	-10.8	V	3.0	36.4	1.0	-46.2	-13.0	-33.2	
	3286.00	-25.0	V	3.0	36.2	1.0	-60.1	-13.0	-47.1	
15MHz	1643.00	-24.5	H	3.0	37.0	1.0	-60.6	-13.0	-47.6	
	2464.50	-10.7	H	3.0	36.4	1.0	-46.1	-13.0	-33.1	
	3286.00	-24.3	H	3.0	36.2	1.0	-59.5	-13.0	-46.5	
QPSK	Mid Ch, 831.5									
	1663.00	-19.2	V	3.0	37.0	1.0	-55.2	-13.0	-42.2	
	2494.50	-12.4	V	3.0	36.4	1.0	-47.8	-13.0	-34.8	
	3326.00	-23.0	V	3.0	36.1	1.0	-58.1	-13.0	-45.1	
	1663.00	-20.0	H	3.0	37.0	1.0	-56.0	-13.0	-43.0	
	2494.50	-14.8	H	3.0	36.4	1.0	-50.2	-13.0	-37.2	
	3326.00	-25.0	H	3.0	36.1	1.0	-60.1	-13.0	-47.1	
	High Ch, 841.5									
	1683.00	-18.7	V	3.0	37.0	1.0	-54.7	-13.0	-41.7	
	2524.50	-19.0	V	3.0	36.4	1.0	-54.4	-13.0	-41.4	
	3366.00	-24.8	V	3.0	36.1	1.0	-59.9	-13.0	-46.9	
	1683.00	-18.9	H	3.0	37.0	1.0	-54.9	-13.0	-41.9	
	2524.50	-13.4	H	3.0	36.4	1.0	-48.8	-13.0	-35.8	
	3366.00	-24.5	H	3.0	36.1	1.0	-59.6	-13.0	-46.6	

UL Verification Services, Inc. Chamber C Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I19834								
Date:		01/30/15								
Test Engineer:		James Jackson								
Configuration:		EUT w/ AC Adaptor + HS, X-pos								
Mode:		LTE26 10MHz 16QAM HARM								
		Chamber			Pre-amplifier		Filter		Limit	
		3m Chamber			T34 8449B		Filter 1		Part 22	
Band	f	SG reading	Ant. Pol.	Distance	Preamp	Filter	EIRP	Limit	Delta	Notes
LTE26	GHz	(dBm)	(H/V)	(m)	(dB)	(dB)	(dBm)	(dBm)	(dB)	
10MHz	Low Ch, 819MHz									
16QAM	1.638	-22.5	V	3.0	37.4	1.0	-58.9	-13.0	-45.9	
	2.457	-22.3	V	3.0	36.4	1.0	-57.7	-13.0	-44.7	
	3.276	-23.1	V	3.0	35.8	1.0	-57.9	-13.0	-44.9	
	1.638	-24.9	H	3.0	37.4	1.0	-61.3	-13.0	-48.3	
	2.457	-25.9	H	3.0	36.4	1.0	-61.3	-13.0	-48.3	
	3.276	-23.5	H	3.0	35.8	1.0	-58.4	-13.0	-45.4	
	Mid Ch, 831.5MHz									
	1.663	-26.3	V	3.0	37.4	1.0	-62.7	-13.0	-49.7	
	2.495	-23.1	V	3.0	36.4	1.0	-58.4	-13.0	-45.4	
	3.326	-23.5	V	3.0	35.8	1.0	-58.3	-13.0	-45.3	
	1.663	-27.8	H	3.0	37.4	1.0	-64.2	-13.0	-51.2	
	2.495	-23.8	H	3.0	36.4	1.0	-59.2	-13.0	-46.2	
	3.326	-23.6	H	3.0	35.8	1.0	-58.4	-13.0	-45.4	
	High Ch, 844MHz									
	1.688	-24.3	V	3.0	37.3	1.0	-60.7	-13.0	-47.7	
	2.532	-22.5	V	3.0	36.3	1.0	-57.8	-13.0	-44.8	
	3.376	-23.2	V	3.0	35.7	1.0	-57.9	-13.0	-44.9	
	1.688	-23.6	H	3.0	37.3	1.0	-60.0	-13.0	-47.0	
	2.532	-25.4	H	3.0	36.3	1.0	-60.7	-13.0	-47.7	
	3.376	-23.4	H	3.0	35.7	1.0	-58.1	-13.0	-45.1	

UL Verification Services, Inc. Chamber C Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I19834								
Date:		01/30/15								
Test Engineer:		James Jackson								
Configuration:		EUT w/ AC Adaptor + HS, X-pos								
Mode:		LTE26 10MHz QPSK HARM								
		Chamber		Pre-amplifier		Filter		Limit		
		3m Chamber		T34 8449B		Filter 1		Part 22		
Band		f	SG reading	Ant. Pol.	Distance	Filter	EIRP	Limit	Delta	Notes
LTE26		GHz	(dBm)	(H/V)	(m)	(dB)	(dBm)	(dBm)	(dB)	
10MHz		Low Ch, 819MHz								
QPSK		1.638	-22.5	V	3.0	37.4	1.0	-58.9	-13.0	-45.9
		2.457	-22.6	V	3.0	36.4	1.0	-58.0	-13.0	-45.0
		3.276	-23.6	V	3.0	35.8	1.0	-58.4	-13.0	-45.4
		1.638	-24.6	H	3.0	37.4	1.0	-61.0	-13.0	-48.0
		2.457	-25.5	H	3.0	36.4	1.0	-60.9	-13.0	-47.9
		3.276	-24.1	H	3.0	35.8	1.0	-58.9	-13.0	-45.9
		Mid Ch, 831.5MHz								
		1.663	-25.6	V	3.0	37.4	1.0	-62.0	-13.0	-49.0
		2.495	-19.4	V	3.0	36.4	1.0	-54.8	-13.0	-41.8
		3.326	-24.1	V	3.0	35.8	1.0	-58.8	-13.0	-45.8
		1.663	-27.7	H	3.0	37.4	1.0	-64.0	-13.0	-51.0
		2.495	-24.5	H	3.0	36.4	1.0	-59.8	-13.0	-46.8
		3.326	-23.1	H	3.0	35.8	1.0	-57.9	-13.0	-44.9
		High Ch, 844 MHz								
		1.688	-23.5	V	3.0	37.3	1.0	-59.9	-13.0	-46.9
		2.532	-23.0	V	3.0	36.3	1.0	-58.3	-13.0	-45.3
		3.376	-23.2	V	3.0	35.7	1.0	-57.9	-13.0	-44.9
		1.688	-24.7	H	3.0	37.3	1.0	-61.0	-13.0	-48.0
		2.532	-25.9	H	3.0	36.3	1.0	-61.3	-13.0	-48.3
		3.376	-24.1	H	3.0	35.7	1.0	-58.8	-13.0	-45.8

UL Verification Services, Inc. Chamber C Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I19834								
Date:		01/30/15								
Test Engineer:		James Jackson								
Configuration:		EUT w/ AC Adaptor + HS, X-pos								
Mode:		LTE26 5MHz 16QAM HARM								
		Chamber		Pre-amplifier		Filter		Limit		
		3m Chamber		T34 8449B		Filter 1		Part 22		
Band	f	SG reading	Ant. Pol.	Distance	Preamp	Filter	EIRP	Limit	Delta	Notes
LTE26	GHz	(dBm)	(H/V)	(m)	(dB)	(dB)	(dBm)	(dBm)	(dB)	
5MHz	Low Ch, 816.5MHz									
16QAM	1.633	-26.5	V	3.0	37.4	1.0	-62.9	-13.0	-49.9	
	2.450	-23.7	V	3.0	36.4	1.0	-59.2	-13.0	-46.2	
	3.266	-23.7	V	3.0	35.8	1.0	-58.6	-13.0	-45.6	
	1.633	-26.7	H	3.0	37.4	1.0	-63.1	-13.0	-50.1	
	2.450	-26.3	H	3.0	36.4	1.0	-61.7	-13.0	-48.7	
	3.266	-23.4	H	3.0	35.8	1.0	-58.3	-13.0	-45.3	
	Mid Ch, 831.5MHz									
	1.663	-21.7	V	3.0	37.4	1.0	-58.0	-13.0	-45.0	
	2.495	-22.6	V	3.0	36.4	1.0	-58.0	-13.0	-45.0	
	3.326	-23.0	V	3.0	35.8	1.0	-57.8	-13.0	-44.8	
	1.663	-24.9	H	3.0	37.4	1.0	-61.2	-13.0	-48.2	
	2.495	-25.8	H	3.0	36.4	1.0	-61.1	-13.0	-48.1	
	3.326	-23.6	H	3.0	35.8	1.0	-58.4	-13.0	-45.4	
	High Ch, 846.5MHz									
	1.693	-24.7	V	3.0	37.3	1.0	-61.0	-13.0	-48.0	
	2.540	-23.3	V	3.0	36.3	1.0	-58.6	-13.0	-45.6	
	3.386	-23.6	V	3.0	35.7	1.0	-58.3	-13.0	-45.3	
	1.693	-25.3	H	3.0	37.3	1.0	-61.6	-13.0	-48.6	
	2.540	-25.7	H	3.0	36.3	1.0	-61.0	-13.0	-48.0	
	3.386	-24.1	H	3.0	35.7	1.0	-58.8	-13.0	-45.8	

UL Verification Services, Inc. Chamber C Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15119834							
Date:		01/30/15							
Test Engineer:		James Jackson							
Configuration:		EUT w/ AC Adaptor + HS, X-pos							
Mode:		LTE26 5MHz QPSK HARM							
		Chamber		Pre-amplifier		Filter		Limit	
		3m Chamber		T34 8449B		Filter 1		Part 22	
Band									
LTE26									
5MHz									
QPSK									
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	(dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 826.5MHz									
1.633	-25.7	V	3.0	37.4	1.0	-62.1	-13.0	-49.1	
2.450	-23.1	V	3.0	36.4	1.0	-58.5	-13.0	-45.5	
3.266	-24.0	V	3.0	35.8	1.0	-58.8	-13.0	-45.8	
1.633	-26.4	H	3.0	37.4	1.0	-62.8	-13.0	-49.8	
2.450	-25.7	H	3.0	36.4	1.0	-61.1	-13.0	-48.1	
3.266	-22.4	H	3.0	35.8	1.0	-57.2	-13.0	-44.2	
Mid Ch, 836.5MHz									
1.663	-21.0	V	3.0	37.4	1.0	-57.4	-13.0	-44.4	
2.495	-22.4	V	3.0	36.4	1.0	-57.7	-13.0	-44.7	
3.326	-23.0	V	3.0	35.8	1.0	-57.8	-13.0	-44.8	
1.663	-24.8	H	3.0	37.4	1.0	-61.2	-13.0	-48.2	
2.495	-24.9	H	3.0	36.4	1.0	-60.2	-13.0	-47.2	
3.326	-23.4	H	3.0	35.8	1.0	-58.2	-13.0	-45.2	
High Ch, 846.5 MHz									
1.693	-23.9	V	3.0	37.3	1.0	-60.3	-13.0	-47.3	
2.540	-23.5	V	3.0	36.3	1.0	-58.8	-13.0	-45.8	
3.386	-23.4	V	3.0	35.7	1.0	-58.1	-13.0	-45.1	
1.693	-25.0	H	3.0	37.3	1.0	-61.3	-13.0	-48.3	
2.540	-23.2	H	3.0	36.3	1.0	-58.5	-13.0	-45.5	
3.386	-24.0	H	3.0	35.7	1.0	-58.7	-13.0	-45.7	

UL Verification Services, Inc. Chamber C Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15119834							
Date:		01/30/15							
Test Engineer:		J. Jackson							
Configuration:		EUT w/ AC Adapter + HS, X-position							
Mode:		LTE26_3M_16QAM							
		Chamber		Pre-amplifier		Filter		Limit	
		3m Chamber		T34 8449B		Filter 1		Part 22	
Band									
LTE26									
3MHz									
16QAM									
f	SG reading	Ant. Pol.	Distance		Filter	EIRP	Limit	Delta	Notes
GHz	(dBm)	(H/V)	(m)	(dB)	(dB)	(dBm)	(dBm)	(dB)	
Low Ch, 815.5MHz									
1.631	-25.8	V	3.0	37.4	1.0	-62.2	-13.0	-49.2	
2.447	-24.3	V	3.0	36.4	1.0	-59.8	-13.0	-46.8	
3.262	-24.0	V	3.0	35.8	1.0	-58.9	-13.0	-45.9	
1.631	-26.1	H	3.0	37.4	1.0	-62.5	-13.0	-49.5	
2.447	-26.2	H	3.0	36.4	1.0	-61.6	-13.0	-48.6	
3.262	-23.7	H	3.0	35.8	1.0	-58.6	-13.0	-45.6	
Mid Ch, 831.5MHz									
1.663	-21.4	V	3.0	37.4	1.0	-57.8	-13.0	-44.8	
2.495	-23.6	V	3.0	36.4	1.0	-59.0	-13.0	-46.0	
3.326	-23.6	V	3.0	35.8	1.0	-58.4	-13.0	-45.4	
1.663	-24.5	H	3.0	37.4	1.0	-60.9	-13.0	-47.9	
2.495	-25.0	H	3.0	36.4	1.0	-60.4	-13.0	-47.4	
3.326	-22.9	H	3.0	35.8	1.0	-57.7	-13.0	-44.7	
High Ch, 847.5 MHz									
1.695	-24.0	V	3.0	37.3	1.0	-60.3	-13.0	-47.3	
2.543	-22.3	V	3.0	36.3	1.0	-57.6	-13.0	-44.6	
3.390	-23.4	V	3.0	35.7	1.0	-58.1	-13.0	-45.1	
1.695	-23.6	H	3.0	37.3	1.0	-59.9	-13.0	-46.9	
2.543	-24.5	H	3.0	36.3	1.0	-59.8	-13.0	-46.8	
3.390	-23.6	H	3.0	35.7	1.0	-58.3	-13.0	-45.3	

UL Verification Services, Inc. Chamber C Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15119834							
Date:		01/30/15							
Test Engineer:		J. Jackson							
Configuration:		EUT w/ AC Adapter + HS, X-position							
Mode:		LTE26_3M_QPSK							
		Chamber	Pre-amplifier		Filter		Limit		
		3m Chamber	T34 8449B		Filter 1		Part 22		
Band									
LTE26									
3MHz									
QPSK									
f	SG reading	Ant. Pol.	Distance		Filter	EIRP	Limit	Delta	Notes
GHz	(dBm)	(H/V)	(m)	(dB)	(dB)	(dBm)	(dBm)	(dB)	
Low Ch, 815.5MHz									
1.631	-25.4	V	3.0	37.4	1.0	-61.8	-13.0	-48.8	
2.447	-24.2	V	3.0	36.4	1.0	-59.7	-13.0	-46.7	
3.262	-24.4	V	3.0	35.8	1.0	-59.3	-13.0	-46.3	
1.631	-26.6	H	3.0	37.4	1.0	-63.0	-13.0	-50.0	
2.447	-26.9	H	3.0	36.4	1.0	-62.3	-13.0	-49.3	
3.262	-23.7	H	3.0	35.8	1.0	-58.5	-13.0	-45.5	
Mid Ch, 831.5MHz									
1.663	-21.2	V	3.0	37.4	1.0	-57.5	-13.0	-44.5	
2.495	-24.1	V	3.0	36.4	1.0	-59.4	-13.0	-46.4	
3.326	-23.9	V	3.0	35.8	1.0	-58.6	-13.0	-45.6	
1.663	-24.2	H	3.0	37.4	1.0	-60.6	-13.0	-47.6	
2.495	-25.1	H	3.0	36.4	1.0	-60.4	-13.0	-47.4	
3.326	-23.2	H	3.0	35.8	1.0	-58.0	-13.0	-45.0	
High Ch, 847.5 MHz									
1.695	-25.3	V	3.0	37.3	1.0	-61.6	-13.0	-48.6	
2.543	-22.9	V	3.0	36.3	1.0	-58.3	-13.0	-45.3	
3.390	-23.6	V	3.0	35.7	1.0	-58.3	-13.0	-45.3	
1.695	-23.3	H	3.0	37.3	1.0	-59.6	-13.0	-46.6	
2.543	-25.6	H	3.0	36.3	1.0	-60.9	-13.0	-47.9	
3.390	-23.6	H	3.0	35.7	1.0	-58.3	-13.0	-45.3	

UL Verification Services, Inc. Chamber C Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15119834								
Date:		01/30/15								
Test Engineer:		J. Jackson								
Configuration:		EUT w/ AC Adapter + HS, X-position								
Mode:		LTE26 1.4MHz 16QAM HARM								
		Chamber		Pre-amplifier		Filter		Limit		
		3m Chamber		T34 8449B		Filter 1		Part 22		
Band		f	SG reading	Ant. Pol.	Distance	Filter	EIRP	Limit	Delta	Notes
LTE26		GHz	(dBm)	(H/V)	(m)	(dB)	(dBm)	(dBm)	(dB)	
1.4MHz		Low Ch, 814.7MHz								
16QAM		1.63	-25.9	V	3.0	37.4	1.0	-62.4	-13.0	-49.4
		2.44	-23.4	V	3.0	36.4	1.0	-58.9	-13.0	-45.9
		3.26	-23.3	V	3.0	35.8	1.0	-58.2	-13.0	-45.2
		1.63	-27.3	H	3.0	37.4	1.0	-63.7	-13.0	-50.7
		2.44	-26.0	H	3.0	36.4	1.0	-61.4	-13.0	-48.4
		3.26	-24.1	H	3.0	35.8	1.0	-59.0	-13.0	-46.0
		Mid Ch, 831.5MHz								
		1.663	-25.0	V	3.0	37.4	1.0	-61.3	-13.0	-48.3
		2.495	-23.3	V	3.0	36.4	1.0	-58.7	-13.0	-45.7
		3.326	-23.9	V	3.0	35.8	1.0	-58.7	-13.0	-45.7
		1.663	-24.7	H	3.0	37.4	1.0	-61.1	-13.0	-48.1
		2.495	-24.3	H	3.0	36.4	1.0	-59.7	-13.0	-46.7
		3.326	-23.8	H	3.0	35.8	1.0	-58.6	-13.0	-45.6
		High Ch, 848.3 MHz								
		1.70	-24.2	V	3.0	37.3	1.0	-60.5	-13.0	-47.5
		2.54	-22.3	V	3.0	36.3	1.0	-57.7	-13.0	-44.7
		3.39	-23.7	V	3.0	35.7	1.0	-58.4	-13.0	-45.4
		1.70	-23.1	H	3.0	37.3	1.0	-59.4	-13.0	-46.4
		2.54	-26.3	H	3.0	36.3	1.0	-61.6	-13.0	-48.6
		3.39	-23.4	H	3.0	35.7	1.0	-58.1	-13.0	-45.1

UL Verification Services, Inc. Chamber C Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15119834								
Date:		01/30/15								
Test Engineer:		J. Jackson								
Configuration:		EUT w/ AC Adapter + HS, X-position								
Mode:		LTE26 1.4MHz QPSK HARM								
Chamber		Pre-amplifier		Filter		Limit				
3m Chamber		T34 8449B		Filter 1		Part 22				
Band	f	SG reading	Ant. Pol.	Distance		Filter	EIRP	Limit	Delta	Notes
LTE26	GHz	(dBm)	(H/V)	(m)	(dB)	(dB)	(dBm)	(dBm)	(dB)	
1.4MHz	Low Ch, 814.7MHz									
QPSK	1.629	-26.3	V	3.0	37.4	1.0	-62.7	-13.0	-49.7	
	2.444	-22.9	V	3.0	36.4	1.0	-58.3	-13.0	-45.3	
	3.259	-23.7	V	3.0	35.8	1.0	-58.5	-13.0	-45.5	
	1.629	-26.7	H	3.0	37.4	1.0	-63.1	-13.0	-50.1	
	2.444	-26.1	H	3.0	36.4	1.0	-61.6	-13.0	-48.6	
	3.259	-24.1	H	3.0	35.8	1.0	-59.0	-13.0	-46.0	
	Mid Ch, 831.5MHz									
	1.663	-24.4	V	3.0	37.4	1.0	-60.7	-13.0	-47.7	
	2.495	-23.4	V	3.0	36.4	1.0	-58.8	-13.0	-45.8	
	3.326	-24.0	V	3.0	35.8	1.0	-58.7	-13.0	-45.7	
	1.663	-25.3	H	3.0	37.4	1.0	-61.6	-13.0	-48.6	
	2.495	-26.0	H	3.0	36.4	1.0	-61.4	-13.0	-48.4	
	3.326	-23.7	H	3.0	35.8	1.0	-58.4	-13.0	-45.4	
	High Ch, 848.3 MHz									
	1.697	-24.2	V	3.0	37.3	1.0	-60.5	-13.0	-47.5	
	2.545	-23.1	V	3.0	36.3	1.0	-58.5	-13.0	-45.5	
	3.393	-23.7	V	3.0	35.7	1.0	-58.4	-13.0	-45.4	
	1.697	-23.0	H	3.0	37.3	1.0	-59.3	-13.0	-46.3	
	2.545	-25.1	H	3.0	36.3	1.0	-60.5	-13.0	-47.5	
	3.393	-23.2	H	3.0	35.7	1.0	-57.9	-13.0	-44.9	

LTE Band 41

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I19834							
Date:		1/26/2015							
Test Engineer:		D. Sblendorio /O.Stoelting							
Configuration:		EUT/ AC Charger/ Headset							
Location:		Chamber B							
Mode:		LTE_16QAM Band 41 Harmonics, 20MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 2506									
5012.00	-7.7	V	3.0	35.5	1.0	-42.1	-25.0	-17.1	
7518.00	-5.5	V	3.0	35.7	1.0	-40.2	-25.0	-15.2	
10024.00	-10.7	V	3.0	36.0	1.0	-45.7	-25.0	-20.7	
Mid Ch, 2593									
5012.00	-7.4	H	3.0	35.5	1.0	-41.8	-25.0	-16.8	
7518.00	-3.4	H	3.0	35.7	1.0	-38.2	-25.0	-13.2	
10024.00	4.4	H	3.0	36.0	1.0	-39.4	-25.0	-14.4	
High Ch, 2680									
5186.00	-12.7	V	3.0	35.4	1.0	-47.1	-25.0	-22.1	
7779.00	4.8	V	3.0	35.8	1.0	-39.6	-25.0	-14.6	
10372.00	-11.9	V	3.0	35.8	1.0	-46.7	-25.0	-21.7	
5186.00	-12.0	H	3.0	35.4	1.0	-46.4	-25.0	-21.4	
7779.00	-12.1	H	3.0	35.8	1.0	-46.9	-25.0	-21.9	
10372.00	-11.0	H	3.0	35.8	1.0	-45.8	-25.0	-20.8	
High Ch, 2680									
5360.00	-15.2	V	3.0	35.4	1.0	-49.7	-25.0	-24.7	
8040.00	-13.0	V	3.0	35.8	1.0	-47.8	-25.0	-22.8	
10720.00	-11.7	V	3.0	35.7	1.0	-46.3	-25.0	-21.3	
5360.00	-12.7	H	3.0	35.4	1.0	-47.2	-25.0	-22.2	
8040.00	4.5	H	3.0	35.8	1.0	-39.3	-25.0	-14.3	
10720.00	-9.7	H	3.0	35.7	1.0	-44.4	-25.0	-19.4	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I19834							
Date:		1/26/2015							
Test Engineer:		D. Splendorio /O.Stoelting							
Configuration:		EUT/ AC Charger/ Headset							
Location:		Chamber B							
Mode:		LTE_QPSK Band 41 Harmonics, 20MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band									
Low Ch, 2506									
5012.00	-8.1	V	3.0	35.5	1.0	-42.6	-25.0	-17.6	
7518.00	-5.9	V	3.0	35.7	1.0	-40.7	-25.0	-15.7	
LTE41									
10024.00	-11.2	V	3.0	36.0	1.0	-46.2	-25.0	-21.2	
5012.00	-7.8	H	3.0	35.5	1.0	-42.3	-25.0	-17.3	
7518.00	-3.9	H	3.0	35.7	1.0	-38.6	-25.0	-13.6	
20MHz									
10024.00	-4.8	H	3.0	36.0	1.0	-39.9	-25.0	-14.9	
QPSK									
Mid Ch, 2593									
5186.00	-13.1	V	3.0	35.4	1.0	-47.5	-25.0	-22.5	
7779.00	-5.3	V	3.0	35.8	1.0	-40.1	-25.0	-15.1	
10372.00	-12.3	V	3.0	35.8	1.0	-47.2	-25.0	-22.2	
5186.00	-12.5	H	3.0	35.4	1.0	-46.9	-25.0	-21.9	
7779.00	-12.6	H	3.0	35.8	1.0	-47.4	-25.0	-22.4	
10372.00	-11.4	H	3.0	35.8	1.0	-46.3	-25.0	-21.3	
High Ch, 2680									
5360.00	-15.7	V	3.0	35.4	1.0	-50.1	-25.0	-25.1	
8040.00	-13.5	V	3.0	35.8	1.0	-48.3	-25.0	-23.3	
10720.00	-12.1	V	3.0	35.7	1.0	-46.8	-25.0	-21.8	
5360.00	-13.2	H	3.0	35.4	1.0	-47.6	-25.0	-22.6	
8040.00	-5.0	H	3.0	35.8	1.0	-39.8	-25.0	-14.8	
10720.00	-10.1	H	3.0	35.7	1.0	-44.8	-25.0	-19.8	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15119834								
Date:		1/26/2015								
Test Engineer:		D. Sblendorio /O.Stoelting								
Configuration:		EUT/ AC Charger/ Headset								
Location:		Chamber B								
Mode:		LTE_16QAM Band 41 Harmonics, 15MHz Bandwidth								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band	Low Ch, 2503.5									
	5007.00	-12.8	V	3.0	35.5	1.0	-47.3	-25.0	-22.3	
	7510.50	-13.6	V	3.0	35.7	1.0	-48.3	-25.0	-23.3	
LTE41	10014.00	-10.9	V	3.0	36.0	1.0	-45.9	-25.0	-20.9	
	5007.00	-6.1	H	3.0	35.5	1.0	-40.6	-25.0	-15.6	
	7510.50	-3.6	H	3.0	35.7	1.0	-38.4	-25.0	-13.4	
15MHz	10014.00	-10.1	H	3.0	36.0	1.0	-45.1	-25.0	-20.1	
	Mid Ch, 2593									
	5186.00	-14.5	V	3.0	35.4	1.0	-48.9	-25.0	-23.9	
16QAM	7779.00	-11.3	V	3.0	35.8	1.0	-46.1	-25.0	-21.1	
	10372.00	-11.7	V	3.0	35.8	1.0	-46.5	-25.0	-21.5	
	5186.00	-13.8	H	3.0	35.4	1.0	-48.3	-25.0	-23.3	
	7779.00	-12.8	H	3.0	35.8	1.0	-47.5	-25.0	-22.5	
	10372.00	-10.1	H	3.0	35.8	1.0	-45.0	-25.0	-20.0	
High Ch, 2682.5										
	5365.00	-15.5	V	3.0	35.4	1.0	-50.0	-25.0	-25.0	
	8047.50	-13.4	V	3.0	35.8	1.0	-48.2	-25.0	-23.2	
	10730.00	-11.8	V	3.0	35.7	1.0	-46.5	-25.0	-21.5	
	5365.00	-12.1	H	3.0	35.4	1.0	-46.6	-25.0	-21.6	
	8047.50	-8.6	H	3.0	35.8	1.0	-43.4	-25.0	-18.4	
	10730.00	-11.0	H	3.0	35.7	1.0	-45.7	-25.0	-20.7	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15119834							
Date:		1/26/2015							
Test Engineer:		D. Sblendorio /O.Stoelting							
Configuration:		EUT/ AC Charger/ Headset							
Location:		Chamber B							
Mode:		LTE_QPSK Band 41 Harmonics, 15MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band									
LTE41									
15MHz									
QPSK									
Low Ch, 2503.5									
5007.00	-13.3	V	3.0	35.5	1.0	-47.7	-25.0	-22.7	
7510.50	-14.8	V	3.0	35.7	1.0	-49.6	-25.0	-24.6	
10014.00	-12.5	V	3.0	36.0	1.0	-47.6	-25.0	-22.6	
5007.00	-6.0	H	3.0	35.5	1.0	-40.5	-25.0	-15.5	
7510.50	-5.4	H	3.0	35.7	1.0	-40.2	-25.0	-15.2	
10014.00	-11.1	H	3.0	36.0	1.0	-46.1	-25.0	-21.1	
Mid Ch, 2593									
5186.00	-14.6	V	3.0	35.4	1.0	-49.0	-25.0	-24.0	
7779.00	-11.6	V	3.0	35.8	1.0	-46.4	-25.0	-21.4	
10372.00	-12.0	V	3.0	35.8	1.0	-46.8	-25.0	-21.8	
5186.00	-14.2	H	3.0	35.4	1.0	-48.6	-25.0	-23.6	
7779.00	-12.2	H	3.0	35.8	1.0	-47.0	-25.0	-22.0	
10372.00	-10.3	H	3.0	35.8	1.0	-45.1	-25.0	-20.1	
High Ch, 2682.5									
5365.00	-15.2	V	3.0	35.4	1.0	-49.6	-25.0	-24.6	
8047.50	-12.9	V	3.0	35.8	1.0	-47.7	-25.0	-22.7	
10730.00	-11.7	V	3.0	35.7	1.0	-46.4	-25.0	-21.4	
5365.00	-13.4	H	3.0	35.4	1.0	-47.9	-25.0	-22.9	
8047.50	-9.0	H	3.0	35.8	1.0	-43.8	-25.0	-18.8	
10730.00	-10.8	H	3.0	35.7	1.0	-45.5	-25.0	-20.5	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement											
Company:		LG Electronics									
Project #:		15119834									
Date:		1/26/2015									
Test Engineer:		D. Sblendorio /O.Stoelting									
Configuration:		EUT/ AC Charger/ Headset									
Location:		Chamber B									
Mode:		LTE_16QAM Band 41 Harmonics, 10MHz Bandwidth									
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	
Band LTE41 10MHz 16QAM	Low Ch, 2501										
		5002.00	-7.2	V	3.0	35.5	1.0	-41.7	-25.0	-16.7	
		7503.00	-14.5	V	3.0	35.7	1.0	-49.3	-25.0	-24.3	
		10004.00	-12.0	V	3.0	36.0	1.0	-47.0	-25.0	-22.0	
		5002.00	-9.6	H	3.0	35.5	1.0	-44.1	-25.0	-19.1	
		7503.00	-12.3	H	3.0	35.7	1.0	-47.1	-25.0	-22.1	
		10004.00	-10.1	H	3.0	36.0	1.0	-45.2	-25.0	-20.2	
		Mid Ch, 2593									
		5186.00	-14.9	V	3.0	35.4	1.0	-49.3	-25.0	-24.3	
		7779.00	-10.2	V	3.0	35.8	1.0	-44.9	-25.0	-19.9	
		10372.00	-11.2	V	3.0	35.8	1.0	-46.0	-25.0	-21.0	
		5186.00	-13.7	H	3.0	35.4	1.0	-48.2	-25.0	-23.2	
	7779.00	-12.0	H	3.0	35.8	1.0	-46.8	-25.0	-21.8		
	10372.00	-10.7	H	3.0	35.8	1.0	-45.6	-25.0	-20.6		
	High Ch, 2685										
	5370.00	-16.8	V	3.0	35.4	1.0	-51.2	-25.0	-26.2		
	8055.00	-13.6	V	3.0	35.8	1.0	-48.4	-25.0	-23.4		
	10740.00	-11.1	V	3.0	35.7	1.0	-45.7	-25.0	-20.7		
	5370.00	-16.0	H	3.0	35.4	1.0	-50.5	-25.0	-25.5		
	8055.00	-12.4	H	3.0	35.8	1.0	-47.2	-25.0	-22.2		
	10740.00	-10.5	H	3.0	35.7	1.0	-45.1	-25.0	-20.1		

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15119834							
Date:		1/26/2015							
Test Engineer:		D. Sblendorio /O.Stoelting							
Configuration:		EUT/ AC Charger/ Headset							
Location:		Chamber B							
Mode:		LTE_QPSK Band 41 Harmonics, 10MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 2501									
5002.00	-7.1	V	3.0	35.5	1.0	-41.5	-25.0	-16.5	
7503.00	-14.6	V	3.0	35.7	1.0	-49.4	-25.0	-24.4	
LTE41									
10004.00	-11.3	V	3.0	36.0	1.0	-46.3	-25.0	-21.3	
5002.00	-10.0	H	3.0	35.5	1.0	-44.5	-25.0	-19.5	
7503.00	-12.8	H	3.0	35.7	1.0	-47.6	-25.0	-22.6	
10MHz									
10004.00	-10.9	H	3.0	36.0	1.0	-45.9	-25.0	-20.9	
Mid Ch, 2593									
5186.00	-13.1	V	3.0	35.4	1.0	-47.5	-25.0	-22.5	
7779.00	-8.8	V	3.0	35.8	1.0	-43.6	-25.0	-18.6	
10372.00	-11.0	V	3.0	35.8	1.0	-45.8	-25.0	-20.8	
5186.00	-14.0	H	3.0	35.4	1.0	-48.4	-25.0	-23.4	
7779.00	-11.7	H	3.0	35.8	1.0	-46.5	-25.0	-21.5	
10372.00	-10.2	H	3.0	35.8	1.0	-45.0	-25.0	-20.0	
High Ch, 2685									
5370.00	-16.7	V	3.0	35.4	1.0	-51.1	-25.0	-26.1	
8055.00	-13.5	V	3.0	35.8	1.0	-48.3	-25.0	-23.3	
10740.00	-10.9	V	3.0	35.7	1.0	-45.6	-25.0	-20.6	
5370.00	-15.6	H	3.0	35.4	1.0	-50.1	-25.0	-25.1	
8055.00	-11.6	H	3.0	35.8	1.0	-46.4	-25.0	-21.4	
10740.00	-10.4	H	3.0	35.7	1.0	-45.1	-25.0	-20.1	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15119834							
Date:		1/26/2015							
Test Engineer:		D. Sblendorio /O.Stoelting							
Configuration:		EUT/ AC Charger/ Headset							
Location:		Chamber B							
Mode:		LTE_16QAM Band 41 Harmonics, 5MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band									
LTE41									
5MHz									
16QAM									
Low Ch, 2498.5									
4997.00	-10.4	V	3.0	35.5	1.0	-44.8	-25.0	-19.8	
7495.50	-8.9	V	3.0	35.7	1.0	-43.6	-25.0	-18.6	
9994.00	-8.2	V	3.0	36.0	1.0	-43.2	-25.0	-18.2	
4997.00	-5.5	H	3.0	35.5	1.0	-39.9	-25.0	-14.9	
7495.50	-8.2	H	3.0	35.7	1.0	-42.9	-25.0	-17.9	
9994.00	-7.4	H	3.0	36.0	1.0	-42.4	-25.0	-17.4	
Mid Ch, 2593									
5186.00	-4.4	V	3.0	35.4	1.0	-38.9	-25.0	-13.9	
7779.00	-7.6	V	3.0	35.8	1.0	-42.4	-25.0	-17.4	
10372.00	-6.6	V	3.0	35.8	1.0	-41.5	-25.0	-16.5	
5186.00	-9.5	H	3.0	35.4	1.0	-43.9	-25.0	-18.9	
7779.00	-8.0	H	3.0	35.8	1.0	-42.8	-25.0	-17.8	
10372.00	-5.6	H	3.0	35.8	1.0	-40.4	-25.0	-15.4	
High Ch, 2687.5									
5375.00	-10.3	V	3.0	35.4	1.0	-44.7	-25.0	-19.7	
8062.50	-5.4	V	3.0	35.8	1.0	-40.2	-25.0	-15.2	
10750.00	-5.3	V	3.0	35.7	1.0	-40.0	-25.0	-15.0	
5375.00	-10.4	H	3.0	35.4	1.0	-44.9	-25.0	-19.9	
8062.50	-8.0	H	3.0	35.8	1.0	-42.8	-25.0	-17.8	
10750.00	-6.7	H	3.0	35.7	1.0	-41.4	-25.0	-16.4	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15119834								
Date:		1/26/2015								
Test Engineer:		D. Sblendorio /O.Stoelting								
Configuration:		EUT/ AC Charger/ Headset								
Location:		Chamber B								
Mode:		LTE_QPSK Band 41 Harmonics, 5MHz Bandwidth								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band	Low Ch, 2498.5									
	4997.00	-11.4	V	3.0	35.5	1.0	-45.9	-25.0	-20.9	
	7495.50	-9.4	V	3.0	35.7	1.0	-44.2	-25.0	-19.2	
LTE41	9994.00	-7.7	V	3.0	36.0	1.0	-42.7	-25.0	-17.7	
	4997.00	-4.4	H	3.0	35.5	1.0	-38.9	-25.0	-13.9	
	7495.50	-8.7	H	3.0	35.7	1.0	-43.4	-25.0	-18.4	
5MHz	9994.00	-6.4	H	3.0	36.0	1.0	-41.5	-25.0	-16.5	
	Mid Ch, 2593									
QPSK	5186.00	-5.2	V	3.0	35.4	1.0	-39.7	-25.0	-14.7	
	7779.00	-8.0	V	3.0	35.8	1.0	-42.8	-25.0	-17.8	
	10372.00	-7.0	V	3.0	35.8	1.0	-41.8	-25.0	-16.8	
	5186.00	-8.9	H	3.0	35.4	1.0	-43.3	-25.0	-18.3	
	7779.00	-7.6	H	3.0	35.8	1.0	-42.4	-25.0	-17.4	
	High Ch, 2687.5									
	5375.00	-10.5	V	3.0	35.4	1.0	-44.9	-25.0	-19.9	
	8062.50	-5.1	V	3.0	35.8	1.0	-39.9	-25.0	-14.9	
	10750.00	-5.8	V	3.0	35.7	1.0	-40.5	-25.0	-15.5	
	5375.00	-11.0	H	3.0	35.4	1.0	-45.4	-25.0	-20.4	
	8062.50	-7.2	H	3.0	35.8	1.0	-42.0	-25.0	-17.0	
	10750.00	-6.0	H	3.0	35.7	1.0	-40.6	-25.0	-15.6	