

Band LTE41 20MHz QPSK	High Frequency Substitution Measurement UL Verification Services, Inc.																																																																																																	
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2685.00	10.40	V	0.9	9.7	19.24	33.0	-13.8	-29.2																																																																																														
2685.00	14.20	H	0.9	9.7	23.04	33.0	-10.0	-25.3																																																																																														

Band LTE41 5MHz 16QAM	High Frequency Substitution Measurement UL Verification Services, Inc.																																																																																										
	<p>Company: LG Electronics Project #: 15I20286 Date: 3/30/2015 Test Engineer: R.Z Configuration: EUT ONLY Location: Chamber G Mode: LTE_16QAM Band 41 Fundamentals, 5MHz Bandwidth</p> <p>Test Equipment: Receiving: Horn T862, and Chamber G SMA Cables Substitution: Horn T60, 6ft SMA Cable</p>																																																																																										
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Band LTE41 5MHz QPSK	High Frequency Substitution Measurement UL Verification Services, Inc.																																																																																																	
	Company:		LG Electronics																																																																																															
	Project #:		15I20286																																																																																															
	Date:		3/30/2015																																																																																															
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11.2. ADDITIONAL TESTS (PHONE WITH SMART COVER)

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

11.2.1.1. CDMA (MID CHANNEL ONLY)

Band BC1 EVDO	High Frequency Substitution Measurement UL Verification Services Chamber G																																												
	Company:		LG																																										
	Project #:		15I20286																																										
	Date:		3/31/2015																																										
	Test Engineer:		R.Z																																										
	Configuration:		EUT w/ Smart Case																																										
	Mode:		CDMA EVDO BC1																																										
	Test Equipment:																																												
	Receiving: Horn T862, and Chamber G SMA Cables																																												
	Substitution: Horn T59 Substitution, 6ft SMA Cable																																												
<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>Delta (dB)</th> <th>Notes</th> </tr> </thead> <tbody> <tr> <td>Mid Ch</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>1.8800</td> <td>16.8</td> <td>V</td> <td>0.90</td> <td>9.20</td> <td>25.10</td> <td>33.0</td> <td>-7.9</td> <td></td> </tr> <tr> <td>1.8800</td> <td>17.4</td> <td>H</td> <td>0.90</td> <td>9.20</td> <td>25.71</td> <td>33.0</td> <td>-7.3</td> <td></td> </tr> </tbody> </table>										f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	Mid Ch									1.8800	16.8	V	0.90	9.20	25.10	33.0	-7.9		1.8800	17.4	H	0.90	9.20	25.71	33.0	-7.3	
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes																																					
Mid Ch																																													
1.8800	16.8	V	0.90	9.20	25.10	33.0	-7.9																																						
1.8800	17.4	H	0.90	9.20	25.71	33.0	-7.3																																						
Rev. 3.17.11																																													

Band BC0 EVDO	High Frequency Substitution Measurement UL Verification Services Chamber G																																										
	Company: LG Project #: 15I20286 Date: 3/31/2015 Test Engineer: R.Z Configuration: EUT w/ Smart Case Mode: CDMA EVDO BC0																																										
	Test Equipment: Receiving: T899, and Chamber G Cable Substitution: Dipole T273, 6ft SMA Cable																																										
	<table border="1"> <thead> <tr> <th>f MHz</th> <th>SG reading (dBm)</th> <th>Ant. Pol. (H/V)</th> <th>Cable Loss (dB)</th> <th>Antenna Gain (dBd)</th> <th>ERP (dBm)</th> <th>Limit (dBm)</th> <th>Margin (dB)</th> <th>Notes</th> </tr> </thead> <tbody> <tr> <td>Mid Ch</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>836.52</td> <td>15.40</td> <td>V</td> <td>0.9</td> <td>0.0</td> <td>14.50</td> <td>38.5</td> <td>-23.9</td> <td></td> </tr> <tr> <td>836.52</td> <td>22.96</td> <td>H</td> <td>0.9</td> <td>0.0</td> <td>22.06</td> <td>38.5</td> <td>-16.4</td> <td></td> </tr> </tbody> </table>								f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Margin (dB)	Notes	Mid Ch									836.52	15.40	V	0.9	0.0	14.50	38.5	-23.9		836.52	22.96	H	0.9	0.0	22.06	38.5	-16.4
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Margin (dB)	Notes																																			
Mid Ch																																											
836.52	15.40	V	0.9	0.0	14.50	38.5	-23.9																																				
836.52	22.96	H	0.9	0.0	22.06	38.5	-16.4																																				

Rev. 3.17.11

Band BC10 EVDO	High Frequency Substitution Measurement UL Verification Services Chamber G										
	Company:		LG								
	Project #:		15I20286								
	Date:		3/31/2015								
Test Engineer:		R.Z									
Configuration:		EUT w/ Smart Case									
Mode:		CDMA EVDO BC10									
Test Equipment:											
Receiving: T899, and Chamber G Cable											
Substitution: Dipole T273, 6ft SMA Cable											
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Margin (dB)	Notes			
Mid Ch											
820.50	16.85	V	0.9	0.0	15.95	38.5	-22.5				
820.50	23.99	H	0.9	0.0	23.09	38.5	-15.4				
Rev. 3.17.11											

11.2.1.2. LTE (MID CHANNEL ONLY)

Band LTE41 5MHz QPSK	High Frequency Substitution Measurement UL Verification Services, Inc.								
	Company:		LG Electronics						
	Project #:		15I20286						
	Date:		3/30/2015						
Test Engineer:		R.Z							
Configuration:		EUT w/ Smart Case							
Location:		Chamber G							
Mode:		LTE_QPSK Band 41 Fundamentals, 5MHz Bandwidth							
Test Equipment:		Receiving: Horn T862, and Chamber G SMA Cables Substitution: Horn T60, 6ft SMA Cable							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	
Mid Ch									
2593.00	9.70	V	0.9	9.5	18.31	33.0	-14.7		-30.5
2593.00	14.60	H	0.9	9.5	23.21	33.0	-9.8		-24.3

Band LTE26 1.4MHz QPSK	High Frequency Substitution Measurement UL Verification Services, Inc.																																																										
	Company:		LG Electronics																																																								
	Project #:		15I20286																																																								
	Date:		3/31/2015																																																								
	Test Engineer:		R.Z																																																								
	Configuration:		EUT w/ Smart Case																																																								
	Location:		Chamber G																																																								
	Mode:		LTE_QPSK Band 26 Fundamentals, 1.4MHz Bandwidth																																																								
	Test Equipment:		Receiving: Hybrid T899, and Chamber G SMA Cables Substitution: Dipole T273, 6ft SMA Cable Warehouse																																																								
	<table border="1"> <thead> <tr> <th>f</th> <th>SG reading</th> <th>Ant. Pol.</th> <th>Cable Loss</th> <th>Antenna Gain</th> <th>ERP</th> <th>Limit</th> <th>Delta</th> <th colspan="2">Notes</th> </tr> <tr> <th>MHz</th> <th>(dBm)</th> <th>(H/V)</th> <th>(dB)</th> <th>(dBd)</th> <th>(dBm)</th> <th>(dBm)</th> <th>(dB)</th> <th colspan="2"></th> </tr> </thead> <tbody> <tr> <td>Mid Ch</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td colspan="2"></td> </tr> <tr> <td>831.50</td> <td>14.30</td> <td>V</td> <td>0.9</td> <td>0.0</td> <td>13.40</td> <td>38.5</td> <td>-25.1</td> <td colspan="2"></td> </tr> <tr> <td>831.50</td> <td>21.16</td> <td>H</td> <td>0.9</td> <td>0.0</td> <td>20.26</td> <td>38.5</td> <td>-18.2</td> <td colspan="2"></td> </tr> </tbody> </table>										f	SG reading	Ant. Pol.	Cable Loss	Antenna Gain	ERP	Limit	Delta	Notes		MHz	(dBm)	(H/V)	(dB)	(dBd)	(dBm)	(dBm)	(dB)			Mid Ch										831.50	14.30	V	0.9	0.0	13.40	38.5	-25.1			831.50	21.16	H	0.9	0.0	20.26	38.5	-18.2	
f	SG reading	Ant. Pol.	Cable Loss	Antenna Gain	ERP	Limit	Delta	Notes																																																			
MHz	(dBm)	(H/V)	(dB)	(dBd)	(dBm)	(dBm)	(dB)																																																				
Mid Ch																																																											
831.50	14.30	V	0.9	0.0	13.40	38.5	-25.1																																																				
831.50	21.16	H	0.9	0.0	20.26	38.5	-18.2																																																				

Band LTE25 1.4MHz QPSK	High Frequency Substitution Measurement UL Verification Services, Inc.																																				
Company: LG Project #: 15I20286 Date: 3/14/2015 Test Engineer: R.Alegre Configuration: EUT w/ Smart Case Location: Chamber A Mode: LTE_QPSK Band 25 Fundamentals, 1.4MHz Bandwidth																																					
Test Equipment: Receiving: Horn T136, and Chamber A SMA Cables Substitution: Horn T59, 4ft SMA Cable																																					
<table border="1"> <thead> <tr> <th>f MHz</th> <th>SG reading (dBm)</th> <th>Ant. Pol. (H/V)</th> <th>Cable Loss (dB)</th> <th>Antenna Gain (dBi)</th> <th>EIRP (dBm)</th> <th>Limit (dBm)</th> <th>Delta (dB)</th> <th>Notes</th> </tr> </thead> <tbody> <tr> <td>Mid Ch</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>1882.50</td> <td>5.09</td> <td>V</td> <td>0.9</td> <td>7.9</td> <td>12.06</td> <td>33.0</td> <td>-20.9</td> <td></td> </tr> <tr> <td>1882.50</td> <td>18.43</td> <td>H</td> <td>0.9</td> <td>7.9</td> <td>25.40</td> <td>33.0</td> <td>-7.6</td> <td></td> </tr> </tbody> </table>		f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	Mid Ch									1882.50	5.09	V	0.9	7.9	12.06	33.0	-20.9		1882.50	18.43	H	0.9	7.9	25.40	33.0	-7.6	
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes																													
Mid Ch																																					
1882.50	5.09	V	0.9	7.9	12.06	33.0	-20.9																														
1882.50	18.43	H	0.9	7.9	25.40	33.0	-7.6																														

Band LTE12 1.4MHz QPSK	High Frequency Substitution Measurement UL Verification Services, Inc.							
Company: LG Project #: 15I20286 Date: 4/1/2015 Test Engineer: R.Z Configuration: EUT w/ Smart Case Location: Chamber A Mode: LTE_QPSK Band 12 Fundamentals, 1.4MHz Bandwidth								
Test Equipment: Receiving: Hybrid T130, and Chamber A SMA Cables Substitution: Dipole T273, 6ft SMA Cable								
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
Mid Ch								
707.50	10.08	V	0.9	0.0	9.18	38.5	-29.3	
707.50	18.50	H	0.9	0.0	17.60	38.5	-20.9	

Band LTE4 1.4MHz QPSK	High Frequency Substitution Measurement UL Verification Services, Inc.																																				
<p> Company: LG Electronics Project #: 15I20286 Date: 3/30/2015 Test Engineer: R.Z Configuration: EUT w/ Smart Case Location: Chamber G Mode: LTE_QPSK Band 4 Fundamentals, 1.4MHz Bandwidth </p> <p> Test Equipment: Receiving: Horn T862, and Chamber G SMA Cables Substitution: Horn T60, 6ft SMA Cable </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 (dBi)</th> <th>EIRP (dBm)</th> <th>Limit (dBm)</th> <th>Delta (dB)</th> <th>Notes</th> </tr> </thead> <tbody> <tr> <td>Mid Ch</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>1732.50</td> <td>15.30</td> <td>V</td> <td>0.9</td> <td>8.2</td> <td>22.57</td> <td>30.0</td> <td>-7.4</td> <td>-21.7</td> </tr> <tr> <td>1732.50</td> <td>15.60</td> <td>H</td> <td>0.9</td> <td>8.2</td> <td>22.87</td> <td>30.0</td> <td>-7.1</td> <td>-21.0</td> </tr> </tbody> </table>		f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	Mid Ch									1732.50	15.30	V	0.9	8.2	22.57	30.0	-7.4	-21.7	1732.50	15.60	H	0.9	8.2	22.87	30.0	-7.1	-21.0
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes																													
Mid Ch																																					
1732.50	15.30	V	0.9	8.2	22.57	30.0	-7.4	-21.7																													
1732.50	15.60	H	0.9	8.2	22.87	30.0	-7.1	-21.0																													

11.3. 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.

MODES TESTED

GSM, CDMA, WCDMA, LTE

RESULTS

11.3.1. SPURIOUS RADIATION PLOTS

GSM

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I20286								
Date:		3/23/2015								
Test Engineer:		O. Stoelting								
Configuration:		Y-pos EUT w/ AC Adapter + Headset								
Mode:		EGPRS1900								
Chamber		Pre-amplifier		Filter		Limit				
5m Chamber B		T34 8449B		Filter 1		Part 24				
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, 1850.2MHz									
GSM	3.700	-17.9	V	3.0	35.4	1.0	-52.3	-13.0	-39.3	
1900	5.551	-13.1	V	3.0	34.7	1.0	-46.8	-13.0	-33.8	
	7.401	-18.6	V	3.0	34.9	1.0	-52.5	-13.0	-39.5	
EGPRS	3.700	-19.9	H	3.0	35.4	1.0	-54.3	-13.0	-41.3	
	5.551	-13.7	H	3.0	34.7	1.0	-47.4	-13.0	-34.4	
	7.401	-14.6	H	3.0	34.9	1.0	-48.5	-13.0	-35.5	
	Mid Ch, 1880.0MHz									
	3.760	-22.4	V	3.0	35.3	1.0	-56.7	-13.0	-43.7	
	5.640	-20.0	V	3.0	34.7	1.0	-53.8	-13.0	-40.8	
	7.520	-18.1	V	3.0	34.9	1.0	-52.0	-13.0	-39.0	
	3.760	-22.5	H	3.0	35.3	1.0	-56.9	-13.0	-43.9	
	5.640	-19.7	H	3.0	34.7	1.0	-53.4	-13.0	-40.4	
	7.520	-17.4	H	3.0	34.9	1.0	-51.4	-13.0	-38.4	
	High Ch, 1909.8MHz									
	3.820	-15.3	V	3.0	35.3	1.0	-49.5	-13.0	-36.5	
	5.729	-18.1	V	3.0	34.7	1.0	-51.9	-13.0	-38.9	
	7.639	-18.0	V	3.0	35.0	1.0	-52.0	-13.0	-39.0	
	3.820	-17.5	H	3.0	35.3	1.0	-51.8	-13.0	-38.8	
	5.729	-15.9	H	3.0	34.7	1.0	-49.7	-13.0	-36.7	
	7.639	-14.0	H	3.0	35.0	1.0	-48.0	-13.0	-35.0	
Rev. 03.03.09										
Note: No other emissions were detected above the system noise floor.										

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I20286								
Date:		3/23/2015								
Test Engineer:		O. Stoelting								
Configuration:		Y-pos EUT w/ AC Adapter + Headset								
Mode:		GPRS1900								
Chamber		Pre-amplifier		Filter		Limit				
5m Chamber B		T34 8449B		Filter 1		Part 24				
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, 1850.2MHz									
GSM 1900	3.700	-18.7	V	3.0	35.4	1.0	-53.1	-13.0	-40.1	
	5.551	-6.3	V	3.0	34.7	1.0	-40.0	-13.0	-27.0	
	7.401	-13.9	V	3.0	34.9	1.0	-47.8	-13.0	-34.8	
GPRS	3.700	-20.0	H	3.0	35.4	1.0	-54.4	-13.0	-41.4	
	5.551	3.9	H	3.0	34.7	1.0	-29.8	-13.0	-16.8	
	7.401	-8.6	H	3.0	34.9	1.0	-42.5	-13.0	-29.5	
	Mid Ch, 1880.0MHz									
	3.760	-13.8	V	3.0	35.3	1.0	-48.2	-13.0	-35.2	
	5.640	-8.2	V	3.0	34.7	1.0	-42.0	-13.0	-29.0	
	7.520	-14.8	V	3.0	34.9	1.0	-48.7	-13.0	-35.7	
	3.760	-14.2	H	3.0	35.3	1.0	-48.5	-13.0	-35.5	
	5.640	-0.7	H	3.0	34.7	1.0	-34.4	-13.0	-21.4	
	7.520	-14.6	H	3.0	34.9	1.0	-48.5	-13.0	-35.5	
	High Ch, 1909.8MHz									
	3.820	-13.9	V	3.0	35.3	1.0	-48.2	-13.0	-35.2	
	5.729	-16.1	V	3.0	34.7	1.0	-49.8	-13.0	-36.8	
	7.639	-17.0	V	3.0	35.0	1.0	-50.9	-13.0	-37.9	
	3.820	-13.6	H	3.0	35.3	1.0	-47.9	-13.0	-34.9	
	5.729	-6.7	H	3.0	34.7	1.0	-40.4	-13.0	-27.4	
	7.639	-9.5	H	3.0	35.0	1.0	-43.4	-13.0	-30.4	
Rev. 03.03.09										
Note: No other emissions were detected above the system noise floor.										

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20286							
Date:		3/23/2015							
Test Engineer:		O. Stoelting							
Configuration:		Z-pos EUT w/ AC Adapter + Headset							
Location:		Chamber B							
Mode:		EGPRS 850 MHz Harmonics							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 824.2									
Band	1648.40	-27.1	V	3.0	37.0	1.0	-63.1	-13.0	-50.1
	2472.60	-28.8	V	3.0	36.4	1.0	-64.2	-13.0	-51.2
	3296.80	-26.8	V	3.0	36.2	1.0	-62.0	-13.0	-49.0
GSM	1648.40	-24.2	H	3.0	37.0	1.0	-60.2	-13.0	-47.2
	2472.60	-30.5	H	3.0	36.4	1.0	-66.0	-13.0	-53.0
	3296.80	-26.8	H	3.0	36.2	1.0	-62.0	-13.0	-49.0
850	Mid Ch, 836.6								
	1673.20	-28.3	V	3.0	37.0	1.0	-64.3	-13.0	-51.3
	2509.80	-28.4	V	3.0	36.4	1.0	-63.8	-13.0	-50.8
EGPRS	3346.40	-26.3	V	3.0	36.1	1.0	-61.4	-13.0	-48.4
	1673.20	-30.8	H	3.0	37.0	1.0	-66.8	-13.0	-53.8
	2509.80	-30.6	H	3.0	36.4	1.0	-66.0	-13.0	-53.0
	3346.40	-26.8	H	3.0	36.1	1.0	-62.0	-13.0	-49.0
	High Ch, 848.8								
	1697.60	-30.3	V	3.0	37.0	1.0	-66.3	-13.0	-53.3
	2546.40	-23.9	V	3.0	36.4	1.0	-59.3	-13.0	-46.3
	3395.20	-26.5	V	3.0	36.1	1.0	-61.6	-13.0	-48.6
	1697.60	-30.3	H	3.0	37.0	1.0	-66.2	-13.0	-53.2
	2546.40	-28.3	H	3.0	36.4	1.0	-63.7	-13.0	-50.7
	3395.20	-26.5	H	3.0	36.1	1.0	-61.6	-13.0	-48.6

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20286							
Date:		3/23/2015							
Test Engineer:		O. Stoelting							
Configuration:		Z-pos EUT w/ AC Adapter + Headset							
Location:		Chamber B							
Mode:		GPRS 850 MHz Harmonics							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 824.2									
Band	1648.40	-25.7	V	3.0	37.0	1.0	-61.8	-13.0	-48.8
	2472.60	-27.7	V	3.0	36.4	1.0	-63.2	-13.0	-50.2
	3296.80	-26.6	V	3.0	36.2	1.0	-61.8	-13.0	-48.8
GSM	1648.40	-22.0	H	3.0	37.0	1.0	-58.1	-13.0	-45.1
	2472.60	-30.3	H	3.0	36.4	1.0	-65.7	-13.0	-52.7
	3296.80	-26.9	H	3.0	36.2	1.0	-62.0	-13.0	-49.0
850	Mid Ch, 836.6								
	1673.20	-29.5	V	3.0	37.0	1.0	-65.5	-13.0	-52.5
	2509.80	-25.3	V	3.0	36.4	1.0	-60.7	-13.0	-47.7
GPRS	3346.40	-26.6	V	3.0	36.1	1.0	-61.8	-13.0	-48.8
	1673.20	-28.3	H	3.0	37.0	1.0	-64.3	-13.0	-51.3
	2509.80	-28.9	H	3.0	36.4	1.0	-64.3	-13.0	-51.3
3346.40	High Ch, 848.8								
	1697.60	-30.3	V	3.0	37.0	1.0	-66.3	-13.0	-53.3
	2546.40	-20.1	V	3.0	36.4	1.0	-55.5	-13.0	-42.5
	3395.20	-26.5	V	3.0	36.1	1.0	-61.6	-13.0	-48.6
	1697.60	-30.9	H	3.0	37.0	1.0	-66.8	-13.0	-53.8
	2546.40	-28.2	H	3.0	36.4	1.0	-63.7	-13.0	-50.7
	3395.20	-26.6	H	3.0	36.1	1.0	-61.7	-13.0	-48.7

WCDMA

UL Verification Services Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20286							
Date:		3/23/2015							
Test Engineer:		O. Stoelting							
Configuration:		Y-pos EUT w/ AC Adapter + Headset							
Mode:		HSDPA_B2							
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									
Low Ch, 1852.4MHz									
3.705	-22.4	V	3.0	35.4	1.0	-56.8	-13.0	-43.8	
5.557	-19.2	V	3.0	34.7	1.0	-52.9	-13.0	-39.9	
Band 2									
7.410	-18.6	V	3.0	34.9	1.0	-52.6	-13.0	-39.6	
HSDPA									
3.705	-22.7	H	3.0	35.4	1.0	-57.1	-13.0	-44.1	
5.557	-19.2	H	3.0	34.7	1.0	-52.9	-13.0	-39.9	
7.410	-17.2	H	3.0	34.9	1.0	-51.2	-13.0	-38.2	
Mid Ch, 1880MHz									
3.760	-22.4	V	3.0	35.3	1.0	-56.7	-13.0	-43.7	
5.640	-20.0	V	3.0	34.7	1.0	-53.8	-13.0	-40.8	
7.520	-18.7	V	3.0	34.9	1.0	-52.6	-13.0	-39.6	
3.760	-22.5	H	3.0	35.3	1.0	-56.8	-13.0	-43.8	
5.640	-17.4	H	3.0	34.7	1.0	-51.1	-13.0	-38.1	
7.520	-16.6	H	3.0	34.9	1.0	-50.5	-13.0	-37.5	
High Ch, 1907.6MHz									
3.815	-21.9	V	3.0	35.3	1.0	-56.2	-13.0	-43.2	
5.723	-20.1	V	3.0	34.7	1.0	-53.8	-13.0	-40.8	
7.630	-18.2	V	3.0	34.9	1.0	-52.1	-13.0	-39.1	
3.815	-20.8	H	3.0	35.3	1.0	-55.1	-13.0	-42.1	
5.723	-18.4	H	3.0	34.7	1.0	-52.1	-13.0	-39.1	
7.630	-15.9	H	3.0	34.9	1.0	-49.8	-13.0	-36.8	
Rev. 03.03.09									
Note: No other emissions were detected above the system noise floor.									

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

Company: LG Electronics
Project #: 15I20286
Date: 3/23/2015
Test Engineer: O. Stoelting
Configuration: Y-pos EUT w/ AC Adapter + Headset
Mode: Rel99_B2

Chamber

5m Chamber B

Pre-amplifier

T34 8449B

Filter

Filter 1

Limit

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	Low Ch, 1852.4MHz									
	3.705	-21.8	V	3.0	35.4	1.0	-56.2	-13.0	-43.2	
Band 2	5.557	-19.7	V	3.0	34.7	1.0	-53.4	-13.0	-40.4	
	7.410	-18.6	V	3.0	34.9	1.0	-52.5	-13.0	-39.5	
REL99	3.705	-22.9	H	3.0	35.4	1.0	-57.3	-13.0	-44.3	
	5.557	-14.9	H	3.0	34.7	1.0	-48.6	-13.0	-35.6	
	7.410	-17.2	H	3.0	34.9	1.0	-51.1	-13.0	-38.1	
	Mid Ch, 1880MHz									
	3.760	-21.7	V	3.0	35.3	1.0	-56.1	-13.0	-43.1	
	5.640	-20.0	V	3.0	34.7	1.0	-53.7	-13.0	-40.7	
	7.520	-18.7	V	3.0	34.9	1.0	-52.6	-13.0	-39.6	
	3.760	-22.6	H	3.0	35.3	1.0	-56.9	-13.0	-43.9	
	5.640	-17.9	H	3.0	34.7	1.0	-51.6	-13.0	-38.6	
	7.520	-17.3	H	3.0	34.9	1.0	-51.2	-13.0	-38.2	
	High Ch, 1907.6MHz									
	3.815	-21.7	V	3.0	35.3	1.0	-56.0	-13.0	-43.0	
	5.723	-20.1	V	3.0	34.7	1.0	-53.9	-13.0	-40.9	
	7.630	-18.1	V	3.0	34.9	1.0	-52.0	-13.0	-39.0	
	3.815	-21.7	H	3.0	35.3	1.0	-56.0	-13.0	-43.0	
	5.723	-19.1	H	3.0	34.7	1.0	-52.8	-13.0	-39.8	
	7.630	-16.4	H	3.0	34.9	1.0	-50.4	-13.0	-37.4	

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

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20286							
Date:		3/23/2015							
Test Engineer:		O. Stoelting							
Configuration:		Z-pos EUT w/ AC Adapter + Headset							
Location:		Chamber B							
Mode:		HSDPA Band 5 Harmonics							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 826.4									
1652.80	-33.4	V	3.0	37.0	1.0	-69.5	-13.0	-56.5	
2479.20	-28.7	V	3.0	36.4	1.0	-64.1	-13.0	-51.1	
3305.60	-26.6	V	3.0	36.1	1.0	-61.8	-13.0	-48.8	
Band 5									
1652.80	-32.9	H	3.0	37.0	1.0	-69.0	-13.0	-56.0	
2479.20	-30.4	H	3.0	36.4	1.0	-65.8	-13.0	-52.8	
3305.60	-26.6	H	3.0	36.1	1.0	-61.7	-13.0	-48.7	
HSDPA									
Mid Ch, 836.6									
1673.20	-32.4	V	3.0	37.0	1.0	-68.4	-13.0	-55.4	
2509.80	-28.5	V	3.0	36.4	1.0	-63.9	-13.0	-50.9	
3346.40	-26.7	V	3.0	36.1	1.0	-61.8	-13.0	-48.8	
1673.20	-32.8	H	3.0	37.0	1.0	-68.8	-13.0	-55.8	
2509.80	-30.3	H	3.0	36.4	1.0	-65.7	-13.0	-52.7	
3346.40	-26.8	H	3.0	36.1	1.0	-61.9	-13.0	-48.9	
High Ch, 846.6									
1693.20	-32.8	V	3.0	37.0	1.0	-68.7	-13.0	-55.7	
2539.80	-28.1	V	3.0	36.4	1.0	-63.5	-13.0	-50.5	
3386.40	-26.5	V	3.0	36.1	1.0	-61.5	-13.0	-48.5	
1693.20	-32.7	H	3.0	37.0	1.0	-68.7	-13.0	-55.7	
2539.80	-30.5	H	3.0	36.4	1.0	-65.9	-13.0	-52.9	
3386.40	-26.6	H	3.0	36.1	1.0	-61.7	-13.0	-48.7	

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20286							
Date:		3/23/2015							
Test Engineer:		O. Stoelting							
Configuration:		Z-pos EUT w/ AC Adapter + Headset							
Location:		Chamber B							
Mode:		Rel99 Band 5 Harmonics							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 826.4									
1652.80	-32.9	V	3.0	37.0	1.0	-68.9	-13.0	-55.9	
2479.20	-28.8	V	3.0	36.4	1.0	-64.2	-13.0	-51.2	
3305.60	-26.7	V	3.0	36.1	1.0	-61.9	-13.0	-48.9	
Band 5									
1652.80	-32.9	H	3.0	37.0	1.0	-68.9	-13.0	-55.9	
2479.20	-30.5	H	3.0	36.4	1.0	-65.9	-13.0	-52.9	
3305.60	-27.0	H	3.0	36.1	1.0	-62.1	-13.0	-49.1	
REL99									
Mid Ch, 836.6									
1673.20	-32.9	V	3.0	37.0	1.0	-68.9	-13.0	-55.9	
2509.80	-28.3	V	3.0	36.4	1.0	-63.7	-13.0	-50.7	
3346.40	-26.6	V	3.0	36.1	1.0	-61.7	-13.0	-48.7	
1673.20	-32.6	H	3.0	37.0	1.0	-68.6	-13.0	-55.6	
2509.80	-30.5	H	3.0	36.4	1.0	-65.9	-13.0	-52.9	
3346.40	-26.9	H	3.0	36.1	1.0	-62.0	-13.0	-49.0	
High Ch, 846.6									
1693.20	-32.7	V	3.0	37.0	1.0	-68.6	-13.0	-55.6	
2539.80	-27.6	V	3.0	36.4	1.0	-63.1	-13.0	-50.1	
3386.40	-26.4	V	3.0	36.1	1.0	-61.5	-13.0	-48.5	
1693.20	-32.2	H	3.0	37.0	1.0	-68.2	-13.0	-55.2	
2539.80	-30.6	H	3.0	36.4	1.0	-66.0	-13.0	-53.0	
3386.40	-26.8	H	3.0	36.1	1.0	-61.8	-13.0	-48.8	

CDMA

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20286							
Date:		4/2/2015							
Test Engineer:		R.Z							
Configuration:		EUT , AC Adapter, Headset							
Location:		Chamber G							
Mode:		CDMA EVDO BC1 Harmonics							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1851.25									
3702.50	-15.8	V	3.0	35.9	1.0	-50.7	-13.0	-37.7	
5553.75	-10.3	V	3.0	35.5	1.0	-44.7	-13.0	-31.7	
7405.00	-8.8	V	3.0	35.7	1.0	-43.6	-13.0	-30.6	
3702.50	-15.3	H	3.0	35.9	1.0	-50.2	-13.0	-37.2	
5553.75	-12.2	H	3.0	35.5	1.0	-46.6	-13.0	-33.6	
7405.00	-10.9	H	3.0	35.7	1.0	-45.6	-13.0	-32.6	
Mid Ch, 1880									
3760.00	-17.8	V	3.0	35.8	1.0	-52.6	-13.0	-39.6	
5640.00	-15.7	V	3.0	35.5	1.0	-50.2	-13.0	-37.2	
7520.00	-7.7	V	3.0	35.7	1.0	-42.5	-13.0	-29.5	
3760.00	-19.1	H	3.0	35.8	1.0	-53.9	-13.0	-40.9	
5640.00	-15.3	H	3.0	35.5	1.0	-49.8	-13.0	-36.8	
7520.00	-12.2	H	3.0	35.7	1.0	-47.0	-13.0	-34.0	
High Ch, 1908.75									
3817.50	-18.2	V	3.0	35.8	1.0	-53.0	-13.0	-40.0	
5726.25	-16.2	V	3.0	35.5	1.0	-50.7	-13.0	-37.7	
7635.00	-13.5	V	3.0	35.8	1.0	-48.2	-13.0	-35.2	
3817.50	-18.1	H	3.0	35.8	1.0	-52.9	-13.0	-39.9	
5726.25	-15.2	H	3.0	35.5	1.0	-49.7	-13.0	-36.7	
7635.00	-12.3	H	3.0	35.8	1.0	-47.1	-13.0	-34.1	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20286							
Date:		4/2/2015							
Test Engineer:		R.Z							
Configuration:		EUT , AC Adapter, Headset							
Location:		Chamber G							
Mode:		CDMA 1xRTT BC1 Harmonics							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1851.25									
3702.50	-18.3	V	3.0	35.9	1.0	-53.2	-13.0	-40.2	
5553.75	-11.6	V	3.0	35.5	1.0	-46.1	-13.0	-33.1	
7405.00	-10.3	V	3.0	35.7	1.0	-45.1	-13.0	-32.1	
BC1									
3702.50	-15.8	H	3.0	35.9	1.0	-50.7	-13.0	-37.7	
5553.75	-13.8	H	3.0	35.5	1.0	-48.2	-13.0	-35.2	
7405.00	-11.5	H	3.0	35.7	1.0	-46.2	-13.0	-33.2	
1xRTT									
Mid Ch, 1880									
3760.00	-16.4	V	3.0	35.8	1.0	-51.2	-13.0	-38.2	
5640.00	-13.1	V	3.0	35.5	1.0	-47.6	-13.0	-34.6	
7520.00	-8.2	V	3.0	35.7	1.0	-43.0	-13.0	-30.0	
3760.00	-17.6	H	3.0	35.8	1.0	-52.4	-13.0	-39.4	
5640.00	-16.5	H	3.0	35.5	1.0	-51.0	-13.0	-38.0	
7520.00	-11.9	H	3.0	35.7	1.0	-46.7	-13.0	-33.7	
High Ch, 1908.75									
3817.50	-17.3	V	3.0	35.8	1.0	-52.1	-13.0	-39.1	
5726.25	-12.1	V	3.0	35.5	1.0	-46.6	-13.0	-33.6	
7635.00	-9.4	V	3.0	35.8	1.0	-44.1	-13.0	-31.1	
3817.50	-18.0	H	3.0	35.8	1.0	-52.8	-13.0	-39.8	
5726.25	-14.2	H	3.0	35.5	1.0	-48.7	-13.0	-35.7	
7635.00	-11.1	H	3.0	35.8	1.0	-45.9	-13.0	-32.9	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20286							
Date:		4/2/2015							
Test Engineer:		R.Z							
Configuration:		EUT , AC Adapter, Headset							
Location:		Chamber G							
Mode:		CDMA EVDO BC0 Harmonics							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 824.7									
1649.40	-21.9	V	3.0	37.4	1.0	-58.3	-13.0	-45.3	
2474.10	-24.4	V	3.0	36.4	1.0	-59.8	-13.0	-46.8	
3298.80	-20.0	V	3.0	35.8	1.0	-54.8	-13.0	-41.8	
1649.40	-26.4	H	3.0	37.4	1.0	-62.8	-13.0	-49.8	
2474.10	-18.3	H	3.0	36.4	1.0	-53.7	-13.0	-40.7	
3298.80	-19.9	H	3.0	35.8	1.0	-54.7	-13.0	-41.7	
Mid Ch, 836.52									
1673.04	-23.5	V	3.0	37.3	1.0	-59.8	-13.0	-46.8	
2509.56	-25.7	V	3.0	36.4	1.0	-61.1	-13.0	-48.1	
3346.08	-21.3	V	3.0	35.8	1.0	-56.1	-13.0	-43.1	
1673.04	-26.3	H	3.0	37.3	1.0	-62.6	-13.0	-49.6	
2509.56	-23.4	H	3.0	36.4	1.0	-58.8	-13.0	-45.8	
3346.08	-20.2	H	3.0	35.8	1.0	-55.0	-13.0	-42.0	
High Ch, 848.31									
1696.62	-22.3	V	3.0	37.3	1.0	-58.6	-13.0	-45.6	
2544.93	-24.4	V	3.0	36.3	1.0	-59.7	-13.0	-46.7	
3393.24	-20.6	V	3.0	35.7	1.0	-55.3	-13.0	-42.3	
1696.62	-25.5	H	3.0	37.3	1.0	-61.8	-13.0	-48.8	
2544.93	-23.4	H	3.0	36.3	1.0	-58.7	-13.0	-45.7	
3393.24	-19.8	H	3.0	35.7	1.0	-54.5	-13.0	-41.5	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20286							
Date:		4/2/2015							
Test Engineer:		R.Z							
Configuration:		EUT , AC Adapter, Headset							
Location:		Chamber G							
Mode:		CDMA 1xRTT BC0 Harmonics							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 824.7									
1649.40	-22.6	V	3.0	37.4	1.0	-59.0	-13.0	-46.0	
2474.10	-15.3	V	3.0	36.4	1.0	-50.7	-13.0	-37.7	
3298.80	-19.1	V	3.0	35.8	1.0	-53.9	-13.0	-40.9	
BC0									
1649.40	-25.7	H	3.0	37.4	1.0	-62.1	-13.0	-49.1	
2474.10	-12.7	H	3.0	36.4	1.0	-48.1	-13.0	-35.1	
3298.80	-19.7	H	3.0	35.8	1.0	-54.5	-13.0	-41.5	
1xRTT									
Mid Ch, 836.52									
1673.04	-23.9	V	3.0	37.3	1.0	-60.2	-13.0	-47.2	
2509.56	-22.5	V	3.0	36.4	1.0	-57.9	-13.0	-44.9	
3346.08	-20.4	V	3.0	35.8	1.0	-55.2	-13.0	-42.2	
1673.04	-27.1	H	3.0	37.3	1.0	-63.4	-13.0	-50.4	
2509.56	-4.5	H	3.0	36.4	1.0	-39.9	-13.0	-26.9	
3346.08	-19.9	H	3.0	35.8	1.0	-54.7	-13.0	-41.7	
High Ch, 848.31									
1696.62	-26.0	V	3.0	37.3	1.0	-62.3	-13.0	-49.3	
2544.93	-20.4	V	3.0	36.3	1.0	-55.7	-13.0	-42.7	
3393.24	-20.2	V	3.0	35.7	1.0	-54.9	-13.0	-41.9	
1696.62	-27.6	H	3.0	37.3	1.0	-63.9	-13.0	-50.9	
2544.93	-20.7	H	3.0	36.3	1.0	-56.0	-13.0	-43.0	
3393.24	-19.6	H	3.0	35.7	1.0	-54.3	-13.0	-41.3	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20286							
Date:		4/2/2015							
Test Engineer:		R.Z							
Configuration:		EUT , AC Adapter, Headset							
Location:		Chamber G							
Mode:		CDMA EVDO BC10 Harmonics							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 817.9MHz									
1.636	-25.2	V	3.0	37.4	1.0	-61.6	-13.0	-48.6	
2.454	-20.8	V	3.0	36.4	1.0	-56.2	-13.0	-43.2	
3.272	-20.2	V	3.0	35.8	1.0	-55.0	-13.0	-42.0	
1.636	-26.4	H	3.0	37.4	1.0	-62.8	-13.0	-49.8	
2.454	-22.8	H	3.0	36.4	1.0	-58.2	-13.0	-45.2	
3.272	-20.7	H	3.0	35.8	1.0	-55.5	-13.0	-42.5	
Mid Ch, 820.5MHz									
1.641	-25.7	V	3.0	37.3	1.0	-62.0	-13.0	-49.0	
2.462	-10.6	V	3.0	36.4	1.0	-46.0	-13.0	-33.0	
3.282	-20.4	V	3.0	35.8	1.0	-55.2	-13.0	-42.2	
1.641	-25.9	H	3.0	37.3	1.0	-62.2	-13.0	-49.2	
2.462	-6.2	H	3.0	36.4	1.0	-41.6	-13.0	-28.6	
3.282	-19.9	H	3.0	35.8	1.0	-54.7	-13.0	-41.7	
High Ch, 823.1MHz									
1.646	-22.1	V	3.0	37.3	1.0	-58.4	-13.0	-45.4	
2.469	-21.9	V	3.0	36.3	1.0	-57.2	-13.0	-44.2	
3.292	-20.5	V	3.0	35.7	1.0	-55.2	-13.0	-42.2	
1.646	-25.2	H	3.0	37.3	1.0	-61.5	-13.0	-48.5	
2.469	-23.4	H	3.0	36.3	1.0	-58.7	-13.0	-45.7	
3.292	-20.3	H	3.0	35.7	1.0	-55.0	-13.0	-42.0	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20286							
Date:		4/2/2015							
Test Engineer:		R.Z							
Configuration:		EUT , AC Adapter, Headset							
Location:		Chamber G							
Mode:		CDMA 1xRTT BC10 Harmonics							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 817.9MHz									
1.636	-25.8	V	3.0	37.4	1.0	-62.2	-13.0	-49.2	
2.454	-21.2	V	3.0	36.4	1.0	-56.6	-13.0	-43.6	
3.272	-21.0	V	3.0	35.8	1.0	-55.8	-13.0	-42.8	
BC10									
1.636	-26.6	H	3.0	37.4	1.0	-63.0	-13.0	-50.0	
2.454	-23.5	H	3.0	36.4	1.0	-58.9	-13.0	-45.9	
3.272	-20.1	H	3.0	35.8	1.0	-54.9	-13.0	-41.9	
1xRTT									
Mid Ch, 820.5MHz									
1.641	-25.0	V	3.0	37.3	1.0	-61.3	-13.0	-48.3	
2.462	-9.4	V	3.0	36.4	1.0	-44.8	-13.0	-31.8	
3.282	-19.9	V	3.0	35.8	1.0	-54.7	-13.0	-41.7	
1.641	-25.0	H	3.0	37.3	1.0	-61.3	-13.0	-48.3	
2.462	-2.2	H	3.0	36.4	1.0	-37.6	-13.0	-24.6	
3.282	-20.9	H	3.0	35.8	1.0	-55.7	-13.0	-42.7	
High Ch, 823.1MHz									
1.646	-23.1	V	3.0	37.3	1.0	-59.4	-13.0	-46.4	
2.469	-21.7	V	3.0	36.3	1.0	-57.0	-13.0	-44.0	
3.292	-21.4	V	3.0	35.7	1.0	-56.1	-13.0	-43.1	
1.646	-25.6	H	3.0	37.3	1.0	-61.9	-13.0	-48.9	
2.469	-23.5	H	3.0	36.3	1.0	-58.8	-13.0	-45.8	
3.292	-21.0	H	3.0	35.7	1.0	-55.7	-13.0	-42.7	

LTE Band 2

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20286							
Date:		3/15/2015							
Test Engineer:		O. Stoelting							
Configuration:		X-pos EUT/ AC Charger/ Headset							
Location:		Chamber A							
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	-18.7	V	3.0	35.8	1.0	-53.6	-13.0	-40.6
	5580.00	-13.8	V	3.0	35.5	1.0	-48.3	-13.0	-35.3
LTE2	7440.00	-14.6	V	3.0	35.7	1.0	-49.3	-13.0	-36.3
	3720.00	-20.6	H	3.0	35.8	1.0	-55.5	-13.0	-42.5
20MHz	5580.00	-15.4	H	3.0	35.5	1.0	-49.9	-13.0	-36.9
	7440.00	-16.5	H	3.0	35.7	1.0	-51.2	-13.0	-38.2
Mid Ch, 1880									
16QAM	3760.00	-20.5	V	3.0	35.8	1.0	-55.3	-13.0	-42.3
	5640.00	-14.9	V	3.0	35.5	1.0	-49.4	-13.0	-36.4
	7520.00	-13.0	V	3.0	35.7	1.0	-47.7	-13.0	-34.7
	3760.00	-21.1	H	3.0	35.8	1.0	-55.9	-13.0	-42.9
	5640.00	-18.3	H	3.0	35.5	1.0	-52.8	-13.0	-39.8
	7520.00	-15.8	H	3.0	35.7	1.0	-50.6	-13.0	-37.6
High Ch, 1900									
	3800.00	-20.0	V	3.0	35.8	1.0	-54.7	-13.0	-41.7
	5700.00	-17.8	V	3.0	35.5	1.0	-52.3	-13.0	-39.3
	7600.00	-13.8	V	3.0	35.8	1.0	-48.5	-13.0	-35.5
	3800.00	-20.4	H	3.0	35.8	1.0	-55.2	-13.0	-42.2
	5700.00	-18.3	H	3.0	35.5	1.0	-52.8	-13.0	-39.8
	7600.00	-14.8	H	3.0	35.8	1.0	-49.6	-13.0	-36.6

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20286							
Date:		3/15/2015							
Test Engineer:		O. Stoelting							
Configuration:		X-pos EUT/ AC Charger/ Headset							
Location:		Chamber A							
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	-18.3	V	3.0	35.8	1.0	-53.2	-13.0	-40.2
	5580.00	-13.7	V	3.0	35.5	1.0	-48.2	-13.0	-35.2
LTE2	7440.00	-14.5	V	3.0	35.7	1.0	-49.2	-13.0	-36.2
	3720.00	-20.7	H	3.0	35.8	1.0	-55.6	-13.0	-42.6
20MHz	5580.00	-16.2	H	3.0	35.5	1.0	-50.7	-13.0	-37.7
	7440.00	-16.5	H	3.0	35.7	1.0	-51.3	-13.0	-38.3
Mid Ch, 1880									
QPSK	3760.00	-20.2	V	3.0	35.8	1.0	-55.0	-13.0	-42.0
	5640.00	-14.9	V	3.0	35.5	1.0	-49.3	-13.0	-36.3
	7520.00	-12.8	V	3.0	35.7	1.0	-47.6	-13.0	-34.6
	3760.00	-20.7	H	3.0	35.8	1.0	-55.5	-13.0	-42.5
	5640.00	-18.3	H	3.0	35.5	1.0	-52.8	-13.0	-39.8
	7520.00	-15.9	H	3.0	35.7	1.0	-50.7	-13.0	-37.7
High Ch, 1900									
	3800.00	-20.2	V	3.0	35.8	1.0	-55.0	-13.0	-42.0
	5700.00	-18.4	V	3.0	35.5	1.0	-52.9	-13.0	-39.9
	7600.00	-14.0	V	3.0	35.8	1.0	-48.8	-13.0	-35.8
	3800.00	-20.0	H	3.0	35.8	1.0	-54.8	-13.0	-41.8
	5700.00	-17.5	H	3.0	35.5	1.0	-52.0	-13.0	-39.0
	7600.00	-15.6	H	3.0	35.8	1.0	-50.3	-13.0	-37.3

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20286							
Date:		3/15/2015							
Test Engineer:		O. Stoelting							
Configuration:		X-pos EUT/ AC Charger/ Headset							
Location:		Chamber A							
Mode:		LTE_16QAM Band 2 Harmonics, 15MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1857.5									
Band	3715.00	-18.5	V	3.0	35.8	1.0	-53.3	-13.0	-40.3
	5572.50	-8.2	V	3.0	35.5	1.0	-42.6	-13.0	-29.6
LTE2	7430.00	-14.2	V	3.0	35.7	1.0	-49.0	-13.0	-36.0
	3715.00	-20.7	H	3.0	35.8	1.0	-55.6	-13.0	-42.6
	5572.50	-15.8	H	3.0	35.5	1.0	-50.3	-13.0	-37.3
15MHz	7430.00	-16.6	H	3.0	35.7	1.0	-51.3	-13.0	-38.3
Mid Ch, 1880									
16QAM	3760.00	-18.2	V	3.0	35.8	1.0	-53.0	-13.0	-40.0
	5640.00	-17.7	V	3.0	35.5	1.0	-52.2	-13.0	-39.2
	7520.00	-12.5	V	3.0	35.7	1.0	-47.3	-13.0	-34.3
	3760.00	-20.6	H	3.0	35.8	1.0	-55.4	-13.0	-42.4
	5640.00	-18.2	H	3.0	35.5	1.0	-52.7	-13.0	-39.7
	7520.00	-14.2	H	3.0	35.7	1.0	-49.0	-13.0	-36.0
High Ch, 1902.5									
	3805.00	-20.5	V	3.0	35.8	1.0	-55.2	-13.0	-42.2
	5707.50	-17.6	V	3.0	35.5	1.0	-52.1	-13.0	-39.1
	7610.00	-13.3	V	3.0	35.8	1.0	-48.1	-13.0	-35.1
	3805.00	-20.5	H	3.0	35.8	1.0	-55.3	-13.0	-42.3
	5707.50	-17.9	H	3.0	35.5	1.0	-52.4	-13.0	-39.4
	7610.00	-15.6	H	3.0	35.8	1.0	-50.4	-13.0	-37.4

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20286							
Date:		3/15/2015							
Test Engineer:		O. Stoelting							
Configuration:		X-pos EUT/ AC Charger/ Headset							
Location:		Chamber A							
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	-19.4	V	3.0	35.8	1.0	-54.3	-13.0	-41.3	
5572.50	-9.0	V	3.0	35.5	1.0	-43.5	-13.0	-30.5	
LTE2									
7430.00	-15.1	V	3.0	35.7	1.0	-49.9	-13.0	-36.9	
3715.00	-21.1	H	3.0	35.8	1.0	-55.9	-13.0	-42.9	
5572.50	-15.9	H	3.0	35.5	1.0	-50.4	-13.0	-37.4	
15MHz									
7430.00	-16.3	H	3.0	35.7	1.0	-51.0	-13.0	-38.0	
QPSK									
Mid Ch, 1880									
3760.00	-19.5	V	3.0	35.8	1.0	-54.3	-13.0	-41.3	
5640.00	-17.6	V	3.0	35.5	1.0	-52.1	-13.0	-39.1	
7520.00	-12.7	V	3.0	35.7	1.0	-47.5	-13.0	-34.5	
3760.00	-20.2	H	3.0	35.8	1.0	-55.0	-13.0	-42.0	
5640.00	-18.6	H	3.0	35.5	1.0	-53.1	-13.0	-40.1	
7520.00	-14.9	H	3.0	35.7	1.0	-49.6	-13.0	-36.6	
High Ch, 1902.5									
3805.00	-20.0	V	3.0	35.8	1.0	-54.8	-13.0	-41.8	
5707.50	-17.1	V	3.0	35.5	1.0	-51.6	-13.0	-38.6	
7610.00	-13.8	V	3.0	35.8	1.0	-48.5	-13.0	-35.5	
3805.00	-20.2	H	3.0	35.8	1.0	-54.9	-13.0	-41.9	
5707.50	-17.5	H	3.0	35.5	1.0	-52.0	-13.0	-39.0	
7610.00	-15.9	H	3.0	35.8	1.0	-50.6	-13.0	-37.6	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20286							
Date:		3/13/2015							
Test Engineer:		O. Stoelting							
Configuration:		X-pos 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
Low Ch, 1855									
Band	3710.00	-19.0	V	3.0	35.9	1.0	-53.8	-13.0	-40.8
	5565.00	-21.7	V	3.0	35.5	1.0	-56.1	-13.0	-43.1
LTE2	7420.00	-17.3	V	3.0	35.7	1.0	-52.0	-13.0	-39.0
	3710.00	-20.9	H	3.0	35.9	1.0	-55.7	-13.0	-42.7
	5565.00	-20.9	H	3.0	35.5	1.0	-55.4	-13.0	-42.4
10MHz	7420.00	-17.1	H	3.0	35.7	1.0	-51.8	-13.0	-38.8
Mid Ch, 1880									
16QAM	3760.00	-22.4	V	3.0	35.8	1.0	-57.2	-13.0	-44.2
	5640.00	-19.1	V	3.0	35.5	1.0	-53.6	-13.0	-40.6
	7520.00	-16.9	V	3.0	35.7	1.0	-51.7	-13.0	-38.7
	3760.00	-24.9	H	3.0	35.8	1.0	-59.7	-13.0	-46.7
	5640.00	-19.6	H	3.0	35.5	1.0	-54.1	-13.0	-41.1
	7520.00	-16.9	H	3.0	35.7	1.0	-51.6	-13.0	-38.6
High Ch, 1905									
	3810.00	-23.2	V	3.0	35.8	1.0	-58.0	-13.0	-45.0
	5715.00	-18.8	V	3.0	35.5	1.0	-53.3	-13.0	-40.3
	7620.00	-17.2	V	3.0	35.8	1.0	-52.0	-13.0	-39.0
	3810.00	-23.7	H	3.0	35.8	1.0	-58.5	-13.0	-45.5
	5715.00	-20.0	H	3.0	35.5	1.0	-54.5	-13.0	-41.5
	7620.00	-16.4	H	3.0	35.8	1.0	-51.2	-13.0	-38.2

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20286							
Date:		3/13/2015							
Test Engineer:		O. Stoelting							
Configuration:		X-pos 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
Low Ch, 1855									
Band	3710.00	-17.4	V	3.0	35.9	1.0	-52.3	-13.0	-39.3
	5565.00	-21.2	V	3.0	35.5	1.0	-55.7	-13.0	-42.7
LTE2	7420.00	-17.6	V	3.0	35.7	1.0	-52.3	-13.0	-39.3
	3710.00	-19.9	H	3.0	35.9	1.0	-54.7	-13.0	-41.7
10MHz	5565.00	-21.0	H	3.0	35.5	1.0	-55.5	-13.0	-42.5
	7420.00	-16.8	H	3.0	35.7	1.0	-51.5	-13.0	-38.5
Mid Ch, 1880									
QPSK	3760.00	-22.3	V	3.0	35.8	1.0	-57.1	-13.0	-44.1
	5640.00	-19.1	V	3.0	35.5	1.0	-53.6	-13.0	-40.6
	7520.00	-17.3	V	3.0	35.7	1.0	-52.1	-13.0	-39.1
	3760.00	-24.5	H	3.0	35.8	1.0	-59.3	-13.0	-46.3
	5640.00	-19.1	H	3.0	35.5	1.0	-53.6	-13.0	-40.6
	7520.00	-17.1	H	3.0	35.7	1.0	-51.8	-13.0	-38.8
High Ch, 1905									
	3810.00	-24.2	V	3.0	35.8	1.0	-59.0	-13.0	-46.0
	5715.00	-20.9	V	3.0	35.5	1.0	-55.4	-13.0	-42.4
	7620.00	-14.5	V	3.0	35.8	1.0	-49.2	-13.0	-36.2
	3810.00	-23.6	H	3.0	35.8	1.0	-58.4	-13.0	-45.4
	5715.00	-19.8	H	3.0	35.5	1.0	-54.3	-13.0	-41.3
	7620.00	-16.0	H	3.0	35.8	1.0	-50.8	-13.0	-37.8

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20286							
Date:		3/13/2015							
Test Engineer:		O. Stoelting							
Configuration:		X-pos 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	-25.2	V	3.0	35.9	1.0	-60.0	-13.0	-47.0	
5557.50	-10.5	V	3.0	35.5	1.0	-45.0	-13.0	-32.0	
LTE2									
7410.00	-14.0	V	3.0	35.7	1.0	-48.7	-13.0	-35.7	
3705.00	-23.6	H	3.0	35.9	1.0	-58.5	-13.0	-45.5	
5557.50	-14.0	H	3.0	35.5	1.0	-48.4	-13.0	-35.4	
5MHz									
7410.00	-17.0	H	3.0	35.7	1.0	-51.8	-13.0	-38.8	
16QAM									
Mid Ch, 1880									
3760.00	-24.1	V	3.0	35.8	1.0	-58.9	-13.0	-45.9	
5640.00	-18.6	V	3.0	35.5	1.0	-53.1	-13.0	-40.1	
7520.00	-17.5	V	3.0	35.7	1.0	-52.3	-13.0	-39.3	
3760.00	-25.0	H	3.0	35.8	1.0	-59.8	-13.0	-46.8	
5640.00	-18.8	H	3.0	35.5	1.0	-53.3	-13.0	-40.3	
7520.00	-17.2	H	3.0	35.7	1.0	-51.9	-13.0	-38.9	
High Ch, 1907.5									
3815.00	-24.4	V	3.0	35.8	1.0	-59.1	-13.0	-46.1	
5722.50	-14.1	V	3.0	35.5	1.0	-48.6	-13.0	-35.6	
7630.00	-15.2	V	3.0	35.8	1.0	-50.0	-13.0	-37.0	
3815.00	-24.8	H	3.0	35.8	1.0	-59.5	-13.0	-46.5	
5722.50	-19.4	H	3.0	35.5	1.0	-53.9	-13.0	-40.9	
7630.00	-16.3	H	3.0	35.8	1.0	-51.1	-13.0	-38.1	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20286							
Date:		3/13/2015							
Test Engineer:		O. Stoelting							
Configuration:		X-pos 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
Low Ch, 1852.5									
Band	3705.00	-24.5	V	3.0	35.9	1.0	-59.3	-13.0	-46.3
	5557.50	-12.1	V	3.0	35.5	1.0	-46.6	-13.0	-33.6
LTE2	7410.00	-14.3	V	3.0	35.7	1.0	-49.0	-13.0	-36.0
	3705.00	-23.2	H	3.0	35.9	1.0	-58.1	-13.0	-45.1
	5557.50	-14.2	H	3.0	35.5	1.0	-48.6	-13.0	-35.6
5MHz	7410.00	-16.9	H	3.0	35.7	1.0	-51.6	-13.0	-38.6
Mid Ch, 1880									
QPSK	3760.00	-24.3	V	3.0	35.8	1.0	-59.1	-13.0	-46.1
	5640.00	-18.4	V	3.0	35.5	1.0	-52.9	-13.0	-39.9
	7520.00	-17.6	V	3.0	35.7	1.0	-52.4	-13.0	-39.4
	3760.00	-24.7	H	3.0	35.8	1.0	-59.5	-13.0	-46.5
	5640.00	-18.1	H	3.0	35.5	1.0	-52.6	-13.0	-39.6
	7520.00	-16.9	H	3.0	35.7	1.0	-51.7	-13.0	-38.7
High Ch, 1907.5									
	3815.00	-24.4	V	3.0	35.8	1.0	-59.1	-13.0	-46.1
	5722.50	-14.8	V	3.0	35.5	1.0	-49.3	-13.0	-36.3
	7630.00	-15.7	V	3.0	35.8	1.0	-50.5	-13.0	-37.5
	3815.00	-24.4	H	3.0	35.8	1.0	-59.2	-13.0	-46.2
	5722.50	-19.8	H	3.0	35.5	1.0	-54.3	-13.0	-41.3
	7630.00	-16.4	H	3.0	35.8	1.0	-51.2	-13.0	-38.2

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20286							
Date:		3/13/2015							
Test Engineer:		O. Stoelting							
Configuration:		X-pos 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
Low Ch, 1851.5									
Band	3703.00	-23.3	V	3.0	35.9	1.0	-58.2	-13.0	-45.2
	5554.50	-15.9	V	3.0	35.5	1.0	-50.4	-13.0	-37.4
LTE2	7406.00	-17.4	V	3.0	35.7	1.0	-52.2	-13.0	-39.2
	3703.00	-25.3	H	3.0	35.9	1.0	-60.1	-13.0	-47.1
	5554.50	-20.9	H	3.0	35.5	1.0	-55.4	-13.0	-42.4
3MHz	7406.00	-17.0	H	3.0	35.7	1.0	-51.8	-13.0	-38.8
Mid Ch, 1880									
16QAM	3760.00	-21.4	V	3.0	35.8	1.0	-56.3	-13.0	-43.3
	5640.00	-15.6	V	3.0	35.5	1.0	-50.1	-13.0	-37.1
	7520.00	-14.3	V	3.0	35.7	1.0	-49.1	-13.0	-36.1
	3760.00	-23.4	H	3.0	35.8	1.0	-58.2	-13.0	-45.2
	5640.00	-20.8	H	3.0	35.5	1.0	-55.3	-13.0	-42.3
	7520.00	-16.9	H	3.0	35.7	1.0	-51.6	-13.0	-38.6
High Ch, 1908.5									
	3817.00	-22.5	V	3.0	35.8	1.0	-57.2	-13.0	-44.2
	5725.50	-17.3	V	3.0	35.5	1.0	-51.8	-13.0	-38.8
	7634.00	-16.7	V	3.0	35.8	1.0	-51.5	-13.0	-38.5
	3817.00	-23.2	H	3.0	35.8	1.0	-58.0	-13.0	-45.0
	5725.50	-19.8	H	3.0	35.5	1.0	-54.3	-13.0	-41.3
	7634.00	-16.5	H	3.0	35.8	1.0	-51.2	-13.0	-38.2

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I20286								
Date:		3/13/2015								
Test Engineer:		O. Stoelting								
Configuration:		X-pos 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, 1852.5									
	3705.00	-22.7	V	3.0	35.9	1.0	-57.6	-13.0	-44.6	
LTE2	5557.50	-16.7	V	3.0	35.5	1.0	-51.2	-13.0	-38.2	
	7410.00	-16.9	V	3.0	35.7	1.0	-51.6	-13.0	-38.6	
3MHz	3705.00	-25.3	H	3.0	35.9	1.0	-60.2	-13.0	-47.2	
	5557.50	-20.9	H	3.0	35.5	1.0	-55.3	-13.0	-42.3	
QPSK	7410.00	-16.6	H	3.0	35.7	1.0	-51.4	-13.0	-38.4	
	Mid Ch, 1880									
	3760.00	-21.9	V	3.0	35.8	1.0	-56.7	-13.0	-43.7	
	5640.00	-16.2	V	3.0	35.5	1.0	-50.7	-13.0	-37.7	
	7520.00	-14.2	V	3.0	35.7	1.0	-49.0	-13.0	-36.0	
	3760.00	-23.2	H	3.0	35.8	1.0	-58.0	-13.0	-45.0	
	5640.00	-20.9	H	3.0	35.5	1.0	-55.4	-13.0	-42.4	
	7520.00	-16.8	H	3.0	35.7	1.0	-51.5	-13.0	-38.5	
High Ch, 1907.5										
	3815.00	-22.2	V	3.0	35.8	1.0	-56.9	-13.0	-43.9	
	5722.50	-17.3	V	3.0	35.5	1.0	-51.8	-13.0	-38.8	
	7630.00	-16.7	V	3.0	35.8	1.0	-51.4	-13.0	-38.4	
	3815.00	-23.1	H	3.0	35.8	1.0	-57.9	-13.0	-44.9	
	5722.50	-19.4	H	3.0	35.5	1.0	-53.9	-13.0	-40.9	
	7630.00	-16.2	H	3.0	35.8	1.0	-50.9	-13.0	-37.9	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20286							
Date:		3/13/2015							
Test Engineer:		O. Stoelting							
Configuration:		X-pos 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	-24.9	V	3.0	35.9	1.0	-59.7	-13.0	-46.7	
5552.10	-13.7	V	3.0	35.5	1.0	-48.2	-13.0	-35.2	
7402.80	-15.7	V	3.0	35.7	1.0	-50.4	-13.0	-37.4	
3701.40	-23.1	H	3.0	35.9	1.0	-58.0	-13.0	-45.0	
5552.10	-20.0	H	3.0	35.5	1.0	-54.5	-13.0	-41.5	
7402.80	-17.1	H	3.0	35.7	1.0	-51.8	-13.0	-38.8	
Mid Ch, 1880									
3760.00	-24.7	V	3.0	35.8	1.0	-44.7	-13.0	-31.7	
5640.00	-17.9	V	3.0	35.5	1.0	-52.4	-13.0	-39.4	
7520.00	-17.0	V	3.0	35.7	1.0	-51.8	-13.0	-38.8	
3760.00	-24.9	H	3.0	35.8	1.0	-59.7	-13.0	-46.7	
5640.00	-20.7	H	3.0	35.5	1.0	-55.2	-13.0	-42.2	
7520.00	-16.8	H	3.0	35.7	1.0	-51.5	-13.0	-38.5	
High Ch, 1909.3									
3818.60	-21.0	V	3.0	35.8	1.0	-55.7	-13.0	-42.7	
5727.90	-18.7	V	3.0	35.5	1.0	-53.2	-13.0	-40.2	
7637.20	-17.2	V	3.0	35.8	1.0	-52.0	-13.0	-39.0	
3818.60	-25.0	H	3.0	35.8	1.0	-59.8	-13.0	-46.8	
5727.90	-19.8	H	3.0	35.5	1.0	-54.3	-13.0	-41.3	
7637.20	-15.3	H	3.0	35.8	1.0	-50.1	-13.0	-37.1	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20286							
Date:		3/13/2015							
Test Engineer:		O. Stoelting							
Configuration:		X-pos 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
Low Ch, 1850.7									
Band	3701.40	-24.9	V	3.0	35.9	1.0	-59.7	-13.0	-46.7
	5552.10	-13.6	V	3.0	35.5	1.0	-48.0	-13.0	-35.0
LTE2	7402.80	-16.6	V	3.0	35.7	1.0	-51.4	-13.0	-38.4
	3701.40	-23.8	H	3.0	35.9	1.0	-58.7	-13.0	-45.7
	5552.10	-20.6	H	3.0	35.5	1.0	-55.1	-13.0	-42.1
1.4MHz	7402.80	-16.7	H	3.0	35.7	1.0	-51.4	-13.0	-38.4
Mid Ch, 1880									
QPSK	3760.00	-24.8	V	3.0	35.8	1.0	-59.6	-13.0	-46.6
	5640.00	-18.4	V	3.0	35.5	1.0	-52.9	-13.0	-39.9
	7520.00	-17.7	V	3.0	35.7	1.0	-52.4	-13.0	-39.4
	3760.00	-24.5	H	3.0	35.8	1.0	-59.3	-13.0	-46.3
	5640.00	-20.2	H	3.0	35.5	1.0	-54.7	-13.0	-41.7
	7520.00	-17.0	H	3.0	35.7	1.0	-51.8	-13.0	-38.8
High Ch, 1909.3									
	3818.60	-22.1	V	3.0	35.8	1.0	-56.9	-13.0	-43.9
	5727.90	-17.6	V	3.0	35.5	1.0	-52.1	-13.0	-39.1
	7637.20	-17.2	V	3.0	35.8	1.0	-51.9	-13.0	-38.9
	3818.60	-24.5	H	3.0	35.8	1.0	-59.3	-13.0	-46.3
	5727.90	-19.6	H	3.0	35.5	1.0	-54.1	-13.0	-41.1
	7637.20	-15.4	H	3.0	35.8	1.0	-50.2	-13.0	-37.2

LTE Band 4

Compliance Certification Services									
Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20286							
Date:		3/15/2015							
Test Engineer:		O. Stoelting							
Configuration:		X-pos EUT/ AC Charger/ Headset							
Location:		Chamber A							
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
Band									
LTE4									
20MHz									
16QAM									
Low Ch, 1720									
3440.00	-16.6	V	3.0	36.0	1.0	-51.6	-13.0	-38.6	
5160.00	-18.6	V	3.0	35.4	1.0	-53.1	-13.0	-40.1	
6880.00	-18.5	V	3.0	35.7	1.0	-53.2	-13.0	-40.2	
3440.00	-24.3	H	3.0	36.0	1.0	-59.3	-13.0	-46.3	
5160.00	-18.3	H	3.0	35.4	1.0	-52.7	-13.0	-39.7	
6880.00	-17.0	H	3.0	35.7	1.0	-51.6	-13.0	-38.6	
Mid Ch, 1732.5									
3465.00	-19.6	V	3.0	36.0	1.0	-54.7	-13.0	-41.7	
5197.50	-18.8	V	3.0	35.4	1.0	-53.2	-13.0	-40.2	
6930.00	-18.2	V	3.0	35.7	1.0	-52.9	-13.0	-39.9	
3465.00	-22.6	H	3.0	36.0	1.0	-57.6	-13.0	-44.6	
5197.50	-18.4	H	3.0	35.4	1.0	-52.9	-13.0	-39.9	
6930.00	-17.0	H	3.0	35.7	1.0	-51.6	-13.0	-38.6	
High Ch, 1745									
3490.00	-17.0	V	3.0	36.0	1.0	-52.0	-13.0	-39.0	
5235.00	-19.5	V	3.0	35.4	1.0	-53.9	-13.0	-40.9	
6980.00	-18.1	V	3.0	35.7	1.0	-52.8	-13.0	-39.8	
3490.00	-21.5	H	3.0	36.0	1.0	-56.6	-13.0	-43.6	
5235.00	-18.9	H	3.0	35.4	1.0	-53.3	-13.0	-40.3	
6980.00	-16.8	H	3.0	35.7	1.0	-51.4	-13.0	-38.4	

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20286							
Date:		3/15/2015							
Test Engineer:		O. Stoelting							
Configuration:		X-pos EUT/ AC Charger/ Headset							
Location:		Chamber A							
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
Low Ch, 1720									
Band	3440.00	-17.4	V	3.0	36.0	1.0	-52.5	-13.0	-39.5
	5160.00	-18.3	V	3.0	35.4	1.0	-52.7	-13.0	-39.7
LTE4	6880.00	-18.6	V	3.0	35.7	1.0	-53.2	-13.0	-40.2
	3440.00	-24.0	H	3.0	36.0	1.0	-59.1	-13.0	-46.1
	5160.00	-18.3	H	3.0	35.4	1.0	-52.7	-13.0	-39.7
20MHz	6880.00	-16.9	H	3.0	35.7	1.0	-51.6	-13.0	-38.6
Mid Ch, 1732.5									
QPSK	3465.00	-19.4	V	3.0	36.0	1.0	-54.4	-13.0	-41.4
	5197.50	-19.1	V	3.0	35.4	1.0	-53.6	-13.0	-40.6
	6930.00	-18.2	V	3.0	35.7	1.0	-52.9	-13.0	-39.9
	3465.00	-22.5	H	3.0	36.0	1.0	-57.6	-13.0	-44.6
	5197.50	-18.4	H	3.0	35.4	1.0	-52.9	-13.0	-39.9
	6930.00	-16.9	H	3.0	35.7	1.0	-51.6	-13.0	-38.6
High Ch, 1745									
	3490.00	-17.4	V	3.0	36.0	1.0	-52.5	-13.0	-39.5
	5235.00	-19.5	V	3.0	35.4	1.0	-54.0	-13.0	-41.0
	6980.00	-16.8	V	3.0	35.7	1.0	-51.4	-13.0	-38.4
	3490.00	-20.9	H	3.0	36.0	1.0	-55.9	-13.0	-42.9
	5235.00	-19.3	H	3.0	35.4	1.0	-53.7	-13.0	-40.7
	6980.00	-17.0	H	3.0	35.7	1.0	-51.7	-13.0	-38.7

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20286							
Date:		3/15/2015							
Test Engineer:		O. Stoelting							
Configuration:		X-pos EUT/ AC Charger/ Headset							
Location:		Chamber A							
Mode:		LTE_16QAM Band 4 Harmonics, 15MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band									
LTE4									
15MHz									
16QAM									
Low Ch, 1717.5									
3435.00	-24.3	V	3.0	36.1	1.0	-59.3	-13.0	-46.3	
5152.50	-18.1	V	3.0	35.4	1.0	-52.5	-13.0	-39.5	
6870.00	-19.1	V	3.0	35.7	1.0	-53.8	-13.0	-40.8	
3435.00	-21.9	H	3.0	36.1	1.0	-56.9	-13.0	-43.9	
5152.50	-17.9	H	3.0	35.4	1.0	-52.4	-13.0	-39.4	
6870.00	-16.8	H	3.0	35.7	1.0	-51.5	-13.0	-38.5	
Mid Ch, 1732.5									
3465.00	-18.5	V	3.0	36.0	1.0	-53.5	-13.0	-40.5	
5197.50	-18.8	V	3.0	35.4	1.0	-53.2	-13.0	-40.2	
6930.00	-18.6	V	3.0	35.7	1.0	-53.3	-13.0	-40.3	
3465.00	-23.4	H	3.0	36.0	1.0	-58.5	-13.0	-45.5	
5197.50	-18.0	H	3.0	35.4	1.0	-52.5	-13.0	-39.5	
6930.00	-17.0	H	3.0	35.7	1.0	-51.6	-13.0	-38.6	
High Ch, 1747.5									
3495.00	-19.0	V	3.0	36.0	1.0	-54.0	-13.0	-41.0	
5242.50	-18.1	V	3.0	35.4	1.0	-52.5	-13.0	-39.5	
6990.00	-18.4	V	3.0	35.7	1.0	-53.1	-13.0	-40.1	
3495.00	-11.0	H	3.0	36.0	1.0	-46.0	-13.0	-33.0	
5242.50	-18.9	H	3.0	35.4	1.0	-53.3	-13.0	-40.3	
6990.00	-16.8	H	3.0	35.7	1.0	-51.5	-13.0	-38.5	

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20286							
Date:		3/15/2015							
Test Engineer:		O. Stoelting							
Configuration:		X-pos EUT/ AC Charger/ Headset							
Location:		Chamber A							
Mode:		LTE_QPSK Band 4 Harmonics, 15MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band									
Low Ch, 1717.5									
3435.00	-23.9	V	3.0	36.1	1.0	-59.0	-13.0	-46.0	
5152.50	-18.8	V	3.0	35.4	1.0	-53.2	-13.0	-40.2	
LTE4									
6870.00	-18.7	V	3.0	35.7	1.0	-53.3	-13.0	-40.3	
3435.00	-22.4	H	3.0	36.1	1.0	-57.4	-13.0	-44.4	
5152.50	-18.0	H	3.0	35.4	1.0	-52.5	-13.0	-39.5	
15MHz									
6870.00	-16.1	H	3.0	35.7	1.0	-50.7	-13.0	-37.7	
QPSK									
Mid Ch, 1732.5									
3465.00	-19.6	V	3.0	36.0	1.0	-54.6	-13.0	-41.6	
5197.50	-18.9	V	3.0	35.4	1.0	-53.4	-13.0	-40.4	
6930.00	-18.6	V	3.0	35.7	1.0	-53.3	-13.0	-40.3	
3465.00	-23.9	H	3.0	36.0	1.0	-58.9	-13.0	-45.9	
5197.50	-18.5	H	3.0	35.4	1.0	-52.9	-13.0	-39.9	
6930.00	-16.9	H	3.0	35.7	1.0	-51.6	-13.0	-38.6	
High Ch, 1747.5									
3495.00	-19.9	V	3.0	36.0	1.0	-54.9	-13.0	-41.9	
5242.50	-19.5	V	3.0	35.4	1.0	-53.9	-13.0	-40.9	
6990.00	-18.3	V	3.0	35.7	1.0	-52.9	-13.0	-39.9	
3495.00	-11.9	H	3.0	36.0	1.0	-46.9	-13.0	-33.9	
5242.50	-18.9	H	3.0	35.4	1.0	-53.3	-13.0	-40.3	
6990.00	-16.9	H	3.0	35.7	1.0	-51.5	-13.0	-38.5	

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I20286								
Date:		3/15/2015								
Test Engineer:		O. Stoelting								
Configuration:		X-pos EUT/ AC Charger/ Headset								
Location:		Chamber A								
Mode:		LTE_16QAM Band 4 Harmonics, 10MHz Bandwidth								
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	
Low Ch, 1715										
Band	3430.00	-15.0	V	3.0	36.1	1.0	-50.1	-13.0	-37.1	-50.8
	5145.00	-18.7	V	3.0	35.4	1.0	-53.1	-13.0	-40.1	-47.4
LTE4	6860.00	-18.7	V	3.0	35.7	1.0	-53.3	-13.0	-40.3	-64.5
	3430.00	-16.0	H	3.0	36.1	1.0	-51.0	-13.0	-38.0	-48.1
	5145.00	-18.1	H	3.0	35.4	1.0	-52.5	-13.0	-39.5	-54.6
10MHz	6860.00	-16.8	H	3.0	35.7	1.0	-51.5	-13.0	-38.5	-63.9
Mid Ch, 1732.5										
16QAM	3465.00	-18.8	V	3.0	36.0	1.0	-53.8	-13.0	-40.8	-44.5
	5197.50	-18.8	V	3.0	35.4	1.0	-53.2	-13.0	-40.2	-48.7
	6930.00	-18.1	V	3.0	35.7	1.0	-52.7	-13.0	-39.7	-64.9
	3465.00	-23.1	H	3.0	36.0	1.0	-58.1	-13.0	-45.1	-39.0
	5197.50	-18.6	H	3.0	35.4	1.0	-53.0	-13.0	-40.0	-52.4
	6930.00	-16.6	H	3.0	35.7	1.0	-51.3	-13.0	-38.3	-64.5
High Ch, 1750										
	3500.00	-9.2	V	3.0	36.0	1.0	-44.2	-13.0	-31.2	-42.6
	5250.00	-19.7	V	3.0	35.4	1.0	-54.1	-13.0	-41.1	-46.6
	7000.00	-18.0	V	3.0	35.7	1.0	-52.7	-13.0	-39.7	-64.5
	3500.00	-11.3	H	3.0	36.0	1.0	-46.3	-13.0	-33.3	-44.0
	5250.00	-18.9	H	3.0	35.4	1.0	-53.3	-13.0	-40.3	-51.7
	7000.00	-16.9	H	3.0	35.7	1.0	-51.6	-13.0	-38.6	-64.5

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I20286								
Date:		3/15/2015								
Test Engineer:		O. Stoelting								
Configuration:		X-pos EUT/ AC Charger/ Headset								
Location:		Chamber A								
Mode:		LTE_QPSK Band 4 Harmonics, 10MHz Bandwidth								
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	
Low Ch, 1715										
Band	3430.00	-16.1	V	3.0	36.1	1.0	-51.1	-13.0	-38.1	-47.2
	5145.00	-17.7	V	3.0	35.4	1.0	-52.2	-13.0	-39.2	-47.9
LTE4	6860.00	-18.4	V	3.0	35.7	1.0	-53.1	-13.0	-40.1	-64.2
	3430.00	-17.5	H	3.0	36.1	1.0	-52.6	-13.0	-39.6	-44.2
	5145.00	-17.7	H	3.0	35.4	1.0	-52.1	-13.0	-39.1	-54.1
10MHz	6860.00	-16.9	H	3.0	35.7	1.0	-51.5	-13.0	-38.5	-64.7
Mid Ch, 1732.5										
QPSK	3465.00	-19.5	V	3.0	36.0	1.0	-54.5	-13.0	-41.5	-43.5
	5197.50	-18.6	V	3.0	35.4	1.0	-53.1	-13.0	-40.1	-46.7
	6930.00	-18.5	V	3.0	35.7	1.0	-53.2	-13.0	-40.2	-64.2
	3465.00	-23.6	H	3.0	36.0	1.0	-58.6	-13.0	-45.6	-40.3
	5197.50	-18.3	H	3.0	35.4	1.0	-52.7	-13.0	-39.7	-53.2
	6930.00	-16.9	H	3.0	35.7	1.0	-51.6	-13.0	-38.6	-64.8
High Ch, 1750										
	3500.00	-10.0	V	3.0	36.0	1.0	-45.0	-13.0	-32.0	-44.2
	5250.00	-19.7	V	3.0	35.4	1.0	-54.1	-13.0	-41.1	-47.1
	7000.00	-18.5	V	3.0	35.7	1.0	-53.2	-13.0	-40.2	-64.3
	3500.00	-12.1	H	3.0	36.0	1.0	-47.1	-13.0	-34.1	-37.6
	5250.00	-18.8	H	3.0	35.4	1.0	-53.3	-13.0	-40.3	-49.2
	7000.00	-16.8	H	3.0	35.7	1.0	-51.5	-13.0	-38.5	-64.6

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20286							
Date:		3/15/2015							
Test Engineer:		O. Stoelting							
Configuration:		X-pos EUT/ AC Charger/ Headset							
Location:		Chamber A							
Mode:		LTE_16QAM Band 4 Harmonics, 5MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1712.5									
Band	3425.00	-16.2	V	3.0	36.1	1.0	-51.3	-13.0	-38.3
	5137.50	-18.6	V	3.0	35.4	1.0	-53.0	-13.0	-40.0
LTE4	6850.00	-18.3	V	3.0	35.7	1.0	-53.0	-13.0	-40.0
	3425.00	-19.4	H	3.0	36.1	1.0	-54.5	-13.0	-41.5
	5137.50	-18.1	H	3.0	35.4	1.0	-52.5	-13.0	-39.5
5MHz	6850.00	-16.6	H	3.0	35.7	1.0	-51.2	-13.0	-38.2
Mid Ch, 1732.5									
16QAM	3465.00	-20.0	V	3.0	36.0	1.0	-55.1	-13.0	-42.1
	5197.50	-17.9	V	3.0	35.4	1.0	-52.4	-13.0	-39.4
	6930.00	-18.5	V	3.0	35.7	1.0	-53.1	-13.0	-40.1
	3465.00	-23.7	H	3.0	36.0	1.0	-58.7	-13.0	-45.7
	5197.50	-18.7	H	3.0	35.4	1.0	-53.2	-13.0	-40.2
	6930.00	-16.9	H	3.0	35.7	1.0	-51.6	-13.0	-38.6
High Ch, 1752.5									
	3505.00	-15.1	V	3.0	36.0	1.0	-50.1	-13.0	-37.1
	5257.50	-19.1	V	3.0	35.4	1.0	-53.6	-13.0	-40.6
	7010.00	-18.8	V	3.0	35.7	1.0	-53.5	-13.0	-40.5
	3505.00	-17.2	H	3.0	36.0	1.0	-52.2	-13.0	-39.2
	5257.50	-19.3	H	3.0	35.4	1.0	-53.7	-13.0	-40.7
	7010.00	-16.9	H	3.0	35.7	1.0	-51.6	-13.0	-38.6

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20286							
Date:		3/15/2015							
Test Engineer:		O. Stoelting							
Configuration:		X-pos EUT/ AC Charger/ Headset							
Location:		Chamber A							
Mode:		LTE_QPSK Band 4 Harmonics, 5MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1712.5									
Band	3425.00	-16.1	V	3.0	36.1	1.0	-51.1	-13.0	-38.1
	5137.50	-18.6	V	3.0	35.4	1.0	-53.0	-13.0	-40.0
LTE4	6850.00	-18.5	V	3.0	35.7	1.0	-53.2	-13.0	-40.2
	3425.00	-19.3	H	3.0	36.1	1.0	-54.4	-13.0	-41.4
	5137.50	-18.4	H	3.0	35.4	1.0	-52.9	-13.0	-39.9
5MHz	6850.00	-17.1	H	3.0	35.7	1.0	-51.8	-13.0	-38.8
Mid Ch, 1732.5									
QPSK	3465.00	-21.2	V	3.0	36.0	1.0	-56.3	-13.0	-43.3
	5197.50	-18.3	V	3.0	35.4	1.0	-52.7	-13.0	-39.7
	6930.00	-18.6	V	3.0	35.7	1.0	-53.2	-13.0	-40.2
	3465.00	-23.6	H	3.0	36.0	1.0	-58.7	-13.0	-45.7
	5197.50	-18.0	H	3.0	35.4	1.0	-52.4	-13.0	-39.4
	6930.00	-16.7	H	3.0	35.7	1.0	-51.4	-13.0	-38.4
High Ch, 1752.5									
	3505.00	-15.8	V	3.0	36.0	1.0	-50.8	-13.0	-37.8
	5257.50	-19.1	V	3.0	35.4	1.0	-53.5	-13.0	-40.5
	7010.00	-18.7	V	3.0	35.7	1.0	-53.4	-13.0	-40.4
	3505.00	-18.1	H	3.0	36.0	1.0	-53.1	-13.0	-40.1
	5257.50	-19.3	H	3.0	35.4	1.0	-53.7	-13.0	-40.7
	7010.00	-16.8	H	3.0	35.7	1.0	-51.5	-13.0	-38.5

Compliance Certification Services									
Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20286							
Date:		3/15/2015							
Test Engineer:		O. Stoelting							
Configuration:		X-pos EUT/ AC Charger/ Headset							
Location:		Chamber A							
Mode:		LTE_16QAM Band 4 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, 1711.5									
3423.00	-13.9	V	3.0	36.1	1.0	-48.9	-13.0	-35.9	
5134.50	-18.8	V	3.0	35.4	1.0	-53.2	-13.0	-40.2	
LTE4									
6846.00	-18.6	V	3.0	35.7	1.0	-53.3	-13.0	-40.3	
3423.00	-24.1	H	3.0	36.1	1.0	-59.1	-13.0	-46.1	
5134.50	-18.1	H	3.0	35.4	1.0	-52.5	-13.0	-39.5	
3MHz									
6846.00	-17.0	H	3.0	35.7	1.0	-51.7	-13.0	-38.7	
16QAM									
Mid Ch, 1732.5									
3465.00	-21.9	V	3.0	36.0	1.0	-56.9	-13.0	-43.9	
5197.50	-18.8	V	3.0	35.4	1.0	-53.2	-13.0	-40.2	
6930.00	-17.9	V	3.0	35.7	1.0	-52.6	-13.0	-39.6	
3465.00	-23.2	H	3.0	36.0	1.0	-58.3	-13.0	-45.3	
5197.50	-18.4	H	3.0	35.4	1.0	-52.8	-13.0	-39.8	
6930.00	-17.2	H	3.0	35.7	1.0	-51.9	-13.0	-38.9	
High Ch, 1753.5									
3507.00	-17.4	V	3.0	36.0	1.0	-52.4	-13.0	-39.4	
5260.50	-18.6	V	3.0	35.4	1.0	-53.0	-13.0	-40.0	
7014.00	-18.5	V	3.0	35.7	1.0	-53.2	-13.0	-40.2	
3507.00	-15.5	H	3.0	36.0	1.0	-50.5	-13.0	-37.5	
5260.50	-17.3	H	3.0	35.4	1.0	-51.8	-13.0	-38.8	
7014.00	-16.7	H	3.0	35.7	1.0	-51.4	-13.0	-38.4	

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20286							
Date:		3/15/2015							
Test Engineer:		O. Stoelting							
Configuration:		X-pos EUT/ AC Charger/ Headset							
Location:		Chamber A							
Mode:		LTE_QPSK Band 4 Harmonics, 3MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1711.5									
Band	3423.00	-14.8	V	3.0	36.1	1.0	-49.8	-13.0	-36.8
	5134.50	-18.6	V	3.0	35.4	1.0	-53.0	-13.0	-40.0
LTE4	6846.00	-18.4	V	3.0	35.7	1.0	-53.1	-13.0	-40.1
	3423.00	-24.2	H	3.0	36.1	1.0	-59.3	-13.0	-46.3
	5134.50	-18.2	H	3.0	35.4	1.0	-52.7	-13.0	-39.7
3MHz	6846.00	-17.0	H	3.0	35.7	1.0	-51.6	-13.0	-38.6
Mid Ch, 1732.5									
QPSK	3465.00	-22.1	V	3.0	36.0	1.0	-57.1	-13.0	-44.1
	5197.50	-18.3	V	3.0	35.4	1.0	-52.7	-13.0	-39.7
	6930.00	-18.4	V	3.0	35.7	1.0	-53.1	-13.0	-40.1
	3465.00	-23.1	H	3.0	36.0	1.0	-58.1	-13.0	-45.1
	5197.50	-18.5	H	3.0	35.4	1.0	-52.9	-13.0	-39.9
	6930.00	-16.8	H	3.0	35.7	1.0	-51.5	-13.0	-38.5
High Ch, 1753.5									
	3507.00	-17.5	V	3.0	36.0	1.0	-52.5	-13.0	-39.5
	5260.50	-17.9	V	3.0	35.4	1.0	-52.4	-13.0	-39.4
	7014.00	-18.7	V	3.0	35.7	1.0	-53.4	-13.0	-40.4
	3507.00	-16.1	H	3.0	36.0	1.0	-51.1	-13.0	-38.1
	5260.50	-18.8	H	3.0	35.4	1.0	-53.2	-13.0	-40.2
	7014.00	-16.9	H	3.0	35.7	1.0	-51.5	-13.0	-38.5

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20286							
Date:		3/15/2015							
Test Engineer:		O. Stoelting							
Configuration:		X-pos EUT/ AC Charger/ Headset							
Location:		Chamber A							
Mode:		LTE_16QAM Band 4 Harmonics, 1.4MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band									
LTE4									
1.4MHz									
16QAM									
Low Ch, 1710.7									
3421.40	-18.3	V	3.0	36.1	1.0	-53.4	-13.0	-40.4	
5132.10	-18.7	V	3.0	35.4	1.0	-53.1	-13.0	-40.1	
6842.80									
3421.40	-18.9	H	3.0	36.1	1.0	-54.0	-13.0	-41.0	
5132.10	-17.4	H	3.0	35.4	1.0	-51.8	-13.0	-38.8	
6842.80	-17.2	H	3.0	35.7	1.0	-51.8	-13.0	-38.8	
Mid Ch, 1732.5									
3465.00	-18.1	V	3.0	36.0	1.0	-53.2	-13.0	-40.2	
5197.50	-19.3	V	3.0	35.4	1.0	-53.8	-13.0	-40.8	
6930.00	-18.2	V	3.0	35.7	1.0	-52.9	-13.0	-39.9	
3465.00	-21.9	H	3.0	36.0	1.0	-56.9	-13.0	-43.9	
5197.50	-18.5	H	3.0	35.4	1.0	-52.9	-13.0	-39.9	
6930.00	-16.4	H	3.0	35.7	1.0	-51.1	-13.0	-38.1	
High Ch, 1754.3									
3508.60	-12.5	V	3.0	36.0	1.0	-47.5	-13.0	-34.5	
5262.90	-16.6	V	3.0	35.4	1.0	-51.1	-13.0	-38.1	
7017.20	-16.2	V	3.0	35.7	1.0	-50.9	-13.0	-37.9	
3508.60	-14.0	H	3.0	36.0	1.0	-49.0	-13.0	-36.0	
5262.90	-18.9	H	3.0	35.4	1.0	-53.3	-13.0	-40.3	
7017.20	-16.7	H	3.0	35.7	1.0	-51.4	-13.0	-38.4	

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20286							
Date:		3/15/2015							
Test Engineer:		O. Stoelting							
Configuration:		X-pos EUT/ AC Charger/ Headset							
Location:		Chamber A							
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									
Band	3421.40	-18.7	V	3.0	36.1	1.0	-53.8	-13.0	-40.8
	5132.10	-18.5	V	3.0	35.4	1.0	-52.9	-13.0	-39.9
LTE4	6842.80	-17.9	V	3.0	35.7	1.0	-52.6	-13.0	-39.6
	3421.40	-18.7	H	3.0	36.1	1.0	-53.8	-13.0	-40.8
	5132.10	-17.8	H	3.0	35.4	1.0	-52.2	-13.0	-39.2
1.4MHz	6842.80	-16.8	H	3.0	35.7	1.0	-51.4	-13.0	-38.4
Mid Ch, 1732.5									
QPSK	3465.00	-18.2	V	3.0	36.0	1.0	-53.3	-13.0	-40.3
	5197.50	-18.7	V	3.0	35.4	1.0	-53.2	-13.0	-40.2
	6930.00	-18.3	V	3.0	35.7	1.0	-53.0	-13.0	-40.0
	3465.00	-20.5	H	3.0	36.0	1.0	-55.6	-13.0	-42.6
	5197.50	-18.4	H	3.0	35.4	1.0	-52.8	-13.0	-39.8
	6930.00	-17.0	H	3.0	35.7	1.0	-51.7	-13.0	-38.7
High Ch, 1754.3									
	3508.60	-13.4	V	3.0	36.0	1.0	-48.4	-13.0	-35.4
	5262.90	-16.3	V	3.0	35.4	1.0	-50.8	-13.0	-37.8
	7017.20	-15.7	V	3.0	35.7	1.0	-50.4	-13.0	-37.4
	3508.60	-14.6	H	3.0	36.0	1.0	-49.6	-13.0	-36.6
	5262.90	-18.8	H	3.0	35.4	1.0	-53.3	-13.0	-40.3
	7017.20	-17.1	H	3.0	35.7	1.0	-51.8	-13.0	-38.8

LTE Band 5

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20286							
Date:		4/3/2015							
Test Engineer:		R.Z							
Configuration:		EUT/ AC Charger/ Headset							
Location:		Chamber G							
Mode:		LTE_16QAM Band 5 Harmonics, 10MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 829									
1658.00	-27.3	V	3.0	37.0	1.0	-63.4	-13.0	-50.4	
2487.00	-22.7	V	3.0	36.4	1.0	-58.1	-13.0	-45.1	
3316.00	-21.5	V	3.0	36.2	1.0	-56.7	-13.0	-43.7	
10MHz									
1658.00	-27.9	H	3.0	37.0	1.0	-63.9	-13.0	-50.9	
2487.00	-19.3	H	3.0	36.4	1.0	-54.8	-13.0	-41.8	
3316.00	-22.4	H	3.0	36.2	1.0	-57.6	-13.0	-44.6	
16QAM									
Mid Ch, 836.5									
1673.00	-25.8	V	3.0	37.0	1.0	-61.8	-13.0	-48.8	
2509.50	-15.5	V	3.0	36.4	1.0	-50.9	-13.0	-37.9	
3346.00	-21.6	V	3.0	36.1	1.0	-56.7	-13.0	-43.7	
1673.00	-28.0	H	3.0	37.0	1.0	-64.0	-13.0	-51.0	
2509.50	-21.2	H	3.0	36.4	1.0	-56.6	-13.0	-43.6	
3346.00	-21.7	H	3.0	36.1	1.0	-56.8	-13.0	-43.8	
High Ch, 844									
1688.00	-25.7	V	3.0	37.0	1.0	-61.7	-13.0	-48.7	
2532.00	-17.4	V	3.0	36.4	1.0	-52.8	-13.0	-39.8	
3376.00	-20.6	V	3.0	36.1	1.0	-55.7	-13.0	-42.7	
1688.00	-26.8	H	3.0	37.0	1.0	-62.8	-13.0	-49.8	
2532.00	-20.7	H	3.0	36.4	1.0	-56.1	-13.0	-43.1	
3376.00	-21.7	H	3.0	36.1	1.0	-56.8	-13.0	-43.8	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I20286								
Date:		4/3/2015								
Test Engineer:		R.Z								
Configuration:		EUT/ AC Charger/ Headset								
Location:		Chamber G								
Mode:		LTE_QPSK Band 5 Harmonics, 10MHz Bandwidth								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band	Low Ch, 829									
	1658.00	-26.4	V	3.0	37.0	1.0	-62.5	-13.0	-49.5	
LTE5	2487.00	-21.6	V	3.0	36.4	1.0	-57.0	-13.0	-44.0	
	3316.00	-21.2	V	3.0	36.2	1.0	-56.4	-13.0	-43.4	
10MHz	1658.00	-28.1	H	3.0	37.0	1.0	-64.1	-13.0	-51.1	
	2487.00	-18.4	H	3.0	36.4	1.0	-53.9	-13.0	-40.9	
QPSK	3316.00	-21.8	H	3.0	36.2	1.0	-57.0	-13.0	-44.0	
	Mid Ch, 836.5									
	1673.00	-25.4	V	3.0	37.0	1.0	-61.4	-13.0	-48.4	
	2509.50	-14.8	V	3.0	36.4	1.0	-50.2	-13.0	-37.2	
	3346.00	-21.4	V	3.0	36.1	1.0	-56.5	-13.0	-43.5	
	1673.00	-27.7	H	3.0	37.0	1.0	-63.7	-13.0	-50.7	
	2509.50	-18.9	H	3.0	36.4	1.0	-54.3	-13.0	-41.3	
	3346.00	-22.0	H	3.0	36.1	1.0	-57.1	-13.0	-44.1	
	High Ch, 844									
	1688.00	-23.0	V	3.0	37.0	1.0	-59.0	-13.0	-46.0	
	2532.00	-16.1	V	3.0	36.4	1.0	-51.5	-13.0	-38.5	
	3376.00	-20.9	V	3.0	36.1	1.0	-56.0	-13.0	-43.0	
	1688.00	-27.5	H	3.0	37.0	1.0	-63.5	-13.0	-50.5	
	2532.00	-19.5	H	3.0	36.4	1.0	-54.9	-13.0	-41.9	
	3376.00	-22.0	H	3.0	36.1	1.0	-57.1	-13.0	-44.1	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20286							
Date:		4/3/2015							
Test Engineer:		R.Z							
Configuration:		EUT/ AC Charger/ Headset							
Location:		Chamber G							
Mode:		LTE_16QAM Band 5 Harmonics, 5MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band									
Low Ch, 826.5									
1653.00	-25.3	V	3.0	37.0	1.0	-61.3	-13.0	-48.3	
2479.50	-18.5	V	3.0	36.4	1.0	-54.0	-13.0	-41.0	
LTE5									
3306.00	-21.8	V	3.0	36.2	1.0	-56.9	-13.0	-43.9	
1653.00	-28.0	H	3.0	37.0	1.0	-64.1	-13.0	-51.1	
2479.50	-16.3	H	3.0	36.4	1.0	-51.7	-13.0	-38.7	
5MHz									
3306.00	-22.2	H	3.0	36.2	1.0	-57.3	-13.0	-44.3	
16QAM									
Mid Ch, 836.5									
1673.00	-26.2	V	3.0	37.0	1.0	-62.2	-13.0	-49.2	
2509.50	-22.8	V	3.0	36.4	1.0	-58.2	-13.0	-45.2	
3346.00	-21.7	V	3.0	36.1	1.0	-56.8	-13.0	-43.8	
1673.00	-27.7	H	3.0	37.0	1.0	-63.7	-13.0	-50.7	
2509.50	-16.2	H	3.0	36.4	1.0	-51.6	-13.0	-38.6	
3346.00	-22.2	H	3.0	36.1	1.0	-57.3	-13.0	-44.3	
High Ch, 846.5									
1693.00	-27.2	V	3.0	37.0	1.0	-63.2	-13.0	-50.2	
2539.50	-22.3	V	3.0	36.4	1.0	-57.8	-13.0	-44.8	
3386.00	-21.8	V	3.0	36.1	1.0	-56.9	-13.0	-43.9	
1693.00	-27.1	H	3.0	37.0	1.0	-63.1	-13.0	-50.1	
2539.50	-17.7	H	3.0	36.4	1.0	-53.1	-13.0	-40.1	
3386.00	-21.9	H	3.0	36.1	1.0	-57.0	-13.0	-44.0	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I20286								
Date:		4/3/2015								
Test Engineer:		R.Z								
Configuration:		EUT/ AC Charger/ Headset								
Location:		Chamber G								
Mode:		LTE_QPSK Band 5 Harmonics, 5MHz Bandwidth								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band	Low Ch, 826.5									
	1653.00	-24.0	V	3.0	37.0	1.0	-60.0	-13.0	-47.0	
LTE5	2479.50	-13.9	V	3.0	36.4	1.0	-49.4	-13.0	-36.4	
	3306.00	-22.0	V	3.0	36.2	1.0	-57.1	-13.0	-44.1	
5MHz	1653.00	-27.7	H	3.0	37.0	1.0	-63.8	-13.0	-50.8	
	2479.50	-14.5	H	3.0	36.4	1.0	-49.9	-13.0	-36.9	
QPSK	3306.00	-21.8	H	3.0	36.2	1.0	-56.9	-13.0	-43.9	
	Mid Ch, 836.5									
	1673.00	-25.9	V	3.0	37.0	1.0	-61.9	-13.0	-48.9	
	2509.50	-22.3	V	3.0	36.4	1.0	-57.7	-13.0	-44.7	
	3346.00	-21.9	V	3.0	36.1	1.0	-57.0	-13.0	-44.0	
	1673.00	-28.0	H	3.0	37.0	1.0	-64.0	-13.0	-51.0	
	2509.50	-14.2	H	3.0	36.4	1.0	-49.6	-13.0	-36.6	
	3346.00	-21.8	H	3.0	36.1	1.0	-56.9	-13.0	-43.9	
High Ch, 846.5										
	1693.00	-27.5	V	3.0	37.0	1.0	-63.5	-13.0	-50.5	
	2539.50	-22.6	V	3.0	36.4	1.0	-58.1	-13.0	-45.1	
	3386.00	-21.5	V	3.0	36.1	1.0	-56.6	-13.0	-43.6	
	1693.00	-27.4	H	3.0	37.0	1.0	-63.4	-13.0	-50.4	
	2539.50	-16.6	H	3.0	36.4	1.0	-52.0	-13.0	-39.0	
	3386.00	-21.8	H	3.0	36.1	1.0	-56.9	-13.0	-43.9	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20286							
Date:		4/3/2015							
Test Engineer:		R.Z							
Configuration:		EUT/ AC Charger/ Headset							
Location:		Chamber G							
Mode:		LTE_16QAM Band 5 Harmonics, 3MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band									
Low Ch, 825.5									
1651.00	-26.7	V	3.0	37.0	1.0	-62.8	-13.0	-49.8	
2476.50	-23.2	V	3.0	36.4	1.0	-58.6	-13.0	-45.6	
LTE5									
3302.00	-22.1	V	3.0	36.2	1.0	-57.3	-13.0	-44.3	
1651.00	-28.2	H	3.0	37.0	1.0	-64.3	-13.0	-51.3	
2476.50	-17.3	H	3.0	36.4	1.0	-52.7	-13.0	-39.7	
3MHz									
3302.00	-22.1	H	3.0	36.2	1.0	-57.3	-13.0	-44.3	
16QAM									
Mid Ch, 836.5									
1673.00	-27.0	V	3.0	37.0	1.0	-63.0	-13.0	-50.0	
2509.50	-19.3	V	3.0	36.4	1.0	-54.7	-13.0	-41.7	
3346.00	-21.7	V	3.0	36.1	1.0	-56.8	-13.0	-43.8	
1673.00	-29.5	H	3.0	37.0	1.0	-65.5	-13.0	-52.5	
2509.50	-23.4	H	3.0	36.4	1.0	-58.8	-13.0	-45.8	
3346.00	-21.9	H	3.0	36.1	1.0	-57.0	-13.0	-44.0	
High Ch, 847.5									
1695.00	-25.6	V	3.0	37.0	1.0	-61.6	-13.0	-48.6	
2542.50	-22.3	V	3.0	36.4	1.0	-57.8	-13.0	-44.8	
3390.00	-21.6	V	3.0	36.1	1.0	-56.7	-13.0	-43.7	
1695.00	-27.0	H	3.0	37.0	1.0	-63.0	-13.0	-50.0	
2542.50	-22.8	H	3.0	36.4	1.0	-58.3	-13.0	-45.3	
3390.00	-21.9	H	3.0	36.1	1.0	-57.0	-13.0	-44.0	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement											
Company:		LG Electronics									
Project #:		15I20286									
Date:		4/3/2015									
Test Engineer:		R.Z									
Configuration:		EUT/ AC Charger/ Headset									
Location:		Chamber G									
Mode:		LTE_QPSK Band 5 Harmonics, 3MHz Bandwidth									
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	
Band	Low Ch, 825.5										
		1651.00	-24.9	V	3.0	37.0	1.0	-61.0	-13.0	-48.0	
		2476.50	-15.0	V	3.0	36.4	1.0	-50.4	-13.0	-37.4	
	LTE5	3302.00	-21.7	V	3.0	36.2	1.0	-56.9	-13.0	-43.9	
		1651.00	-26.6	H	3.0	37.0	1.0	-62.7	-13.0	-49.7	
	3MHz	2476.50	-14.4	H	3.0	36.4	1.0	-49.8	-13.0	-36.8	
3302.00		-22.5	H	3.0	36.2	1.0	-57.7	-13.0	-44.7		
QPSK	Mid Ch, 836.5										
		1673.00	-26.4	V	3.0	37.0	1.0	-62.4	-13.0	-49.4	
		2509.50	-17.6	V	3.0	36.4	1.0	-53.0	-13.0	-40.0	
		3346.00	-21.9	V	3.0	36.1	1.0	-57.0	-13.0	-44.0	
		1673.00	-29.2	H	3.0	37.0	1.0	-65.2	-13.0	-52.2	
		2509.50	-21.9	H	3.0	36.4	1.0	-57.3	-13.0	-44.3	
	3346.00	-20.8	H	3.0	36.1	1.0	-55.9	-13.0	-42.9		
	High Ch, 847.5										
	1695.00	-23.8	V	3.0	37.0	1.0	-59.8	-13.0	-46.8		
	2542.50	-22.2	V	3.0	36.4	1.0	-57.7	-13.0	-44.7		
	3390.00	-21.3	V	3.0	36.1	1.0	-56.4	-13.0	-43.4		
	1695.00	-27.4	H	3.0	37.0	1.0	-63.4	-13.0	-50.4		
	2542.50	-20.2	H	3.0	36.4	1.0	-55.7	-13.0	-42.7		
	3390.00	-21.3	H	3.0	36.1	1.0	-56.4	-13.0	-43.4		

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement												
Company:		LG Electronics										
Project #:		15I20286										
Date:		4/3/2015										
Test Engineer:		R.Z										
Configuration:		EUT/ AC Charger/ Headset										
Location:		Chamber G										
Mode:		LTE_16QAM Band 5 Harmonics, 1.4MHz Bandwidth										
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes		
Band	Low Ch, 824.7											
		1649.40	-26.7	V	3.0	37.1	1.0	-62.8	-13.0	-49.8		
		2474.10	-4.5	V	3.0	36.4	1.0	-39.9	-13.0	-26.9		
	LTE5	3298.80	-21.0	V	3.0	36.2	1.0	-56.2	-13.0	-43.2		
		1649.40	-27.5	H	3.0	37.1	1.0	-63.6	-13.0	-50.6		
	1.4MHz	2474.10	3.8	H	3.0	36.4	1.0	-31.7	-13.0	-18.7		
		3298.80	-21.9	H	3.0	36.2	1.0	-57.1	-13.0	-44.1		
	16QAM	Mid Ch, 836.5										
			1673.00	-27.8	V	3.0	37.0	1.0	-63.8	-13.0	-50.8	
			2509.50	-21.2	V	3.0	36.4	1.0	-56.6	-13.0	-43.6	
			3346.00	-21.5	V	3.0	36.1	1.0	-56.6	-13.0	-43.6	
			1673.00	-27.9	H	3.0	37.0	1.0	-63.9	-13.0	-50.9	
		2509.50	-17.5	H	3.0	36.4	1.0	-52.9	-13.0	-39.9		
	3346.00	-20.7	H	3.0	36.1	1.0	-55.8	-13.0	-42.8			
	High Ch, 848.3											
	1696.60	-26.1	V	3.0	37.0	1.0	-62.1	-13.0	-49.1			
	2544.90	-16.1	V	3.0	36.4	1.0	-51.5	-13.0	-38.5			
	3393.20	-20.4	V	3.0	36.1	1.0	-55.4	-13.0	-42.4			
	1696.60	-28.1	H	3.0	37.0	1.0	-64.1	-13.0	-51.1			
	2544.90	-17.9	H	3.0	36.4	1.0	-53.3	-13.0	-40.3			
	3393.20	-21.5	H	3.0	36.1	1.0	-56.6	-13.0	-43.6			

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20286							
Date:		4/3/2015							
Test Engineer:		R.Z							
Configuration:		EUT/ AC Charger/ Headset							
Location:		Chamber G							
Mode:		LTE_QPSK Band 5 Harmonics, 1.4MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 824.7									
1649.40	-27.5	V	3.0	37.1	1.0	-63.6	-13.0	-50.6	
2474.10	-14.8	V	3.0	36.4	1.0	-50.2	-13.0	-37.2	
LTE5									
3298.80	-22.1	V	3.0	36.2	1.0	-57.3	-13.0	-44.3	
1649.40	-26.0	H	3.0	37.1	1.0	-62.1	-13.0	-49.1	
2474.10	5.9	H	3.0	36.4	1.0	-29.6	-13.0	-16.6	
1.4MHz									
3298.80	-21.7	H	3.0	36.2	1.0	-56.9	-13.0	-43.9	
Mid Ch, 836.5									
1673.00	-26.4	V	3.0	37.0	1.0	-62.4	-13.0	-49.4	
2509.50	-12.7	V	3.0	36.4	1.0	-48.1	-13.0	-35.1	
3346.00	-20.0	V	3.0	36.1	1.0	-55.1	-13.0	-42.1	
1673.00	-27.6	H	3.0	37.0	1.0	-63.6	-13.0	-50.6	
2509.50	-0.6	H	3.0	36.4	1.0	-36.0	-13.0	-23.0	
3346.00	-22.0	H	3.0	36.1	1.0	-57.1	-13.0	-44.1	
High Ch, 848.3									
1696.60	-27.1	V	3.0	37.0	1.0	-63.1	-13.0	-50.1	
2544.90	-15.1	V	3.0	36.4	1.0	-50.5	-13.0	-37.5	
3393.20	-21.8	V	3.0	36.1	1.0	-56.8	-13.0	-43.8	
1696.60	-26.7	H	3.0	37.0	1.0	-62.7	-13.0	-49.7	
2544.90	-5.6	H	3.0	36.4	1.0	-41.0	-13.0	-28.0	
3393.20	-21.1	H	3.0	36.1	1.0	-56.2	-13.0	-43.2	

LTE Band 12

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG								
Project #:		15I20286								
Date:		4/2/2015								
Test Engineer:		R.Z								
Configuration:		EUT , AC Adapter /HS								
Location:		Chamber G								
Mode:		LTE_16QAM Band 12 Harmonics, 10MHz Bandwidth								
Band	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
LTE12 10MHz 16QAM	Low Ch,704									
	1408.00	-18.9	V	3.0	37.4	1.0	-55.3	-13.0	-42.3	
	2112.00	-15.5	V	3.0	36.6	1.0	-51.1	-13.0	-38.1	
	2816.00	-22.5	V	3.0	36.4	1.0	-57.9	-13.0	-44.9	
	1408.00	-13.6	H	3.0	37.4	1.0	-49.9	-13.0	-36.9	
	2112.00	-16.5	H	3.0	36.6	1.0	-52.1	-13.0	-39.1	
	2816.00	-23.1	H	3.0	36.4	1.0	-58.5	-13.0	-45.5	
	Mid Ch,707.5									
	1415.00	-18.4	V	3.0	37.3	1.0	-54.7	-13.0	-41.7	
	2122.50	-17.2	V	3.0	36.6	1.0	-52.8	-13.0	-39.8	
	2830.00	-22.9	V	3.0	36.4	1.0	-58.3	-13.0	-45.3	
	1415.00	-14.1	H	3.0	37.3	1.0	-50.5	-13.0	-37.5	
	2122.50	-16.4	H	3.0	36.6	1.0	-52.0	-13.0	-39.0	
	2830.00	-4.1	H	3.0	36.4	1.0	-39.4	-13.0	-26.4	
	High Ch,711									
	1422.00	-15.3	V	3.0	37.3	1.0	-51.6	-13.0	-38.6	
	2133.00	-16.6	V	3.0	36.6	1.0	-52.1	-13.0	-39.1	
	2844.00	-22.5	V	3.0	36.4	1.0	-57.8	-13.0	-44.8	
1422.00	-12.7	H	3.0	37.3	1.0	-49.0	-13.0	-36.0		
2133.00	-17.0	H	3.0	36.6	1.0	-52.5	-13.0	-39.5		
2844.00	-24.1	H	3.0	36.4	1.0	-59.5	-13.0	-46.5		

UL Verification Services, Inc.										
Above 1GHz High Frequency Substitution Measurement										
Company:		LG								
Project #:		15I20286								
Date:		4/2/2015								
Test Engineer:		R.Z								
Configuration:		EUT , AC Adapter /HS								
Location:		Chamber G								
Mode:		LTE_QPSK Band 12 Harmonics, 10MHz Bandwidth								
Band	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch,704									
LTE12	1408.00	-19.1	V	3.0	37.4	1.0	-55.5	-13.0	-42.5	
	2112.00	-14.9	V	3.0	36.6	1.0	-50.5	-13.0	-37.5	
10MHz	2816.00	-17.7	V	3.0	36.4	1.0	-53.1	-13.0	-40.1	
	1408.00	-14.5	H	3.0	37.4	1.0	-50.8	-13.0	-37.8	
QPSK	2112.00	-16.9	H	3.0	36.6	1.0	-52.5	-13.0	-39.5	
	2816.00	-23.2	H	3.0	36.4	1.0	-58.6	-13.0	-45.6	
	Mid Ch,707.5									
	1415.00	-17.4	V	3.0	37.3	1.0	-53.7	-13.0	-40.7	
	2122.50	-14.5	V	3.0	36.6	1.0	-50.1	-13.0	-37.1	
	2830.00	-13.3	V	3.0	36.4	1.0	-48.7	-13.0	-35.7	
	1415.00	-13.4	H	3.0	37.3	1.0	-49.8	-13.0	-36.8	
	2122.50	-15.9	H	3.0	36.6	1.0	-51.5	-13.0	-38.5	
	2830.00	-23.9	H	3.0	36.4	1.0	-59.2	-13.0	-46.2	
	High Ch,711									
	1422.00	-15.5	V	3.0	37.3	1.0	-51.8	-13.0	-38.8	
	2133.00	-15.1	V	3.0	36.6	1.0	-50.7	-13.0	-37.7	
	2844.00	-22.8	V	3.0	36.4	1.0	-58.1	-13.0	-45.1	
	1422.00	-11.0	H	3.0	37.3	1.0	-47.3	-13.0	-34.3	
	2133.00	-16.0	H	3.0	36.6	1.0	-51.5	-13.0	-38.5	
	2844.00	-24.0	H	3.0	36.4	1.0	-59.4	-13.0	-46.4	

UL Verification Services, Inc.									
Above 1GHz High Frequency Substitution Measurement									
Company:		LG							
Project #:		15I20286							
Date:		4/2/2015							
Test Engineer:		R.Z							
Configuration:		EUT , AC Adapter /HS							
Location:		Chamber G							
Mode:		LTE_16QAM Band 12 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, 701.50									
LTE12	1403.00	-26.2	V	3.0	37.4	1.0	-62.6	-13.0	-49.6
	2104.50	-16.2	V	3.0	36.6	1.0	-51.8	-13.0	-38.8
5MHz	2806.00	-22.7	V	3.0	36.4	1.0	-58.1	-13.0	-45.1
	1403.00	-30.3	H	3.0	37.4	1.0	-66.6	-13.0	-53.6
	2104.50	-15.9	H	3.0	36.6	1.0	-51.5	-13.0	-38.5
16QA	2806.00	-24.3	H	3.0	36.4	1.0	-59.7	-13.0	-46.7
M	Mid Ch, 707.50								
	1415.00	-21.1	V	3.0	37.3	1.0	-57.5	-13.0	-44.5
	2122.50	-13.5	V	3.0	36.6	1.0	-49.1	-13.0	-36.1
	2830.00	-22.1	V	3.0	36.4	1.0	-57.5	-13.0	-44.5
	1415.00	-16.3	H	3.0	37.3	1.0	-52.7	-13.0	-39.7
	2122.50	-11.9	H	3.0	36.6	1.0	-47.4	-13.0	-34.4
	2830.00	-22.3	H	3.0	36.4	1.0	-57.6	-13.0	-44.6
High Ch, 713.50									
	1427.00	-26.8	V	3.0	37.3	1.0	-63.1	-13.0	-50.1
	2140.50	-20.8	V	3.0	36.6	1.0	-56.3	-13.0	-43.3
	2854.00	-22.9	V	3.0	36.4	1.0	-58.2	-13.0	-45.2
	1427.00	-26.8	H	3.0	37.3	1.0	-63.1	-13.0	-50.1
	2140.50	-17.0	H	3.0	36.6	1.0	-52.5	-13.0	-39.5
	2854.00	-24.0	H	3.0	36.4	1.0	-59.4	-13.0	-46.4

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG								
Project #:		15I20286								
Date:		4/2/2015								
Test Engineer:		R.Z								
Configuration:		EUT , AC Adapter /HS								
Location:		Chamber G								
Mode:		LTE_QPSK Band 12 Harmonics, 5MHz Bandwidth								
Band	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 701.50									
LTE12	1403.00	-20.5	V	3.0	37.4	1.0	-56.9	-13.0	-43.9	
	2104.50	-15.8	V	3.0	36.6	1.0	-51.4	-13.0	-38.4	
	2806.00	-21.9	V	3.0	36.4	1.0	-57.3	-13.0	-44.3	
5MHz	1403.00	-14.4	H	3.0	37.4	1.0	-50.7	-13.0	-37.7	
	2104.50	-15.3	H	3.0	36.6	1.0	-50.9	-13.0	-37.9	
QPSK	2806.00	-24.5	H	3.0	36.4	1.0	-59.9	-13.0	-46.9	
	Mid Ch, 707.50									
	1415.00	-19.0	V	3.0	37.3	1.0	-55.3	-13.0	-42.3	
	2122.50	-10.0	V	3.0	36.6	1.0	-45.6	-13.0	-32.6	
	2830.00	-21.6	V	3.0	36.4	1.0	-57.0	-13.0	-44.0	
	1415.00	-14.9	H	3.0	37.3	1.0	-51.3	-13.0	-38.3	
	2122.50	-12.9	H	3.0	36.6	1.0	-48.5	-13.0	-35.5	
	2830.00	-22.8	H	3.0	36.4	1.0	-58.1	-13.0	-45.1	
	High Ch, 713.50									
	1427.00	-22.8	V	3.0	37.3	1.0	-59.1	-13.0	-46.1	
	2140.50	-20.6	V	3.0	36.6	1.0	-56.1	-13.0	-43.1	
	2854.00	-22.8	V	3.0	36.4	1.0	-58.1	-13.0	-45.1	
	1427.00	-22.9	H	3.0	37.3	1.0	-59.2	-13.0	-46.2	
	2140.50	-19.9	H	3.0	36.6	1.0	-55.4	-13.0	-42.4	
	2854.00	-24.0	H	3.0	36.4	1.0	-59.4	-13.0	-46.4	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG							
Project #:		15I20286							
Date:		4/2/2015							
Test Engineer:		R.Z							
Configuration:		EUT , AC Adapter /HS							
Location:		Chamber G							
Mode:		LTE_16QAM Band 12 Harmonics, 3MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 700.5									
LTE12	1401.00	-28.5	V	3.0	37.4	1.0	-64.8	-13.0	-51.8
	2101.50	-17.0	V	3.0	36.6	1.0	-52.6	-13.0	-39.6
3MHz	2802.00	-20.6	V	3.0	36.4	1.0	-56.0	-13.0	-43.0
	1401.00	-19.9	H	3.0	37.4	1.0	-56.2	-13.0	-43.2
16QA	2101.50	-22.6	H	3.0	36.6	1.0	-58.2	-13.0	-45.2
M	2802.00	-23.5	H	3.0	36.4	1.0	-58.9	-13.0	-45.9
Mid Ch, 707.50									
	1415.00	-20.3	V	3.0	37.3	1.0	-56.6	-13.0	-43.6
	2122.00	-10.0	V	3.0	36.6	1.0	-45.6	-13.0	-32.6
	2830.00	-3.3	V	3.0	36.4	1.0	-38.7	-13.0	-25.7
	1415.00	-15.8	H	3.0	37.3	1.0	-52.1	-13.0	-39.1
	2122.00	-12.8	H	3.0	36.6	1.0	-48.4	-13.0	-35.4
	2830.00	-22.4	H	3.0	36.4	1.0	-57.7	-13.0	-44.7
High Ch, 714.5									
	1429.00	-22.8	V	3.0	37.3	1.0	-59.1	-13.0	-46.1
	2143.50	-17.4	V	3.0	36.6	1.0	-52.9	-13.0	-39.9
	2858.00	-22.1	V	3.0	36.4	1.0	-57.4	-13.0	-44.4
	1429.00	-21.2	H	3.0	37.3	1.0	-57.5	-13.0	-44.5
	2143.50	-16.6	H	3.0	36.6	1.0	-52.1	-13.0	-39.1
	2858.00	-22.5	H	3.0	36.4	1.0	-57.9	-13.0	-44.9

UL Verification Services, Inc.										
Above 1GHz High Frequency Substitution Measurement										
Company:		LG								
Project #:		15I20286								
Date:		4/2/2015								
Test Engineer:		R.Z								
Configuration:		EUT , AC Adapter /HS								
Location:		Chamber G								
Mode:		LTE_QPSK Band 12 Harmonics, 3MHz Bandwidth								
Band	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 700.5									
LTE12	1401.00	-27.9	V	3.0	37.4	1.0	-64.3	-13.0	-51.3	
	2101.50	-14.0	V	3.0	36.6	1.0	-49.6	-13.0	-36.6	
	2802.00	-22.3	V	3.0	36.4	1.0	-57.7	-13.0	-44.7	
3MHz	1401.00	-21.5	H	3.0	37.4	1.0	-57.9	-13.0	-44.9	
	2101.50	-21.5	H	3.0	36.6	1.0	-57.1	-13.0	-44.1	
QPSK	2802.00	-21.0	H	3.0	36.4	1.0	-56.4	-13.0	-43.4	
	Mid Ch, 707.50									
	1415.00	-19.9	V	3.0	37.3	1.0	-56.2	-13.0	-43.2	
	2122.00	-12.4	V	3.0	36.6	1.0	-48.0	-13.0	-35.0	
	2830.00	-21.3	V	3.0	36.4	1.0	-56.7	-13.0	-43.7	
	1415.00	-14.4	H	3.0	37.3	1.0	-50.8	-13.0	-37.8	
	2122.00	-12.4	H	3.0	36.6	1.0	-48.0	-13.0	-35.0	
	2830.00	-20.8	H	3.0	36.4	1.0	-56.1	-13.0	-43.1	
	High Ch, 714.5									
	1429.00	-23.3	V	3.0	37.3	1.0	-59.6	-13.0	-46.6	
	2143.50	-17.9	V	3.0	36.6	1.0	-53.4	-13.0	-40.4	
	2858.00	-22.1	V	3.0	36.4	1.0	-57.4	-13.0	-44.4	
	1429.00	-19.8	H	3.0	37.3	1.0	-56.1	-13.0	-43.1	
	2143.50	-17.8	H	3.0	36.6	1.0	-53.3	-13.0	-40.3	
	2858.00	-22.5	H	3.0	36.4	1.0	-57.9	-13.0	-44.9	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG								
Project #:		15I20286								
Date:		4/2/2015								
Test Engineer:		R.Z								
Configuration:		EUT , AC Adapter /HS								
Location:		Chamber G								
Mode:		LTE_16QAM Band 12 Harmonics, 1.4MHz Bandwidth								
Band	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
LTE12 1.4MH z 16QA M	Low Ch, 699.7									
	1399.40	-20.9	V	3.0	37.4	1.0	-57.3	-13.0	-44.3	
	2099.10	-16.9	V	3.0	36.6	1.0	-52.5	-13.0	-39.5	
	2798.80	-22.3	V	3.0	36.4	1.0	-57.7	-13.0	-44.7	
	1399.40	-15.3	H	3.0	37.4	1.0	-51.6	-13.0	-38.6	
	2099.10	-16.1	H	3.0	36.6	1.0	-51.7	-13.0	-38.7	
	2798.80	-22.6	H	3.0	36.4	1.0	-58.0	-13.0	-45.0	
	Mid Ch, 707.50									
	1415.00	-20.1	V	3.0	37.3	1.0	-56.4	-13.0	-43.4	
	2122.00	-9.0	V	3.0	36.6	1.0	-44.6	-13.0	-31.6	
	2830.00	-22.2	V	3.0	36.4	1.0	-57.6	-13.0	-44.6	
	1415.00	-14.5	H	3.0	37.3	1.0	-50.9	-13.0	-37.9	
2122.00	-10.4	H	3.0	36.6	1.0	-46.0	-13.0	-33.0		
2830.00	-23.0	H	3.0	36.4	1.0	-58.3	-13.0	-45.3		
High Ch, 715.3										
1430.60	-19.6	V	3.0	37.3	1.0	-55.9	-13.0	-42.9		
2145.90	-17.1	V	3.0	36.6	1.0	-52.6	-13.0	-39.6		
2861.20	-22.2	V	3.0	36.4	1.0	-57.5	-13.0	-44.5		
1430.60	-16.7	H	3.0	37.3	1.0	-53.0	-13.0	-40.0		
2145.90	-15.3	H	3.0	36.6	1.0	-50.8	-13.0	-37.8		
2861.20	-20.9	H	3.0	36.4	1.0	-56.3	-13.0	-43.3		

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG							
Project #:		15I20286							
Date:		4/2/2015							
Test Engineer:		R.Z							
Configuration:		EUT , AC Adapter /HS							
Location:		Chamber G							
Mode:		LTE_QPSK Band 12 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, 699.7									
1399.40	-18.8	V	3.0	37.4	1.0	-55.2	-13.0	-42.2	
2099.10	-14.5	V	3.0	36.6	1.0	-50.1	-13.0	-37.1	
2798.80	-22.1	V	3.0	36.4	1.0	-57.5	-13.0	-44.5	
1399.40	-13.6	H	3.0	37.4	1.0	-49.9	-13.0	-36.9	
2099.10	-15.6	H	3.0	36.6	1.0	-51.2	-13.0	-38.2	
2798.80	-16.9	H	3.0	36.4	1.0	-52.3	-13.0	-39.3	
Mid Ch, 707.50									
1415.00	-18.9	V	3.0	37.3	1.0	-55.2	-13.0	-42.2	
2122.00	-11.4	V	3.0	36.6	1.0	-47.0	-13.0	-34.0	
2830.00	-23.0	V	3.0	36.4	1.0	-58.4	-13.0	-45.4	
1415.00	-14.3	H	3.0	37.3	1.0	-50.7	-13.0	-37.7	
2122.00	-9.6	H	3.0	36.6	1.0	-45.2	-13.0	-32.2	
2830.00	-22.4	H	3.0	36.4	1.0	-57.7	-13.0	-44.7	
High Ch, 715.3									
1430.60	-20.7	V	3.0	37.3	1.0	-57.0	-13.0	-44.0	
2145.90	-18.8	V	3.0	36.6	1.0	-54.4	-13.0	-41.4	
2861.20	-21.6	V	3.0	36.4	1.0	-56.9	-13.0	-43.9	
1430.60	-15.9	H	3.0	37.3	1.0	-52.2	-13.0	-39.2	
2145.90	-16.4	H	3.0	36.6	1.0	-51.9	-13.0	-38.9	
2861.20	-22.7	H	3.0	36.4	1.0	-58.1	-13.0	-45.1	

LTE Band 25

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20286							
Date:		3/15/2015							
Test Engineer:		O. Stoelting							
Configuration:		X-pos EUT/ AC Charger/ Headset							
Location:		Chamber A							
Mode:		LTE_16QAM Band 25 Harmonics, 20MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1860									
Band	3720.00	-18.7	V	3.0	35.8	1.0	-53.6	-13.0	-40.6
	5580.00	-13.8	V	3.0	35.5	1.0	-48.3	-13.0	-35.3
LTE25	7440.00	-14.6	V	3.0	35.7	1.0	-49.3	-13.0	-36.3
	3720.00	-20.6	H	3.0	35.8	1.0	-55.5	-13.0	-42.5
20MHz	5580.00	-15.4	H	3.0	35.5	1.0	-49.9	-13.0	-36.9
	7440.00	-16.5	H	3.0	35.7	1.0	-51.2	-13.0	-38.2
Mid Ch, 1882.5									
16QAM	3765.00	-20.5	V	3.0	35.8	1.0	-55.3	-13.0	-42.3
	5647.50	-14.9	V	3.0	35.5	1.0	-49.4	-13.0	-36.4
	7530.00	-13.0	V	3.0	35.7	1.0	-47.7	-13.0	-34.7
	3765.00	-21.1	H	3.0	35.8	1.0	-55.9	-13.0	-42.9
	5647.50	-18.3	H	3.0	35.5	1.0	-52.8	-13.0	-39.8
	7530.00	-15.8	H	3.0	35.7	1.0	-50.6	-13.0	-37.6
High Ch, 1905									
	3810.00	-20.0	V	3.0	35.8	1.0	-54.7	-13.0	-41.7
	5715.00	-17.8	V	3.0	35.5	1.0	-52.3	-13.0	-39.3
	7620.00	-13.8	V	3.0	35.8	1.0	-48.5	-13.0	-35.5
	3810.00	-20.4	H	3.0	35.8	1.0	-55.2	-13.0	-42.2
	5715.00	-18.3	H	3.0	35.5	1.0	-52.8	-13.0	-39.8
	7620.00	-14.8	H	3.0	35.8	1.0	-49.6	-13.0	-36.6

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20286							
Date:		3/15/2015							
Test Engineer:		O. Stoelting							
Configuration:		X-pos EUT/ AC Charger/ Headset							
Location:		Chamber A							
Mode:		LTE_QPSK Band 25 Harmonics, 20MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1860									
3720.00	-18.3	V	3.0	35.8	1.0	-53.2	-13.0	-40.2	
5580.00	-13.7	V	3.0	35.5	1.0	-48.2	-13.0	-35.2	
LTE25									
7440.00	-14.5	V	3.0	35.7	1.0	-49.2	-13.0	-36.2	
3720.00	-20.7	H	3.0	35.8	1.0	-55.6	-13.0	-42.6	
5580.00	-16.2	H	3.0	35.5	1.0	-50.7	-13.0	-37.7	
20MHz									
7440.00	-16.5	H	3.0	35.7	1.0	-51.3	-13.0	-38.3	
Mid Ch, 1882.5									
3765.00	-20.2	V	3.0	35.8	1.0	-55.0	-13.0	-42.0	
5647.50	-14.9	V	3.0	35.5	1.0	-49.3	-13.0	-36.3	
7530.00	-12.8	V	3.0	35.7	1.0	-47.6	-13.0	-34.6	
3765.00	-20.7	H	3.0	35.8	1.0	-55.5	-13.0	-42.5	
5647.50	-18.3	H	3.0	35.5	1.0	-52.8	-13.0	-39.8	
7530.00	-15.9	H	3.0	35.7	1.0	-50.7	-13.0	-37.7	
High Ch, 1905									
3810.00	-20.2	V	3.0	35.8	1.0	-55.0	-13.0	-42.0	
5715.00	-18.4	V	3.0	35.5	1.0	-52.9	-13.0	-39.9	
7620.00	-14.0	V	3.0	35.8	1.0	-48.8	-13.0	-35.8	
3810.00	-20.0	H	3.0	35.8	1.0	-54.8	-13.0	-41.8	
5715.00	-17.5	H	3.0	35.5	1.0	-52.0	-13.0	-39.0	
7620.00	-15.6	H	3.0	35.8	1.0	-50.3	-13.0	-37.3	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20286							
Date:		3/15/2015							
Test Engineer:		O. Stoelting							
Configuration:		X-pos EUT/ AC Charger/ Headset							
Location:		Chamber A							
Mode:		LTE_16QAM Band 25 Harmonics, 15MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1857.5									
Band	3715.00	-18.5	V	3.0	35.8	1.0	-53.3	-13.0	-40.3
	5572.50	-8.2	V	3.0	35.5	1.0	-42.6	-13.0	-29.6
LTE25	7430.00	-14.2	V	3.0	35.7	1.0	-49.0	-13.0	-36.0
	3715.00	-20.7	H	3.0	35.8	1.0	-55.6	-13.0	-42.6
	5572.50	-15.8	H	3.0	35.5	1.0	-50.3	-13.0	-37.3
15MHz	7430.00	-16.6	H	3.0	35.7	1.0	-51.3	-13.0	-38.3
Mid Ch, 1882.5									
16QAM	3815.00	-18.2	V	3.0	35.8	1.0	-53.0	-13.0	-40.0
	5722.50	-17.7	V	3.0	35.5	1.0	-52.2	-13.0	-39.2
	7630.00	-12.5	V	3.0	35.7	1.0	-47.3	-13.0	-34.3
	3815.00	-20.6	H	3.0	35.8	1.0	-55.4	-13.0	-42.4
	5722.50	-18.2	H	3.0	35.5	1.0	-52.7	-13.0	-39.7
	7630.00	-14.2	H	3.0	35.7	1.0	-49.0	-13.0	-36.0
High Ch, 1907.5									
	3815.00	-20.5	V	3.0	35.8	1.0	-55.2	-13.0	-42.2
	5722.50	-17.6	V	3.0	35.5	1.0	-52.1	-13.0	-39.1
	7630.00	-13.3	V	3.0	35.8	1.0	-48.1	-13.0	-35.1
	3815.00	-20.5	H	3.0	35.8	1.0	-55.3	-13.0	-42.3
	5722.50	-17.9	H	3.0	35.5	1.0	-52.4	-13.0	-39.4
	7630.00	-15.6	H	3.0	35.8	1.0	-50.4	-13.0	-37.4

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20286							
Date:		3/15/2015							
Test Engineer:		O. Stoelting							
Configuration:		X-pos EUT/ AC Charger/ Headset							
Location:		Chamber A							
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
Low Ch, 1857.5									
Band	3715.00	-19.4	V	3.0	35.8	1.0	-54.3	-13.0	-41.3
	5572.50	-9.0	V	3.0	35.5	1.0	-43.5	-13.0	-30.5
LTE25	7430.00	-15.1	V	3.0	35.7	1.0	-49.9	-13.0	-36.9
	3715.00	-21.1	H	3.0	35.8	1.0	-55.9	-13.0	-42.9
	5572.50	-15.9	H	3.0	35.5	1.0	-50.4	-13.0	-37.4
15MHz	7430.00	-16.3	H	3.0	35.7	1.0	-51.0	-13.0	-38.0
Mid Ch, 1882.5									
QPSK	3765.00	-19.5	V	3.0	35.8	1.0	-54.3	-13.0	-41.3
	5647.50	-17.6	V	3.0	35.5	1.0	-52.1	-13.0	-39.1
	7530.00	-12.7	V	3.0	35.7	1.0	-47.5	-13.0	-34.5
	3765.00	-20.2	H	3.0	35.8	1.0	-55.0	-13.0	-42.0
	5647.50	-18.6	H	3.0	35.5	1.0	-53.1	-13.0	-40.1
	7530.00	-14.9	H	3.0	35.7	1.0	-49.6	-13.0	-36.6
High Ch, 1907.5									
	3815.00	-20.0	V	3.0	35.8	1.0	-54.8	-13.0	-41.8
	5722.50	-17.1	V	3.0	35.5	1.0	-51.6	-13.0	-38.6
	7630.00	-13.8	V	3.0	35.8	1.0	-48.5	-13.0	-35.5
	3815.00	-20.2	H	3.0	35.8	1.0	-54.9	-13.0	-41.9
	5722.50	-17.5	H	3.0	35.5	1.0	-52.0	-13.0	-39.0
	7630.00	-15.9	H	3.0	35.8	1.0	-50.6	-13.0	-37.6

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20286							
Date:		3/13/2015							
Test Engineer:		O. Stoelting							
Configuration:		X-pos 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
Band									
LTE25									
10MHz									
16QAM									
Low Ch, 1855									
3710.00	-19.0	V	3.0	35.9	1.0	-53.8	-13.0	-40.8	
5565.00	-21.7	V	3.0	35.5	1.0	-56.1	-13.0	-43.1	
7420.00	-17.3	V	3.0	35.7	1.0	-52.0	-13.0	-39.0	
3710.00	-20.9	H	3.0	35.9	1.0	-55.7	-13.0	-42.7	
5565.00	-20.9	H	3.0	35.5	1.0	-55.4	-13.0	-42.4	
7420.00	-17.1	H	3.0	35.7	1.0	-51.8	-13.0	-38.8	
Mid Ch, 1882.5									
3765.00	-22.4	V	3.0	35.8	1.0	-57.2	-13.0	-44.2	
5647.50	-19.1	V	3.0	35.5	1.0	-53.6	-13.0	-40.6	
7530.00	-16.9	V	3.0	35.7	1.0	-51.7	-13.0	-38.7	
3765.00	-24.9	H	3.0	35.8	1.0	-59.7	-13.0	-46.7	
5647.50	-19.6	H	3.0	35.5	1.0	-54.1	-13.0	-41.1	
7530.00	-16.9	H	3.0	35.7	1.0	-51.6	-13.0	-38.6	
High Ch, 1910									
3820.00	-23.2	V	3.0	35.8	1.0	-58.0	-13.0	-45.0	
5730.00	-18.8	V	3.0	35.5	1.0	-53.3	-13.0	-40.3	
7640.00	-17.2	V	3.0	35.8	1.0	-52.0	-13.0	-39.0	
3820.00	-23.7	H	3.0	35.8	1.0	-58.5	-13.0	-45.5	
5730.00	-20.0	H	3.0	35.5	1.0	-54.5	-13.0	-41.5	
7640.00	-16.4	H	3.0	35.8	1.0	-51.2	-13.0	-38.2	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20286							
Date:		3/13/2015							
Test Engineer:		O. Stoelting							
Configuration:		X-pos 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									
Band	3710.00	-17.4	V	3.0	35.9	1.0	-52.3	-13.0	-39.3
	5565.00	-21.2	V	3.0	35.5	1.0	-55.7	-13.0	-42.7
LTE25	7420.00	-17.6	V	3.0	35.7	1.0	-52.3	-13.0	-39.3
	3710.00	-19.9	H	3.0	35.9	1.0	-54.7	-13.0	-41.7
	5565.00	-21.0	H	3.0	35.5	1.0	-55.5	-13.0	-42.5
10MHz	7420.00	-16.8	H	3.0	35.7	1.0	-51.5	-13.0	-38.5
Mid Ch, 1882.5									
QPSK	3765.00	-22.3	V	3.0	35.8	1.0	-57.1	-13.0	-44.1
	5647.50	-19.1	V	3.0	35.5	1.0	-53.6	-13.0	-40.6
	7530.00	-17.3	V	3.0	35.7	1.0	-52.1	-13.0	-39.1
	3765.00	-24.5	H	3.0	35.8	1.0	-59.3	-13.0	-46.3
	5647.50	-19.1	H	3.0	35.5	1.0	-53.6	-13.0	-40.6
	7530.00	-17.1	H	3.0	35.7	1.0	-51.8	-13.0	-38.8
High Ch, 1910									
	3820.00	-24.2	V	3.0	35.8	1.0	-59.0	-13.0	-46.0
	5730.00	-20.9	V	3.0	35.5	1.0	-55.4	-13.0	-42.4
	7640.00	-14.5	V	3.0	35.8	1.0	-49.2	-13.0	-36.2
	3820.00	-23.6	H	3.0	35.8	1.0	-58.4	-13.0	-45.4
	5730.00	-19.8	H	3.0	35.5	1.0	-54.3	-13.0	-41.3
	7640.00	-16.0	H	3.0	35.8	1.0	-50.8	-13.0	-37.8

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement											
Company:		LG Electronics									
Project #:		15I20286									
Date:		3/13/2015									
Test Engineer:		O. Stoelting									
Configuration:		X-pos 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	
Band LTE25 5MHz 16QAM	Low Ch, 1852.5										
		3705.00	-25.2	V	3.0	35.9	1.0	-60.0	-13.0	-47.0	
		5557.50	-10.5	V	3.0	35.5	1.0	-45.0	-13.0	-32.0	
		7410.00	-14.0	V	3.0	35.7	1.0	-48.7	-13.0	-35.7	
		3705.00	-23.6	H	3.0	35.9	1.0	-58.5	-13.0	-45.5	
		5557.50	-14.0	H	3.0	35.5	1.0	-48.4	-13.0	-35.4	
		7410.00	-17.0	H	3.0	35.7	1.0	-51.8	-13.0	-38.8	
		Mid Ch, 1882.5									
		3765.00	-24.1	V	3.0	35.8	1.0	-58.9	-13.0	-45.9	
		5647.50	-18.6	V	3.0	35.5	1.0	-53.1	-13.0	-40.1	
		7530.00	-17.5	V	3.0	35.7	1.0	-52.3	-13.0	-39.3	
		3765.00	-25.0	H	3.0	35.8	1.0	-59.8	-13.0	-46.8	
	5647.50	-18.8	H	3.0	35.5	1.0	-53.3	-13.0	-40.3		
	7530.00	-17.2	H	3.0	35.7	1.0	-51.9	-13.0	-38.9		
	High Ch, 1912.5										
	3825.00	-24.4	V	3.0	35.8	1.0	-59.1	-13.0	-46.1		
	5737.50	-14.1	V	3.0	35.5	1.0	-48.6	-13.0	-35.6		
	7650.00	-15.2	V	3.0	35.8	1.0	-50.0	-13.0	-37.0		
	3825.00	-24.8	H	3.0	35.8	1.0	-59.5	-13.0	-46.5		
	5737.50	-19.4	H	3.0	35.5	1.0	-53.9	-13.0	-40.9		
	7650.00	-16.3	H	3.0	35.8	1.0	-51.1	-13.0	-38.1		

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20286							
Date:		3/13/2015							
Test Engineer:		O. Stoelting							
Configuration:		X-pos 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
Low Ch, 1852.5									
Band	3705.00	-24.5	V	3.0	35.9	1.0	-59.3	-13.0	-46.3
	5557.50	-12.1	V	3.0	35.5	1.0	-46.6	-13.0	-33.6
LTE25	7410.00	-14.3	V	3.0	35.7	1.0	-49.0	-13.0	-36.0
	3705.00	-23.2	H	3.0	35.9	1.0	-58.1	-13.0	-45.1
	5557.50	-14.2	H	3.0	35.5	1.0	-48.6	-13.0	-35.6
5MHz	7410.00	-16.9	H	3.0	35.7	1.0	-51.6	-13.0	-38.6
Mid Ch, 1882.5									
QPSK	3765.00	-24.3	V	3.0	35.8	1.0	-59.1	-13.0	-46.1
	5647.50	-18.4	V	3.0	35.5	1.0	-52.9	-13.0	-39.9
	7530.00	-17.6	V	3.0	35.7	1.0	-52.4	-13.0	-39.4
	3765.00	-24.7	H	3.0	35.8	1.0	-59.5	-13.0	-46.5
	5647.50	-18.1	H	3.0	35.5	1.0	-52.6	-13.0	-39.6
	7530.00	-16.9	H	3.0	35.7	1.0	-51.7	-13.0	-38.7
High Ch, 1912.5									
	3825.00	-24.4	V	3.0	35.8	1.0	-59.1	-13.0	-46.1
	5737.50	-14.8	V	3.0	35.5	1.0	-49.3	-13.0	-36.3
	7650.00	-15.7	V	3.0	35.8	1.0	-50.5	-13.0	-37.5
	3825.00	-24.4	H	3.0	35.8	1.0	-59.2	-13.0	-46.2
	5737.50	-19.8	H	3.0	35.5	1.0	-54.3	-13.0	-41.3
	7650.00	-16.4	H	3.0	35.8	1.0	-51.2	-13.0	-38.2

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20286							
Date:		3/13/2015							
Test Engineer:		O. Stoelting							
Configuration:		X-pos 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
Low Ch, 1851.5									
Band	3703.00	-23.3	V	3.0	35.9	1.0	-58.2	-13.0	-45.2
	5554.50	-15.9	V	3.0	35.5	1.0	-50.4	-13.0	-37.4
LTE25	7406.00	-17.4	V	3.0	35.7	1.0	-52.2	-13.0	-39.2
	3703.00	-25.3	H	3.0	35.9	1.0	-60.1	-13.0	-47.1
	5554.50	-20.9	H	3.0	35.5	1.0	-55.4	-13.0	-42.4
3MHz	7406.00	-17.0	H	3.0	35.7	1.0	-51.8	-13.0	-38.8
Mid Ch, 1882.5									
16QAM	3765.00	-21.4	V	3.0	35.8	1.0	-56.3	-13.0	-43.3
	5647.50	-15.6	V	3.0	35.5	1.0	-50.1	-13.0	-37.1
	7530.00	-14.3	V	3.0	35.7	1.0	-49.1	-13.0	-36.1
	3765.00	-23.4	H	3.0	35.8	1.0	-58.2	-13.0	-45.2
	5647.50	-20.8	H	3.0	35.5	1.0	-55.3	-13.0	-42.3
	7530.00	-16.9	H	3.0	35.7	1.0	-51.6	-13.0	-38.6
High Ch, 1913.5									
	3827.00	-22.5	V	3.0	35.8	1.0	-57.2	-13.0	-44.2
	5740.50	-17.3	V	3.0	35.5	1.0	-51.8	-13.0	-38.8
	7654.00	-16.7	V	3.0	35.8	1.0	-51.5	-13.0	-38.5
	3827.00	-23.2	H	3.0	35.8	1.0	-58.0	-13.0	-45.0
	5740.50	-19.8	H	3.0	35.5	1.0	-54.3	-13.0	-41.3
	7654.00	-16.5	H	3.0	35.8	1.0	-51.2	-13.0	-38.2

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I20286								
Date:		3/13/2015								
Test Engineer:		O. Stoelting								
Configuration:		X-pos 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
	Low Ch, 1851.5									
Band	3703.00	-22.7	V	3.0	35.9	1.0	-57.6	-13.0	-44.6	
	5554.50	-16.7	V	3.0	35.5	1.0	-51.2	-13.0	-38.2	
LTE25	7406.00	-16.9	V	3.0	35.7	1.0	-51.6	-13.0	-38.6	
	3703.00	-25.3	H	3.0	35.9	1.0	-60.2	-13.0	-47.2	
	5554.50	-20.9	H	3.0	35.5	1.0	-55.3	-13.0	-42.3	
3MHz	7406.00	-16.6	H	3.0	35.7	1.0	-51.4	-13.0	-38.4	
	Mid Ch, 1882.5									
QPSK	3765.00	-21.9	V	3.0	35.8	1.0	-56.7	-13.0	-43.7	
	5647.50	-16.2	V	3.0	35.5	1.0	-50.7	-13.0	-37.7	
	7530.00	-14.2	V	3.0	35.7	1.0	-49.0	-13.0	-36.0	
	3765.00	-23.2	H	3.0	35.8	1.0	-58.0	-13.0	-45.0	
	5647.50	-20.9	H	3.0	35.5	1.0	-55.4	-13.0	-42.4	
	7530.00	-16.8	H	3.0	35.7	1.0	-51.5	-13.0	-38.5	
	High Ch, 1913.5									
	3827.00	-22.2	V	3.0	35.8	1.0	-56.9	-13.0	-43.9	
	5740.50	-17.3	V	3.0	35.5	1.0	-51.8	-13.0	-38.8	
	7654.00	-16.7	V	3.0	35.8	1.0	-51.4	-13.0	-38.4	
	3827.00	-23.1	H	3.0	35.8	1.0	-57.9	-13.0	-44.9	
	5740.50	-19.4	H	3.0	35.5	1.0	-53.9	-13.0	-40.9	
	7654.00	-16.2	H	3.0	35.8	1.0	-50.9	-13.0	-37.9	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20286							
Date:		3/13/2015							
Test Engineer:		O. Stoelting							
Configuration:		X-pos EUT/ AC Charger/ Headset							
Location:		Chamber C							
Mode:		LTE_16QAM Band 25 Harmonics, 1.4MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1850.7									
Band	3701.40	-24.9	V	3.0	35.9	1.0	-59.7	-13.0	-46.7
	5552.10	-13.7	V	3.0	35.5	1.0	-48.2	-13.0	-35.2
LTE25	7402.80	-15.7	V	3.0	35.7	1.0	-50.4	-13.0	-37.4
	3701.40	-23.1	H	3.0	35.9	1.0	-58.0	-13.0	-45.0
	5552.10	-20.0	H	3.0	35.5	1.0	-54.5	-13.0	-41.5
1.4MHz	7402.80	-17.1	H	3.0	35.7	1.0	-51.8	-13.0	-38.8
Mid Ch, 1882.5									
16QAM	3765.00	-24.7	V	3.0	35.8	1.0	-44.7	-13.0	-31.7
	5647.50	-17.9	V	3.0	35.5	1.0	-52.4	-13.0	-39.4
	7530.00	-17.0	V	3.0	35.7	1.0	-51.8	-13.0	-38.8
	3765.00	-24.9	H	3.0	35.8	1.0	-59.7	-13.0	-46.7
	5647.50	-20.7	H	3.0	35.5	1.0	-55.2	-13.0	-42.2
	7530.00	-16.8	H	3.0	35.7	1.0	-51.5	-13.0	-38.5
High Ch, 1914.3									
	3828.60	-21.0	V	3.0	35.8	1.0	-55.7	-13.0	-42.7
	5742.90	-18.7	V	3.0	35.5	1.0	-53.2	-13.0	-40.2
	7657.20	-17.2	V	3.0	35.8	1.0	-52.0	-13.0	-39.0
	3828.60	-25.0	H	3.0	35.8	1.0	-59.8	-13.0	-46.8
	5742.90	-19.8	H	3.0	35.5	1.0	-54.3	-13.0	-41.3
	7657.20	-15.3	H	3.0	35.8	1.0	-50.1	-13.0	-37.1

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20286							
Date:		3/13/2015							
Test Engineer:		O. Stoelting							
Configuration:		X-pos 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
Low Ch, 1850.7									
3701.40	-24.9	V	3.0	35.9	1.0	-59.7	-13.0	-46.7	
5552.10	-13.6	V	3.0	35.5	1.0	-48.0	-13.0	-35.0	
LTE25									
7402.80	-16.6	V	3.0	35.7	1.0	-51.4	-13.0	-38.4	
3701.40	-23.8	H	3.0	35.9	1.0	-58.7	-13.0	-45.7	
5552.10	-20.6	H	3.0	35.5	1.0	-55.1	-13.0	-42.1	
1.4MHz									
7402.80	-16.7	H	3.0	35.7	1.0	-51.4	-13.0	-38.4	
Mid Ch, 1882.5									
3765.00	-24.8	V	3.0	35.8	1.0	-59.6	-13.0	-46.6	
5647.50	-18.4	V	3.0	35.5	1.0	-52.9	-13.0	-39.9	
7530.00	-17.7	V	3.0	35.7	1.0	-52.4	-13.0	-39.4	
3765.00	-24.5	H	3.0	35.8	1.0	-59.3	-13.0	-46.3	
5647.50	-20.2	H	3.0	35.5	1.0	-54.7	-13.0	-41.7	
7530.00	-17.0	H	3.0	35.7	1.0	-51.8	-13.0	-38.8	
QPSK									
High Ch, 1914.3									
3828.60	-22.1	V	3.0	35.8	1.0	-56.9	-13.0	-43.9	
5742.90	-17.6	V	3.0	35.5	1.0	-52.1	-13.0	-39.1	
7657.20	-17.2	V	3.0	35.8	1.0	-51.9	-13.0	-38.9	
3828.60	-24.5	H	3.0	35.8	1.0	-59.3	-13.0	-46.3	
5742.90	-19.6	H	3.0	35.5	1.0	-54.1	-13.0	-41.1	
7657.20	-15.4	H	3.0	35.8	1.0	-50.2	-13.0	-37.2	

LTE Band 26

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20286							
Date:		4/3/2015							
Test Engineer:		R.Z							
Configuration:		EUT/ AC Charger/ Headset							
Location:		Chamber G							
Mode:		LTE_16QAM Band 26 Harmonics, 15MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 831.5									
1663.00	-26.2	V	3.0	37.0	1.0	-62.2	-13.0	-49.2	
2494.50	-17.6	V	3.0	36.4	1.0	-53.1	-13.0	-40.1	
3326.00	-22.0	V	3.0	36.2	1.0	-57.2	-13.0	-44.2	
15MHz									
1663.00	-26.4	H	3.0	37.0	1.0	-62.4	-13.0	-49.4	
2494.50	-22.0	H	3.0	36.4	1.0	-57.4	-13.0	-44.4	
3326.00	-22.0	H	3.0	36.2	1.0	-57.2	-13.0	-44.2	
Mid Ch, 836.5									
16QAM									
1673.00	-27.5	V	3.0	37.0	1.0	-63.5	-13.0	-50.5	
2509.50	-19.3	V	3.0	36.4	1.0	-54.7	-13.0	-41.7	
3346.00	-21.7	V	3.0	36.1	1.0	-56.8	-13.0	-43.8	
1673.00	-27.4	H	3.0	37.0	1.0	-63.4	-13.0	-50.4	
2509.50	-20.4	H	3.0	36.4	1.0	-55.8	-13.0	-42.8	
3346.00	-22.1	H	3.0	36.1	1.0	-57.2	-13.0	-44.2	
High Ch, 841.5									
1683.00	-25.9	V	3.0	37.0	1.0	-61.9	-13.0	-48.9	
2524.50	-18.2	V	3.0	36.4	1.0	-53.6	-13.0	-40.6	
3366.00	-21.3	V	3.0	36.1	1.0	-56.5	-13.0	-43.5	
1683.00	-27.1	H	3.0	37.0	1.0	-63.1	-13.0	-50.1	
2524.50	-16.4	H	3.0	36.4	1.0	-51.8	-13.0	-38.8	
3366.00	-22.0	H	3.0	36.1	1.0	-57.1	-13.0	-44.1	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20286							
Date:		4/3/2015							
Test Engineer:		R.Z							
Configuration:		EUT/ AC Charger/ Headset							
Location:		Chamber G							
Mode:		LTE_QPSK Band 26 Harmonics, 15MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 831.5									
1663.00	-25.8	V	3.0	37.0	1.0	-61.8	-13.0	-48.8	
2494.50	-17.1	V	3.0	36.4	1.0	-52.6	-13.0	-39.6	
LTE26									
3326.00	-21.9	V	3.0	36.2	1.0	-57.1	-13.0	-44.1	
1663.00	-25.9	H	3.0	37.0	1.0	-61.9	-13.0	-48.9	
2494.50	-19.8	H	3.0	36.4	1.0	-55.2	-13.0	-42.2	
15MHz									
3326.00	-21.8	H	3.0	36.2	1.0	-57.0	-13.0	-44.0	
Mid Ch, 836.5									
1673.00	-26.7	V	3.0	37.0	1.0	-62.7	-13.0	-49.7	
2509.50	-15.3	V	3.0	36.4	1.0	-50.7	-13.0	-37.7	
3346.00	-21.8	V	3.0	36.1	1.0	-56.9	-13.0	-43.9	
1673.00	-27.2	H	3.0	37.0	1.0	-63.2	-13.0	-50.2	
2509.50	-19.0	H	3.0	36.4	1.0	-54.4	-13.0	-41.4	
3346.00	-22.3	H	3.0	36.1	1.0	-57.4	-13.0	-44.4	
High Ch, 841.5									
1683.00	-25.7	V	3.0	37.0	1.0	-61.7	-13.0	-48.7	
2524.50	-16.4	V	3.0	36.4	1.0	-51.8	-13.0	-38.8	
3366.00	-21.6	V	3.0	36.1	1.0	-56.7	-13.0	-43.7	
1683.00	-26.2	H	3.0	37.0	1.0	-62.2	-13.0	-49.2	
2524.50	-14.3	H	3.0	36.4	1.0	-49.7	-13.0	-36.7	
3366.00	-21.6	H	3.0	36.1	1.0	-56.7	-13.0	-43.7	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20286							
Date:		4/3/2015							
Test Engineer:		R.Z							
Configuration:		EUT/ AC Charger/ Headset							
Location:		Chamber G							
Mode:		LTE_16QAM Band 26 Harmonics, 10MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 819									
1638.00	-27.3	V	3.0	37.0	1.0	-63.4	-13.0	-50.4	
2457.00	-22.7	V	3.0	36.4	1.0	-58.1	-13.0	-45.1	
LTE26									
3276.00	-21.5	V	3.0	36.2	1.0	-56.7	-13.0	-43.7	
1638.00	-27.9	H	3.0	37.0	1.0	-63.9	-13.0	-50.9	
2457.00	-19.3	H	3.0	36.4	1.0	-54.8	-13.0	-41.8	
10MHz									
3276.00	-22.4	H	3.0	36.2	1.0	-57.6	-13.0	-44.6	
Mid Ch, 831.5									
1663.00	-25.8	V	3.0	37.0	1.0	-61.8	-13.0	-48.8	
16QAM									
2494.50	-15.5	V	3.0	36.4	1.0	-50.9	-13.0	-37.9	
3326.00	-21.6	V	3.0	36.1	1.0	-56.7	-13.0	-43.7	
1663.00	-28.0	H	3.0	37.0	1.0	-64.0	-13.0	-51.0	
2494.50	-21.2	H	3.0	36.4	1.0	-56.6	-13.0	-43.6	
3326.00	-21.7	H	3.0	36.1	1.0	-56.8	-13.0	-43.8	
High Ch, 844									
1688.00	-25.7	V	3.0	37.0	1.0	-61.7	-13.0	-48.7	
2532.00	-17.4	V	3.0	36.4	1.0	-52.8	-13.0	-39.8	
3376.00	-20.6	V	3.0	36.1	1.0	-55.7	-13.0	-42.7	
1688.00	-26.8	H	3.0	37.0	1.0	-62.8	-13.0	-49.8	
2532.00	-20.7	H	3.0	36.4	1.0	-56.1	-13.0	-43.1	
3376.00	-21.7	H	3.0	36.1	1.0	-56.8	-13.0	-43.8	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20286							
Date:		4/3/2015							
Test Engineer:		R.Z							
Configuration:		EUT/ AC Charger/ Headset							
Location:		Chamber G							
Mode:		LTE_QPSK Band 26 Harmonics, 10MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 819									
1638.00	-26.4	V	3.0	37.0	1.0	-62.5	-13.0	-49.5	
2457.00	-21.6	V	3.0	36.4	1.0	-57.0	-13.0	-44.0	
LTE26									
3276.00	-21.2	V	3.0	36.2	1.0	-56.4	-13.0	-43.4	
1638.00	-28.1	H	3.0	37.0	1.0	-64.1	-13.0	-51.1	
2457.00	-18.4	H	3.0	36.4	1.0	-53.9	-13.0	-40.9	
10MHz									
3276.00	-21.8	H	3.0	36.2	1.0	-57.0	-13.0	-44.0	
Mid Ch, 831.5									
1663.00	-25.4	V	3.0	37.0	1.0	-61.4	-13.0	-48.4	
2494.50	-14.8	V	3.0	36.4	1.0	-50.2	-13.0	-37.2	
3326.00	-21.4	V	3.0	36.1	1.0	-56.5	-13.0	-43.5	
1663.00	-27.7	H	3.0	37.0	1.0	-63.7	-13.0	-50.7	
2494.50	-18.9	H	3.0	36.4	1.0	-54.3	-13.0	-41.3	
3326.00	-22.0	H	3.0	36.1	1.0	-57.1	-13.0	-44.1	
High Ch, 844									
1688.00	-23.0	V	3.0	37.0	1.0	-59.0	-13.0	-46.0	
2532.00	-16.1	V	3.0	36.4	1.0	-51.5	-13.0	-38.5	
3376.00	-20.9	V	3.0	36.1	1.0	-56.0	-13.0	-43.0	
1688.00	-27.5	H	3.0	37.0	1.0	-63.5	-13.0	-50.5	
2532.00	-19.5	H	3.0	36.4	1.0	-54.9	-13.0	-41.9	
3376.00	-22.0	H	3.0	36.1	1.0	-57.1	-13.0	-44.1	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I20286								
Date:		4/3/2015								
Test Engineer:		R.Z								
Configuration:		EUT/ AC Charger/ Headset								
Location:		Chamber G								
Mode:		LTE_16QAM Band 26 Harmonics, 5MHz Bandwidth								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band	Low Ch, 816.5									
	1633.00	-25.3	V	3.0	37.0	1.0	-61.3	-13.0	-48.3	
LTE26	2449.50	-18.5	V	3.0	36.4	1.0	-54.0	-13.0	-41.0	
	3266.00	-21.8	V	3.0	36.2	1.0	-56.9	-13.0	-43.9	
5MHz	1633.00	-28.0	H	3.0	37.0	1.0	-64.1	-13.0	-51.1	
	2449.50	-16.3	H	3.0	36.4	1.0	-51.7	-13.0	-38.7	
16QAM	3266.00	-22.2	H	3.0	36.2	1.0	-57.3	-13.0	-44.3	
	Mid Ch, 831.5									
	1663.00	-26.2	V	3.0	37.0	1.0	-62.2	-13.0	-49.2	
	2494.50	-22.8	V	3.0	36.4	1.0	-58.2	-13.0	-45.2	
	3326.00	-21.7	V	3.0	36.1	1.0	-56.8	-13.0	-43.8	
	1663.00	-27.7	H	3.0	37.0	1.0	-63.7	-13.0	-50.7	
	2494.50	-16.2	H	3.0	36.4	1.0	-51.6	-13.0	-38.6	
	3326.00	-22.2	H	3.0	36.1	1.0	-57.3	-13.0	-44.3	
High Ch, 846.5										
	1693.00	-27.2	V	3.0	37.0	1.0	-63.2	-13.0	-50.2	
	2539.50	-22.3	V	3.0	36.4	1.0	-57.8	-13.0	-44.8	
	3386.00	-21.8	V	3.0	36.1	1.0	-56.9	-13.0	-43.9	
	1693.00	-27.1	H	3.0	37.0	1.0	-63.1	-13.0	-50.1	
	2539.50	-17.7	H	3.0	36.4	1.0	-53.1	-13.0	-40.1	
	3386.00	-21.9	H	3.0	36.1	1.0	-57.0	-13.0	-44.0	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I20286								
Date:		4/3/2015								
Test Engineer:		R.Z								
Configuration:		EUT/ AC Charger/ Headset								
Location:		Chamber G								
Mode:		LTE_QPSK Band 26 Harmonics, 5MHz Bandwidth								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band	Low Ch, 816.5									
	1633.00	-24.0	V	3.0	37.0	1.0	-60.0	-13.0	-47.0	
LTE26	2449.50	-13.9	V	3.0	36.4	1.0	-49.4	-13.0	-36.4	
	3266.00	-22.0	V	3.0	36.2	1.0	-57.1	-13.0	-44.1	
5MHz	1633.00	-27.7	H	3.0	37.0	1.0	-63.8	-13.0	-50.8	
	2449.50	-14.5	H	3.0	36.4	1.0	-49.9	-13.0	-36.9	
QPSK	3266.00	-21.8	H	3.0	36.2	1.0	-56.9	-13.0	-43.9	
	Mid Ch, 831.5									
QPSK	1663.00	-25.9	V	3.0	37.0	1.0	-61.9	-13.0	-48.9	
	2494.50	-22.3	V	3.0	36.4	1.0	-57.7	-13.0	-44.7	
QPSK	3326.00	-21.9	V	3.0	36.1	1.0	-57.0	-13.0	-44.0	
	1663.00	-28.0	H	3.0	37.0	1.0	-64.0	-13.0	-51.0	
QPSK	2494.50	-14.2	H	3.0	36.4	1.0	-49.6	-13.0	-36.6	
	3326.00	-21.8	H	3.0	36.1	1.0	-56.9	-13.0	-43.9	
High Ch, 846.5										
QPSK	1693.00	-27.5	V	3.0	37.0	1.0	-63.5	-13.0	-50.5	
	2539.50	-22.6	V	3.0	36.4	1.0	-58.1	-13.0	-45.1	
QPSK	3386.00	-21.5	V	3.0	36.1	1.0	-56.6	-13.0	-43.6	
	1693.00	-27.4	H	3.0	37.0	1.0	-63.4	-13.0	-50.4	
QPSK	2539.50	-16.6	H	3.0	36.4	1.0	-52.0	-13.0	-39.0	
	3386.00	-21.8	H	3.0	36.1	1.0	-56.9	-13.0	-43.9	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20286							
Date:		4/3/2015							
Test Engineer:		R.Z							
Configuration:		EUT/ AC Charger/ Headset							
Location:		Chamber G							
Mode:		LTE_16QAM Band 26 Harmonics, 3MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band									
Low Ch, 815.5									
1631.00	-26.7	V	3.0	37.0	1.0	-62.8	-13.0	-49.8	
2446.50	-23.2	V	3.0	36.4	1.0	-58.6	-13.0	-45.6	
LTE26									
3262.00	-22.1	V	3.0	36.2	1.0	-57.3	-13.0	-44.3	
1631.00	-28.2	H	3.0	37.0	1.0	-64.3	-13.0	-51.3	
2446.50	-17.3	H	3.0	36.4	1.0	-52.7	-13.0	-39.7	
3MHz									
3262.00	-22.1	H	3.0	36.2	1.0	-57.3	-13.0	-44.3	
Mid Ch, 831.5									
1663.00	-27.0	V	3.0	37.0	1.0	-63.0	-13.0	-50.0	
2494.50	-19.3	V	3.0	36.4	1.0	-54.7	-13.0	-41.7	
3326.00	-21.7	V	3.0	36.1	1.0	-56.8	-13.0	-43.8	
1663.00	-29.5	H	3.0	37.0	1.0	-65.5	-13.0	-52.5	
2494.50	-23.4	H	3.0	36.4	1.0	-58.8	-13.0	-45.8	
3326.00	-21.9	H	3.0	36.1	1.0	-57.0	-13.0	-44.0	
High Ch, 847.5									
1695.00	-25.6	V	3.0	37.0	1.0	-61.6	-13.0	-48.6	
2542.50	-22.3	V	3.0	36.4	1.0	-57.8	-13.0	-44.8	
3390.00	-21.6	V	3.0	36.1	1.0	-56.7	-13.0	-43.7	
1695.00	-27.0	H	3.0	37.0	1.0	-63.0	-13.0	-50.0	
2542.50	-22.8	H	3.0	36.4	1.0	-58.3	-13.0	-45.3	
3390.00	-21.9	H	3.0	36.1	1.0	-57.0	-13.0	-44.0	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I20286								
Date:		4/3/2015								
Test Engineer:		R.Z								
Configuration:		EUT/ AC Charger/ Headset								
Location:		Chamber G								
Mode:		LTE_QPSK Band 26 Harmonics, 3MHz Bandwidth								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 815.5										
Band	1631.00	-24.9	V	3.0	37.0	1.0	-61.0	-13.0	-48.0	
	2446.50	-15.0	V	3.0	36.4	1.0	-50.4	-13.0	-37.4	
LTE26	3262.00	-21.7	V	3.0	36.2	1.0	-56.9	-13.0	-43.9	
	1631.00	-26.6	H	3.0	37.0	1.0	-62.7	-13.0	-49.7	
3MHz	2446.50	-14.4	H	3.0	36.4	1.0	-49.8	-13.0	-36.8	
	3262.00	-22.5	H	3.0	36.2	1.0	-57.7	-13.0	-44.7	
Mid Ch, 831.5										
QPSK	1663.00	-26.4	V	3.0	37.0	1.0	-62.4	-13.0	-49.4	
	2494.50	-17.6	V	3.0	36.4	1.0	-53.0	-13.0	-40.0	
	3326.00	-21.9	V	3.0	36.1	1.0	-57.0	-13.0	-44.0	
	1663.00	-29.2	H	3.0	37.0	1.0	-65.2	-13.0	-52.2	
	2494.50	-21.9	H	3.0	36.4	1.0	-57.3	-13.0	-44.3	
	3326.00	-20.8	H	3.0	36.1	1.0	-55.9	-13.0	-42.9	
High Ch, 847.5										
	1695.00	-23.8	V	3.0	37.0	1.0	-59.8	-13.0	-46.8	
	2542.50	-22.2	V	3.0	36.4	1.0	-57.7	-13.0	-44.7	
	3390.00	-21.3	V	3.0	36.1	1.0	-56.4	-13.0	-43.4	
	1695.00	-27.4	H	3.0	37.0	1.0	-63.4	-13.0	-50.4	
	2542.50	-20.2	H	3.0	36.4	1.0	-55.7	-13.0	-42.7	
	3390.00	-21.3	H	3.0	36.1	1.0	-56.4	-13.0	-43.4	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20286							
Date:		4/3/2015							
Test Engineer:		R.Z							
Configuration:		EUT/ AC Charger/ Headset							
Location:		Chamber G							
Mode:		LTE_16QAM Band 26 Harmonics, 1.4MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band									
LTE26									
1.4MHz									
16QAM									
Low Ch, 814.7									
1629.40	-26.7	V	3.0	37.1	1.0	-62.8	-13.0	-49.8	
2444.10	-4.5	V	3.0	36.4	1.0	-39.9	-13.0	-26.9	
3258.80	-21.0	V	3.0	36.2	1.0	-56.2	-13.0	-43.2	
1629.40	-27.5	H	3.0	37.1	1.0	-63.6	-13.0	-50.6	
2444.10	3.8	H	3.0	36.4	1.0	-31.7	-13.0	-18.7	
3258.80	-21.9	H	3.0	36.2	1.0	-57.1	-13.0	-44.1	
Mid Ch, 831.5									
1663.00	-27.8	V	3.0	37.0	1.0	-63.8	-13.0	-50.8	
2494.50	-21.2	V	3.0	36.4	1.0	-56.6	-13.0	-43.6	
3326.00	-21.5	V	3.0	36.1	1.0	-56.6	-13.0	-43.6	
1663.00	-27.9	H	3.0	37.0	1.0	-63.9	-13.0	-50.9	
2494.50	-17.5	H	3.0	36.4	1.0	-52.9	-13.0	-39.9	
3326.00	-20.7	H	3.0	36.1	1.0	-55.8	-13.0	-42.8	
High Ch, 848.3									
1696.60	-26.1	V	3.0	37.0	1.0	-62.1	-13.0	-49.1	
2544.90	-16.1	V	3.0	36.4	1.0	-51.5	-13.0	-38.5	
3393.20	-20.4	V	3.0	36.1	1.0	-55.4	-13.0	-42.4	
1696.60	-28.1	H	3.0	37.0	1.0	-64.1	-13.0	-51.1	
2544.90	-17.9	H	3.0	36.4	1.0	-53.3	-13.0	-40.3	
3393.20	-21.5	H	3.0	36.1	1.0	-56.6	-13.0	-43.6	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20286							
Date:		4/3/2015							
Test Engineer:		R.Z							
Configuration:		EUT/ AC Charger/ Headset							
Location:		Chamber G							
Mode:		LTE_QPSK Band 26 Harmonics, 1.4MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 814.7									
1629.40	-27.5	V	3.0	37.1	1.0	-63.6	-13.0	-50.6	
2444.10	-14.8	V	3.0	36.4	1.0	-50.2	-13.0	-37.2	
LTE26									
3258.80	-22.1	V	3.0	36.2	1.0	-57.3	-13.0	-44.3	
1629.40	-26.0	H	3.0	37.1	1.0	-62.1	-13.0	-49.1	
2444.10	5.9	H	3.0	36.4	1.0	-29.6	-13.0	-16.6	
1.4MHz									
3258.80	-21.7	H	3.0	36.2	1.0	-56.9	-13.0	-43.9	
Mid Ch, 831.5									
1663.00	-26.4	V	3.0	37.0	1.0	-62.4	-13.0	-49.4	
2494.50	-12.7	V	3.0	36.4	1.0	-48.1	-13.0	-35.1	
3326.00	-20.0	V	3.0	36.1	1.0	-55.1	-13.0	-42.1	
1663.00	-27.6	H	3.0	37.0	1.0	-63.6	-13.0	-50.6	
2494.50	-0.6	H	3.0	36.4	1.0	-36.0	-13.0	-23.0	
3326.00	-22.0	H	3.0	36.1	1.0	-57.1	-13.0	-44.1	
High Ch, 848.3									
1696.60	-27.1	V	3.0	37.0	1.0	-63.1	-13.0	-50.1	
2544.90	-15.1	V	3.0	36.4	1.0	-50.5	-13.0	-37.5	
3393.20	-21.8	V	3.0	36.1	1.0	-56.8	-13.0	-43.8	
1696.60	-26.7	H	3.0	37.0	1.0	-62.7	-13.0	-49.7	
2544.90	-5.6	H	3.0	36.4	1.0	-41.0	-13.0	-28.0	
3393.20	-21.1	H	3.0	36.1	1.0	-56.2	-13.0	-43.2	

LTE Band 41

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG							
Project #:		15I20286							
Date:		03/13/15							
Test Engineer:		O. Stoelting							
Configuration:		Z-pos EUT/AC Charger/Headset							
Location:		Chamber C							
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	-15.5	V	3.0	35.5	1.0	-50.0	-25.0	-25.0	
7518.00	-13.6	V	3.0	35.7	1.0	-48.3	-25.0	-23.3	
10024.00	-16.6	V	3.0	36.0	1.0	-51.6	-25.0	-26.6	
5012.00	-17.6	H	3.0	35.5	1.0	-52.1	-25.0	-27.1	
7518.00	-0.6	H	3.0	35.7	1.0	-35.4	-25.0	-10.4	
10024.00	1.7	H	3.0	36.0	1.0	-33.3	-25.0	-8.3	
Mid Ch, 2593									
5186.00	-17.5	V	3.0	35.4	1.0	-51.9	-25.0	-26.9	
7779.00	-5.1	V	3.0	35.8	1.0	-39.9	-25.0	-14.9	
10372.00	-9.4	V	3.0	35.8	1.0	-44.3	-25.0	-19.3	
5186.00	-13.3	H	3.0	35.4	1.0	-47.7	-25.0	-22.7	
7779.00	-1.1	H	3.0	35.8	1.0	-35.9	-25.0	-10.9	
10372.00	-4.1	H	3.0	35.8	1.0	-38.9	-25.0	-13.9	
High Ch, 2680									
5360.00	-12.7	V	3.0	35.4	1.0	-47.2	-25.0	-22.2	
8040.00	-9.7	V	3.0	35.8	1.0	-44.5	-25.0	-19.5	
10720.00	-14.6	V	3.0	35.7	1.0	-49.3	-25.0	-24.3	
5360.00	-17.0	H	3.0	35.4	1.0	-51.5	-25.0	-26.5	
8040.00	3.5	H	3.0	35.8	1.0	-31.3	-25.0	-6.3	
10720.00	-7.3	H	3.0	35.7	1.0	-42.0	-25.0	-17.0	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company: LG Project #: 15I20286 Date: 03/13/15 Test Engineer: O. Stoelting Configuration: Z-pos EUT/AC Charger/Headset Location: Chamber C Mode: LTE_QPSK Band 41 Harmonics, 20MHz Bandwidth										
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band LTE41 20MHz QPSK	Low Ch, 2506									
	5012.00	-19.0	V	3.0	35.5	1.0	-53.4	-25.0	-28.4	
	7518.00	-15.5	V	3.0	35.7	1.0	-50.3	-25.0	-25.3	
	10024.00	-17.1	V	3.0	36.0	1.0	-52.1	-25.0	-27.1	
	5012.00	-16.7	H	3.0	35.5	1.0	-51.1	-25.0	-26.1	
	7518.00	-4.4	H	3.0	35.7	1.0	-39.1	-25.0	-14.1	
	10024.00	-4.4	H	3.0	36.0	1.0	-39.4	-25.0	-14.4	
	Mid Ch, 2593									
	5186.00	-17.0	V	3.0	35.4	1.0	-51.4	-25.0	-26.4	
	7779.00	-5.9	V	3.0	35.8	1.0	-40.7	-25.0	-15.7	
	10372.00	-10.8	V	3.0	35.8	1.0	-45.6	-25.0	-20.6	
	5186.00	-13.5	H	3.0	35.4	1.0	-47.9	-25.0	-22.9	
	7779.00	-1.4	H	3.0	35.8	1.0	-36.2	-25.0	-11.2	
	10372.00	-5.6	H	3.0	35.8	1.0	-40.5	-25.0	-15.5	
	High Ch, 2680									
	5360.00	-13.2	V	3.0	35.4	1.0	-47.6	-25.0	-22.6	
	8040.00	-9.7	V	3.0	35.8	1.0	-44.5	-25.0	-19.5	
	10720.00	-14.3	V	3.0	35.7	1.0	-49.0	-25.0	-24.0	
5360.00	-14.9	H	3.0	35.4	1.0	-49.4	-25.0	-24.4		
8040.00	4.2	H	3.0	35.8	1.0	-30.6	-25.0	-5.6		
10720.00	-6.5	H	3.0	35.7	1.0	-41.2	-25.0	-16.2		

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG							
Project #:		15I20286							
Date:		03/13/15							
Test Engineer:		O. Stoelting							
Configuration:		Z-pos EUT/AC Charger/Headset							
Location:		Chamber C							
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									
LTE41									
15MHz									
16QAM									
Low Ch, 2503.5									
5007.00	-18.8	V	3.0	35.5	1.0	-53.3	-25.0	-28.3	
7510.50	-6.0	V	3.0	35.7	1.0	-40.7	-25.0	-15.7	
10014.00	-7.2	V	3.0	36.0	1.0	-42.2	-25.0	-17.2	
5007.00	-17.2	H	3.0	35.5	1.0	-51.6	-25.0	-26.6	
7510.50	-6.1	H	3.0	35.7	1.0	-40.9	-25.0	-15.9	
10014.00	-2.6	H	3.0	36.0	1.0	-37.6	-25.0	-12.6	
Mid Ch, 2593									
5186.00	-17.9	V	3.0	35.4	1.0	-52.3	-25.0	-27.3	
7779.00	-9.0	V	3.0	35.8	1.0	-43.8	-25.0	-18.8	
10372.00	-15.9	V	3.0	35.8	1.0	-50.8	-25.0	-25.8	
5186.00	-15.4	H	3.0	35.4	1.0	-49.9	-25.0	-24.9	
7779.00	-3.8	H	3.0	35.8	1.0	-38.5	-25.0	-13.5	
10372.00	-7.4	H	3.0	35.8	1.0	-42.3	-25.0	-17.3	
High Ch, 2682.5									
5365.00	-12.9	V	3.0	35.4	1.0	-47.3	-25.0	-22.3	
8047.50	-11.6	V	3.0	35.8	1.0	-46.4	-25.0	-21.4	
10730.00	-6.9	V	3.0	35.7	1.0	-41.6	-25.0	-16.6	
5365.00	-13.2	H	3.0	35.4	1.0	-47.6	-25.0	-22.6	
8047.50	1.3	H	3.0	35.8	1.0	-33.5	-25.0	-8.5	
10730.00	-16.3	H	3.0	35.7	1.0	-51.0	-25.0	-26.0	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG								
Project #:		15I20286								
Date:		03/13/15								
Test Engineer:		O. Stoelting								
Configuration:		Z-pos EUT/AC Charger/Headset								
Location:		Chamber C								
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	Low Ch, 2503.5									
	5007.00	-17.4	V	3.0	35.5	1.0	-51.8	-25.0	-26.8	
	7510.50	-3.8	V	3.0	35.7	1.0	-38.5	-25.0	-13.5	
LTE41	10014.00									
	5007.00	-18.0	H	3.0	35.5	1.0	-52.4	-25.0	-27.4	
	7510.50	-5.2	H	3.0	35.7	1.0	-39.9	-25.0	-14.9	
15MHz	10014.00									
	5007.00	-18.0	H	3.0	35.5	1.0	-52.4	-25.0	-27.4	
	7510.50	-5.2	H	3.0	35.7	1.0	-39.9	-25.0	-14.9	
QPSK	Mid Ch, 2593									
	5186.00	-18.0	V	3.0	35.4	1.0	-52.5	-25.0	-27.5	
	7779.00	-8.9	V	3.0	35.8	1.0	-43.7	-25.0	-18.7	
	10372.00	-16.3	V	3.0	35.8	1.0	-51.2	-25.0	-26.2	
	5186.00	-15.8	H	3.0	35.4	1.0	-50.3	-25.0	-25.3	
	7779.00	-4.3	H	3.0	35.8	1.0	-39.1	-25.0	-14.1	
	10372.00	-8.5	H	3.0	35.8	1.0	-43.3	-25.0	-18.3	
	High Ch, 2682.5									
	5365.00	-13.0	V	3.0	35.4	1.0	-47.5	-25.0	-22.5	
	8047.50	-11.0	V	3.0	35.8	1.0	-45.8	-25.0	-20.8	
	10730.00	-6.9	V	3.0	35.7	1.0	-41.5	-25.0	-16.5	
	5365.00	-12.8	H	3.0	35.4	1.0	-47.3	-25.0	-22.3	
	8047.50	1.2	H	3.0	35.8	1.0	-33.6	-25.0	-8.6	
	10730.00	-16.4	H	3.0	35.7	1.0	-51.1	-25.0	-26.1	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG							
Project #:		15I20286							
Date:		03/13/15							
Test Engineer:		O. Stoelting							
Configuration:		Z-pos EUT/AC Charger/Headset							
Location:		Chamber C							
Mode:		LTE_16QAM Band 41 Harmonics, 10MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band									
LTE41									
10MHz									
16QAM									
Low Ch, 2501									
5002.00	-16.9	V	3.0	35.5	1.0	-51.4	-25.0	-26.4	
7503.00	-4.9	V	3.0	35.7	1.0	-39.6	-25.0	-14.6	
10004.00	-10.8	V	3.0	36.0	1.0	-45.9	-25.0	-20.9	
5002.00	-17.5	H	3.0	35.5	1.0	-51.9	-25.0	-26.9	
7503.00	0.6	H	3.0	35.7	1.0	-34.1	-25.0	-9.1	
10004.00	-10.3	H	3.0	36.0	1.0	-45.3	-25.0	-20.3	
Mid Ch, 2593									
5186.00	-16.9	V	3.0	35.4	1.0	-51.3	-25.0	-26.3	
7779.00	-7.9	V	3.0	35.8	1.0	-42.7	-25.0	-17.7	
10372.00	-12.5	V	3.0	35.8	1.0	-47.4	-25.0	-22.4	
5186.00	-13.3	H	3.0	35.4	1.0	-47.7	-25.0	-22.7	
7779.00	5.4	H	3.0	35.8	1.0	-29.4	-25.0	-4.4	
10372.00	-8.7	H	3.0	35.8	1.0	-43.6	-25.0	-18.6	
High Ch, 2685									
5370.00	-11.7	V	3.0	35.4	1.0	-46.2	-25.0	-21.2	
8055.00	-12.2	V	3.0	35.8	1.0	-47.0	-25.0	-22.0	
10740.00	-5.3	V	3.0	35.7	1.0	-40.0	-25.0	-15.0	
5370.00	-12.2	H	3.0	35.4	1.0	-46.6	-25.0	-21.6	
8055.00	-6.6	H	3.0	35.8	1.0	-41.4	-25.0	-16.4	
10740.00	-10.6	H	3.0	35.7	1.0	-45.3	-25.0	-20.3	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG							
Project #:		15I20286							
Date:		03/13/15							
Test Engineer:		O. Stoelting							
Configuration:		Z-pos EUT/AC Charger/Headset							
Location:		Chamber C							
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	-17.6	V	3.0	35.5	1.0	-52.1	-25.0	-27.1	
7503.00	-3.7	V	3.0	35.7	1.0	-38.5	-25.0	-13.5	
10004.00	-9.7	V	3.0	36.0	1.0	-44.7	-25.0	-19.7	
5002.00	-16.7	H	3.0	35.5	1.0	-51.2	-25.0	-26.2	
7503.00	1.7	H	3.0	35.7	1.0	-33.1	-25.0	-8.1	
10004.00	-9.4	H	3.0	36.0	1.0	-44.4	-25.0	-19.4	
Mid Ch, 2593									
5186.00	-16.3	V	3.0	35.4	1.0	-50.7	-25.0	-25.7	
7779.00	-8.3	V	3.0	35.8	1.0	-43.1	-25.0	-18.1	
10372.00	-13.9	V	3.0	35.8	1.0	-48.8	-25.0	-23.8	
5186.00	-13.6	H	3.0	35.4	1.0	-48.0	-25.0	-23.0	
7779.00	5.2	H	3.0	35.8	1.0	-29.6	-25.0	-4.6	
10372.00	-10.3	H	3.0	35.8	1.0	-45.1	-25.0	-20.1	
High Ch, 2685									
5370.00	-11.5	V	3.0	35.4	1.0	-46.0	-25.0	-21.0	
8055.00	-12.4	V	3.0	35.8	1.0	-47.2	-25.0	-22.2	
10740.00	-6.0	V	3.0	35.7	1.0	-40.7	-25.0	-15.7	
5370.00	-12.1	H	3.0	35.4	1.0	-46.6	-25.0	-21.6	
8055.00	-6.9	H	3.0	35.8	1.0	-41.7	-25.0	-16.7	
10740.00	-11.2	H	3.0	38.0	1.0	-48.2	-25.0	-23.2	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG							
Project #:		15I20286							
Date:		03/13/15							
Test Engineer:		O. Stoelting							
Configuration:		Z-pos EUT/AC Charger/Headset							
Location:		Chamber C							
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	-16.9	V	3.0	35.5	1.0	-51.3	-25.0	-26.3	
7495.50	-2.0	V	3.0	35.7	1.0	-36.7	-25.0	-11.7	
9994.00	-9.3	V	3.0	36.0	1.0	-44.3	-25.0	-19.3	
4997.00	-16.9	H	3.0	35.5	1.0	-51.4	-25.0	-26.4	
7495.50	-0.7	H	3.0	35.7	1.0	-35.5	-25.0	-10.5	
9994.00	-6.7	H	3.0	36.0	1.0	-41.7	-25.0	-16.7	
Mid Ch, 2593									
5186.00	-15.6	V	3.0	35.4	1.0	-50.0	-25.0	-25.0	
7779.00	-9.3	V	3.0	35.8	1.0	-44.1	-25.0	-19.1	
10372.00	-12.1	V	3.0	35.8	1.0	-47.0	-25.0	-22.0	
5186.00	-13.8	H	3.0	35.4	1.0	-48.2	-25.0	-23.2	
7779.00	-6.6	H	3.0	35.8	1.0	-41.3	-25.0	-16.3	
10372.00	-14.3	H	3.0	35.8	1.0	-49.1	-25.0	-24.1	
High Ch, 2687.5									
5375.00	-13.7	V	3.0	35.4	1.0	-48.2	-25.0	-23.2	
8062.50	-11.8	V	3.0	35.8	1.0	-46.6	-25.0	-21.6	
10750.00	-8.6	V	3.0	35.7	1.0	-43.3	-25.0	-18.3	
5375.00	-11.6	H	3.0	35.4	1.0	-46.1	-25.0	-21.1	
8062.50	-3.8	H	3.0	35.8	1.0	-38.6	-25.0	-13.6	
10750.00	-11.7	H	3.0	35.7	1.0	-46.3	-25.0	-21.3	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG								
Project #:		15I20286								
Date:		03/13/15								
Test Engineer:		O. Stoelting								
Configuration:		Z-pos EUT/AC Charger/Headset								
Location:		Chamber C								
Mode:		LTE_QPSK Band 41 Harmonics, 5MHz Bandwidth								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 2498.5										
Band	4997.00	-16.5	V	3.0	35.5	1.0	-50.9	-25.0	-25.9	
	7495.50	-3.1	V	3.0	35.7	1.0	-37.8	-25.0	-12.8	
LTE41	9994.00	-10.7	V	3.0	36.0	1.0	-45.7	-25.0	-20.7	
	4997.00	-16.9	H	3.0	35.5	1.0	-51.4	-25.0	-26.4	
5MHz	7495.50	-2.0	H	3.0	35.7	1.0	-36.8	-25.0	-11.8	
	9994.00	-8.6	H	3.0	36.0	1.0	-43.6	-25.0	-18.6	
Mid Ch, 2593										
QPSK	5186.00	-15.5	V	3.0	35.4	1.0	-50.0	-25.0	-25.0	
	7779.00	-8.9	V	3.0	35.8	1.0	-43.7	-25.0	-18.7	
	10372.00	-13.2	V	3.0	35.8	1.0	-48.1	-25.0	-23.1	
	5186.00	-13.4	H	3.0	35.4	1.0	-47.8	-25.0	-22.8	
	7779.00	-6.9	H	3.0	35.8	1.0	-41.7	-25.0	-16.7	
	10372.00	-14.3	H	3.0	35.8	1.0	-49.1	-25.0	-24.1	
High Ch, 2687.5										
	5375.00	-14.8	V	3.0	35.4	1.0	-49.3	-25.0	-24.3	
	8062.50	-12.2	V	3.0	35.8	1.0	-47.0	-25.0	-22.0	
	10750.00	-9.1	V	3.0	35.7	1.0	-43.8	-25.0	-18.8	
	5375.00	-11.0	H	3.0	35.4	1.0	-45.5	-25.0	-20.5	
	8062.50	-4.3	H	3.0	35.8	1.0	-39.1	-25.0	-14.1	
	10750.00	-12.0	H	3.0	35.7	1.0	-46.6	-25.0	-21.6	