

Band LTE4 1.4MHz 16QAM	High Frequency Substitution Measurement UL Verification Services, Inc.																																																																																																	
	Company:		LG																																																																																															
	Project #:		15I20405																																																																																															
	Date:		4/9/2015																																																																																															
	Test Engineer:		R.Alegre																																																																																															
	Configuration:		EUT Only																																																																																															
	Location:		Chamber C																																																																																															
	Mode:		LTE_16QAM Band 4 Fundamentals, 1.4MHz Bandwidth																																																																																															
	Test Equipment:																																																																																																	
	Receiving: Horn T119, and Chamber C SMA Cables Substitution: Horn T59, 4ft SMA Cable Warehouse																																																																																																	
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Band LTE4 1.4MHz QPSK	High Frequency Substitution Measurement UL Verification Services, Inc.																																																																																																	
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REPORT NO: 15I20405 – E1

DATE: APRIL 22, 2015

MODEL NUMER: LG-US991, US991, LGUS991

FCC ID: ZNFUS991

GSM

High Frequency Substitution Measurement UL Verification Services, Inc. Chamber C									
Band GSM 1900 EGPRS	Company:		LG						
	Project #:		15I20405						
	Date:		4/4/215						
	Test Engineer:		Charles Vergonio						
	Configuration:		EUT Only						
	Location:		Chamber C						
	Mode:		EGPRS 1900						
	Test Equipment:								
	Receiving: Horn T119 and Chamber C SMA Cables								
	Substitution: Horn T59 Substitution, 4ft SMA Cable Warehouse								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes
	Low Ch								
	1850.20	5.96	V	0.9	8.0	13.07	33.0	-19.9	
	1850.20	19.81	H	0.9	8.0	26.92	33.0	-6.1	
	Mid Ch								
	1880.00	6.91	V	0.9	8.0	14.02	33.0	-19.0	
	1880.00	21.48	H	0.9	8.0	28.59	33.0	-4.4	
	High Ch								
	1909.80	5.82	V	0.9	8.0	12.93	33.0	-20.1	
	1909.80	21.36	H	0.9	8.0	28.47	33.0	-4.5	
	Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm								

Band GSM 1900 GPRS	High Frequency Substitution Measurement UL Verification Services, Inc. Chamber C Company: LG Project #: 15I20405 Date: 4/4/215 Test Engineer: Charles Vergonio Configuration: EUT Only Location: Chamber C Mode: GPRS 1900 Test Equipment: Receiving: Horn T119 and Chamber C SMA Cables Substitution: Horn T59 Substitution, 4ft SMA Cable Warehouse								
	f	SG reading	Ant. Pol.	Cable Loss	Antenna Gain	EIRP	Limit	Margin	Notes
	MHz	(dBm)	(H/V)	(dB)	(dBi)	(dBm)	(dBm)	(dB)	
	Low Ch								
	1850.20	9.14	V	0.9	8.0	16.25	33.0	-16.8	
	1850.20	23.92	H	0.9	8.0	31.03	33.0	-2.0	
	Mid Ch								
	1880.00	8.91	V	0.9	8.0	16.02	33.0	-17.0	
	1880.00	23.16	H	0.9	8.0	30.27	33.0	-2.7	
	High Ch								
	1909.80	9.11	V	0.9	8.0	16.22	33.0	-16.8	
	1909.80	24.25	H	0.9	8.0	31.36	33.0	-1.6	
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High Frequency Substitution Measurement UL Verification Services, Inc. Chamber C																																																																																																		
Band GSM 850 EGPRS	Company:		LG																																																																																															
	Project #:		15I20405																																																																																															
	Date:		04/04/15																																																																																															
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WCDMA

Band

Band 2

HSDPA

High Frequency Substitution Measurement

UL Verification Services, Inc. Chamber C

Company: LG

Project #: 15I20405

Date: 4/4/2015

Test Engineer: Charles Vergonio

Configuration: EUT Only

Mode: HSDPA B2

Test Equipment:

Receiving: Horn T119, and Chamber C SMA Cables

Substitution: Horn T59 Substitution, 4ft SMA Cable Warehouse

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes
Low Ch								
1852.40	6.17	V	0.9	8.0	13.28	33.0	-19.7	
1852.40	18.25	H	0.9	8.0	25.36	33.0	-7.6	
Mid Ch								
1880.00	6.32	V	0.9	8.0	13.43	33.0	-19.6	
1880.00	17.92	H	0.9	8.0	25.03	33.0	-8.0	
High Ch								
1907.60	6.69	V	0.9	8.0	13.80	33.0	-19.2	
1907.60	18.96	H	0.9	8.0	26.07	33.0	-6.9	

Rev. 3.17.11

Note: For Band 4 EIRP limit is 30dBm

Band Band 2 REL99	High Frequency Substitution Measurement UL Verification Services, Inc. Chamber C Company: LG Project #: 15I20405 Date: 4/4/2015 Test Engineer: Charles Vergonio Configuration: EUT Only Mode: Rel99 B2 Test Equipment: Receiving: Horn T119, and Chamber C SMA Cables Substitution: Horn T59 Substitution, 4ft SMA Cable Warehouse								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes
	Low Ch								
	1852.40	6.17	V	0.9	8.0	13.28	33.0	-19.7	
	1852.40	18.36	H	0.9	8.0	25.47	33.0	-7.5	
	Mid Ch								
	1880.00	6.44	V	0.9	8.0	13.55	33.0	-19.5	
	1880.00	18.17	H	0.9	8.0	25.28	33.0	-7.7	
	High Ch								
	1907.60	6.85	V	0.9	8.0	13.96	33.0	-19.0	
	1907.60	19.15	H	0.9	8.0	26.26	33.0	-6.7	
Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm									

Band Band 5 HSDPA	High Frequency Substitution Measurement UL Verification Services, Inc. Chamber C								
	Company:		LG						
	Project #:		15I20405						
	Date:		04/04/15						
	Test Engineer:		Charles Vergonio						
	Configuration:		EUT Only Z Position						
	Mode:		HSDPA B5 FUND						
	Test Equipment:								
	Receiving: Sunol T185, and 3m Chamber C N-type Cable								
	Substitution: Dipole T273, 4ft SMA Cable Warehouse.								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Margin (dB)	Notes
Low Ch									
826.40	22.24	V	0.9	0.0	21.34	38.5	-17.1		
826.40	9.59	H	0.9	0.0	8.69	38.5	-29.8		
Mid Ch									
836.60	22.53	V	0.9	0.0	21.63	38.5	-16.8		
836.60	9.81	H	0.9	0.0	8.91	38.5	-29.5		
High Ch									
846.60	22.13	V	0.9	0.0	21.23	38.5	-17.2		
846.60	9.25	H	0.9	0.0	8.35	38.5	-30.1		
Rev. 3.17.11 Note: For Band 13/17 ERP limit is 34.77dBm; For Band 26 limit is 50dBm									

High Frequency Substitution Measurement UL Verification Services, Inc. Chamber C								
Company:	LG							
Project #:	15I20405							
Date:	04/04/15							
Test Engineer:	Charles Vergonio							
Configuration:	EUT Only Z Position							
Mode:	REL99 B5 FUND							
Test Equipment:								
Receiving: Sunol T185, and 3m Chamber C N-type Cable								
Substitution: Dipole T273, 4ft SMA Cable Warehouse.								
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Margin (dB)	Notes
Low Ch								
826.40	22.28	V	0.9	0.0	21.38	38.5	-17.1	
826.40	9.74	H	0.9	0.0	8.84	38.5	-29.6	
Mid Ch								
836.60	22.62	V	0.9	0.0	21.72	38.5	-16.7	
836.60	9.89	H	0.9	0.0	8.99	38.5	-29.5	
High Ch								
846.60	22.31	V	0.9	0.0	21.41	38.5	-17.0	
846.60	9.37	H	0.9	0.0	8.47	38.5	-30.0	
Rev. 3.17.11								
Note: For Band 13/17 ERP limit is 34.77dBm; For Band 26 limit is 50dBm								

CDMA

Band BC1	High Frequency Substitution Measurement UL Verification Services, Inc. Chamber B								
	Company:		LG						
	Project #:		15I20405						
	Date:		4/11/215						
	Test Engineer:		Charles Vergonio						
	Configuration:		EUT Only						
	Location:		Chamber B						
	Mode:		CDMA BC1 EVDO						
	Test Equipment:								
	Receiving: Horn T345 and Chamber B SMA Cables Substitution: Horn T59 Substitution, 4ft SMA Cable Warehouse								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes
	Low Ch								
	1851.25	6.21	V	0.9	8.0	13.32	33.0	-19.7	
	1851.25	18.90	H	0.9	8.0	26.01	33.0	-7.0	
	Mid Ch								
	1880.00	6.71	V	0.9	8.0	13.82	33.0	-19.2	
	1880.00	19.01	H	0.9	8.0	26.12	33.0	-6.9	
	High Ch								
	1908.75	6.46	V	0.9	8.0	13.57	33.0	-19.4	
	1908.75	19.39	H	0.9	8.0	26.50	33.0	-6.5	
	Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm								

Band BC1 1xRTT	High Frequency Substitution Measurement UL Verification Services, Inc. Chamber B																																																																																																	
	Company:		LG																																																																																															
	Project #:		15I20405																																																																																															
	Date:		4/11/215																																																																																															
	Test Engineer:		Charles Vergonio																																																																																															
	Configuration:		EUT Only																																																																																															
	Location:		Chamber B																																																																																															
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	Test Equipment: Receiving: Horn T345 and Chamber B SMA Cables Substitution: Horn T59 Substitution, 4ft SMA Cable Warehouse																																																																																																	
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f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes																																																																																										
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Band BC0	High Frequency Substitution Measurement UL Verification Services, Inc. Chamber B																																																																																																	
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	Project #:		15I20405																																																																																															
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	Test Engineer:		Charles Vergonio																																																																																															
	Configuration:		EUT Only Z Position																																																																																															
	Mode:		CDMA BC0 EVDO FUND																																																																																															
	Test Equipment:																																																																																																	
	Receiving: Sunol T243, and 3m Chamber B N-type Cable																																																																																																	
	Substitution: Dipole T273, 4ft SMA Cable Warehouse.																																																																																																	
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High Frequency Substitution Measurement UL Verification Services, Inc. Chamber B								
Company:	LG							
Project #:	15I20405							
Date:	04/11/15							
Test Engineer:	Charles Vergonio							
Configuration:	EUT Only Z Position							
Mode:	CDMA BC0 RTT FUND							
Test Equipment:								
Receiving: Sunol T243, and 3m Chamber B N-type Cable								
Substitution: Dipole T273, 4ft SMA Cable Warehouse.								
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Margin (dB)	Notes
Low Ch								
824.70	23.54	V	0.9	0.0	22.64	38.5	-15.8	
824.70	11.43	H	0.9	0.0	10.53	38.5	-27.9	
Mid Ch								
836.52	23.66	V	0.9	0.0	22.76	38.5	-15.7	
836.52	11.34	H	0.9	0.0	10.44	38.5	-28.0	
High Ch								
848.31	23.77	V	0.9	0.0	22.87	38.5	-15.6	
848.31	11.38	H	0.9	0.0	10.48	38.5	-28.0	
Rev. 3.17.11								
Note: For Band 13/17 ERP limit is 34.77dBm; For Band 26 limit is 50dBm								

12.1.3.1. LTE (MID CHANNEL ONLY)

Band LTE13 10MHz QPSK	High Frequency Substitution Measurement UL Verification Services, Inc. Chamber C																																																																															
	Company:		LG																																																																													
	Project #:		15I20405																																																																													
	Date:		4/13/2015																																																																													
	Test Engineer:		Jude Semana																																																																													
	Configuration:		EUT + Smart Cover + Dock (Spot Check)																																																																													
	Mode:		LTE_QPSK Band 13 Fundamentals, 10MHz Bandwidth																																																																													
	Test Equipment:																																																																															
	Receiving: Horn T899, and Chamber G SMA Cables																																																																															
	Substitution: Horn T273, Xft SMA Cable (SN # SERIALNUMBER) Warehouse																																																																															
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Rev. 3.17.11 Note: For Band 13/17 ERP limit is 34.77dBm; For Band 26 limit is 50dBm																																																																																

Band LTE12 3MHz QPSK	High Frequency Substitution Measurement UL Verification Services, Inc.																																																																																																	
	Company:		LG																																																																																															
	Project #:		15I20405																																																																																															
	Date:		4/13/2015																																																																																															
	Test Engineer:		Jude Semana																																																																																															
	Configuration:		EUT + Smart Cover + Dock (Spot Check)																																																																																															
	Location:		Chamber G																																																																																															
	Mode:		LTE_QPSK Band 12 Fundamentals, 3MHz Bandwidth																																																																																															
	Test Equipment:																																																																																																	
	Receiving: Horn T899, and Chamber G SMA Cables Substitution: Horn T273, Xft SMA Cable (SN # SERIALNUMBER) Warehouse																																																																																																	
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714.50	0.00	H	0.9	0.0	0.00	38.5	0.0																																																																																											

Band LTE5 1.4MHz QPSK	High Frequency Substitution Measurement UL Verification Services, Inc.																																																																																																	
	Company:		LG																																																																																															
	Project #:		15I20405																																																																																															
	Date:		4/13/2015																																																																																															
	Test Engineer:		Jude Semana																																																																																															
	Configuration:		EUT + Smart Cover + Dock (Spot Check)																																																																																															
	Location:		Chamber G																																																																																															
	Mode:		LTE_QPSK Band 5 Fundamentals, 1.4MHz Bandwidth																																																																																															
	Test Equipment:																																																																																																	
	Receiving: Horn T899, and Chamber G SMA Cables Substitution: Horn T273, Xft SMA Cable (SN # SERIALNUMBER) Warehouse																																																																																																	
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848.30	0.00	H	0.9	0.0	0.00	38.5	0.0																																																																																											

Band LTE4 20MHz QPSK	High Frequency Substitution Measurement UL Verification Services, Inc.																																																																																																	
	Company:		LG																																																																																															
	Project #:		15I20405																																																																																															
	Date:		4/13/2015																																																																																															
	Test Engineer:		Jude Semana																																																																																															
	Configuration:		EUT + Smart Cover + Dock (Spot Check)																																																																																															
	Location:		Chamber G																																																																																															
	Mode:		LTE_QPSK Band 4 Fundamentals, 20MHz Bandwidth																																																																																															
	Test Equipment:																																																																																																	
	Receiving: Horn T711, and Chamber G SMA Cables Substitution: Horn T60, Xft SMA Cable (SN # SERIALNUMBER) Warehouse																																																																																																	
<table border="1"> <thead> <tr> <th>f MHz</th> <th>SG reading (dBm)</th> <th>Ant. Pol. (H/V)</th> <th>Cable Loss (dB)</th> <th>Antenna Gain (dBi)</th> <th>EIRP (dBm)</th> <th>Limit (dBm)</th> <th>Delta (dB)</th> <th>Notes</th> </tr> </thead> <tbody> <tr> <td colspan="9">Low Ch</td> </tr> <tr> <td>1720.00</td> <td>0.00</td> <td>V</td> <td>0.9</td> <td>8.2</td> <td>0.00</td> <td>30.0</td> <td>0.0</td> <td></td> </tr> <tr> <td>1720.00</td> <td>0.00</td> <td>H</td> <td>0.9</td> <td>8.2</td> <td>0.00</td> <td>30.0</td> <td>0.0</td> <td></td> </tr> <tr> <td colspan="9">Mid Ch</td> </tr> <tr> <td>1732.50</td> <td>17.10</td> <td>V</td> <td>0.9</td> <td>8.2</td> <td>24.37</td> <td>30.0</td> <td>-5.6</td> <td></td> </tr> <tr> <td>1732.50</td> <td>21.30</td> <td>H</td> <td>0.9</td> <td>8.2</td> <td>28.57</td> <td>30.0</td> <td>-1.4</td> <td></td> </tr> <tr> <td colspan="9">High Ch</td> </tr> <tr> <td>1745.00</td> <td>0.00</td> <td>V</td> <td>0.9</td> <td>8.1</td> <td>0.00</td> <td>30.0</td> <td>0.0</td> <td></td> </tr> <tr> <td>1745.00</td> <td>0.00</td> <td>H</td> <td>0.9</td> <td>8.1</td> <td>0.00</td> <td>30.0</td> <td>0.0</td> <td></td> </tr> </tbody> </table>									f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	Low Ch									1720.00	0.00	V	0.9	8.2	0.00	30.0	0.0		1720.00	0.00	H	0.9	8.2	0.00	30.0	0.0		Mid Ch									1732.50	17.10	V	0.9	8.2	24.37	30.0	-5.6		1732.50	21.30	H	0.9	8.2	28.57	30.0	-1.4		High Ch									1745.00	0.00	V	0.9	8.1	0.00	30.0	0.0		1745.00	0.00	H	0.9	8.1	0.00	30.0	0.0	
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes																																																																																										
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1745.00	0.00	H	0.9	8.1	0.00	30.0	0.0																																																																																											

Band LTE25 5MHz QPSK	High Frequency Substitution Measurement UL Verification Services, Inc.																																																																																																	
	Company:		LG																																																																																															
	Project #:		15I20405																																																																																															
	Date:		4/13/2015																																																																																															
	Test Engineer:		Jude Semana																																																																																															
	Configuration:		EUT + Smart Cover + Dock (Spot Check)																																																																																															
	Location:		Chamber G																																																																																															
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	Receiving: Horn T711, and Chamber G SMA Cables Substitution: Horn T60, Xft SMA Cable (SN # SERIALNUMBER) Warehouse																																																																																																	
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f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes																																																																																										
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1912.50	0.00	V	0.9	8.0	0.00	33.0	0.0																																																																																											
1912.50	0.00	H	0.9	8.0	0.00	33.0	0.0																																																																																											

12.1.3.2. GSM (MID CHANNEL ONLY)

Band GSM 1900 GPRS	High Frequency Substitution Measurement UL Verification Services, Inc. Chamber C								
	Company:		LG						
	Project #:		15I20405						
	Date:		4/13/2015						
	Test Engineer:		Jude Semana						
	Configuration:		EUT + Smart Cover + Dock (Spot Check)						
	Location:		Chamber G						
	Mode:		GPRS1900						
	Test Equipment:								
	Receiving: Horn T711, and Chamber G SMA Cables								
Substitution: Horn T60, Xft SMA Cable (SN # SERIALNUMBER) Warehouse									
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	N
	Low Ch								
	1850.20		V	0.9	8.0		33.0		
	1850.20		H	0.9	8.0		33.0		
	Mid Ch								
	1880.00	19.52	V	0.9	8.0	26.63	33.0	-6.4	
	1880.00	22.50	H	0.9	8.0	29.61	33.0	-3.4	
	High Ch								
	1909.80		V	0.9	8.0		33.0		
	1909.80		H	0.9	8.0		33.0		
Rev. 3.17.11									
Note: For Band 4 EIRP limit is 30dBm									

Band GSM 850 GPRS	High Frequency Substitution Measurement UL Verification Services, Inc. Chamber C																																																																																																	
	Company:		LG																																																																																															
	Project #:		15I20405																																																																																															
	Date:		4/13/2015																																																																																															
	Engineer:		Jude Semana																																																																																															
	figuration:		EUT + Smart Cover + Dock (Spot Check)																																																																																															
	Location:		Chamber G																																																																																															
	Mode:		GPRS850																																																																																															
	Test Equipment:																																																																																																	
	Receiving: Horn T899, and Chamber G SMA Cables Substitution: Horn T273, Xft SMA Cable (SN # SERIALNUMBER) Warehouse																																																																																																	
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f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Margin (dB)	Notes																																																																																										
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Mid Ch																																																																																																		
836.60	31.20	V	0.9	0.0	30.30	38.5	-8.1																																																																																											
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848.80		V	0.9	0.0		38.5																																																																																												
848.80		H	0.9	0.0		38.5																																																																																												
Rev. 3.17.11 Note: For Band 13/17 ERP limit is 34.77dBm; For Band 26 limit is 50dBm																																																																																																		

12.1.3.3. WCDMA (MID CHANNEL ONLY)

Band 2 REL99	High Frequency Substitution Measurement UL Verification Services, Inc. Chamber G								
	Company:		LG						
	Project #:		15I20405						
	Date:		4/13/2015						
	Test Engineer:		Jude Semana						
	Configuration:		EUT + Smart Cover + Dock (Spot Check)						
	Mode:		Rel99 B2						
	Test Equipment:								
	Receiving: Horn T711, and Chamber G SMA Cables								
	Substitution: Horn T60, Xft SMA Cable (SN # SERIALNUMBER) Warehouse								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	N
	Low Ch								
	1852.40		V	0.9	8.0		33.0		
	1852.40		H	0.9	8.0		33.0		
	Mid Ch								
	1880.00	14.01	V	0.9	8.0	21.12	33.0	-11.9	
	1880.00	17.70	H	0.9	8.0	24.81	33.0	-8.2	
	High Ch								
	1907.60		V	0.9	8.0		33.0		
	1907.60		H	0.9	8.0		33.0		
Rev. 3.17.11									
Note: For Band 4 EIRP limit is 30dBm									

High Frequency Substitution Measurement UL Verification Services, Inc. Chamber C								
Company:		LG						
Project #:		15I20405						
Date:		4/13/2015						
Test Engineer:		Jude Semana						
Configuration:		EUT + Smart Cover + Dock (Spot Check)						
Mode:		REL99 B5 FUND						
Test Equipment:								
Receiving: Horn T899, and Chamber G SMA Cables								
Substitution: Horn T273, Xft SMA Cable (SN # SERIALNUMBER) Warehouse								
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Margin (dB)	Notes
Low Ch								
826.40		V	0.9	0.0		38.5		
826.40		H	0.9	0.0		38.5		
Mid Ch								
836.60	21.17	V	0.9	0.0	20.27	38.5	-18.2	
836.60	9.20	H	0.9	0.0	8.30	38.5	-30.1	
High Ch								
846.60		V	0.9	0.0		38.5		
846.60		H	0.9	0.0		38.5		
Rev. 3.17.11								
Note: For Band 13/17 ERP limit is 34.77dBm; For Band 26 limit is 50dBm								

CDMA BC1 RTT	High Frequency Substitution Measurement UL Verification Services, Inc. Chamber G								
	Company:		LG						
	Project #:		15I20405						
	Date:		4/15/2015						
	Test Engineer:		Jude Semana						
	Configuration:		EUT + Smart Cover + Charging Dock						
	Location:		Chamber G						
	Mode:		CDMA BC1 RTT						
	Test Equipment:								
	Receiving: Horn T711, and Chamber G SMA Cables								
Substitution: Horn T60, Xft SMA Cable (SN # SERIALNUMBER) Warehouse									
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	N
	Low Ch								
	1851.25		V	0.9	8.0		33.0		
	1851.25		H	0.9	8.0		33.0		
	Mid Ch								
	1880.00	2.44	V	0.9	8.0	9.55	33.0	-23.5	
	1880.00	19.09	H	0.9	8.0	26.20	33.0	-6.8	
	High Ch								
	1908.75		V	0.9	8.0		33.0		
	1908.75		H	0.9	8.0		33.0		
Rev. 3.17.11									
Note: For Band 4 EIRP limit is 30dBm									

High Frequency Substitution Measurement UL Verification Services, Inc. Chamber G								
Company:	LG							
Project #:	15I20405							
Date:	4/15/2015							
Engineer:	Jude Semana							
figuration:	EUT + Smart Cover + Charging Dock							
Location:	Chamber G							
Mode:	CDMA BC0 RTT							
Test Equipment:								
Receiving: Horn T899, and Chamber G SMA Cables								
Substitution: Horn T273, Xft SMA Cable (SN # SERIALNUMBER) Warehouse								
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Margin (dB)	Notes
Low Ch								
824.70		V	0.9	0.0		38.5		
824.70		H	0.9	0.0		38.5		
Mid Ch								
836.52	23.11	V	0.9	0.0	22.21	38.5	-16.2	
836.52	10.83	H	0.9	0.0	9.93	38.5	-28.5	
High Ch								
848.31		V	0.9	0.0		38.5		
848.31		H	0.9	0.0		38.5		
Rev. 3.17.11								
Note: For Band 13/17 ERP limit is 34.77dBm; For Band 26 limit is 50dBm								

12.2. FIELD STRENGTH OF SPURIOUS RADIATION**RULE PART(S)**

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

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.

TEST PROCEDURE

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

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

RESULTS

12.2.1. SPURIOUS RADIATION PLOTS**LTE Band 25**

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Band LTE25 20MHz 16QAM	Company: LG Electronics Project #: 15I20405 Date: 4/2/2015 Test Engineer: Jude Semana Configuration: EUT w/ AC Charger + HS Location: Chamber G Mode: LTE_16QAM Band 25 Harmonics, 20MHz Bandwidth									
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamplifier (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 1860									
	3720.00	-16.9	V	3.0	35.8	1.0	-51.8	-13.0	-38.8	
	5580.00	-9.4	V	3.0	35.5	1.0	-43.9	-13.0	-30.9	
	7440.00	-11.5	V	3.0	35.7	1.0	-46.2	-13.0	-33.2	
	3720.00	-15.9	H	3.0	35.8	1.0	-50.7	-13.0	-37.7	
	5580.00	-13.0	H	3.0	35.5	1.0	-47.5	-13.0	-34.5	
	7440.00	-11.4	H	3.0	35.7	1.0	-46.1	-13.0	-33.1	
	Mid Ch, 1882.5									
	3765.00	-16.5	V	3.0	35.8	1.0	-51.3	-13.0	-38.3	
	5647.50	-13.3	V	3.0	35.5	1.0	-47.8	-13.0	-34.8	
	7530.00	-12.3	V	3.0	35.7	1.0	-47.1	-13.0	-34.1	
	3765.00	-17.9	H	3.0	35.8	1.0	-52.7	-13.0	-39.7	
	5647.50	-14.5	H	3.0	35.5	1.0	-49.0	-13.0	-36.0	
	7530.00	-11.1	H	3.0	35.7	1.0	-45.8	-13.0	-32.8	
	High Ch, 1905									
	3810.00	-10.9	V	3.0	35.8	1.0	-45.7	-13.0	-32.7	
	5715.00	-11.4	V	3.0	35.5	1.0	-45.9	-13.0	-32.9	
	7620.00	-12.1	V	3.0	35.8	1.0	-46.8	-13.0	-33.8	
	3810.00	-9.6	H	3.0	35.8	1.0	-44.4	-13.0	-31.4	
	5715.00	-12.6	H	3.0	35.5	1.0	-47.1	-13.0	-34.1	
	7620.00	-11.0	H	3.0	35.8	1.0	-45.8	-13.0	-32.8	

UL Verification Services, Inc.										
Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I20405								
Date:		4/2/2015								
Test Engineer:		Jude Semana								
Configuration:		EUT w/ AC Charger + HS								
Location:		Chamber G								
Mode:		LTE_QPSK Band 25 Harmonics, 20MHz Bandwidth								
Band	f	SG reading	Ant. Pol.	Distance	Preampl	Filter	EIRP	Limit	Delta	Notes
	MHz	(dBm)	(H/V)	(m)	(dB)	(dB)	(dBm)	(dBm)	(dB)	
LTE25	Low Ch, 1860									
	3720.00	-16.7	V	3.0	35.8	1.0	-51.6	-13.0	-38.6	
	5580.00	-9.8	V	3.0	35.5	1.0	-44.3	-13.0	-31.3	
20MHz	7440.00	-12.5	V	3.0	35.7	1.0	-47.2	-13.0	-34.2	
	3720.00	-15.8	H	3.0	35.8	1.0	-50.6	-13.0	-37.6	
	5580.00	-12.4	H	3.0	35.5	1.0	-46.9	-13.0	-33.9	
QPSK	7440.00	-10.9	H	3.0	35.7	1.0	-45.7	-13.0	-32.7	
	Mid Ch, 1882.5									
	3765.00	-15.5	V	3.0	35.8	1.0	-50.3	-13.0	-37.3	
	5647.50	-13.3	V	3.0	35.5	1.0	-47.8	-13.0	-34.8	
	7530.00	-12.3	V	3.0	35.7	1.0	-47.1	-13.0	-34.1	
	3765.00	-17.6	H	3.0	35.8	1.0	-52.4	-13.0	-39.4	
	5647.50	-13.9	H	3.0	35.5	1.0	-48.4	-13.0	-35.4	
	7530.00	-11.4	H	3.0	35.7	1.0	-46.2	-13.0	-33.2	
	High Ch, 1905									
	3810.00	-10.9	V	3.0	35.8	1.0	-45.7	-13.0	-32.7	
	5715.00	-11.2	V	3.0	35.5	1.0	-45.7	-13.0	-32.7	
	7620.00	-12.0	V	3.0	35.8	1.0	-46.7	-13.0	-33.7	
	3810.00	-10.5	H	3.0	35.8	1.0	-45.3	-13.0	-32.3	
	5715.00	-12.9	H	3.0	35.5	1.0	-47.4	-13.0	-34.4	
	7620.00	-11.5	H	3.0	35.8	1.0	-46.2	-13.0	-33.2	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company: LG Electronics Project #: 15I20405 Date: 4/2/2015 Test Engineer: Jude Semana Configuration: EUT w/ AC Charger + HS Location: Chamber G Mode: LTE_16QAM Band 25 Harmonics, 3MHz Bandwidth										
Band	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamplifier (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
LTE25 3MHz 16QAM	Low Ch, 1851.5									
	3703.00	-16.7	V	3.0	35.9	1.0	-51.5	-13.0	-38.5	
	5554.50	-14.0	V	3.0	35.5	1.0	-48.5	-13.0	-35.5	
	7406.00	-11.9	V	3.0	35.7	1.0	-46.6	-13.0	-33.6	
	3703.00	-16.9	H	3.0	35.9	1.0	-51.8	-13.0	-38.8	
	5554.50	-13.9	H	3.0	35.5	1.0	-48.3	-13.0	-35.3	
	7406.00	-10.6	H	3.0	35.7	1.0	-45.3	-13.0	-32.3	
	Mid Ch, 1882.5									
	3765.00	-17.0	V	3.0	35.8	1.0	-51.8	-13.0	-38.8	
	5647.50	-14.3	V	3.0	35.5	1.0	-48.8	-13.0	-35.8	
	7530.00	-12.4	V	3.0	35.7	1.0	-47.2	-13.0	-34.2	
	3765.00	-18.2	H	3.0	35.8	1.0	-53.0	-13.0	-40.0	
	5647.50	-13.7	H	3.0	35.5	1.0	-48.2	-13.0	-35.2	
	7530.00	-11.0	H	3.0	35.7	1.0	-45.7	-13.0	-32.7	
	High Ch, 1913.5									
	3827.00	-16.4	V	3.0	35.8	1.0	-51.2	-13.0	-38.2	
	5740.50	-14.2	V	3.0	35.5	1.0	-48.7	-13.0	-35.7	
	7654.00	-12.0	V	3.0	35.8	1.0	-46.7	-13.0	-33.7	
	3827.00	-17.5	H	3.0	35.8	1.0	-52.2	-13.0	-39.2	
	5740.50	-13.5	H	3.0	35.5	1.0	-48.0	-13.0	-35.0	
	7654.00	-11.3	H	3.0	35.8	1.0	-46.1	-13.0	-33.1	

LTE Band 13

UL Verification Services, Inc. Chamber C Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20405							
Date:		04/05/15							
Test Engineer:		Jude Semana							
Configuration:		EUT w/ AC Adapter + HS							
Location:		Chamber C							
Mode:		LTE_16QAM Band 13 Harmonics, 10MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamplifier (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band LTE13 10MHz 16QAM	Low Ch, 782								
	0.0	V	3.0	37.1	1.0	0.0	-13.0	0.0	
	0.0	V	3.0	36.5	1.0	0.0	-13.0	0.0	
	0.0	V	3.0	36.3	1.0	0.0	-13.0	0.0	
	0.0	H	3.0	37.1	1.0	0.0	-13.0	0.0	
	0.0	H	3.0	36.5	1.0	0.0	-13.0	0.0	
	0.0	H	3.0	36.3	1.0	0.0	-13.0	0.0	
	Mid Ch, 782								
	1564.00	V	3.0	37.1	1.0	-63.6	-13.0	-50.6	
	2346.00	V	3.0	36.5	1.0	-56.8	-13.0	-43.8	
	3128.00	V	3.0	36.3	1.0	-54.8	-13.0	-41.8	
	1564.00	H	3.0	37.1	1.0	-64.5	-13.0	-51.5	
	2346.00	H	3.0	36.5	1.0	-58.1	-13.0	-45.1	
	3128.00	H	3.0	36.3	1.0	-54.4	-13.0	-41.4	
	High Ch, 782								
	0.0	V	3.0	37.1	1.0	0.0	-13.0	0.0	
	0.0	V	3.0	36.5	1.0	0.0	-13.0	0.0	
	0.0	V	3.0	36.3	1.0	0.0	-13.0	0.0	
	0.0	H	3.0	37.1	1.0	0.0	-13.0	0.0	
	0.0	H	3.0	36.5	1.0	0.0	-13.0	0.0	
	0.0	H	3.0	36.3	1.0	0.0	-13.0	0.0	

UL Verification Services, Inc. Chamber C Above 1GHz High Frequency Substitution Measurement									
Company: LG Electronics Project #: 15I20405 Date: 04/05/15 Test Engineer: Jude Semana Configuration: EUT w/ AC Adapter + HS Location: Chamber C Mode: LTE_QPSK Band 13 Harmonics, 10MHz Bandwidth									
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamplifier (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band LTE13 10MHz QPSK	Low Ch, 782								
	0.0	V	3.0	37.1	1.0	0.0	-13.0	0.0	
	0.0	V	3.0	36.5	1.0	0.0	-13.0	0.0	
	0.0	V	3.0	36.3	1.0	0.0	-13.0	0.0	
	0.0	H	3.0	37.1	1.0	0.0	-13.0	0.0	
	0.0	H	3.0	36.5	1.0	0.0	-13.0	0.0	
	0.0	H	3.0	36.3	1.0	0.0	-13.0	0.0	
	Mid Ch, 782								
	1564.00	V	3.0	37.1	1.0	-63.8	-13.0	-50.8	
	2346.00	V	3.0	36.5	1.0	-57.4	-13.0	-44.4	
	3128.00	V	3.0	36.3	1.0	-53.9	-13.0	-40.9	
	1564.00	H	3.0	37.1	1.0	-64.0	-13.0	-51.0	
	2346.00	H	3.0	36.5	1.0	-58.0	-13.0	-45.0	
	3128.00	H	3.0	36.3	1.0	-54.2	-13.0	-41.2	
	High Ch, 782								
	0.0	V	3.0	37.1	1.0	0.0	-13.0	0.0	
	0.0	V	3.0	36.5	1.0	0.0	-13.0	0.0	
	0.0	V	3.0	36.3	1.0	0.0	-13.0	0.0	
	0.0	H	3.0	37.1	1.0	0.0	-13.0	0.0	
	0.0	H	3.0	36.5	1.0	0.0	-13.0	0.0	
	0.0	H	3.0	36.3	1.0	0.0	-13.0	0.0	

UL Verification Services, Inc. Chamber C										
Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I20405								
Date:		04/05/15								
Test Engineer:		Jude Semana								
Configuration:		EUT w/ AC Adapter + HS								
Mode:		LTE13_5M_16QAM								
Band LTE13 5MHz 16QAM	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 779.5									
	1559.00	-25.4	V	3.0	37.0	1.0	-61.4	-13.0	-48.4	
	2338.50	-21.1	V	3.0	36.4	1.0	-56.5	-13.0	-43.5	
	3118.00	-18.3	V	3.0	36.2	1.0	-53.5	-13.0	-40.5	
	1559.00	-26.1	H	3.0	37.0	1.0	-62.1	-13.0	-49.1	
	2338.50	-22.3	H	3.0	36.4	1.0	-57.7	-13.0	-44.7	
	3118.00	-18.9	H	3.0	36.2	1.0	-54.1	-13.0	-41.1	
	Mid Ch, 782									
	1564.00	-27.1	V	3.0	37.0	1.0	-63.1	-13.0	-50.1	
	2346.00	-20.9	V	3.0	36.4	1.0	-56.3	-13.0	-43.3	
	3128.00	-18.8	V	3.0	36.1	1.0	-53.9	-13.0	-40.9	
	1564.00	-26.4	H	3.0	37.0	1.0	-62.4	-13.0	-49.4	
	2346.00	-22.8	H	3.0	36.4	1.0	-58.2	-13.0	-45.2	
	3128.00	-18.5	H	3.0	36.1	1.0	-53.6	-13.0	-40.6	
	High Ch, 784.5									
	1569.00	-25.8	V	3.0	37.0	1.0	-61.7	-13.0	-48.7	
	2353.50	-20.4	V	3.0	36.4	1.0	-55.8	-13.0	-42.8	
	3138.00	-18.9	V	3.0	36.1	1.0	-54.0	-13.0	-41.0	
	1569.00	-26.0	H	3.0	37.0	1.0	-62.0	-13.0	-49.0	
2353.50	-22.9	H	3.0	36.4	1.0	-58.3	-13.0	-45.3		
3138.00	-18.8	H	3.0	36.1	1.0	-53.8	-13.0	-40.8		

UL Verification Services, Inc. Chamber C Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20405							
Date:		04/05/15							
Test Engineer:		Jude Semana							
Configuration:		EUT w/ AC Adapter + HS							
Mode:		ILTE13_5M_QPSK							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 779.5									
1559.00	-26.3	V	3.0	37.0	1.0	-62.3	-13.0	-49.3	
2338.50	-20.5	V	3.0	36.4	1.0	-55.9	-13.0	-42.9	
3118.00	-19.4	V	3.0	36.2	1.0	-54.6	-13.0	-41.6	
1559.00	-26.7	H	3.0	37.0	1.0	-62.7	-13.0	-49.7	
2338.50	-23.2	H	3.0	36.4	1.0	-58.6	-13.0	-45.6	
3118.00	-18.1	H	3.0	36.2	1.0	-53.3	-13.0	-40.3	
Mid Ch, 782									
1564.00	-26.9	V	3.0	37.0	1.0	-62.9	-13.0	-49.9	
2346.00	-20.4	V	3.0	36.4	1.0	-55.8	-13.0	-42.8	
3128.00	-18.7	V	3.0	36.1	1.0	-53.8	-13.0	-40.8	
1564.00	-25.6	H	3.0	37.0	1.0	-61.6	-13.0	-48.6	
2346.00	-22.9	H	3.0	36.4	1.0	-58.3	-13.0	-45.3	
3128.00	-18.3	H	3.0	36.1	1.0	-53.4	-13.0	-40.4	
High Ch, 784.5									
1569.00	-25.8	V	3.0	37.0	1.0	-61.8	-13.0	-48.8	
2353.50	-20.5	V	3.0	36.4	1.0	-55.9	-13.0	-42.9	
3138.00	-18.8	V	3.0	36.1	1.0	-53.9	-13.0	-40.9	
1569.00	-25.4	H	3.0	37.0	1.0	-61.4	-13.0	-48.4	
2353.50	-22.4	H	3.0	36.4	1.0	-57.8	-13.0	-44.8	
3138.00	-18.7	H	3.0	36.1	1.0	-53.8	-13.0	-40.8	

UL Verification Services, Inc. Chamber C Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20405							
Date:		04/05/15							
Test Engineer:		Jude Semana							
Configuration:		EUT w/ AC Adapter + HS							
Location:		Chamber C							
Mode:		LTE_QPSK Band 12 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,704									
1408.00	-28.3	V	3.0	37.4	1.0	-64.6	-13.0	-51.6	
2112.00	-22.9	V	3.0	36.6	1.0	-58.4	-13.0	-45.4	
2816.00	-20.9	V	3.0	36.4	1.0	-56.3	-13.0	-43.3	
1408.00	-27.8	H	3.0	37.4	1.0	-64.1	-13.0	-51.1	
2112.00	-23.5	H	3.0	36.6	1.0	-59.0	-13.0	-46.0	
2816.00	-21.6	H	3.0	36.4	1.0	-56.9	-13.0	-43.9	
Mid Ch,707.5									
1415.00	-28.5	V	3.0	37.3	1.0	-64.8	-13.0	-51.8	
2122.50	-22.3	V	3.0	36.6	1.0	-57.8	-13.0	-44.8	
2830.00	-21.2	V	3.0	36.4	1.0	-56.6	-13.0	-43.6	
1415.00	-27.8	H	3.0	37.3	1.0	-64.1	-13.0	-51.1	
2122.50	-23.8	H	3.0	36.6	1.0	-59.4	-13.0	-46.4	
2830.00	-22.6	H	3.0	36.4	1.0	-58.0	-13.0	-45.0	
High Ch,711									
1422.00	-28.9	V	3.0	37.3	1.0	-65.2	-13.0	-52.2	
2133.00	-23.6	V	3.0	36.6	1.0	-59.2	-13.0	-46.2	
2844.00	-22.6	V	3.0	36.4	1.0	-58.0	-13.0	-45.0	
1422.00	-26.4	H	3.0	37.3	1.0	-62.8	-13.0	-49.8	
2133.00	-22.9	H	3.0	36.6	1.0	-58.4	-13.0	-45.4	
2844.00	-22.1	H	3.0	36.4	1.0	-57.5	-13.0	-44.5	

UL Verification Services, Inc. Chamber C Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20405							
Date:		04/05/15							
Test Engineer:		Jude Semana							
Configuration:		EUT w/ AC Adapter + HS							
Location:		Chamber C							
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
Band LTE12 5MHz 16QAM	Low Ch, 701.50								
	1403.00	-28.8	V	3.0	37.4	1.0	-65.2	-13.0	-52.2
	2104.50	-23.1	V	3.0	36.6	1.0	-58.6	-13.0	-45.6
	2806.00	-21.6	V	3.0	36.4	1.0	-57.0	-13.0	-44.0
	1403.00	-28.0	H	3.0	37.4	1.0	-64.4	-13.0	-51.4
	2104.50	-23.3	H	3.0	36.6	1.0	-58.9	-13.0	-45.9
	2806.00	-22.5	H	3.0	36.4	1.0	-57.9	-13.0	-44.9
	Mid Ch, 707.50								
	1415.00	-28.0	V	3.0	37.3	1.0	-64.4	-13.0	-51.4
	2122.50	-22.1	V	3.0	36.6	1.0	-57.7	-13.0	-44.7
	2830.00	-21.1	V	3.0	36.4	1.0	-56.5	-13.0	-43.5
	1415.00	-27.7	H	3.0	37.3	1.0	-64.0	-13.0	-51.0
	2122.50	-23.3	H	3.0	36.6	1.0	-58.9	-13.0	-45.9
	2830.00	-22.6	H	3.0	36.4	1.0	-58.0	-13.0	-45.0
	High Ch, 713.50								
	1427.00	-28.8	V	3.0	37.3	1.0	-65.2	-13.0	-52.2
	2140.50	-22.7	V	3.0	36.6	1.0	-58.2	-13.0	-45.2
	2854.00	-20.8	V	3.0	36.4	1.0	-56.2	-13.0	-43.2
	1427.00	-27.9	H	3.0	37.3	1.0	-64.2	-13.0	-51.2
	2140.50	-24.2	H	3.0	36.6	1.0	-59.8	-13.0	-46.8
	2854.00	-22.6	H	3.0	36.4	1.0	-58.0	-13.0	-45.0

UL Verification Services, Inc. Chamber C Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20405							
Date:		04/05/15							
Test Engineer:		Jude Semana							
Configuration:		EUT w/ AC Adapter + HS							
Location:		Chamber C							
Mode:		LTE_QPSK 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
Band LTE12 5MHz QPSK	Low Ch, 701.50								
	1403.00	-28.6	V	3.0	37.4	1.0	-65.0	-13.0	-52.0
	2104.50	-22.6	V	3.0	36.6	1.0	-58.1	-13.0	-45.1
	2806.00	-20.1	V	3.0	36.4	1.0	-55.5	-13.0	-42.5
	1403.00	-27.7	H	3.0	37.4	1.0	-64.1	-13.0	-51.1
	2104.50	-24.3	H	3.0	36.6	1.0	-59.8	-13.0	-46.8
	2806.00	-22.7	H	3.0	36.4	1.0	-58.0	-13.0	-45.0
	Mid Ch, 707.50								
	1415.00	-29.0	V	3.0	37.3	1.0	-65.3	-13.0	-52.3
	2122.50	-22.5	V	3.0	36.6	1.0	-58.0	-13.0	-45.0
	2830.00	-21.1	V	3.0	36.4	1.0	-56.5	-13.0	-43.5
	1415.00	-27.2	H	3.0	37.3	1.0	-63.6	-13.0	-50.6
	2122.50	-23.9	H	3.0	36.6	1.0	-59.5	-13.0	-46.5
	2830.00	-21.6	H	3.0	36.4	1.0	-57.0	-13.0	-44.0
	High Ch, 713.50								
	1427.00	-28.8	V	3.0	37.3	1.0	-65.1	-13.0	-52.1
	2140.50	-22.7	V	3.0	36.6	1.0	-58.2	-13.0	-45.2
	2854.00	-21.3	V	3.0	36.4	1.0	-56.7	-13.0	-43.7
	1427.00	-27.8	H	3.0	37.3	1.0	-64.1	-13.0	-51.1
	2140.50	-23.4	H	3.0	36.6	1.0	-59.0	-13.0	-46.0
	2854.00	-22.0	H	3.0	36.4	1.0	-57.4	-13.0	-44.4

UL Verification Services, Inc. Chamber C Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20405							
Date:		04/05/15							
Test Engineer:		Jude Semana							
Configuration:		EUT w/ AC Adapter + HS							
Location:		Chamber C							
Mode:		LTE_16QAM Band 12 Harmonics, 3MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamplifier (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 700.5									
1401.00	-28.7	V	3.0	37.4	1.0	-65.1	-13.0	-52.1	
2101.50	-22.3	V	3.0	36.6	1.0	-57.8	-13.0	-44.8	
2802.00	-21.3	V	3.0	36.4	1.0	-56.6	-13.0	-43.6	
1401.00	-27.5	H	3.0	37.4	1.0	-63.9	-13.0	-50.9	
2101.50	-23.8	H	3.0	36.6	1.0	-59.3	-13.0	-46.3	
2802.00	-22.2	H	3.0	36.4	1.0	-57.6	-13.0	-44.6	
Mid Ch, 707.50									
1415.00	-28.3	V	3.0	37.3	1.0	-64.6	-13.0	-51.6	
2122.00	-22.5	V	3.0	36.6	1.0	-58.1	-13.0	-45.1	
2830.00	-20.9	V	3.0	36.4	1.0	-56.3	-13.0	-43.3	
1415.00	-27.4	H	3.0	37.3	1.0	-63.8	-13.0	-50.8	
2122.00	-22.6	H	3.0	36.6	1.0	-58.2	-13.0	-45.2	
2830.00	-21.3	H	3.0	36.4	1.0	-56.7	-13.0	-43.7	
High Ch, 714.5									
1429.00	-28.2	V	3.0	37.3	1.0	-64.5	-13.0	-51.5	
2143.50	-22.3	V	3.0	36.6	1.0	-57.9	-13.0	-44.9	
2858.00	-21.9	V	3.0	36.4	1.0	-57.3	-13.0	-44.3	
1429.00	-27.0	H	3.0	37.3	1.0	-63.4	-13.0	-50.4	
2143.50	-23.6	H	3.0	36.6	1.0	-59.2	-13.0	-46.2	
2858.00	-22.0	H	3.0	36.4	1.0	-57.4	-13.0	-44.4	

UL Verification Services, Inc. Chamber C Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20405							
Date:		04/05/15							
Test Engineer:		Jude Semana							
Configuration:		EUT w/ AC Adapter + HS							
Location:		Chamber C							
Mode:		LTE_QPSK Band 12 Harmonics, 3MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamplifier (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 700.5									
Band LTE12 3MHz QPSK	1401.00	-28.9	V	3.0	37.4	1.0	-65.3	-13.0	-52.3
	2101.50	-22.6	V	3.0	36.6	1.0	-58.2	-13.0	-45.2
	2802.00	-21.6	V	3.0	36.4	1.0	-57.0	-13.0	-44.0
	1401.00	-28.0	H	3.0	37.4	1.0	-64.3	-13.0	-51.3
	2101.50	-22.7	H	3.0	36.6	1.0	-58.2	-13.0	-45.2
	2802.00	-22.2	H	3.0	36.4	1.0	-57.6	-13.0	-44.6
Mid Ch, 707.50									
	1415.00	-29.8	V	3.0	37.3	1.0	-66.1	-13.0	-53.1
	2122.00	-22.4	V	3.0	36.6	1.0	-57.9	-13.0	-44.9
	2830.00	-20.3	V	3.0	36.4	1.0	-55.7	-13.0	-42.7
	1415.00	-27.9	H	3.0	37.3	1.0	-64.3	-13.0	-51.3
	2122.00	-23.2	H	3.0	36.6	1.0	-58.8	-13.0	-45.8
	2830.00	-22.3	H	3.0	36.4	1.0	-57.6	-13.0	-44.6
High Ch, 714.5									
	1429.00	-28.8	V	3.0	37.3	1.0	-65.2	-13.0	-52.2
	2143.50	-22.9	V	3.0	36.6	1.0	-58.5	-13.0	-45.5
	2858.00	-21.1	V	3.0	36.4	1.0	-56.4	-13.0	-43.4
	1429.00	-27.7	H	3.0	37.3	1.0	-64.1	-13.0	-51.1
	2143.50	-23.8	H	3.0	36.6	1.0	-59.3	-13.0	-46.3
	2858.00	-22.0	H	3.0	36.4	1.0	-57.3	-13.0	-44.3

UL Verification Services, Inc. Chamber C Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20405							
Date:		04/05/15							
Test Engineer:		Jude Semana							
Configuration:		EUT w/ AC Adapter + HS							
Location:		Chamber C							
Mode:		LTE_16QAM Band 12 Harmonics, 1.4MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamplifier (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 699.7									
Band LTE12 1.4MHz 16QAM	1399.40	-28.7	V	3.0	37.4	1.0	-65.1	-13.0	-52.1
	2099.10	-23.1	V	3.0	36.6	1.0	-58.7	-13.0	-45.7
	2798.80	-21.4	V	3.0	36.4	1.0	-56.8	-13.0	-43.8
	1399.40	-27.5	H	3.0	37.4	1.0	-63.9	-13.0	-50.9
	2099.10	-24.2	H	3.0	36.6	1.0	-59.7	-13.0	-46.7
	2798.80	-22.6	H	3.0	36.4	1.0	-57.9	-13.0	-44.9
Mid Ch, 707.50									
	1415.00	-29.6	V	3.0	37.3	1.0	-66.0	-13.0	-53.0
	2122.00	-22.6	V	3.0	36.6	1.0	-58.1	-13.0	-45.1
	2830.00	-22.0	V	3.0	36.4	1.0	-57.4	-13.0	-44.4
	1415.00	-27.4	H	3.0	37.3	1.0	-63.7	-13.0	-50.7
	2122.00	-24.2	H	3.0	36.6	1.0	-59.8	-13.0	-46.8
	2830.00	-22.1	H	3.0	36.4	1.0	-57.5	-13.0	-44.5
	High Ch, 715.3								
	1430.60	-27.5	V	3.0	37.3	1.0	-63.8	-13.0	-50.8
	2145.90	-22.8	V	3.0	36.6	1.0	-58.4	-13.0	-45.4
	2861.20	-20.6	V	3.0	36.4	1.0	-56.0	-13.0	-43.0
	1430.60	-27.8	H	3.0	37.3	1.0	-64.2	-13.0	-51.2
	2145.90	-23.2	H	3.0	36.6	1.0	-58.8	-13.0	-45.8
	2861.20	-21.9	H	3.0	36.4	1.0	-57.3	-13.0	-44.3

UL Verification Services, Inc. Chamber C Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I20405								
Date:		04/05/15								
Test Engineer:		Jude Semana								
Configuration:		EUT w/ AC Adapter + HS								
Mode:		LTE5 10MHz QPSK HARM								
Chamber		Pre-amplifier		Filter		Limit				
3m Chamber		T34 8449B		Filter 1		Part 22				
Band	f	SG reading	Ant. Pol.	Distance		Filter	EIRP	Limit	Delta	Notes
LTE5	GHz	(dBm)	(H/V)	(m)	(dB)	(dB)	(dBm)	(dBm)	(dB)	
10MHz	Low Ch, 829MHz									
QPSK	1.658	-26.6	V	3.0	37.4	1.0	-63.0	-13.0	-50.0	
	2.487	-20.4	V	3.0	36.4	1.0	-55.8	-13.0	-42.8	
	3.316	-21.2	V	3.0	35.8	1.0	-56.0	-13.0	-43.0	
	1.658	-26.7	H	3.0	37.4	1.0	-63.1	-13.0	-50.1	
	2.487	-21.5	H	3.0	36.4	1.0	-56.9	-13.0	-43.9	
	3.316	-21.1	H	3.0	35.8	1.0	-55.8	-13.0	-42.8	
	Mid Ch, 836.5MHz									
	1.673	-25.4	V	3.0	37.3	1.0	-61.8	-13.0	-48.8	
	2.510	-21.0	V	3.0	36.4	1.0	-56.3	-13.0	-43.3	
	3.346	-20.5	V	3.0	35.8	1.0	-55.2	-13.0	-42.2	
	1.673	-26.6	H	3.0	37.3	1.0	-62.9	-13.0	-49.9	
	2.510	-22.3	H	3.0	36.4	1.0	-57.7	-13.0	-44.7	
	3.346	-21.2	H	3.0	35.8	1.0	-56.0	-13.0	-43.0	
	High Ch, 844 MHz									
	1.688	-25.6	V	3.0	37.3	1.0	-62.0	-13.0	-49.0	
	2.532	-20.6	V	3.0	36.3	1.0	-56.0	-13.0	-43.0	
	3.376	-19.6	V	3.0	35.7	1.0	-54.3	-13.0	-41.3	
	1.688	-25.7	H	3.0	37.3	1.0	-62.0	-13.0	-49.0	
	2.532	-23.4	H	3.0	36.3	1.0	-58.8	-13.0	-45.8	
	3.376	-19.9	H	3.0	35.7	1.0	-54.6	-13.0	-41.6	

UL Verification Services, Inc. Chamber C Above 1GHz High Frequency Substitution Measurement										
Band LTE5 5MHz 16QAM	Company: LG Electronics Project #: 15I20405 Date: 04/05/15 Test Engineer: Jude Semana Configuration: EUT w/ AC Adapter + HS Mode: LTE5 5M 16QAM									
	Chamber Pre-amplifier Filter Limit 3m Chamber T34 8449B Filter 1 Part 22									
	f	SG reading	Ant. Pol.	Distance	Preamp	Filter	EIRP	Limit	Delta	Notes
	GHz	(dBm)	(H/V)	(m)	(dB)	(dB)	(dBm)	(dBm)	(dB)	
	Low Ch, 826.5MHz									
	1.653	-26.0	V	3.0	37.4	1.0	-62.3	-13.0	-49.3	
	2.480	-20.7	V	3.0	36.4	1.0	-56.1	-13.0	-43.1	
	3.306	-19.7	V	3.0	35.8	1.0	-54.5	-13.0	-41.5	
	1.653	-26.1	H	3.0	37.4	1.0	-62.5	-13.0	-49.5	
	2.480	-22.4	H	3.0	36.4	1.0	-57.8	-13.0	-44.8	
	3.306	-19.7	H	3.0	35.8	1.0	-54.5	-13.0	-41.5	
	Mid Ch, 836.5MHz									
	1.673	-25.1	V	3.0	37.3	1.0	-61.5	-13.0	-48.5	
	2.510	-20.1	V	3.0	36.4	1.0	-55.5	-13.0	-42.5	
	3.346	-21.4	V	3.0	35.8	1.0	-56.1	-13.0	-43.1	
	1.673	-33.0	H	3.0	37.3	1.0	-69.4	-13.0	-56.4	
	2.510	-22.5	H	3.0	36.4	1.0	-57.9	-13.0	-44.9	
	3.346	-20.7	H	3.0	35.8	1.0	-55.5	-13.0	-42.5	
	High Ch, 846.5MHz									
	1.693	-26.5	V	3.0	37.3	1.0	-62.8	-13.0	-49.8	
	2.540	-20.7	V	3.0	36.3	1.0	-56.1	-13.0	-43.1	
	3.386	-20.7	V	3.0	35.7	1.0	-55.4	-13.0	-42.4	
	1.693	-26.6	H	3.0	37.3	1.0	-62.9	-13.0	-49.9	
	2.540	-22.9	H	3.0	36.3	1.0	-58.2	-13.0	-45.2	
	3.386	-21.2	H	3.0	35.7	1.0	-55.9	-13.0	-42.9	

UL Verification Services, Inc. Chamber C Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I20405								
Date:		04/05/15								
Test Engineer:		Jude Semana								
Configuration:		EUT w/ AC Adapter + HS								
Mode:		LTE5 5M QPSK								
Band	Chamber		Pre-amplifier		Filter		Limit			
	3m Chamber		T34 8449B		Filter 1		Part 22			
LTE5	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamplifier (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
5MHz	Low Ch, 826.5MHz									
QPSK	1.653	-25.8	V	3.0	37.4	1.0	-62.2	-13.0	-49.2	
	2.480	-21.1	V	3.0	36.4	1.0	-56.5	-13.0	-43.5	
	3.306	-20.9	V	3.0	35.8	1.0	-55.7	-13.0	-42.7	
	1.653	-25.9	H	3.0	37.4	1.0	-62.3	-13.0	-49.3	
	2.480	-22.6	H	3.0	36.4	1.0	-58.0	-13.0	-45.0	
	3.306	-20.7	H	3.0	35.8	1.0	-55.5	-13.0	-42.5	
	Mid Ch, 836.5MHz									
	1.673	-25.8	V	3.0	37.3	1.0	-62.1	-13.0	-49.1	
	2.510	-19.8	V	3.0	36.4	1.0	-55.1	-13.0	-42.1	
	3.346	-21.1	V	3.0	35.8	1.0	-55.9	-13.0	-42.9	
	1.673	-26.1	H	3.0	37.3	1.0	-62.5	-13.0	-49.5	
	2.510	-21.9	H	3.0	36.4	1.0	-57.3	-13.0	-44.3	
	3.346	-21.7	H	3.0	35.8	1.0	-56.5	-13.0	-43.5	
	High Ch, 846.5MHz									
	1.693	-26.1	V	3.0	37.3	1.0	-62.4	-13.0	-49.4	
	2.540	-20.4	V	3.0	36.3	1.0	-55.7	-13.0	-42.7	
	3.386	-20.9	V	3.0	35.7	1.0	-55.6	-13.0	-42.6	
	1.693	-26.2	H	3.0	37.3	1.0	-62.5	-13.0	-49.5	
	2.540	-22.6	H	3.0	36.3	1.0	-58.0	-13.0	-45.0	
	3.386	-18.5	H	3.0	35.7	1.0	-53.2	-13.0	-40.2	

UL Verification Services, Inc. Chamber C Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I20405								
Date:		04/05/15								
Test Engineer:		Jude Semana								
Configuration:		EUT w/ AC Adapter + HS								
Mode:		LTE2_3M_16QAM								
Chamber		Pre-amplifier		Filter		Limit				
3m Chamber		T34 8449B		Filter 1		Part 22				
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	(dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	
Low Ch, 825.5MHz										
1.651	-26.2	V	3.0	37.4	1.0	-62.6	-13.0	-49.6		
2.477	-19.9	V	3.0	36.4	1.0	-55.3	-13.0	-42.3		
3.302	-21.7	V	3.0	35.8	1.0	-56.5	-13.0	-43.5		
1.651	-26.4	H	3.0	37.4	1.0	-62.7	-13.0	-49.7		
2.477	-21.4	H	3.0	36.4	1.0	-56.8	-13.0	-43.8		
3.302	-21.1	H	3.0	35.8	1.0	-55.9	-13.0	-42.9		
Mid Ch, 836.5MHz										
1.673	-25.3	V	3.0	37.3	1.0	-61.7	-13.0	-48.7		
2.510	-22.2	V	3.0	36.4	1.0	-57.5	-13.0	-44.5		
3.346	-18.3	V	3.0	35.8	1.0	-53.0	-13.0	-40.0		
1.673	-25.8	H	3.0	37.3	1.0	-62.2	-13.0	-49.2		
2.510	-23.6	H	3.0	36.4	1.0	-59.0	-13.0	-46.0		
3.346	-18.8	H	3.0	35.8	1.0	-53.5	-13.0	-40.5		
High Ch, 847.5 MHz										
1.695	-25.5	V	3.0	37.3	1.0	-61.8	-13.0	-48.8		
2.543	-21.2	V	3.0	36.3	1.0	-56.5	-13.0	-43.5		
3.390	-21.0	V	3.0	35.7	1.0	-55.7	-13.0	-42.7		
1.695	-25.9	H	3.0	37.3	1.0	-62.2	-13.0	-49.2		
2.543	-22.6	H	3.0	36.3	1.0	-58.0	-13.0	-45.0		
3.390	-21.4	H	3.0	35.7	1.0	-56.2	-13.0	-43.2		
Rev. 03.03.09										
Note: No other emissions were detected above the system noise floor.										

UL Verification Services, Inc. Chamber C Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I20405								
Date:		04/05/15								
Test Engineer:		Jude Semana								
Configuration:		EUT w/ AC Adapter + HS								
Mode:		LTE2_3M_QPSK								
Chamber		Pre-amplifier		Filter		Limit				
3m Chamber		T34 8449B		Filter 1		Part 22				
Band	f	SG reading	Ant. Pol.	Distance		Filter	EIRP	Limit	Delta	Notes
LTE5	GHz	(dBm)	(H/V)	(m)	(dB)	(dB)	(dBm)	(dBm)	(dB)	
3MHz	Low Ch, 825.5MHz									
QPSK	1.651	-26.3	V	3.0	37.4	1.0	-62.7	-13.0	-49.7	
	2.477	-20.0	V	3.0	36.4	1.0	-55.4	-13.0	-42.4	
	3.302	-20.6	V	3.0	35.8	1.0	-55.4	-13.0	-42.4	
	1.651	-26.7	H	3.0	37.4	1.0	-63.1	-13.0	-50.1	
	2.477	-22.1	H	3.0	36.4	1.0	-57.5	-13.0	-44.5	
	3.302	-21.5	H	3.0	35.8	1.0	-56.3	-13.0	-43.3	
	Mid Ch, 836.5MHz									
	1.673	-24.9	V	3.0	37.3	1.0	-61.2	-13.0	-48.2	
	2.510	-21.4	V	3.0	36.4	1.0	-56.8	-13.0	-43.8	
	3.346	-18.9	V	3.0	35.8	1.0	-53.7	-13.0	-40.7	
	1.673	-25.8	H	3.0	37.3	1.0	-62.1	-13.0	-49.1	
	2.510	-22.9	H	3.0	36.4	1.0	-58.3	-13.0	-45.3	
	3.346	-19.6	H	3.0	35.8	1.0	-54.3	-13.0	-41.3	
	High Ch, 847.5 MHz									
	1.695	-24.9	V	3.0	37.3	1.0	-61.2	-13.0	-48.2	
	2.543	-20.8	V	3.0	36.3	1.0	-56.1	-13.0	-43.1	
	3.390	-21.2	V	3.0	35.7	1.0	-55.9	-13.0	-42.9	
	1.695	-26.0	H	3.0	37.3	1.0	-62.3	-13.0	-49.3	
	2.543	-21.6	H	3.0	36.3	1.0	-56.9	-13.0	-43.9	
	3.390	-21.3	H	3.0	35.7	1.0	-56.0	-13.0	-43.0	

UL Verification Services, Inc. Chamber C Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I20405								
Date:		04/05/15								
Test Engineer:		Jude Semana								
Configuration:		EUT w/ AC Adapter + HS								
Mode:		LTE5 1.4MHz 16QAM HARM								
		Chamber		Pre-amplifier		Filter		Limit		
		3m Chamber		T34 8449B		Filter 1		Part 22		
Band	f	SG reading	Ant. Pol.	Distance		Filter	EIRP	Limit	Delta	Notes
LTE5	GHz	(dBm)	(H/V)	(m)	(dB)	(dB)	(dBm)	(dBm)	(dB)	
1.4MHz	Low Ch, 824.7MHz									
16QAM	1.649	-26.4	V	3.0	37.4	1.0	-62.8	-13.0	-49.8	
	2.474	-20.7	V	3.0	36.4	1.0	-56.1	-13.0	-43.1	
	3.299	-20.7	V	3.0	35.8	1.0	-55.5	-13.0	-42.5	
	1.649	-27.3	H	3.0	37.4	1.0	-63.6	-13.0	-50.6	
	2.474	-21.9	H	3.0	36.4	1.0	-57.3	-13.0	-44.3	
	3.299	-21.1	H	3.0	35.8	1.0	-55.9	-13.0	-42.9	
	Mid Ch, 836.5MHz									
	1.673	-25.5	V	3.0	37.3	1.0	-61.8	-13.0	-48.8	
	2.510	-22.3	V	3.0	36.4	1.0	-57.6	-13.0	-44.6	
	3.346	-20.1	V	3.0	35.8	1.0	-54.8	-13.0	-41.8	
	1.673	-25.9	H	3.0	37.3	1.0	-62.3	-13.0	-49.3	
	2.510	-23.5	H	3.0	36.4	1.0	-58.8	-13.0	-45.8	
	3.346	-20.9	H	3.0	35.8	1.0	-55.6	-13.0	-42.6	
	High Ch, 848.3 MHz									
	1.697	-25.1	V	3.0	37.3	1.0	-61.4	-13.0	-48.4	
	2.545	-21.1	V	3.0	36.3	1.0	-56.5	-13.0	-43.5	
	3.393	-21.2	V	3.0	35.7	1.0	-55.9	-13.0	-42.9	
	1.697	-24.8	H	3.0	37.3	1.0	-61.1	-13.0	-48.1	
	2.545	-22.6	H	3.0	36.3	1.0	-57.9	-13.0	-44.9	
	3.393	-20.6	H	3.0	35.7	1.0	-55.3	-13.0	-42.3	

UL Verification Services, Inc. Chamber C Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I20405								
Date:		04/05/15								
Test Engineer:		Jude Semana								
Configuration:		EUT w/ AC Adapter + HS								
Mode:		LTE5_1.4M_QPSK								
		Chamber		Pre-amplifier		Filter		Limit		
		3m Chamber		T34 8449B		Filter 1		Part 22		
Band	f	SG reading	Ant. Pol.	Distance		Filter	EIRP	Limit	Delta	Notes
LTE5	GHz	(dBm)	(H/V)	(m)	(dB)	(dB)	(dBm)	(dBm)	(dB)	
1.4MHz	Low Ch, 829MHz									
QPSK	1.649	-26.4	V	3.0	37.4	1.0	-62.7	-13.0	-49.7	
	2.474	-20.6	V	3.0	36.4	1.0	-55.9	-13.0	-42.9	
	3.299	-21.1	V	3.0	35.8	1.0	-55.9	-13.0	-42.9	
	1.649	-27.0	H	3.0	37.4	1.0	-63.4	-13.0	-50.4	
	2.474	-21.6	H	3.0	36.4	1.0	-57.0	-13.0	-44.0	
	3.299	-21.1	H	3.0	35.8	1.0	-55.9	-13.0	-42.9	
	Mid Ch, 836.5MHz									
	1.673	-25.7	V	3.0	37.3	1.0	-62.1	-13.0	-49.1	
	2.510	-22.3	V	3.0	36.4	1.0	-57.7	-13.0	-44.7	
	3.346	-20.2	V	3.0	35.8	1.0	-54.9	-13.0	-41.9	
	1.673	-26.1	H	3.0	37.3	1.0	-62.4	-13.0	-49.4	
	2.510	-23.6	H	3.0	36.4	1.0	-59.0	-13.0	-46.0	
	3.346	-20.9	H	3.0	35.8	1.0	-55.6	-13.0	-42.6	
	High Ch, 844 MHz									
	1.697	-26.0	V	3.0	37.3	1.0	-62.3	-13.0	-49.3	
	2.545	-21.2	V	3.0	36.3	1.0	-56.6	-13.0	-43.6	
	3.393	-21.0	V	3.0	35.7	1.0	-55.7	-13.0	-42.7	
	1.697	-26.0	H	3.0	37.3	1.0	-62.3	-13.0	-49.3	
	2.545	-21.4	H	3.0	36.3	1.0	-56.7	-13.0	-43.7	
	3.393	-21.3	H	3.0	35.7	1.0	-56.0	-13.0	-43.0	

Band LTE4 5MHz 16QAM	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
	Company:		LG								
	Project #:		15I20405								
	Date:		4/6/2015								
	Test Engineer:		Jude Semana								
	Configuration:		EUT + Charger + Headset								
	Location:		Chamber G								
	Mode:		LTE_16QAM Band 4 Harmonics, 5MHz Bandwidth								
	f MHz		SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preampl (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 1712.5										
	3425.00		-15.5	V	3.0	36.1	1.0	-50.6	-13.0	-37.6	
	5137.50		-15.7	V	3.0	35.4	1.0	-50.1	-13.0	-37.1	
	6850.00		-15.6	V	3.0	35.7	1.0	-50.3	-13.0	-37.3	
	3425.00		-12.6	H	3.0	36.1	1.0	-47.7	-13.0	-34.7	
	5137.50		-16.7	H	3.0	35.4	1.0	-51.1	-13.0	-38.1	
	6850.00		-14.7	H	3.0	35.7	1.0	-49.4	-13.0	-36.4	
	Mid Ch, 1732.5										
	3465.00		-14.4	V	3.0	36.0	1.0	-49.4	-13.0	-36.4	
	5197.50		-10.3	V	3.0	35.4	1.0	-44.7	-13.0	-31.7	
	6930.00		-11.3	V	3.0	35.7	1.0	-46.0	-13.0	-33.0	
	3465.00		-7.6	H	3.0	36.0	1.0	-42.7	-13.0	-29.7	
	5197.50		-11.2	H	3.0	35.4	1.0	-45.6	-13.0	-32.6	
	6930.00		-9.1	H	3.0	35.7	1.0	-43.8	-13.0	-30.8	
	High Ch, 1752.5										
	3505.00		-10.6	V	3.0	36.0	1.0	-45.6	-13.0	-32.6	
	5257.50		-10.3	V	3.0	35.4	1.0	-44.8	-13.0	-31.8	
	7010.00		-11.8	V	3.0	35.7	1.0	-46.5	-13.0	-33.5	
	3505.00		-6.9	H	3.0	36.0	1.0	-41.9	-13.0	-28.9	
	5257.50		-11.3	H	3.0	35.4	1.0	-45.8	-13.0	-32.8	
	7010.00		-9.6	H	3.0	35.7	1.0	-44.3	-13.0	-31.3	

GSM

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company: Project #: Date: Test Engineer: Configuration: Mode:		LG Electronics 15I20405 4/2/2015 Jude Semana EUT w/ AC Charger + HS EGPRS 1900								
		Chamber	Pre-amplifier	Filter	Limit					
		3m Chamber	T34 8449B	Filter 1	Part 24					
Band GSM 1900 EGPRS	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									
	3.700	-17.8	V	3.0	35.4	1.0	-52.2	-13.0	-39.2	
	5.551	-5.3	V	3.0	34.7	1.0	-39.1	-13.0	-26.1	
	7.401	-7.0	V	3.0	34.9	1.0	-40.9	-13.0	-27.9	
	3.700	-17.6	H	3.0	35.4	1.0	-52.0	-13.0	-39.0	
	5.551	-13.4	H	3.0	34.7	1.0	-47.2	-13.0	-34.2	
	7.401	-10.1	H	3.0	34.9	1.0	-44.1	-13.0	-31.1	
	Mid Ch, 1880.0MHz									
	3.760	-18.3	V	3.0	35.3	1.0	-52.6	-13.0	-39.6	
	5.640	-9.3	V	3.0	34.7	1.0	-43.0	-13.0	-30.0	
	7.520	-7.3	V	3.0	34.9	1.0	-41.2	-13.0	-28.2	
	3.760	-17.5	H	3.0	35.3	1.0	-51.8	-13.0	-38.8	
	5.640	-4.8	H	3.0	34.7	1.0	-38.5	-13.0	-25.5	
	7.520	-9.7	H	3.0	34.9	1.0	-43.6	-13.0	-30.6	
	High Ch, 1909.8MHz									
	3.820	-15.5	V	3.0	35.3	1.0	-49.8	-13.0	-36.8	
	5.729	-11.0	V	3.0	34.7	1.0	-44.8	-13.0	-31.8	
	7.639	-8.2	V	3.0	35.0	1.0	-42.1	-13.0	-29.1	
	3.820	-16.2	H	3.0	35.3	1.0	-50.5	-13.0	-37.5	
	5.729	-11.8	H	3.0	34.7	1.0	-45.6	-13.0	-32.6	
	7.639	-9.4	H	3.0	35.0	1.0	-43.3	-13.0	-30.3	
Rev. 03.03.09										

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:	LG Electronics									
Project #:	15I20405									
Date:	4/2/2015									
Test Engineer:	Jude Semana									
Configuration:	EUT w/ AC Charger + HS									
Mode:	GPRS1900									
Chamber 3m Chamber Pre-amplifier T34 8449B Filter Filter 1 Limit 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
GSM 1900 GPRS	Low Ch, 1850.2MHz									
	3.700	-17.1	V	3.0	35.4	1.0	-51.5	-13.0	-38.5	
	5.551	-4.9	V	3.0	34.7	1.0	-38.6	-13.0	-25.6	
	7.401	-5.2	V	3.0	34.9	1.0	-39.1	-13.0	-26.1	
	3.700	-17.3	H	3.0	35.4	1.0	-51.7	-13.0	-38.7	
	5.551	-13.2	H	3.0	34.7	1.0	-46.9	-13.0	-33.9	
	7.401	-9.9	H	3.0	34.9	1.0	-43.9	-13.0	-30.9	
	Mid Ch, 1880.0MHz									
	3.760	-14.6	V	3.0	35.3	1.0	-49.0	-13.0	-36.0	
	5.640	-9.4	V	3.0	34.7	1.0	-43.2	-13.0	-30.2	
	7.520	-7.4	V	3.0	34.9	1.0	-41.3	-13.0	-28.3	
	3.760	-17.1	H	3.0	35.3	1.0	-51.4	-13.0	-38.4	
	5.640	-7.5	H	3.0	34.7	1.0	-41.2	-13.0	-28.2	
	7.520	-8.3	H	3.0	34.9	1.0	-42.2	-13.0	-29.2	
	High Ch, 1909.8MHz									
	3.820	-13.6	V	3.0	35.3	1.0	-47.9	-13.0	-34.9	
	5.729	-9.1	V	3.0	34.7	1.0	-42.9	-13.0	-29.9	
	7.639	-7.3	V	3.0	35.0	1.0	-41.3	-13.0	-28.3	
3.820	-15.9	H	3.0	35.3	1.0	-50.2	-13.0	-37.2		
5.729	-11.2	H	3.0	34.7	1.0	-44.9	-13.0	-31.9		
7.639	-8.5	H	3.0	35.0	1.0	-42.5	-13.0	-29.5		

UL Verification Services Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I20405								
Date:		4/2/2015								
Test Engineer:		Jude Semana								
Configuration:		EUT w/ AC Charger + HS								
Mode:		EGPRS 850								
Chamber		Pre-amplifier		Filter		Limit				
3m Chamber		T34 8449B		Filter 1		Part 22				
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
GSM 850 EGPRS	Low Ch, 824.2MHz									
	1.648	-26.1	V	3.0	37.4	1.0	-62.5	-13.0	-49.5	
	2.473	-20.6	V	3.0	36.4	1.0	-56.0	-13.0	-43.0	
	3.297	-20.9	V	3.0	35.8	1.0	-55.7	-13.0	-42.7	
	1.648	-26.3	H	3.0	37.4	1.0	-62.7	-13.0	-49.7	
	2.473	-22.5	H	3.0	36.4	1.0	-57.9	-13.0	-44.9	
	3.297	-21.5	H	3.0	35.8	1.0	-56.3	-13.0	-43.3	
	Mid Ch, 836.6MHz									
	1.673	-25.9	V	3.0	37.3	1.0	-62.2	-13.0	-49.2	
	2.510	-21.1	V	3.0	36.4	1.0	-56.4	-13.0	-43.4	
	3.346	-20.5	V	3.0	35.8	1.0	-55.3	-13.0	-42.3	
	1.673	-25.9	H	3.0	37.3	1.0	-62.2	-13.0	-49.2	
	2.510	-23.0	H	3.0	36.4	1.0	-58.4	-13.0	-45.4	
	3.346	-20.6	H	3.0	35.8	1.0	-55.4	-13.0	-42.4	
	High Ch, 848.8MHz									
	1.698	-25.5	V	3.0	37.3	1.0	-61.8	-13.0	-48.8	
	2.547	-21.9	V	3.0	36.3	1.0	-57.3	-13.0	-44.3	
	3.395	-20.8	V	3.0	35.7	1.0	-55.5	-13.0	-42.5	
1.698	-25.7	H	3.0	37.3	1.0	-62.0	-13.0	-49.0		
2.547	-22.9	H	3.0	36.3	1.0	-58.2	-13.0	-45.2		
3.395	-20.9	H	3.0	35.7	1.0	-55.6	-13.0	-42.6		
Rev. 03.03.09										

UL Verification Services Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I20405								
Date:		4/2/2015								
Test Engineer:		Jude Semana								
Configuration:		EUT w/ AC Charger + HS								
Mode:		GPRS 850								
Chamber		Pre-amplifier		Filter		Limit				
3m Chamber		T34 8449B		Filter 1		Part 22				
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
GSM850 GPRS	Low Ch, 824.2MHz									
	1.648	-26.0	V	3.0	37.4	1.0	-62.3	-13.0	-49.3	
	2.473	-20.7	V	3.0	36.4	1.0	-56.1	-13.0	-43.1	
	3.297	-21.1	V	3.0	35.8	1.0	-55.9	-13.0	-42.9	
	1.648	-25.8	H	3.0	37.4	1.0	-62.2	-13.0	-49.2	
	2.473	-22.3	H	3.0	36.4	1.0	-57.7	-13.0	-44.7	
	3.297	-21.2	H	3.0	35.8	1.0	-56.0	-13.0	-43.0	
	Mid Ch, 836.6MHz									
	1.673	-25.7	V	3.0	37.3	1.0	-62.0	-13.0	-49.0	
	2.510	-20.9	V	3.0	36.4	1.0	-56.2	-13.0	-43.2	
	3.346	-19.9	V	3.0	35.8	1.0	-54.7	-13.0	-41.7	
	1.673	-25.8	H	3.0	37.3	1.0	-62.1	-13.0	-49.1	
	2.510	-22.7	H	3.0	36.4	1.0	-58.1	-13.0	-45.1	
	3.346	-21.1	H	3.0	35.8	1.0	-55.8	-13.0	-42.8	
	High Ch, 848.8MHz									
	1.698	-24.9	V	3.0	37.3	1.0	-61.2	-13.0	-48.2	
	2.547	-22.2	V	3.0	36.3	1.0	-57.6	-13.0	-44.6	
	3.395	-20.1	V	3.0	35.7	1.0	-54.8	-13.0	-41.8	
1.698	-25.4	H	3.0	37.3	1.0	-61.7	-13.0	-48.7		
2.547	-23.3	H	3.0	36.3	1.0	-58.7	-13.0	-45.7		
3.395	-20.3	H	3.0	35.7	1.0	-55.0	-13.0	-42.0		
Rev. 03.03.09										
Note: No other emissions were detected above the system noise floor.										

WCDMA

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I20405								
Date:		4/2/2015								
Test Engineer:		Jude Semana								
Configuration:		X Position, AC Charger + Headset								
Mode:		HSDPA B2								
		Chamber		Pre-amplifier		Filter		Limit		
		3m Chamber		T343 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
Band 2	Low Ch, 1852.4MHz									
HSDPA	3.704	-16.1	V	3.0	35.4	1.0	-50.5	-13.0	-37.5	
	5.557	-10.9	V	3.0	34.7	1.0	-44.6	-13.0	-31.6	
	7.409	-12.3	V	3.0	34.9	1.0	-46.2	-13.0	-33.2	
	3.704	-13.4	H	3.0	35.4	1.0	-47.8	-13.0	-34.8	
	5.557	-13.0	H	3.0	34.7	1.0	-46.7	-13.0	-33.7	
	7.409	-10.5	H	3.0	34.9	1.0	-44.5	-13.0	-31.5	
	Mid Ch, 1880.0MHz									
	3.760	-14.3	V	3.0	35.3	1.0	-48.6	-13.0	-35.6	
	5.640	-11.7	V	3.0	34.7	1.0	-45.4	-13.0	-32.4	
	7.520	-12.1	V	3.0	34.9	1.0	-46.0	-13.0	-33.0	
	3.760	-16.1	H	3.0	35.3	1.0	-50.4	-13.0	-37.4	
	5.640	-11.0	H	3.0	34.7	1.0	-44.7	-13.0	-31.7	
7.520	-11.5	H	3.0	34.9	1.0	-45.5	-13.0	-32.5		
High Ch, 1907.6 MHz										
3.815	-6.5	V	3.0	35.3	1.0	-40.8	-13.0	-27.8		
5.723	-9.3	V	3.0	34.7	1.0	-43.0	-13.0	-30.0		
7.630	-11.6	V	3.0	34.9	1.0	-45.6	-13.0	-32.6		
3.815	-5.1	H	3.0	35.3	1.0	-39.4	-13.0	-26.4		
5.723	-11.7	H	3.0	34.7	1.0	-45.4	-13.0	-32.4		
7.630	-10.1	H	3.0	34.9	1.0	-44.0	-13.0	-31.0		
Rev. 03.03.09										

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I20405								
Date:		4/2/2015								
Test Engineer:		Jude Semana								
Configuration:		X Position, AC Charger + Headset								
Mode:		REL99 B2								
		Chamber		Pre-amplifier		Filter		Limit		
		3m Chamber		T343 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
Band 2	Low Ch, 1852.4MHz									
REL99	3.704	-13.1	V	3.0	35.4	1.0	-47.5	-13.0	-34.5	
	5.557	-10.7	V	3.0	34.7	1.0	-44.4	-13.0	-31.4	
	7.409	-11.5	V	3.0	34.9	1.0	-45.4	-13.0	-32.4	
	3.704	-13.3	H	3.0	35.4	1.0	-47.7	-13.0	-34.7	
	5.557	-11.2	H	3.0	34.7	1.0	-44.9	-13.0	-31.9	
	7.409	-10.8	H	3.0	34.9	1.0	-44.7	-13.0	-31.7	
	Mid Ch, 1880.0MHz									
	3.760	-12.6	V	3.0	35.3	1.0	-46.9	-13.0	-33.9	
	5.640	-11.7	V	3.0	34.7	1.0	-45.4	-13.0	-32.4	
	7.520	-12.8	V	3.0	34.9	1.0	-46.8	-13.0	-33.8	
	3.760	-12.8	H	3.0	35.3	1.0	-47.2	-13.0	-34.2	
	5.640	-12.3	H	3.0	34.7	1.0	-46.0	-13.0	-33.0	
	7.520	-10.9	H	3.0	34.9	1.0	-44.9	-13.0	-31.9	
	High Ch, 1907.6 MHz									
	3.815	-3.7	V	3.0	35.3	1.0	-38.0	-13.0	-25.0	
	5.723	-10.0	V	3.0	34.7	1.0	-43.8	-13.0	-30.8	
	7.630	-12.1	V	3.0	34.9	1.0	-46.0	-13.0	-33.0	
	3.815	-5.3	H	3.0	35.3	1.0	-39.6	-13.0	-26.6	
	5.723	-12.5	H	3.0	34.7	1.0	-46.2	-13.0	-33.2	
	7.630	-10.8	H	3.0	34.9	1.0	-44.8	-13.0	-31.8	
Rev. 03.03.09										
Note: No other emissions were detected above the system noise floor.										

CDMA

[illegible]

UL Verification Services Chamber B Above 1GHz High Frequency Substitution Measurement										
Company:	LG									
Project #:	15I20405									
Date:	04/11/15									
Test Engineer:	Charles Vergonio									
Configuration:	EUT w/ AC Adapter + HS									
Mode:	RTT BC1 HARM									
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
BC1 1xRTT	Low Ch, 1851.25 MHz									
	3.703	-7.1	H	3.0	35.4	1.0	-41.5	-13.0	-28.5	
	5.554	-6.2	H	3.0	34.7	1.0	-39.9	-13.0	-26.9	
	7.405	-12.6	H	3.0	34.9	1.0	-46.5	-13.0	-33.5	
	3.703	-9.6	V	3.0	35.4	1.0	-44.0	-13.0	-31.0	
	5.554	-4.9	V	3.0	34.7	1.0	-38.6	-13.0	-25.6	
	7.405	-13.4	V	3.0	34.9	1.0	-47.3	-13.0	-34.3	
	Mid Ch, 1880 MHz									
	3.760	-5.1	H	3.0	35.3	1.0	-39.5	-13.0	-26.5	
	5.640	-3.4	H	3.0	34.7	1.0	-37.1	-13.0	-24.1	
	7.520	-11.6	H	3.0	34.9	1.0	-45.5	-13.0	-32.5	
	3.760	-9.3	V	3.0	35.3	1.0	-43.6	-13.0	-30.6	
	5.640	-3.1	V	3.0	34.7	1.0	-36.8	-13.0	-23.8	
	7.520	-13.0	V	3.0	34.9	1.0	-47.0	-13.0	-34.0	
	High Ch, 1908.75 MHz									
	3.818	-1.0	H	3.0	35.3	1.0	-35.3	-13.0	-22.3	
	5.726	-2.0	H	3.0	34.7	1.0	-35.8	-13.0	-22.8	
	7.635	-11.1	H	3.0	34.9	1.0	-45.1	-13.0	-32.1	
	3.818	-2.0	V	3.0	35.3	1.0	-36.3	-13.0	-23.3	
	5.726	-14.1	V	3.0	34.7	1.0	-47.8	-13.0	-34.8	
7.635	-13.2	V	3.0	34.9	1.0	-47.1	-13.0	-34.1		
Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.										

UL Verification Services Chamber B Above 1GHz High Frequency Substitution Measurement									
Company:	LG								
Project #:	15I20405								
Date:	04/11/15								
Test Engineer:	Charles Vergonio								
Configuration:	EUT w/ AC Adapter + HS								
Mode:	EVDO BC0								
Chamber Pre-amplifier Filter Limit 5m Chamber B T34 8449B Filter 1 Part 22									
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 824.7MHz									
1.649	-27.2	H	3.0	37.4	1.0	-63.5	-13.0	-50.5	
2.474	-24.3	H	3.0	36.4	1.0	-59.7	-13.0	-46.7	
3.299	-21.5	H	3.0	35.8	1.0	-56.3	-13.0	-43.3	
1.649	-25.6	V	3.0	37.4	1.0	-61.9	-13.0	-48.9	
2.474	-18.9	V	3.0	36.4	1.0	-54.3	-13.0	-41.3	
3.299	-20.5	V	3.0	35.8	1.0	-55.3	-13.0	-42.3	
Mid Ch, 836.52MHz									
1.673	-25.2	H	3.0	37.3	1.0	-61.6	-13.0	-48.6	
2.510	-24.7	H	3.0	36.4	1.0	-60.1	-13.0	-47.1	
3.346	-21.3	H	3.0	35.8	1.0	-56.1	-13.0	-43.1	
1.673	-25.3	V	3.0	37.3	1.0	-61.7	-13.0	-48.7	
2.510	-18.7	V	3.0	36.4	1.0	-54.1	-13.0	-41.1	
3.346	-20.2	V	3.0	35.8	1.0	-55.0	-13.0	-42.0	
High Ch, 848.31MHz									
1.697	-22.7	H	3.0	37.3	1.0	-59.0	-13.0	-46.0	
2.545	-24.5	H	3.0	36.3	1.0	-59.8	-13.0	-46.8	
3.393	-20.5	H	3.0	35.7	1.0	-55.2	-13.0	-42.2	
1.697	-17.4	V	3.0	37.3	1.0	-53.7	-13.0	-40.7	
2.545	-19.7	V	3.0	36.3	1.0	-55.0	-13.0	-42.0	
3.393	-20.9	V	3.0	35.7	1.0	-55.7	-13.0	-42.7	
Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.									

UL Verification Services Chamber B Above 1GHz High Frequency Substitution Measurement										
Company:	LG									
Project #:	15I20405									
Date:	04/11/15									
Test Engineer:	Charles Vergonio									
Configuration:	EUT w/ AC Adapter + HS									
Mode:	RTT BC0									
Chamber Pre-amplifier Filter Limit 5m Chamber B T34 8449B Filter 1 Part 22										
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
BC0 1xRTT	Low Ch, 824.7MHz									
	1.649	-27.6	H	3.0	37.4	1.0	-64.0	-13.0	-51.0	
	2.474	-24.5	H	3.0	36.4	1.0	-59.9	-13.0	-46.9	
	3.299	-21.2	H	3.0	35.8	1.0	-56.0	-13.0	-43.0	
	1.649	-26.7	V	3.0	37.4	1.0	-63.0	-13.0	-50.0	
	2.474	-18.5	V	3.0	36.4	1.0	-53.9	-13.0	-40.9	
	3.299	-20.2	V	3.0	35.8	1.0	-55.0	-13.0	-42.0	
	Mid Ch, 836.52MHz									
	1.673	-26.0	H	3.0	37.3	1.0	-62.3	-13.0	-49.3	
	2.510	-23.8	H	3.0	36.4	1.0	-59.2	-13.0	-46.2	
	3.346	-20.7	H	3.0	35.8	1.0	-55.4	-13.0	-42.4	
	1.673	-26.0	V	3.0	37.3	1.0	-62.4	-13.0	-49.4	
	2.510	-18.5	V	3.0	36.4	1.0	-53.9	-13.0	-40.9	
	3.346	-20.3	V	3.0	35.8	1.0	-55.1	-13.0	-42.1	
	High Ch, 848.31MHz									
	1.697	-23.4	H	3.0	37.3	1.0	-59.7	-13.0	-46.7	
	2.545	-24.4	H	3.0	36.3	1.0	-59.8	-13.0	-46.8	
	3.393	-20.3	H	3.0	35.7	1.0	-55.0	-13.0	-42.0	
	1.697	-21.0	V	3.0	37.3	1.0	-57.3	-13.0	-44.3	
	2.545	-18.9	V	3.0	36.3	1.0	-54.3	-13.0	-41.3	
3.393	-20.4	V	3.0	35.7	1.0	-55.1	-13.0	-42.1		
Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.										