

Band LTE41 5MHz 16QAM	High Frequency Substitution Measurement UL Verification Services, Inc.																																																																																																	
	Company:		LG Electronics																																																																																															
	Project #:		15I21523																																																																																															
	Date:		8/24/2015																																																																																															
	Test Engineer:		R.Alegre																																																																																															
	Configuration:		EUT only																																																																																															
	Location:		Chamber B																																																																																															
	Mode:		LTE_16QAM Band 41 Fundamentals, 5MHz Bandwidth																																																																																															
	Test Equipment:		Receiving: Horn T345, and Chamber B SMA Cables Substitution: Horn T59, Xft SMA Cable (SN # 506392) Warehouse																																																																																															
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Band LTE41 5MHz QPSK	High Frequency Substitution Measurement UL Verification Services, Inc.																																																																																																	
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12.2. FIELD STRENGTH OF SPURIOUS RADIATION

RULE PART(S)

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

LIMIT

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

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

TEST PROCEDURE

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

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

MODES TESTED

GSM, WCDMA, CDMA, and LTE

RESULTS

12.2.1. SPURIOUS RADIATION PLOTS

GSM

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

UL Verification Services, Inc.										
Above 1GHz High Frequency Substitution Measurement										
Company:		LG								
Project #:		15I21523								
Date:		8/22/2015								
Test Engineer:		Jude Semana								
Configuration:		X-pos EUT w/ AC Adapter + Headset								
Location:		Chamber A								
Mode:		EGPRS 1900 MHz Harmonics								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band	Low Ch, 1850.2									
GSM1900	3700.40	-17.1	V	3.0	35.9	1.0	-52.0	-13.0	-39.0	
	5550.60	-12.3	V	3.0	35.5	1.0	-46.8	-13.0	-33.8	
	7400.80	-11.8	V	3.0	35.7	1.0	-46.6	-13.0	-33.6	
GPRS	3700.40	-18.3	H	3.0	35.9	1.0	-53.2	-13.0	-40.2	
	5550.60	-11.6	H	3.0	35.5	1.0	-46.0	-13.0	-33.0	
	7400.80	-11.0	H	3.0	35.7	1.0	-45.7	-13.0	-32.7	
	Mid Ch, 1880									
	3760.00	-17.1	V	3.0	35.8	1.0	-51.9	-13.0	-38.9	
	5640.00	-11.8	V	3.0	35.5	1.0	-46.3	-13.0	-33.3	
	7520.00	-11.6	V	3.0	35.7	1.0	-46.3	-13.0	-33.3	
	3760.00	-17.2	H	3.0	35.8	1.0	-52.0	-13.0	-39.0	
	5640.00	-12.1	H	3.0	35.5	1.0	-46.6	-13.0	-33.6	
	7520.00	-10.8	H	3.0	35.7	1.0	-45.5	-13.0	-32.5	
	High Ch, 1909.8									
	3819.60	-17.2	V	3.0	35.8	1.0	-52.0	-13.0	-39.0	
	5729.40	-11.8	V	3.0	35.5	1.0	-46.3	-13.0	-33.3	
	7639.20	-11.8	V	3.0	35.8	1.0	-46.5	-13.0	-33.5	
	3819.60	-17.8	H	3.0	35.8	1.0	-52.6	-13.0	-39.6	
	5729.40	-11.4	H	3.0	35.5	1.0	-45.9	-13.0	-32.9	
	7639.20	-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								
Project #:		15I21523								
Date:		8/22/2015								
Test Engineer:		Jude Semana								
Configuration:		X-pos EUT w/ AC Adapter + Headset								
Location:		Chamber A								
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
Band	Low Ch, 824.2									
	1648.40	-16.9	V	3.0	37.0	1.0	-52.9	-13.0	-39.9	
	2472.60	-8.3	V	3.0	36.4	1.0	-43.7	-13.0	-30.7	
GSM	3296.80	-14.9	V	3.0	36.2	1.0	-50.0	-13.0	-37.0	
	1648.40	-18.3	H	3.0	37.0	1.0	-54.3	-13.0	-41.3	
	2472.60	-19.2	H	3.0	36.4	1.0	-54.6	-13.0	-41.6	
850	3296.80	-22.4	H	3.0	36.2	1.0	-57.5	-13.0	-44.5	
	Mid Ch, 836.6									
	1673.20	-20.1	V	3.0	37.0	1.0	-56.1	-13.0	-43.1	
EGPRS	2509.80	-18.3	V	3.0	36.4	1.0	-53.7	-13.0	-40.7	
	3346.40	-13.9	V	3.0	36.1	1.0	-49.0	-13.0	-36.0	
	1673.20	-19.5	H	3.0	37.0	1.0	-55.4	-13.0	-42.4	
	2509.80	-20.8	H	3.0	36.4	1.0	-56.2	-13.0	-43.2	
	3346.40	-14.5	H	3.0	36.1	1.0	-49.6	-13.0	-36.6	
	High Ch, 848.8									
	1697.60	-27.9	V	3.0	37.0	1.0	-63.9	-13.0	-50.9	
	2546.40	-24.9	V	3.0	36.4	1.0	-60.3	-13.0	-47.3	
	3395.20	-22.1	V	3.0	36.1	1.0	-57.1	-13.0	-44.1	
	1697.60	-28.5	H	3.0	37.0	1.0	-64.4	-13.0	-51.4	
	2546.40	-23.9	H	3.0	36.4	1.0	-59.3	-13.0	-46.3	
	3395.20	-21.5	H	3.0	36.1	1.0	-56.5	-13.0	-43.5	

UL Verification Services, Inc.									
Above 1GHz High Frequency Substitution Measurement									
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Project #:		15I21523							
Date:		8/22/2015							
Test Engineer:		Jude Semana							
Configuration:		X-pos EUT w/ AC Adapter + Headset							
Location:		Chamber A							
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	-16.8	V	3.0	37.0	1.0	-52.8	-13.0	-39.8
	2472.60	-8.1	V	3.0	36.4	1.0	-43.5	-13.0	-30.5
	3296.80	-14.4	V	3.0	36.2	1.0	-49.6	-13.0	-36.6
GSM	1648.40	-18.3	H	3.0	37.0	1.0	-54.3	-13.0	-41.3
	2472.60	-18.4	H	3.0	36.4	1.0	-53.9	-13.0	-40.9
	3296.80	-23.1	H	3.0	36.2	1.0	-58.3	-13.0	-45.3
850	Mid Ch, 836.6								
	1673.20	-20.3	V	3.0	37.0	1.0	-56.3	-13.0	-43.3
	2509.80	-17.8	V	3.0	36.4	1.0	-53.2	-13.0	-40.2
GPRS	3346.40	-13.8	V	3.0	36.1	1.0	-48.9	-13.0	-35.9
	1673.20	-19.6	H	3.0	37.0	1.0	-55.6	-13.0	-42.6
	2509.80	-19.4	H	3.0	36.4	1.0	-54.8	-13.0	-41.8
	3346.40	-14.0	H	3.0	36.1	1.0	-49.2	-13.0	-36.2
	High Ch, 848.8								
	1697.60	-27.1	V	3.0	37.0	1.0	-63.0	-13.0	-50.0
	2546.40	-24.4	V	3.0	36.4	1.0	-59.8	-13.0	-46.8
	3395.20	-22.1	V	3.0	36.1	1.0	-57.2	-13.0	-44.2
	1697.60	-28.0	H	3.0	37.0	1.0	-63.9	-13.0	-50.9
	2546.40	-25.0	H	3.0	36.4	1.0	-60.4	-13.0	-47.4
	3395.20	-22.3	H	3.0	36.1	1.0	-57.4	-13.0	-44.4

WCDMA

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG								
Project #:		15I21523								
Date:		8/22/2015								
Test Engineer:		Jude Semana								
Configuration:		X-pos EUT w/ AC Adapter + Headset								
Location:		Chamber A								
Mode:		HSDPA Band 2 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, 1852.4									
Band	3704.80	-14.5	V	3.0	35.9	1.0	-49.4	-13.0	-36.4	
	5557.20	-14.9	V	3.0	35.5	1.0	-49.3	-13.0	-36.3	
Band 2	7409.60	-11.5	V	3.0	35.7	1.0	-46.2	-13.0	-33.2	
	3704.80	-15.3	H	3.0	35.9	1.0	-50.2	-13.0	-37.2	
HSDPA	5557.20	-14.4	H	3.0	35.5	1.0	-48.9	-13.0	-35.9	
	7409.60	-9.9	H	3.0	35.7	1.0	-44.6	-13.0	-31.6	
	Mid Ch, 1880									
	3760.00	-15.0	V	3.0	35.8	1.0	-49.8	-13.0	-36.8	
	5640.00	-14.9	V	3.0	35.5	1.0	-49.4	-13.0	-36.4	
	7520.00	-11.3	V	3.0	35.7	1.0	-46.0	-13.0	-33.0	
	3760.00	-15.2	H	3.0	35.8	1.0	-50.0	-13.0	-37.0	
	5640.00	-15.2	H	3.0	35.5	1.0	-49.7	-13.0	-36.7	
	7520.00	-10.6	H	3.0	35.7	1.0	-45.4	-13.0	-32.4	
	High Ch, 1907.6									
	3815.20	-14.7	V	3.0	35.8	1.0	-49.4	-13.0	-36.4	
	5722.80	-16.4	V	3.0	35.5	1.0	-50.9	-13.0	-37.9	
	7630.40	-11.6	V	3.0	35.8	1.0	-46.4	-13.0	-33.4	
	3815.20	-14.4	H	3.0	35.8	1.0	-49.2	-13.0	-36.2	
	5722.80	-14.7	H	3.0	35.5	1.0	-49.2	-13.0	-36.2	
	7630.40	-9.7	H	3.0	35.8	1.0	-44.5	-13.0	-31.5	

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

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

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

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

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

CDMA

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

Company: LG Electronics
Project #: 15I21523
Date: 8/26/2015
Test Engineer: R.Alegre
Configuration: EUT w/ AC Adapter + HS
Mode: EVDO BC1

Chamber
3m Chamber

Pre-amplifer
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
Low Ch, 1851.25 MHz									
3.703	-13.6	H	3.0	35.4	1.0	-48.0	-13.0	-35.0	
5.554	-12.9	H	3.0	34.7	1.0	-46.7	-13.0	-33.7	
7.405	-12.4	H	3.0	34.9	1.0	-46.3	-13.0	-33.3	
3.703	-11.1	V	3.0	35.4	1.0	-45.5	-13.0	-32.5	
5.554	-16.2	V	3.0	34.7	1.0	-50.0	-13.0	-37.0	
7.405	-13.3	V	3.0	34.9	1.0	-47.2	-13.0	-34.2	
Mid Ch, 1880 MHz									
3.760	-11.6	H	3.0	35.3	1.0	-46.0	-13.0	-33.0	
5.640	-16.6	H	3.0	34.7	1.0	-50.3	-13.0	-37.3	
7.520	-12.6	H	3.0	34.9	1.0	-46.5	-13.0	-33.5	
3.760	-15.7	V	3.0	35.3	1.0	-50.1	-13.0	-37.1	
5.640	-14.2	V	3.0	34.7	1.0	-47.9	-13.0	-34.9	
7.520	-13.2	V	3.0	34.9	1.0	-47.2	-13.0	-34.2	
High Ch, 1908.75 MHz									
3.818	-19.5	H	3.0	35.3	1.0	-53.8	-13.0	-40.8	
5.726	-14.1	H	3.0	34.7	1.0	-47.9	-13.0	-34.9	
7.635	-11.9	H	3.0	34.9	1.0	-45.9	-13.0	-32.9	
3.818	-15.5	V	3.0	35.3	1.0	-49.7	-13.0	-36.7	
5.726	-15.8	V	3.0	34.7	1.0	-49.5	-13.0	-36.5	
7.635	-13.0	V	3.0	34.9	1.0	-47.0	-13.0	-34.0	

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

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

UL Verification Services Chamber C Above 1GHz High Frequency Substitution Measurement									
Company:		LG							
Project #:		15I21523							
Date:		8/26/2015							
Test Engineer:		A. Escamilla							
Configuration:		EUT w/ AC Adapter + HS							
Mode:		EVDO BC0							
Chamber		Pre-amplifier			Filter		Limit		
3m Chamber		T34 8449B			Filter 1		Part 22		
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 824.7MHz									
1.649	-27.5	H	3.0	37.4	1.0	-63.9	-13.0	-50.9	
2.474	-24.5	H	3.0	36.4	1.0	-59.9	-13.0	-46.9	
3.299	-21.7	H	3.0	35.8	1.0	-56.5	-13.0	-43.5	
1.649	-27.7	V	3.0	37.4	1.0	-64.1	-13.0	-51.1	
2.474	-23.2	V	3.0	36.4	1.0	-58.6	-13.0	-45.6	
3.299	-21.3	V	3.0	35.8	1.0	-56.1	-13.0	-43.1	
Mid Ch, 836.52MHz									
1.673	-26.4	H	3.0	37.3	1.0	-62.8	-13.0	-49.8	
2.510	-24.0	H	3.0	36.4	1.0	-59.4	-13.0	-46.4	
3.346	-21.3	H	3.0	35.8	1.0	-56.1	-13.0	-43.1	
1.673	-27.1	V	3.0	37.3	1.0	-63.4	-13.0	-50.4	
2.510	-22.6	V	3.0	36.4	1.0	-58.0	-13.0	-45.0	
3.346	-21.4	V	3.0	35.8	1.0	-56.1	-13.0	-43.1	
High Ch, 848.31MHz									
1.697	-27.0	H	3.0	37.3	1.0	-63.3	-13.0	-50.3	
2.545	-24.1	H	3.0	36.3	1.0	-59.4	-13.0	-46.4	
3.393	-21.5	H	3.0	35.7	1.0	-56.2	-13.0	-43.2	
1.697	-27.0	V	3.0	37.3	1.0	-63.3	-13.0	-50.3	
2.545	-23.0	V	3.0	36.3	1.0	-58.3	-13.0	-45.3	
3.393	-21.5	V	3.0	35.7	1.0	-56.2	-13.0	-43.2	
Rev. 03.03.09									
Note: No other emissions were detected above the system noise floor.									

Band
BC0

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

UL Verification Services Chamber C Above 1GHz High Frequency Substitution Measurement									
Company:		LG							
Project #:		15I21523							
Date:		8/26/2015							
Test Engineer:		A. Escamilla							
Configuration:		EUT w/ AC Adapter + HS							
Mode:		EVDO BC10							
Chamber		Pre-amplifier			Filter		Limit		
3m Chamber		T34 8449B			Filter 1		Part 22		
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 817.9MHz									
1.636	-27.6	H	3.0	37.4	1.0	-64.0	-13.0	-51.0	
2.454	-24.8	H	3.0	36.4	1.0	-60.2	-13.0	-47.2	
3.272	-21.6	H	3.0	35.8	1.0	-56.4	-13.0	-43.4	
1.636	-27.6	V	3.0	37.4	1.0	-64.0	-13.0	-51.0	
2.454	-23.2	V	3.0	36.4	1.0	-58.6	-13.0	-45.6	
3.272	-21.6	V	3.0	35.8	1.0	-56.4	-13.0	-43.4	
Mid Ch, 820.50MHz									
1.641	-27.8	H	3.0	37.4	1.0	-64.2	-13.0	-51.2	
2.462	-24.2	H	3.0	36.4	1.0	-59.6	-13.0	-46.6	
3.282	-21.5	H	3.0	35.8	1.0	-56.3	-13.0	-43.3	
1.641	-27.5	V	3.0	37.4	1.0	-63.9	-13.0	-50.9	
2.462	-23.0	V	3.0	36.4	1.0	-58.4	-13.0	-45.4	
3.282	-21.3	V	3.0	35.8	1.0	-56.1	-13.0	-43.1	
High Ch, 823.10MHz									
1.646	-27.4	H	3.0	37.4	1.0	-63.8	-13.0	-50.8	
2.469	-24.5	H	3.0	36.4	1.0	-59.9	-13.0	-46.9	
3.292	-21.3	H	3.0	35.8	1.0	-56.2	-13.0	-43.2	
1.646	-27.5	V	3.0	37.4	1.0	-63.8	-13.0	-50.8	
2.469	-22.7	V	3.0	36.4	1.0	-58.1	-13.0	-45.1	
3.292	-21.4	V	3.0	35.8	1.0	-56.3	-13.0	-43.3	
Rev. 03.03.09									
Note: No other emissions were detected above the system noise floor.									

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

LTE Band 2

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I21523							
Date:		8/21/2015							
Test Engineer:		A. Escamilla							
Configuration:		EUT, AC Adapter, Headset							
Location:		Chamber C							
Mode:		LTE_16QAM Band 2 Harmonics, 20MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1860									
Band	3720.00	-17.8	V	3.0	35.8	1.0	-52.6	-13.0	-39.6
	5580.00	-16.7	V	3.0	35.5	1.0	-51.2	-13.0	-38.2
LTE2	7440.00	-13.2	V	3.0	35.7	1.0	-47.9	-13.0	-34.9
	3720.00	-17.7	H	3.0	35.8	1.0	-52.6	-13.0	-39.6
20MHz	5580.00	-16.0	H	3.0	35.5	1.0	-50.5	-13.0	-37.5
	7440.00	-11.6	H	3.0	35.7	1.0	-46.3	-13.0	-33.3
Mid Ch, 1880									
16QAM	3760.00	-15.1	V	3.0	35.8	1.0	-49.9	-13.0	-36.9
	5640.00	-15.3	V	3.0	35.5	1.0	-49.8	-13.0	-36.8
	7520.00	-13.2	V	3.0	35.7	1.0	-47.9	-13.0	-34.9
	3760.00	-17.0	H	3.0	35.8	1.0	-51.8	-13.0	-38.8
	5640.00	-15.4	H	3.0	35.5	1.0	-49.9	-13.0	-36.9
	7520.00	-12.1	H	3.0	35.7	1.0	-46.8	-13.0	-33.8
High Ch, 1900									
	3800.00	-13.4	V	3.0	35.8	1.0	-48.2	-13.0	-35.2
	5700.00	-15.8	V	3.0	35.5	1.0	-50.3	-13.0	-37.3
	7600.00	-12.3	V	3.0	35.8	1.0	-47.0	-13.0	-34.0
	3800.00	-13.4	H	3.0	35.8	1.0	-48.2	-13.0	-35.2
	5700.00	-15.1	H	3.0	35.5	1.0	-49.6	-13.0	-36.6
	7600.00	-11.8	H	3.0	35.8	1.0	-46.6	-13.0	-33.6

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I21523								
Date:		8/21/2015								
Test Engineer:		A. Escamilla								
Configuration:		EUT, AC Adapter, Headset								
Location:		Chamber C								
Mode:		LTE_QPSK Band 2 Harmonics, 20MHz Bandwidth								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band	Low Ch, 1860									
	3720.00	-16.7	V	3.0	35.8	1.0	-51.5	-13.0	-38.5	
	5580.00	-16.5	V	3.0	35.5	1.0	-50.9	-13.0	-37.9	
LTE2	7440.00	-12.8	V	3.0	35.7	1.0	-47.6	-13.0	-34.6	
	3720.00	-17.6	H	3.0	35.8	1.0	-52.5	-13.0	-39.5	
	5580.00	-15.5	H	3.0	35.5	1.0	-50.0	-13.0	-37.0	
20MHz	7440.00	-12.4	H	3.0	35.7	1.0	-47.1	-13.0	-34.1	
	Mid Ch, 1880									
	3760.00	-15.0	V	3.0	35.8	1.0	-49.8	-13.0	-36.8	
QPSK	5640.00	-15.2	V	3.0	35.5	1.0	-49.7	-13.0	-36.7	
	7520.00	-13.1	V	3.0	35.7	1.0	-47.8	-13.0	-34.8	
	3760.00	-17.0	H	3.0	35.8	1.0	-51.8	-13.0	-38.8	
	5640.00	-16.0	H	3.0	35.5	1.0	-50.5	-13.0	-37.5	
	7520.00	-12.1	H	3.0	35.7	1.0	-46.8	-13.0	-33.8	
	High Ch, 1900									
	3800.00	-13.9	V	3.0	35.8	1.0	-48.7	-13.0	-35.7	
	5700.00	-15.4	V	3.0	35.5	1.0	-49.9	-13.0	-36.9	
	7600.00	-12.7	V	3.0	35.8	1.0	-47.4	-13.0	-34.4	
	3800.00	-13.4	H	3.0	35.8	1.0	-48.1	-13.0	-35.1	
	5700.00	-15.4	H	3.0	35.5	1.0	-49.9	-13.0	-36.9	
	7600.00	-12.2	H	3.0	35.8	1.0	-46.9	-13.0	-33.9	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I21523							
Date:		8/21/2015							
Test Engineer:		A. Escamilla							
Configuration:		EUT, AC Adapter, Headset							
Location:		Chamber C							
Mode:		LTE_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	-17.4	V	3.0	35.8	1.0	-52.2	-13.0	-39.2
	5572.50	-15.5	V	3.0	35.5	1.0	-49.9	-13.0	-36.9
LTE2	7430.00	-13.3	V	3.0	35.7	1.0	-48.0	-13.0	-35.0
	3715.00	-18.0	H	3.0	35.8	1.0	-52.9	-13.0	-39.9
	5572.50	-15.6	H	3.0	35.5	1.0	-50.1	-13.0	-37.1
15MHz	7430.00	-11.8	H	3.0	35.7	1.0	-46.6	-13.0	-33.6
Mid Ch, 1880									
16QAM	3760.00	-16.2	V	3.0	35.8	1.0	-51.0	-13.0	-38.0
	5640.00	-15.3	V	3.0	35.5	1.0	-49.8	-13.0	-36.8
	7520.00	-12.9	V	3.0	35.7	1.0	-47.7	-13.0	-34.7
	3760.00	-16.5	H	3.0	35.8	1.0	-51.3	-13.0	-38.3
	5640.00	-15.8	H	3.0	35.5	1.0	-50.3	-13.0	-37.3
	7520.00	-10.9	H	3.0	35.7	1.0	-45.7	-13.0	-32.7
High Ch, 1902.5									
	3805.00	-12.8	V	3.0	35.8	1.0	-47.6	-13.0	-34.6
	5707.50	-14.6	V	3.0	35.5	1.0	-49.1	-13.0	-36.1
	7610.00	-13.2	V	3.0	35.8	1.0	-48.0	-13.0	-35.0
	3805.00	-13.7	H	3.0	35.8	1.0	-48.5	-13.0	-35.5
	5707.50	-14.7	H	3.0	35.5	1.0	-49.2	-13.0	-36.2
	7610.00	-11.7	H	3.0	35.8	1.0	-46.5	-13.0	-33.5

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I21523								
Date:		8/21/2015								
Test Engineer:		A. Escamilla								
Configuration:		EUT, AC Adapter, Headset								
Location:		Chamber C								
Mode:		LTE_QPSK Band 2 Harmonics, 15MHz Bandwidth								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band	Low Ch, 1857.5									
	3715.00	-15.5	V	3.0	35.8	1.0	-50.3	-13.0	-37.3	
	5572.50	-15.6	V	3.0	35.5	1.0	-50.1	-13.0	-37.1	
	7430.00	-13.2	V	3.0	35.7	1.0	-47.9	-13.0	-34.9	
	3715.00	-17.7	H	3.0	35.8	1.0	-52.6	-13.0	-39.6	
	5572.50	-15.0	H	3.0	35.5	1.0	-49.5	-13.0	-36.5	
LTE2	7430.00	-12.3	H	3.0	35.7	1.0	-47.0	-13.0	-34.0	
	Mid Ch, 1880									
15MHz	3760.00	-14.6	V	3.0	35.8	1.0	-49.4	-13.0	-36.4	
	5640.00	-15.3	V	3.0	35.5	1.0	-49.7	-13.0	-36.7	
	7520.00	-12.7	V	3.0	35.7	1.0	-47.5	-13.0	-34.5	
	3760.00	-16.1	H	3.0	35.8	1.0	-50.9	-13.0	-37.9	
	5640.00	-14.5	H	3.0	35.5	1.0	-49.0	-13.0	-36.0	
	7520.00	-12.4	H	3.0	35.7	1.0	-47.2	-13.0	-34.2	
QPSK	High Ch, 1902.5									
	3805.00	-14.4	V	3.0	35.8	1.0	-49.2	-13.0	-36.2	
	5707.50	-15.6	V	3.0	35.5	1.0	-50.1	-13.0	-37.1	
	7610.00	-12.0	V	3.0	35.8	1.0	-46.8	-13.0	-33.8	
	3805.00	-13.1	H	3.0	35.8	1.0	-47.9	-13.0	-34.9	
	5707.50	-14.8	H	3.0	35.5	1.0	-49.2	-13.0	-36.2	
	7610.00	-12.0	H	3.0	35.8	1.0	-46.8	-13.0	-33.8	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I21523							
Date:		8/21/2015							
Test Engineer:		A. Escamilla							
Configuration:		EUT, AC Adapter, Headset							
Location:		Chamber C							
Mode:		LTE_16QAM Band 2 Harmonics, 10MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1855									
3710.00	-16.7	V	3.0	35.9	1.0	-51.6	-13.0	-38.6	
5565.00	-15.5	V	3.0	35.5	1.0	-50.0	-13.0	-37.0	
LTE2									
7420.00	-13.2	V	3.0	35.7	1.0	-47.9	-13.0	-34.9	
3710.00	-18.1	H	3.0	35.9	1.0	-52.9	-13.0	-39.9	
5565.00	-16.0	H	3.0	35.5	1.0	-50.4	-13.0	-37.4	
10MHz									
7420.00	-11.9	H	3.0	35.7	1.0	-46.6	-13.0	-33.6	
Mid Ch, 1880									
3760.00	-16.1	V	3.0	35.8	1.0	-50.9	-13.0	-37.9	
5640.00	-15.0	V	3.0	35.5	1.0	-49.4	-13.0	-36.4	
7520.00	-12.9	V	3.0	35.7	1.0	-47.7	-13.0	-34.7	
3760.00	-16.3	H	3.0	35.8	1.0	-51.1	-13.0	-38.1	
5640.00	-15.9	H	3.0	35.5	1.0	-50.3	-13.0	-37.3	
7520.00	-11.1	H	3.0	35.7	1.0	-45.8	-13.0	-32.8	
High Ch, 1905									
3810.00	-13.2	V	3.0	35.8	1.0	-48.0	-13.0	-35.0	
5715.00	-14.7	V	3.0	35.5	1.0	-49.2	-13.0	-36.2	
7620.00	-13.1	V	3.0	35.8	1.0	-47.9	-13.0	-34.9	
3810.00	-13.3	H	3.0	35.8	1.0	-48.1	-13.0	-35.1	
5715.00	-14.9	H	3.0	35.5	1.0	-49.4	-13.0	-36.4	
7620.00	-11.8	H	3.0	35.8	1.0	-46.6	-13.0	-33.6	

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

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

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

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

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

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

UL Verification Services, Inc.										
Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I21523								
Date:		8/21/2015								
Test Engineer:		A. Escamilla								
Configuration:		EUT, AC Adapter, Headset								
Location:		Chamber C								
Mode:		LTE_QPSK Band 2 Harmonics, 1.4MHz Bandwidth								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band	Low Ch, 1850.7									
	3701.40	-16.3	V	3.0	35.9	1.0	-51.1	-13.0	-38.1	
	5552.10	-16.4	V	3.0	35.5	1.0	-50.9	-13.0	-37.9	
	7402.80	-13.2	V	3.0	35.7	1.0	-48.0	-13.0	-35.0	
	3701.40	-16.5	H	3.0	35.9	1.0	-51.3	-13.0	-38.3	
	5552.10	-15.6	H	3.0	35.5	1.0	-50.1	-13.0	-37.1	
LTE2	7402.80	-12.7	H	3.0	35.7	1.0	-47.4	-13.0	-34.4	
	Mid Ch, 1880									
	3760.00	-17.2	V	3.0	35.8	1.0	-52.0	-13.0	-39.0	
	5640.00	-16.5	V	3.0	35.5	1.0	-51.0	-13.0	-38.0	
	7520.00	-13.0	V	3.0	35.7	1.0	-47.8	-13.0	-34.8	
	3760.00	-17.9	H	3.0	35.8	1.0	-52.7	-13.0	-39.7	
1.4MHz	5640.00	-15.3	H	3.0	35.5	1.0	-49.8	-13.0	-36.8	
	7520.00	-12.0	H	3.0	35.7	1.0	-46.7	-13.0	-33.7	
	High Ch, 1909.3									
	3818.60	-10.3	V	3.0	35.8	1.0	-45.1	-13.0	-32.1	
	5727.90	-14.0	V	3.0	35.5	1.0	-48.5	-13.0	-35.5	
	7637.20	-12.7	V	3.0	35.8	1.0	-47.4	-13.0	-34.4	
QPSK	3818.60	-11.3	H	3.0	35.8	1.0	-46.1	-13.0	-33.1	
	5727.90	-15.3	H	3.0	35.5	1.0	-49.8	-13.0	-36.8	
	7637.20	-11.4	H	3.0	35.8	1.0	-46.2	-13.0	-33.2	

LTE Band 4

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I21523							
Date:		8/21/2015							
Test Engineer:		A. Escamilla							
Configuration:		EUT, AC Adapter, Headset							
Location:		Chamber C							
Mode:		LTE_16QAM Band 4 Harmonics, 20MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1720									
Band	3440.00	-19.1	V	3.0	36.0	1.0	-54.2	-13.0	-41.2
	5160.00	-16.9	V	3.0	35.4	1.0	-51.4	-13.0	-38.4
LTE4	6880.00	-13.8	V	3.0	35.7	1.0	-48.4	-13.0	-35.4
	3440.00	-18.3	H	3.0	36.0	1.0	-53.3	-13.0	-40.3
20MHz	5160.00	-16.5	H	3.0	35.4	1.0	-51.0	-13.0	-38.0
	6880.00	-12.9	H	3.0	35.7	1.0	-47.6	-13.0	-34.6
Mid Ch, 1732.5									
16QAM	3465.00	-17.7	V	3.0	36.0	1.0	-52.7	-13.0	-39.7
	5197.50	-16.7	V	3.0	35.4	1.0	-51.2	-13.0	-38.2
	6930.00	-14.2	V	3.0	35.7	1.0	-48.9	-13.0	-35.9
	3465.00	-19.3	H	3.0	36.0	1.0	-54.3	-13.0	-41.3
	5197.50	-16.7	H	3.0	35.4	1.0	-51.1	-13.0	-38.1
	6930.00	-13.4	H	3.0	35.7	1.0	-48.1	-13.0	-35.1
High Ch, 1745									
	3490.00	-17.8	V	3.0	36.0	1.0	-52.8	-13.0	-39.8
	5235.00	-16.5	V	3.0	35.4	1.0	-50.9	-13.0	-37.9
	6980.00	-13.9	V	3.0	35.7	1.0	-48.6	-13.0	-35.6
	3490.00	-19.7	H	3.0	36.0	1.0	-54.8	-13.0	-41.8
	5235.00	-16.3	H	3.0	35.4	1.0	-50.7	-13.0	-37.7
	6980.00	-13.2	H	3.0	35.7	1.0	-47.9	-13.0	-34.9

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

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

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

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I21523							
Date:		8/21/2015							
Test Engineer:		A. Escamilla							
Configuration:		EUT, AC Adapter, Headset							
Location:		Chamber C							
Mode:		LTE_16QAM Band 4 Harmonics, 10MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1715									
Band	3430.00	-20.2	V	3.0	36.1	1.0	-55.3	-13.0	-42.3
	5145.00	-17.1	V	3.0	35.4	1.0	-51.5	-13.0	-38.5
LTE4	6860.00	-14.5	V	3.0	35.7	1.0	-49.2	-13.0	-36.2
	3430.00	-20.5	H	3.0	36.1	1.0	-55.6	-13.0	-42.6
	5145.00	-16.7	H	3.0	35.4	1.0	-51.2	-13.0	-38.2
10MHz	6860.00	-13.6	H	3.0	35.7	1.0	-48.3	-13.0	-35.3
Mid Ch, 1732.5									
16QAM	3465.00	-19.7	V	3.0	36.0	1.0	-54.7	-13.0	-41.7
	5197.50	-16.5	V	3.0	35.4	1.0	-50.9	-13.0	-37.9
	6930.00	-14.2	V	3.0	35.7	1.0	-48.9	-13.0	-35.9
	3465.00	-20.8	H	3.0	36.0	1.0	-55.9	-13.0	-42.9
	5197.50	-16.1	H	3.0	35.4	1.0	-50.6	-13.0	-37.6
	6930.00	-12.8	H	3.0	35.7	1.0	-47.5	-13.0	-34.5
High Ch, 1750									
	3500.00	-18.1	V	3.0	36.0	1.0	-53.2	-13.0	-40.2
	5250.00	-16.5	V	3.0	35.4	1.0	-51.0	-13.0	-38.0
	7000.00	-14.3	V	3.0	35.7	1.0	-48.9	-13.0	-35.9
	3500.00	-18.7	H	3.0	36.0	1.0	-53.7	-13.0	-40.7
	5250.00	-16.0	H	3.0	35.4	1.0	-50.4	-13.0	-37.4
	7000.00	-13.0	H	3.0	35.7	1.0	-47.7	-13.0	-34.7

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

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

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

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

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

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

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I21523							
Date:		8/21/2015							
Test Engineer:		A. Escamilla							
Configuration:		EUT, AC Adapter, Headset							
Location:		Chamber C							
Mode:		LTE_QPSK Band 4 Harmonics, 1.4MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band									
Low Ch, 1710.7									
3421.40	-20.7	V	3.0	36.1	1.0	-55.8	-13.0	-42.8	
5132.10	-16.6	V	3.0	35.4	1.0	-51.1	-13.0	-38.1	
LTE4									
6842.80	-13.9	V	3.0	35.7	1.0	-48.5	-13.0	-35.5	
3421.40	-21.4	H	3.0	36.1	1.0	-56.4	-13.0	-43.4	
5132.10	-16.2	H	3.0	35.4	1.0	-50.6	-13.0	-37.6	
1.4MHz									
6842.80	-12.9	H	3.0	35.7	1.0	-47.5	-13.0	-34.5	
QPSK									
Mid Ch, 1732.5									
3465.00	-19.5	V	3.0	36.0	1.0	-54.6	-13.0	-41.6	
5197.50	-17.0	V	3.0	35.4	1.0	-51.4	-13.0	-38.4	
6930.00	-13.8	V	3.0	35.7	1.0	-48.5	-13.0	-35.5	
3465.00	-20.2	H	3.0	36.0	1.0	-55.3	-13.0	-42.3	
5197.50	-16.8	H	3.0	35.4	1.0	-51.2	-13.0	-38.2	
6930.00	-13.5	H	3.0	35.7	1.0	-48.2	-13.0	-35.2	
High Ch, 1754.3									
3508.60	-19.8	V	3.0	36.0	1.0	-54.8	-13.0	-41.8	
5262.90	-16.3	V	3.0	35.4	1.0	-50.7	-13.0	-37.7	
7017.20	-14.1	V	3.0	35.7	1.0	-48.8	-13.0	-35.8	
3508.60	-19.9	H	3.0	36.0	1.0	-54.9	-13.0	-41.9	
5262.90	-16.1	H	3.0	35.4	1.0	-50.5	-13.0	-37.5	
7017.20	-12.3	H	3.0	35.7	1.0	-47.0	-13.0	-34.0	

LTE Band 5

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

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

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

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

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

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

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

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I21523								
Date:		8/22/2015								
Test Engineer:		A. Escamilla								
Configuration:		EUT, AC Adapter, Headset								
Location:		Chamber C								
Mode:		LTE_QPSK Band 5 Harmonics, 3MHz Bandwidth								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 825.5									
Band	1651.00	-26.7	V	3.0	37.0	1.0	-62.8	-13.0	-49.8	
	2476.50	-22.9	V	3.0	36.4	1.0	-58.4	-13.0	-45.4	
LTE5	3302.00	-20.8	V	3.0	36.2	1.0	-55.9	-13.0	-42.9	
	1651.00	-28.0	H	3.0	37.0	1.0	-64.1	-13.0	-51.1	
	2476.50	-24.6	H	3.0	36.4	1.0	-60.0	-13.0	-47.0	
3MHz	3302.00	-21.1	H	3.0	36.2	1.0	-56.3	-13.0	-43.3	
	Mid Ch, 836.5									
QPSK	1673.00	-26.4	V	3.0	37.0	1.0	-62.4	-13.0	-49.4	
	2509.50	-23.0	V	3.0	36.4	1.0	-58.5	-13.0	-45.5	
	3346.00	-20.5	V	3.0	36.1	1.0	-55.6	-13.0	-42.6	
	1673.00	-28.0	H	3.0	37.0	1.0	-64.0	-13.0	-51.0	
	2509.50	-24.8	H	3.0	36.4	1.0	-60.2	-13.0	-47.2	
	3346.00	-20.8	H	3.0	36.1	1.0	-55.9	-13.0	-42.9	
	High Ch, 847.5									
	1695.00	-26.8	V	3.0	37.0	1.0	-62.8	-13.0	-49.8	
	2542.50	-22.9	V	3.0	36.4	1.0	-58.3	-13.0	-45.3	
	3390.00	-20.9	V	3.0	36.1	1.0	-56.0	-13.0	-43.0	
	1695.00	-27.5	H	3.0	37.0	1.0	-63.5	-13.0	-50.5	
	2542.50	-24.3	H	3.0	36.4	1.0	-59.7	-13.0	-46.7	
	3390.00	-21.0	H	3.0	36.1	1.0	-56.1	-13.0	-43.1	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I21523							
Date:		8/22/2015							
Test Engineer:		A. Escamilla							
Configuration:		EUT, AC Adapter, Headset							
Location:		Chamber C							
Mode:		LTE_16QAM Band 5 Harmonics, 1.4MHz Bandwidth							
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	-27.3	V	3.0	37.0	1.0	-63.3	-13.0	-50.3	
2474.10	-23.3	V	3.0	36.4	1.0	-58.8	-13.0	-45.8	
LTE5									
3298.80	-21.2	V	3.0	36.2	1.0	-56.4	-13.0	-43.4	
1649.40	-28.0	H	3.0	37.0	1.0	-64.0	-13.0	-51.0	
2474.10	-25.2	H	3.0	36.4	1.0	-60.7	-13.0	-47.7	
1.4MHz									
3298.80	-21.5	H	3.0	36.2	1.0	-56.7	-13.0	-43.7	
Mid Ch, 836.5									
1673.00	-26.1	V	3.0	37.0	1.0	-62.1	-13.0	-49.1	
16QAM									
2509.50	-23.3	V	3.0	36.4	1.0	-58.7	-13.0	-45.7	
3346.00	-20.6	V	3.0	36.1	1.0	-55.7	-13.0	-42.7	
1673.00	-28.0	H	3.0	37.0	1.0	-64.0	-13.0	-51.0	
2509.50	-24.7	H	3.0	36.4	1.0	-60.1	-13.0	-47.1	
3346.00	-20.9	H	3.0	36.1	1.0	-56.0	-13.0	-43.0	
High Ch, 848.3									
1696.60	-26.3	V	3.0	37.0	1.0	-62.3	-13.0	-49.3	
2544.90	-23.4	V	3.0	36.4	1.0	-58.8	-13.0	-45.8	
3393.20	-20.6	V	3.0	36.1	1.0	-55.7	-13.0	-42.7	
1696.60	-27.8	H	3.0	37.0	1.0	-63.7	-13.0	-50.7	
2544.90	-25.0	H	3.0	36.4	1.0	-60.4	-13.0	-47.4	
3393.20	-20.9	H	3.0	36.1	1.0	-55.9	-13.0	-42.9	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I21523							
Date:		8/22/2015							
Test Engineer:		A. Escamilla							
Configuration:		EUT, AC Adapter, Headset							
Location:		Chamber C							
Mode:		LTE_QPSK Band 5 Harmonics, 1.4MHz Bandwidth							
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									
Band	1649.40	-26.9	V	3.0	37.0	1.0	-62.9	-13.0	-49.9
	2474.10	-23.0	V	3.0	36.4	1.0	-58.4	-13.0	-45.4
LTE5	3298.80	-21.0	V	3.0	36.2	1.0	-56.1	-13.0	-43.1
	1649.40	-28.2	H	3.0	37.0	1.0	-64.2	-13.0	-51.2
	2474.10	-25.1	H	3.0	36.4	1.0	-60.5	-13.0	-47.5
1.4MHz	3298.80	-21.0	H	3.0	36.2	1.0	-56.2	-13.0	-43.2
Mid Ch, 836.5									
QPSK	1673.00	-26.4	V	3.0	37.0	1.0	-62.4	-13.0	-49.4
	2509.50	-22.9	V	3.0	36.4	1.0	-58.3	-13.0	-45.3
	3346.00	-21.3	V	3.0	36.1	1.0	-56.4	-13.0	-43.4
	1673.00	-27.4	H	3.0	37.0	1.0	-63.4	-13.0	-50.4
	2509.50	-24.2	H	3.0	36.4	1.0	-59.6	-13.0	-46.6
	3346.00	-20.6	H	3.0	36.1	1.0	-55.8	-13.0	-42.8
High Ch, 848.3									
	1696.60	-27.1	V	3.0	37.0	1.0	-63.1	-13.0	-50.1
	2544.90	-22.8	V	3.0	36.4	1.0	-58.2	-13.0	-45.2
	3393.20	-20.9	V	3.0	36.1	1.0	-56.0	-13.0	-43.0
	1696.60	-27.9	H	3.0	37.0	1.0	-63.9	-13.0	-50.9
	2544.90	-24.4	H	3.0	36.4	1.0	-59.8	-13.0	-46.8
	3393.20	-21.1	H	3.0	36.1	1.0	-56.2	-13.0	-43.2

LTE Band 7

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I21523							
Date:		8/21/2015							
Test Engineer:		R.Z							
Configuration:		EUT, AC Adapter, Headset							
Location:		Chamber A							
Mode:		LTE_16QAM Band 7 Harmonics, 20MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 2510									
5020.00	-15.1	V	3.0	35.5	1.0	-49.5	-25.0	-24.5	
7530.00	-14.2	V	3.0	35.7	1.0	-48.9	-25.0	-23.9	
10040.00	-11.2	V	3.0	36.0	1.0	-46.2	-25.0	-21.2	
20MHz									
5020.00	-15.2	H	3.0	35.5	1.0	-49.7	-25.0	-24.7	
7530.00	-13.6	H	3.0	35.7	1.0	-48.4	-25.0	-23.4	
10040.00	-10.6	H	3.0	36.0	1.0	-45.6	-25.0	-20.6	
16QAM									
Mid Ch, 2535									
5070.00	-15.7	V	3.0	35.4	1.0	-50.1	-25.0	-25.1	
7605.00	-13.9	V	3.0	35.8	1.0	-48.7	-25.0	-23.7	
10140.00	-11.1	V	3.0	36.0	1.0	-46.0	-25.0	-21.0	
5070.00	-15.5	H	3.0	35.4	1.0	-49.9	-25.0	-24.9	
7605.00	-12.9	H	3.0	35.8	1.0	-47.7	-25.0	-22.7	
10140.00	-10.1	H	3.0	36.0	1.0	-45.0	-25.0	-20.0	
High Ch, 2560									
5120.00	-15.6	V	3.0	35.4	1.0	-50.1	-25.0	-25.1	
7680.00	-13.9	V	3.0	35.8	1.0	-48.7	-25.0	-23.7	
10240.00	-11.0	V	3.0	35.9	1.0	-45.9	-25.0	-20.9	
5120.00	-15.2	H	3.0	35.4	1.0	-49.7	-25.0	-24.7	
7680.00	-13.0	H	3.0	35.8	1.0	-47.7	-25.0	-22.7	
10240.00	-10.7	H	3.0	35.9	1.0	-45.6	-25.0	-20.6	

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

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

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

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement											
Company:		LG Electronics									
Project #:		15I21523									
Date:		8/21/2015									
Test Engineer:		R.Z									
Configuration:		EUT, AC Adapter, Headset									
Location:		Chamber A									
Mode:		LTE_16QAM Band 7 Harmonics, 10MHz Bandwidth									
Band	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	
16QAM	Low Ch, 2505										
	LTE7	5010.00	-15.5	V	3.0	35.5	1.0	-50.0	-25.0	-25.0	
		7515.00	-14.8	V	3.0	35.7	1.0	-49.6	-25.0	-24.6	
		10020.00	-10.8	V	3.0	36.0	1.0	-45.8	-25.0	-20.8	
		5010.00	-15.2	H	3.0	35.5	1.0	-49.7	-25.0	-24.7	
		7515.00	-13.2	H	3.0	35.7	1.0	-47.9	-25.0	-22.9	
		10020.00	-9.8	H	3.0	36.0	1.0	-44.8	-25.0	-19.8	
		Mid Ch, 2535									
		5070.00	-14.6	V	3.0	35.4	1.0	-49.0	-25.0	-24.0	
		7605.00	-13.6	V	3.0	35.8	1.0	-48.4	-25.0	-23.4	
		10140.00	-10.4	V	3.0	36.0	1.0	-45.4	-25.0	-20.4	
		5070.00	-15.3	H	3.0	35.4	1.0	-49.8	-25.0	-24.8	
	7605.00	-13.1	H	3.0	35.8	1.0	-47.9	-25.0	-22.9		
	10140.00	-9.5	H	3.0	36.0	1.0	-44.5	-25.0	-19.5		
	High Ch, 2565										
	5130.00	-15.4	V	3.0	35.4	1.0	-49.8	-25.0	-24.8		
	7695.00	-14.0	V	3.0	35.8	1.0	-48.8	-25.0	-23.8		
	10260.00	-10.5	V	3.0	35.9	1.0	-45.4	-25.0	-20.4		
	5130.00	-15.1	H	3.0	35.4	1.0	-49.5	-25.0	-24.5		
	7695.00	-13.0	H	3.0	35.8	1.0	-47.8	-25.0	-22.8		
	10260.00	-10.0	H	3.0	35.9	1.0	-44.9	-25.0	-19.9		

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

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I21523								
Date:		8/21/2015								
Test Engineer:		R.Z								
Configuration:		EUT, AC Adapter, Headset								
Location:		Chamber A								
Mode:		LTE_16QAM Band 7 Harmonics, 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, 2502.5									
LTE7	5005.00	-15.4	V	3.0	35.5	1.0	-49.9	-25.0	-24.9	
	7507.50	-14.0	V	3.0	35.7	1.0	-48.8	-25.0	-23.8	
	10010.00	-9.2	V	3.0	36.0	1.0	-44.2	-25.0	-19.2	
5MHz	5005.00	-14.0	H	3.0	35.5	1.0	-48.5	-25.0	-23.5	
	7507.50	-13.2	H	3.0	35.7	1.0	-47.9	-25.0	-22.9	
	10010.00	-8.6	H	3.0	36.0	1.0	-43.6	-25.0	-18.6	
16QAM	Mid Ch, 2535									
	5070.00	-14.8	V	3.0	35.4	1.0	-49.2	-25.0	-24.2	
	7605.00	-13.4	V	3.0	35.8	1.0	-48.2	-25.0	-23.2	
	10140.00	-9.7	V	3.0	36.0	1.0	-44.6	-25.0	-19.6	
	5070.00	-14.1	H	3.0	35.4	1.0	-48.6	-25.0	-23.6	
	7605.00	-12.0	H	3.0	35.8	1.0	-46.8	-25.0	-21.8	
	10140.00	-11.4	H	3.0	36.0	1.0	-46.4	-25.0	-21.4	
	High Ch, 2567.5									
	5135.00	-16.8	V	3.0	35.4	1.0	-51.2	-25.0	-26.2	
	7702.50	-14.4	V	3.0	35.8	1.0	-49.2	-25.0	-24.2	
	10270.00	-6.4	V	3.0	35.9	1.0	-41.3	-25.0	-16.3	
	5135.00	-14.9	H	3.0	35.4	1.0	-49.4	-25.0	-24.4	
	7702.50	-12.1	H	3.0	35.8	1.0	-46.9	-25.0	-21.9	
	10270.00	-7.0	H	3.0	35.9	1.0	-41.9	-25.0	-16.9	

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

LTE Band 12

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement											
		Company:	LG Electronics								
		Project #:	15I21523								
		Date:	8/22/2015								
		Test Engineer:	A. Escamilla								
		Configuration:	EUT, AC Adapter, Headset								
		Location:	Chamber C								
		Mode:	LTE_16QAM Band 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	-30.4	V	3.0	37.4	1.0	-66.8	-13.0	-53.8		
	2112.00	-23.9	V	3.0	36.6	1.0	-59.5	-13.0	-46.5		
10MHz	2816.00	-22.4	V	3.0	36.4	1.0	-57.8	-13.0	-44.8		
	1408.00	-29.7	H	3.0	37.4	1.0	-66.1	-13.0	-53.1		
16QAM	2112.00	-24.8	H	3.0	36.6	1.0	-60.4	-13.0	-47.4		
	2816.00	-23.6	H	3.0	36.4	1.0	-59.0	-13.0	-46.0		
	Mid Ch,707.5										
	1415.00	-30.7	V	3.0	37.3	1.0	-67.1	-13.0	-54.1		
	2122.50	-23.3	V	3.0	36.6	1.0	-58.8	-13.0	-45.8		
	2830.00	-22.5	V	3.0	36.4	1.0	-57.9	-13.0	-44.9		
	1415.00	-29.5	H	3.0	37.3	1.0	-65.9	-13.0	-52.9		
	2122.50	-24.3	H	3.0	36.6	1.0	-59.9	-13.0	-46.9		
	2830.00	-23.1	H	3.0	36.4	1.0	-58.4	-13.0	-45.4		
	High Ch,711										
	1422.00	-30.7	V	3.0	37.3	1.0	-67.0	-13.0	-54.0		
	2133.00	-22.9	V	3.0	36.6	1.0	-58.5	-13.0	-45.5		
	2844.00	-22.0	V	3.0	36.4	1.0	-57.4	-13.0	-44.4		
	1422.00	-29.7	H	3.0	37.3	1.0	-66.0	-13.0	-53.0		
	2133.00	-24.3	H	3.0	36.6	1.0	-59.8	-13.0	-46.8		
	2844.00	-22.9	H	3.0	36.4	1.0	-58.3	-13.0	-45.3		

UL Verification Services, Inc.										
Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I21523								
Date:		8/22/2015								
Test Engineer:		A. Escamilla								
Configuration:		EUT, AC Adapter, Headset								
Location:		Chamber C								
Mode:		LTE_QPSK Band 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	-30.3	V	3.0	37.4	1.0	-66.7	-13.0	-53.7	
	2112.00	-23.8	V	3.0	36.6	1.0	-59.4	-13.0	-46.4	
10MHz	2816.00	-22.2	V	3.0	36.4	1.0	-57.6	-13.0	-44.6	
	1408.00	-29.5	H	3.0	37.4	1.0	-65.8	-13.0	-52.8	
QPSK	2112.00	-24.4	H	3.0	36.6	1.0	-60.0	-13.0	-47.0	
	2816.00	-22.9	H	3.0	36.4	1.0	-58.2	-13.0	-45.2	
Mid Ch,707.5										
	1415.00	-30.7	V	3.0	37.3	1.0	-67.0	-13.0	-54.0	
	2122.50	-23.5	V	3.0	36.6	1.0	-59.1	-13.0	-46.1	
	2830.00	-22.3	V	3.0	36.4	1.0	-57.7	-13.0	-44.7	
	1415.00	-29.6	H	3.0	37.3	1.0	-66.0	-13.0	-53.0	
	2122.50	-24.4	H	3.0	36.6	1.0	-60.0	-13.0	-47.0	
	2830.00	-23.2	H	3.0	36.4	1.0	-58.6	-13.0	-45.6	
High Ch,711										
	1422.00	-29.9	V	3.0	37.3	1.0	-66.3	-13.0	-53.3	
	2133.00	-22.7	V	3.0	36.6	1.0	-58.2	-13.0	-45.2	
	2844.00	-21.5	V	3.0	36.4	1.0	-56.8	-13.0	-43.8	
	1422.00	-29.1	H	3.0	37.3	1.0	-65.4	-13.0	-52.4	
	2133.00	-24.4	H	3.0	36.6	1.0	-59.9	-13.0	-46.9	
	2844.00	-22.9	H	3.0	36.4	1.0	-58.2	-13.0	-45.2	

UL Verification Services, Inc.										
Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I21523								
Date:		8/22/2015								
Test Engineer:		A. Escamilla								
Configuration:		EUT, AC Adapter, Headset								
Location:		Chamber C								
Mode:		LTE_16QAM Band 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	-30.9	V	3.0	37.4	1.0	-67.3	-13.0	-54.3	
	2104.50	-23.7	V	3.0	36.6	1.0	-59.3	-13.0	-46.3	
5MHz	2806.00	-22.6	V	3.0	36.4	1.0	-57.9	-13.0	-44.9	
	1403.00	-29.6	H	3.0	37.4	1.0	-65.9	-13.0	-52.9	
16QAM	2104.50	-24.8	H	3.0	36.6	1.0	-60.3	-13.0	-47.3	
	2806.00	-23.5	H	3.0	36.4	1.0	-58.9	-13.0	-45.9	
	Mid Ch, 707.50									
	1415.00	-30.8	V	3.0	37.3	1.0	-67.1	-13.0	-54.1	
	2122.50	-23.6	V	3.0	36.6	1.0	-59.2	-13.0	-46.2	
	2830.00	-22.3	V	3.0	36.4	1.0	-57.7	-13.0	-44.7	
	1415.00	-29.8	H	3.0	37.3	1.0	-66.1	-13.0	-53.1	
	2122.50	-24.5	H	3.0	36.6	1.0	-60.1	-13.0	-47.1	
	2830.00	-23.2	H	3.0	36.4	1.0	-58.6	-13.0	-45.6	
	High Ch, 713.50									
	1427.00	-30.5	V	3.0	37.3	1.0	-66.9	-13.0	-53.9	
	2140.50	-23.7	V	3.0	36.6	1.0	-59.2	-13.0	-46.2	
	2854.00	-22.1	V	3.0	36.4	1.0	-57.5	-13.0	-44.5	
	1427.00	-29.6	H	3.0	37.3	1.0	-65.9	-13.0	-52.9	
	2140.50	-24.8	H	3.0	36.6	1.0	-60.4	-13.0	-47.4	
	2854.00	-23.4	H	3.0	36.4	1.0	-58.8	-13.0	-45.8	

UL Verification Services, Inc.										
Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I21523								
Date:		8/22/2015								
Test Engineer:		A. Escamilla								
Configuration:		EUT, AC Adapter, Headset								
Location:		Chamber C								
Mode:		LTE_QPSK Band 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	-30.8	V	3.0	37.4	1.0	-67.1	-13.0	-54.1	
	2104.50	-23.4	V	3.0	36.6	1.0	-59.0	-13.0	-46.0	
5MHz	2806.00	-22.3	V	3.0	36.4	1.0	-57.7	-13.0	-44.7	
	1403.00	-29.8	H	3.0	37.4	1.0	-66.1	-13.0	-53.1	
QPSK	2104.50	-24.6	H	3.0	36.6	1.0	-60.2	-13.0	-47.2	
	2806.00	-23.5	H	3.0	36.4	1.0	-58.9	-13.0	-45.9	
Mid Ch, 707.50										
	1415.00	-30.4	V	3.0	37.3	1.0	-66.8	-13.0	-53.8	
	2122.50	-22.9	V	3.0	36.6	1.0	-58.4	-13.0	-45.4	
	2830.00	-22.1	V	3.0	36.4	1.0	-57.5	-13.0	-44.5	
	1415.00	-29.7	H	3.0	37.3	1.0	-66.0	-13.0	-53.0	
	2122.50	-24.7	H	3.0	36.6	1.0	-60.3	-13.0	-47.3	
	2830.00	-23.0	H	3.0	36.4	1.0	-58.4	-13.0	-45.4	
High Ch, 713.50										
	1427.00	-30.4	V	3.0	37.3	1.0	-66.7	-13.0	-53.7	
	2140.50	-23.4	V	3.0	36.6	1.0	-59.0	-13.0	-46.0	
	2854.00	-22.3	V	3.0	36.4	1.0	-57.7	-13.0	-44.7	
	1427.00	-29.4	H	3.0	37.3	1.0	-65.8	-13.0	-52.8	
	2140.50	-24.5	H	3.0	36.6	1.0	-60.0	-13.0	-47.0	
	2854.00	-23.3	H	3.0	36.4	1.0	-58.7	-13.0	-45.7	

UL Verification Services, Inc.										
Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I21523								
Date:		8/22/2015								
Test Engineer:		A. Escamilla								
Configuration:		EUT, AC Adapter, Headset								
Location:		Chamber C								
Mode:		LTE_16QAM Band 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	-30.9	V	3.0	37.4	1.0	-67.2	-13.0	-54.2	
	2101.50	-23.6	V	3.0	36.6	1.0	-59.2	-13.0	-46.2	
3MHz	2802.00	-22.7	V	3.0	36.4	1.0	-58.0	-13.0	-45.0	
	1401.00	-29.6	H	3.0	37.4	1.0	-66.0	-13.0	-53.0	
16QAM	2101.50	-24.9	H	3.0	36.6	1.0	-60.5	-13.0	-47.5	
	2802.00	-23.4	H	3.0	36.4	1.0	-58.7	-13.0	-45.7	
	Mid Ch, 707.50									
	1415.00	-30.6	V	3.0	37.3	1.0	-67.0	-13.0	-54.0	
	2122.00	-23.6	V	3.0	36.6	1.0	-59.2	-13.0	-46.2	
	2830.00	-22.1	V	3.0	36.4	1.0	-57.5	-13.0	-44.5	
	1415.00	-29.7	H	3.0	37.3	1.0	-66.0	-13.0	-53.0	
	2122.00	-24.6	H	3.0	36.6	1.0	-60.2	-13.0	-47.2	
	2830.00	-23.1	H	3.0	36.4	1.0	-58.4	-13.0	-45.4	
	High Ch, 714.5									
	1429.00	-30.6	V	3.0	37.3	1.0	-67.0	-13.0	-54.0	
	2143.50	-23.7	V	3.0	36.6	1.0	-59.3	-13.0	-46.3	
	2858.00	-22.3	V	3.0	36.4	1.0	-57.7	-13.0	-44.7	
	1429.00	-29.7	H	3.0	37.3	1.0	-66.0	-13.0	-53.0	
	2143.50	-25.1	H	3.0	36.6	1.0	-60.7	-13.0	-47.7	
	2858.00	-23.3	H	3.0	36.4	1.0	-58.7	-13.0	-45.7	

UL Verification Services, Inc.										
Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I21523								
Date:		8/22/2015								
Test Engineer:		A. Escamilla								
Configuration:		EUT, AC Adapter, Headset								
Location:		Chamber C								
Mode:		LTE_QPSK Band 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	-30.3	V	3.0	37.4	1.0	-66.7	-13.0	-53.7	
	2101.50	-23.2	V	3.0	36.6	1.0	-58.8	-13.0	-45.8	
3MHz	2802.00	-22.5	V	3.0	36.4	1.0	-57.9	-13.0	-44.9	
	1401.00	-29.0	H	3.0	37.4	1.0	-65.4	-13.0	-52.4	
QPSK	2101.50	-24.7	H	3.0	36.6	1.0	-60.2	-13.0	-47.2	
	2802.00	-23.3	H	3.0	36.4	1.0	-58.7	-13.0	-45.7	
	Mid Ch, 707.50									
	1415.00	-30.6	V	3.0	37.3	1.0	-67.0	-13.0	-54.0	
	2122.00	-23.3	V	3.0	36.6	1.0	-58.8	-13.0	-45.8	
	2830.00	-21.9	V	3.0	36.4	1.0	-57.3	-13.0	-44.3	
	1415.00	-29.7	H	3.0	37.3	1.0	-66.0	-13.0	-53.0	
	2122.00	-24.4	H	3.0	36.6	1.0	-59.9	-13.0	-46.9	
	2830.00	-22.9	H	3.0	36.4	1.0	-58.2	-13.0	-45.2	
	High Ch, 714.5									
	1429.00	-30.6	V	3.0	37.3	1.0	-66.9	-13.0	-53.9	
	2143.50	-23.3	V	3.0	36.6	1.0	-58.9	-13.0	-45.9	
	2858.00	-22.3	V	3.0	36.4	1.0	-57.6	-13.0	-44.6	
	1429.00	-29.4	H	3.0	37.3	1.0	-65.8	-13.0	-52.8	
	2143.50	-24.8	H	3.0	36.6	1.0	-60.3	-13.0	-47.3	
	2858.00	-23.4	H	3.0	36.4	1.0	-58.8	-13.0	-45.8	

UL Verification Services, Inc.										
Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I21523								
Date:		8/22/2015								
Test Engineer:		A. Escamilla								
Configuration:		EUT, AC Adapter, Headset								
Location:		Chamber C								
Mode:		LTE_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
	Low Ch, 699.7									
LTE12	1399.40	-30.5	V	3.0	37.4	1.0	-66.8	-13.0	-53.8	
	2099.10	-23.7	V	3.0	36.6	1.0	-59.2	-13.0	-46.2	
1.4MHz	2798.80	-22.6	V	3.0	36.4	1.0	-58.0	-13.0	-45.0	
	1399.40	-29.6	H	3.0	37.4	1.0	-66.0	-13.0	-53.0	
16QAM	2099.10	-24.9	H	3.0	36.6	1.0	-60.4	-13.0	-47.4	
	2798.80	-22.9	H	3.0	36.4	1.0	-58.3	-13.0	-45.3	
	Mid Ch, 707.50									
	1415.00	-30.9	V	3.0	37.3	1.0	-67.3	-13.0	-54.3	
	2122.00	-23.5	V	3.0	36.6	1.0	-59.1	-13.0	-46.1	
	2830.00	-22.4	V	3.0	36.4	1.0	-57.8	-13.0	-44.8	
	1415.00	-29.2	H	3.0	37.3	1.0	-65.5	-13.0	-52.5	
	2122.00	-24.6	H	3.0	36.6	1.0	-60.2	-13.0	-47.2	
	2830.00	-23.2	H	3.0	36.4	1.0	-58.6	-13.0	-45.6	
	High Ch, 715.3									
	1430.60	-30.8	V	3.0	37.3	1.0	-67.2	-13.0	-54.2	
	2145.90	-23.6	V	3.0	36.6	1.0	-59.1	-13.0	-46.1	
	2861.20	-22.7	V	3.0	36.4	1.0	-58.1	-13.0	-45.1	
	1430.60	-29.3	H	3.0	37.3	1.0	-65.7	-13.0	-52.7	
	2145.90	-24.8	H	3.0	36.6	1.0	-60.3	-13.0	-47.3	
	2861.20	-23.1	H	3.0	36.4	1.0	-58.5	-13.0	-45.5	

UL Verification Services, Inc.										
Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I21523								
Date:		8/22/2015								
Test Engineer:		A. Escamilla								
Configuration:		EUT, AC Adapter, Headset								
Location:		Chamber C								
Mode:		LTE_QPSK Band 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
	Low Ch, 699.7									
LTE12	1399.40	-30.3	V	3.0	37.4	1.0	-66.7	-13.0	-53.7	
	2099.10	-23.6	V	3.0	36.6	1.0	-59.1	-13.0	-46.1	
1.4MHz	2798.80	-22.3	V	3.0	36.4	1.0	-57.6	-13.0	-44.6	
	1399.40	-29.5	H	3.0	37.4	1.0	-65.8	-13.0	-52.8	
QPSK	2099.10	-25.1	H	3.0	36.6	1.0	-60.7	-13.0	-47.7	
	2798.80	-22.7	H	3.0	36.4	1.0	-58.1	-13.0	-45.1	
	Mid Ch, 707.50									
	1415.00	-30.6	V	3.0	37.3	1.0	-66.9	-13.0	-53.9	
	2122.00	-23.4	V	3.0	36.6	1.0	-59.0	-13.0	-46.0	
	2830.00	-22.3	V	3.0	36.4	1.0	-57.7	-13.0	-44.7	
	1415.00	-29.7	H	3.0	37.3	1.0	-66.0	-13.0	-53.0	
	2122.00	-24.8	H	3.0	36.6	1.0	-60.4	-13.0	-47.4	
	2830.00	-23.2	H	3.0	36.4	1.0	-58.6	-13.0	-45.6	
	High Ch, 715.3									
	1430.60	-30.6	V	3.0	37.3	1.0	-67.0	-13.0	-54.0	
	2145.90	-24.0	V	3.0	36.6	1.0	-59.5	-13.0	-46.5	
	2861.20	-22.4	V	3.0	36.4	1.0	-57.8	-13.0	-44.8	
	1430.60	-29.1	H	3.0	37.3	1.0	-65.4	-13.0	-52.4	
	2145.90	-24.6	H	3.0	36.6	1.0	-60.1	-13.0	-47.1	
	2861.20	-22.7	H	3.0	36.4	1.0	-58.1	-13.0	-45.1	

LTE Band 13

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

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

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I21523							
Date:		8/22/2015							
Test Engineer:		A. Escamilla							
Configuration:		EUT, AC Adapter, Headset							
Location:		Chamber C							
Mode:		LTE_16QAM Band 13 Harmonics, 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, 779.5									
1559.00	-28.9	V	3.0	37.1	1.0	-65.1	-13.0	-52.1	
2338.50	-23.8	V	3.0	36.5	1.0	-59.3	-13.0	-46.3	
LTE13									
3118.00	-21.9	V	3.0	36.3	1.0	-57.2	-13.0	-44.2	
1559.00	-28.9	H	3.0	37.1	1.0	-65.0	-13.0	-52.0	
2338.50	-25.1	H	3.0	36.5	1.0	-60.6	-13.0	-47.6	
5MHz									
3118.00	-21.9	H	3.0	36.3	1.0	-57.2	-13.0	-44.2	
16QAM									
Mid Ch, 782									
1564.00	-28.9	V	3.0	37.1	1.0	-65.0	-13.0	-52.0	
2346.00	-23.9	V	3.0	36.5	1.0	-59.4	-13.0	-46.4	
3128.00	-21.8	V	3.0	36.3	1.0	-57.1	-13.0	-44.1	
1564.00	-29.1	H	3.0	37.1	1.0	-65.2	-13.0	-52.2	
2346.00	-25.4	H	3.0	36.5	1.0	-60.9	-13.0	-47.9	
3128.00	-21.7	H	3.0	36.3	1.0	-57.0	-13.0	-44.0	
High Ch, 784.5									
1569.00	-28.8	V	3.0	37.1	1.0	-64.9	-13.0	-51.9	
2353.50	-23.8	V	3.0	36.5	1.0	-59.3	-13.0	-46.3	
3138.00	-21.5	V	3.0	36.3	1.0	-56.8	-13.0	-43.8	
1569.00	-28.9	H	3.0	37.1	1.0	-65.1	-13.0	-52.1	
2353.50	-25.2	H	3.0	36.5	1.0	-60.6	-13.0	-47.6	
3138.00	-22.0	H	3.0	36.3	1.0	-57.3	-13.0	-44.3	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I21523								
Date:		8/22/2015								
Test Engineer:		A. Escamilla								
Configuration:		EUT, AC Adapter, Headset								
Location:		Chamber C								
Mode:		LTE_QPSK Band 13 Harmonics, 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, 779.5									
	1559.00	-28.8	V	3.0	37.1	1.0	-65.0	-13.0	-52.0	
	2338.50	-23.7	V	3.0	36.5	1.0	-59.2	-13.0	-46.2	
	3118.00	-21.5	V	3.0	36.3	1.0	-56.8	-13.0	-43.8	
	1559.00	-28.8	H	3.0	37.1	1.0	-64.9	-13.0	-51.9	
	2338.50	-25.0	H	3.0	36.5	1.0	-60.5	-13.0	-47.5	
5MHz	3118.00	-21.7	H	3.0	36.3	1.0	-57.0	-13.0	-44.0	
	Mid Ch, 782									
QPSK	1564.00	-28.7	V	3.0	37.1	1.0	-64.8	-13.0	-51.8	
	2346.00	-23.3	V	3.0	36.5	1.0	-58.8	-13.0	-45.8	
	3128.00	-21.7	V	3.0	36.3	1.0	-56.9	-13.0	-43.9	
	1564.00	-29.0	H	3.0	37.1	1.0	-65.1	-13.0	-52.1	
	2346.00	-25.6	H	3.0	36.5	1.0	-61.1	-13.0	-48.1	
	3128.00	-21.5	H	3.0	36.3	1.0	-56.8	-13.0	-43.8	
	High Ch, 784.5									
	1569.00	-28.7	V	3.0	37.1	1.0	-64.9	-13.0	-51.9	
	2353.50	-23.5	V	3.0	36.5	1.0	-59.0	-13.0	-46.0	
	3138.00	-21.4	V	3.0	36.3	1.0	-56.7	-13.0	-43.7	
	1569.00	-28.8	H	3.0	37.1	1.0	-64.9	-13.0	-51.9	
	2353.50	-25.1	H	3.0	36.5	1.0	-60.6	-13.0	-47.6	
	3138.00	-21.2	H	3.0	36.3	1.0	-56.5	-13.0	-43.5	

LTE Band 17

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I21523							
Date:		8/21/2015							
Test Engineer:		A. Escamilla							
Configuration:		EUT, AC Adapter, Headset							
Location:		Chamber C							
Mode:		LTE_16QAM Band 17 Harmonics, 10MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 709									
Band	1418.00	-29.8	V	3.0	37.4	1.0	-66.2	-13.0	-53.2
	2127.00	-17.9	V	3.0	36.6	1.0	-53.4	-13.0	-40.4
LTE17	2836.00	-22.5	V	3.0	36.4	1.0	-57.9	-13.0	-44.9
	1418.00	-30.6	H	3.0	37.4	1.0	-66.9	-13.0	-53.9
10MHz	2127.00	-21.3	H	3.0	36.6	1.0	-56.9	-13.0	-43.9
	2836.00	-23.7	H	3.0	36.4	1.0	-59.1	-13.0	-46.1
Mid Ch, 710									
16QAM	1420.00	-30.7	V	3.0	37.3	1.0	-67.1	-13.0	-54.1
	2130.00	-18.4	V	3.0	36.6	1.0	-54.0	-13.0	-41.0
	2840.00	-22.6	V	3.0	36.4	1.0	-57.9	-13.0	-44.9
	1420.00	-30.4	H	3.0	37.3	1.0	-66.8	-13.0	-53.8
	2130.00	-21.0	H	3.0	36.6	1.0	-56.5	-13.0	-43.5
	2840.00	-23.7	H	3.0	36.4	1.0	-59.1	-13.0	-46.1
High Ch, 711									
	1422.00	-30.8	V	3.0	37.3	1.0	-67.1	-13.0	-54.1
	2133.00	-20.3	V	3.0	36.6	1.0	-55.9	-13.0	-42.9
	2844.00	-23.3	V	3.0	36.4	1.0	-58.7	-13.0	-45.7
	1422.00	-29.6	H	3.0	37.3	1.0	-66.0	-13.0	-53.0
	2133.00	-20.4	H	3.0	36.6	1.0	-56.0	-13.0	-43.0
	2844.00	-23.9	H	3.0	36.4	1.0	-59.3	-13.0	-46.3

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I21523							
Date:		8/21/2015							
Test Engineer:		A. Escamilla							
Configuration:		EUT, AC Adapter, Headset							
Location:		Chamber C							
Mode:		LTE_QPSK Band 17 Harmonics, 10MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 709									
1418.00	-29.9	V	3.0	37.4	1.0	-66.2	-13.0	-53.2	
2127.00	-17.2	V	3.0	36.6	1.0	-52.8	-13.0	-39.8	
2836.00	-23.5	V	3.0	36.4	1.0	-58.9	-13.0	-45.9	
Mid Ch, 710									
1418.00	-30.7	H	3.0	37.4	1.0	-67.0	-13.0	-54.0	
2127.00	-20.2	H	3.0	36.6	1.0	-55.7	-13.0	-42.7	
2836.00	-23.0	H	3.0	36.4	1.0	-58.4	-13.0	-45.4	
High Ch, 711									
1420.00	-30.5	V	3.0	37.3	1.0	-66.9	-13.0	-53.9	
2130.00	-18.2	V	3.0	36.6	1.0	-53.7	-13.0	-40.7	
2840.00	-22.7	V	3.0	36.4	1.0	-58.1	-13.0	-45.1	
1420.00	-29.6	H	3.0	37.3	1.0	-65.9	-13.0	-52.9	
2130.00	-20.3	H	3.0	36.6	1.0	-55.8	-13.0	-42.8	
2840.00	-23.6	H	3.0	36.4	1.0	-59.0	-13.0	-46.0	
High Ch, 711									
1422.00	-29.6	V	3.0	37.3	1.0	-66.0	-13.0	-53.0	
2133.00	-19.2	V	3.0	36.6	1.0	-54.8	-13.0	-41.8	
2844.00	-22.9	V	3.0	36.4	1.0	-58.3	-13.0	-45.3	
1422.00	-29.8	H	3.0	37.3	1.0	-66.1	-13.0	-53.1	
2133.00	-20.4	H	3.0	36.6	1.0	-56.0	-13.0	-43.0	
2844.00	-23.9	H	3.0	36.4	1.0	-59.3	-13.0	-46.3	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I21523							
Date:		8/21/2015							
Test Engineer:		A. Escamilla							
Configuration:		EUT, AC Adapter, Headset							
Location:		Chamber C							
Mode:		LTE_16QAM Band 17 Harmonics, 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, 706.5									
Band	1413.00	-30.5	V	3.0	37.4	1.0	-66.8	-13.0	-53.8
	2119.50	-19.5	V	3.0	36.6	1.0	-55.1	-13.0	-42.1
LTE17	2826.00	-23.4	V	3.0	36.4	1.0	-58.8	-13.0	-45.8
	1413.00	-29.7	H	3.0	37.4	1.0	-66.1	-13.0	-53.1
	2119.50	-22.0	H	3.0	36.6	1.0	-57.6	-13.0	-44.6
5MHz	2826.00	-23.6	H	3.0	36.4	1.0	-59.0	-13.0	-46.0
Mid Ch, 710									
16QAM	1420.00	-30.8	V	3.0	37.3	1.0	-67.1	-13.0	-54.1
	2130.00	-20.2	V	3.0	36.6	1.0	-55.8	-13.0	-42.8
	2840.00	-22.4	V	3.0	36.4	1.0	-57.8	-13.0	-44.8
	1420.00	-29.9	H	3.0	37.3	1.0	-66.3	-13.0	-53.3
	2130.00	-21.5	H	3.0	36.6	1.0	-57.0	-13.0	-44.0
	2840.00	-24.0	H	3.0	36.4	1.0	-59.3	-13.0	-46.3
High Ch, 713.5									
	1427.00	-30.8	V	3.0	37.3	1.0	-67.2	-13.0	-54.2
	2140.50	-20.2	V	3.0	36.6	1.0	-55.8	-13.0	-42.8
	2854.00	-23.0	V	3.0	36.4	1.0	-58.3	-13.0	-45.3
	1427.00	-29.8	H	3.0	37.3	1.0	-66.2	-13.0	-53.2
	2140.50	-22.9	H	3.0	36.6	1.0	-58.5	-13.0	-45.5
	2854.00	-23.1	H	3.0	36.4	1.0	-58.5	-13.0	-45.5

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I21523							
Date:		8/21/2015							
Test Engineer:		A. Escamilla							
Configuration:		EUT, AC Adapter, Headset							
Location:		Chamber C							
Mode:		LTE_QPSK Band 17 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, 706.5									
Band	1413.00	-30.2	V	3.0	37.4	1.0	-66.5	-13.0	-53.5
	2119.50	-18.4	V	3.0	36.6	1.0	-54.0	-13.0	-41.0
LTE17	2826.00	-22.7	V	3.0	36.4	1.0	-58.1	-13.0	-45.1
	1413.00	-29.7	H	3.0	37.4	1.0	-66.1	-13.0	-53.1
	2119.50	-22.0	H	3.0	36.6	1.0	-57.6	-13.0	-44.6
5MHz	2826.00	-24.3	H	3.0	36.4	1.0	-59.7	-13.0	-46.7
Mid Ch, 710									
QPSK	1420.00	-30.6	V	3.0	37.3	1.0	-67.0	-13.0	-54.0
	2130.00	-19.6	V	3.0	36.6	1.0	-55.2	-13.0	-42.2
	2840.00	-23.4	V	3.0	36.4	1.0	-58.8	-13.0	-45.8
	1420.00	-30.2	H	3.0	37.3	1.0	-66.6	-13.0	-53.6
	2130.00	-21.3	H	3.0	36.6	1.0	-56.9	-13.0	-43.9
	2840.00	-23.6	H	3.0	36.4	1.0	-59.0	-13.0	-46.0
High Ch, 713.5									
	1427.00	-30.4	V	3.0	37.3	1.0	-66.7	-13.0	-53.7
	2140.50	-20.1	V	3.0	36.6	1.0	-55.6	-13.0	-42.6
	2854.00	-22.4	V	3.0	36.4	1.0	-57.8	-13.0	-44.8
	1427.00	-30.0	H	3.0	37.3	1.0	-66.3	-13.0	-53.3
	2140.50	-21.6	H	3.0	36.6	1.0	-57.1	-13.0	-44.1
	2854.00	-24.0	H	3.0	36.4	1.0	-59.4	-13.0	-46.4

LTE Band 25

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I21523							
Date:		8/22/2015							
Test Engineer:		A. Escamilla							
Configuration:		EUT, AC Adapter, Headset							
Location:		Chamber C							
Mode:		LTE_16QAM Band 25 Harmonics, 20MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1860									
Band	3720.00	-19.7	V	3.0	35.8	1.0	-54.5	-13.0	-41.5
	5580.00	-15.8	V	3.0	35.5	1.0	-50.2	-13.0	-37.2
LTE25	7440.00	-13.2	V	3.0	35.7	1.0	-47.9	-13.0	-34.9
	3720.00	-19.0	H	3.0	35.8	1.0	-53.9	-13.0	-40.9
20MHz	5580.00	-15.9	H	3.0	35.5	1.0	-50.3	-13.0	-37.3
	7440.00	-11.9	H	3.0	35.7	1.0	-46.6	-13.0	-33.6
Mid Ch, 1882.5									
16QAM	3765.00	-19.8	V	3.0	35.8	1.0	-54.6	-13.0	-41.6
	5647.50	-15.9	V	3.0	35.5	1.0	-50.4	-13.0	-37.4
	7530.00	-13.0	V	3.0	35.7	1.0	-47.8	-13.0	-34.8
	3765.00	-18.9	H	3.0	35.8	1.0	-53.7	-13.0	-40.7
	5647.50	-15.2	H	3.0	35.5	1.0	-49.7	-13.0	-36.7
	7530.00	-11.9	H	3.0	35.7	1.0	-46.7	-13.0	-33.7
High Ch, 1905									
	3810.00	-19.1	V	3.0	35.8	1.0	-53.9	-13.0	-40.9
	5715.00	-15.7	V	3.0	35.5	1.0	-50.2	-13.0	-37.2
	7620.00	-12.6	V	3.0	35.8	1.0	-47.4	-13.0	-34.4
	3810.00	-19.5	H	3.0	35.8	1.0	-54.3	-13.0	-41.3
	5715.00	-14.8	H	3.0	35.5	1.0	-49.3	-13.0	-36.3
	7620.00	-11.8	H	3.0	35.8	1.0	-46.5	-13.0	-33.5

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I21523							
Date:		8/22/2015							
Test Engineer:		A. Escamilla							
Configuration:		EUT, AC Adapter, Headset							
Location:		Chamber C							
Mode:		LTE_QPSK Band 25 Harmonics, 20MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1860									
Band	3720.00	-19.4	V	3.0	35.8	1.0	-54.3	-13.0	-41.3
	5580.00	-15.8	V	3.0	35.5	1.0	-50.3	-13.0	-37.3
LTE25	7440.00	-13.0	V	3.0	35.7	1.0	-47.7	-13.0	-34.7
	3720.00	-19.6	H	3.0	35.8	1.0	-54.4	-13.0	-41.4
	5580.00	-15.3	H	3.0	35.5	1.0	-49.8	-13.0	-36.8
20MHz	7440.00	-11.9	H	3.0	35.7	1.0	-46.7	-13.0	-33.7
Mid Ch, 1882.5									
QPSK	3765.00	-19.4	V	3.0	35.8	1.0	-54.2	-13.0	-41.2
	5647.50	-15.7	V	3.0	35.5	1.0	-50.1	-13.0	-37.1
	7530.00	-13.2	V	3.0	35.7	1.0	-47.9	-13.0	-34.9
	3765.00	-18.4	H	3.0	35.8	1.0	-53.2	-13.0	-40.2
	5647.50	-15.0	H	3.0	35.5	1.0	-49.5	-13.0	-36.5
	7530.00	-11.8	H	3.0	35.7	1.0	-46.6	-13.0	-33.6
High Ch, 1905									
	3810.00	-19.0	V	3.0	35.8	1.0	-53.8	-13.0	-40.8
	5715.00	-15.4	V	3.0	35.5	1.0	-49.9	-13.0	-36.9
	7620.00	-12.4	V	3.0	35.8	1.0	-47.1	-13.0	-34.1
	3810.00	-19.2	H	3.0	35.8	1.0	-54.0	-13.0	-41.0
	5715.00	-14.8	H	3.0	35.5	1.0	-49.3	-13.0	-36.3
	7620.00	-11.7	H	3.0	35.8	1.0	-46.5	-13.0	-33.5

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I21523							
Date:		8/22/2015							
Test Engineer:		A. Escamilla							
Configuration:		EUT, AC Adapter, Headset							
Location:		Chamber C							
Mode:		LTE_16QAM Band 25 Harmonics, 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 LTE25 15MHz	3715.00	-19.9	V	3.0	35.8	1.0	-54.7	-13.0	-41.7
	5572.50	-16.0	V	3.0	35.5	1.0	-50.5	-13.0	-37.5
	7430.00	-13.1	V	3.0	35.7	1.0	-47.9	-13.0	-34.9
	3715.00	-20.0	H	3.0	35.8	1.0	-54.9	-13.0	-41.9
	5572.50	-15.7	H	3.0	35.5	1.0	-50.2	-13.0	-37.2
	7430.00	-12.3	H	3.0	35.7	1.0	-47.0	-13.0	-34.0
Mid Ch, 1882.5									
16QAM	3815.00	-19.8	V	3.0	35.8	1.0	-54.6	-13.0	-41.6
	5722.50	-15.9	V	3.0	35.5	1.0	-50.4	-13.0	-37.4
	7630.00	-13.1	V	3.0	35.7	1.0	-47.8	-13.0	-34.8
	3815.00	-19.9	H	3.0	35.8	1.0	-54.7	-13.0	-41.7
	5722.50	-15.5	H	3.0	35.5	1.0	-49.9	-13.0	-36.9
	7630.00	-12.1	H	3.0	35.7	1.0	-46.8	-13.0	-33.8
High Ch, 1907.5									
	3815.00	-19.6	V	3.0	35.8	1.0	-54.3	-13.0	-41.3
	5722.50	-15.7	V	3.0	35.5	1.0	-50.2	-13.0	-37.2
	7630.00	-12.2	V	3.0	35.8	1.0	-46.9	-13.0	-33.9
	3815.00	-19.4	H	3.0	35.8	1.0	-54.2	-13.0	-41.2
	5722.50	-15.3	H	3.0	35.5	1.0	-49.8	-13.0	-36.8
	7630.00	-12.1	H	3.0	35.8	1.0	-46.9	-13.0	-33.9

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I21523							
Date:		8/22/2015							
Test Engineer:		A. Escamilla							
Configuration:		EUT, AC Adapter, Headset							
Location:		Chamber C							
Mode:		LTE_QPSK Band 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	-19.7	V	3.0	35.8	1.0	-54.6	-13.0	-41.6
	5572.50	-15.8	V	3.0	35.5	1.0	-50.3	-13.0	-37.3
LTE25	7430.00	-13.1	V	3.0	35.7	1.0	-47.9	-13.0	-34.9
	3715.00	-19.5	H	3.0	35.8	1.0	-54.4	-13.0	-41.4
	5572.50	-15.2	H	3.0	35.5	1.0	-49.7	-13.0	-36.7
15MHz	7430.00	-12.0	H	3.0	35.7	1.0	-46.7	-13.0	-33.7
Mid Ch, 1882.5									
QPSK	3765.00	-19.5	V	3.0	35.8	1.0	-54.3	-13.0	-41.3
	5647.50	-15.6	V	3.0	35.5	1.0	-50.1	-13.0	-37.1
	7530.00	-12.8	V	3.0	35.7	1.0	-47.6	-13.0	-34.6
	3765.00	-19.1	H	3.0	35.8	1.0	-53.9	-13.0	-40.9
	5647.50	-15.3	H	3.0	35.5	1.0	-49.8	-13.0	-36.8
	7530.00	-11.9	H	3.0	35.7	1.0	-46.6	-13.0	-33.6
High Ch, 1907.5									
	3815.00	-19.2	V	3.0	35.8	1.0	-54.0	-13.0	-41.0
	5722.50	-15.7	V	3.0	35.5	1.0	-50.2	-13.0	-37.2
	7630.00	-13.0	V	3.0	35.8	1.0	-47.8	-13.0	-34.8
	3815.00	-19.5	H	3.0	35.8	1.0	-54.3	-13.0	-41.3
	5722.50	-15.1	H	3.0	35.5	1.0	-49.6	-13.0	-36.6
	7630.00	-12.0	H	3.0	35.8	1.0	-46.7	-13.0	-33.7

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I21523							
Date:		8/22/2015							
Test Engineer:		A. Escamilla							
Configuration:		EUT, AC Adapter, Headset							
Location:		Chamber C							
Mode:		LTE_16QAM Band 25 Harmonics, 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	-20.2	V	3.0	35.9	1.0	-55.0	-13.0	-42.0
	5565.00	-16.2	V	3.0	35.5	1.0	-50.7	-13.0	-37.7
LTE25	7420.00	-13.0	V	3.0	35.7	1.0	-47.7	-13.0	-34.7
	3710.00	-20.2	H	3.0	35.9	1.0	-55.1	-13.0	-42.1
	5565.00	-15.7	H	3.0	35.5	1.0	-50.1	-13.0	-37.1
10MHz	7420.00	-12.2	H	3.0	35.7	1.0	-46.9	-13.0	-33.9
Mid Ch, 1882.5									
16QAM	3765.00	-19.7	V	3.0	35.8	1.0	-54.6	-13.0	-41.6
	5647.50	-15.8	V	3.0	35.5	1.0	-50.3	-13.0	-37.3
	7530.00	-13.0	V	3.0	35.7	1.0	-47.7	-13.0	-34.7
	3765.00	-20.2	H	3.0	35.8	1.0	-55.0	-13.0	-42.0
	5647.50	-15.3	H	3.0	35.5	1.0	-49.8	-13.0	-36.8
	7530.00	-12.0	H	3.0	35.7	1.0	-46.7	-13.0	-33.7
High Ch, 1910									
	3820.00	-19.9	V	3.0	35.8	1.0	-54.7	-13.0	-41.7
	5730.00	-15.8	V	3.0	35.5	1.0	-50.3	-13.0	-37.3
	7640.00	-13.2	V	3.0	35.8	1.0	-48.0	-13.0	-35.0
	3820.00	-20.0	H	3.0	35.8	1.0	-54.8	-13.0	-41.8
	5730.00	-14.8	H	3.0	35.5	1.0	-49.3	-13.0	-36.3
	7640.00	-12.1	H	3.0	35.8	1.0	-46.9	-13.0	-33.9

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I21523							
Date:		8/22/2015							
Test Engineer:		A. Escamilla							
Configuration:		EUT, AC Adapter, Headset							
Location:		Chamber C							
Mode:		LTE_QPSK Band 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	-20.1	V	3.0	35.9	1.0	-54.9	-13.0	-41.9
	5565.00	-15.9	V	3.0	35.5	1.0	-50.4	-13.0	-37.4
LTE25	7420.00	-13.0	V	3.0	35.7	1.0	-47.8	-13.0	-34.8
	3710.00	-20.1	H	3.0	35.9	1.0	-55.0	-13.0	-42.0
	5565.00	-15.3	H	3.0	35.5	1.0	-49.8	-13.0	-36.8
10MHz	7420.00	-12.1	H	3.0	35.7	1.0	-46.8	-13.0	-33.8
Mid Ch, 1882.5									
QPSK	3765.00	-19.3	V	3.0	35.8	1.0	-54.1	-13.0	-41.1
	5647.50	-15.3	V	3.0	35.5	1.0	-49.8	-13.0	-36.8
	7530.00	-12.9	V	3.0	35.7	1.0	-47.6	-13.0	-34.6
	3765.00	-19.8	H	3.0	35.8	1.0	-54.6	-13.0	-41.6
	5647.50	-15.0	H	3.0	35.5	1.0	-49.5	-13.0	-36.5
	7530.00	-12.2	H	3.0	35.7	1.0	-46.9	-13.0	-33.9
High Ch, 1910									
	3820.00	-19.8	V	3.0	35.8	1.0	-54.6	-13.0	-41.6
	5730.00	-15.8	V	3.0	35.5	1.0	-50.3	-13.0	-37.3
	7640.00	-13.2	V	3.0	35.8	1.0	-47.9	-13.0	-34.9
	3820.00	-19.9	H	3.0	35.8	1.0	-54.6	-13.0	-41.6
	5730.00	-15.0	H	3.0	35.5	1.0	-49.5	-13.0	-36.5
	7640.00	-12.0	H	3.0	35.8	1.0	-46.7	-13.0	-33.7

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I21523							
Date:		8/22/2015							
Test Engineer:		A. Escamilla							
Configuration:		EUT, AC Adapter, Headset							
Location:		Chamber C							
Mode:		LTE_16QAM Band 25 Harmonics, 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	-19.9	V	3.0	35.9	1.0	-54.7	-13.0	-41.7
	5557.50	-16.7	V	3.0	35.5	1.0	-51.2	-13.0	-38.2
LTE25	7410.00	-12.9	V	3.0	35.7	1.0	-47.7	-13.0	-34.7
	3705.00	-19.6	H	3.0	35.9	1.0	-54.5	-13.0	-41.5
	5557.50	-15.6	H	3.0	35.5	1.0	-50.1	-13.0	-37.1
5MHz	7410.00	-11.9	H	3.0	35.7	1.0	-46.7	-13.0	-33.7
Mid Ch, 1882.5									
16QAM	3765.00	-19.8	V	3.0	35.8	1.0	-54.6	-13.0	-41.6
	5647.50	-15.6	V	3.0	35.5	1.0	-50.1	-13.0	-37.1
	7530.00	-12.9	V	3.0	35.7	1.0	-47.6	-13.0	-34.6
	3765.00	-19.1	H	3.0	35.8	1.0	-53.9	-13.0	-40.9
	5647.50	-15.9	H	3.0	35.5	1.0	-50.4	-13.0	-37.4
	7530.00	-12.2	H	3.0	35.7	1.0	-47.0	-13.0	-34.0
High Ch, 1912.5									
	3825.00	-19.6	V	3.0	35.8	1.0	-54.3	-13.0	-41.3
	5737.50	-15.6	V	3.0	35.5	1.0	-50.1	-13.0	-37.1
	7650.00	-12.3	V	3.0	35.8	1.0	-47.0	-13.0	-34.0
	3825.00	-18.8	H	3.0	35.8	1.0	-53.5	-13.0	-40.5
	5737.50	-15.0	H	3.0	35.5	1.0	-49.5	-13.0	-36.5
	7650.00	-11.7	H	3.0	35.8	1.0	-46.5	-13.0	-33.5

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I21523								
Date:		8/22/2015								
Test Engineer:		A. Escamilla								
Configuration:		EUT, AC Adapter, Headset								
Location:		Chamber C								
Mode:		LTE_QPSK Band 25 Harmonics, 5MHz Bandwidth								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band	Low Ch, 1852.5									
	3705.00	-20.0	V	3.0	35.9	1.0	-54.8	-13.0	-41.8	
	5557.50	-16.1	V	3.0	35.5	1.0	-50.6	-13.0	-37.6	
LTE25	7410.00	-13.0	V	3.0	35.7	1.0	-47.8	-13.0	-34.8	
	3705.00	-19.9	H	3.0	35.9	1.0	-54.7	-13.0	-41.7	
	5557.50	-15.6	H	3.0	35.5	1.0	-50.0	-13.0	-37.0	
5MHz	7410.00	-12.0	H	3.0	35.7	1.0	-46.7	-13.0	-33.7	
	Mid Ch, 1882.5									
QPSK	3765.00	-19.7	V	3.0	35.8	1.0	-54.5	-13.0	-41.5	
	5647.50	-15.7	V	3.0	35.5	1.0	-50.2	-13.0	-37.2	
	7530.00	-12.7	V	3.0	35.7	1.0	-47.4	-13.0	-34.4	
	3765.00	-18.5	H	3.0	35.8	1.0	-53.3	-13.0	-40.3	
	5647.50	-15.9	H	3.0	35.5	1.0	-50.4	-13.0	-37.4	
	7530.00	-12.0	H	3.0	35.7	1.0	-46.8	-13.0	-33.8	
High Ch, 1912.5										
	3825.00	-19.4	V	3.0	35.8	1.0	-54.2	-13.0	-41.2	
	5737.50	-15.2	V	3.0	35.5	1.0	-49.7	-13.0	-36.7	
	7650.00	-12.4	V	3.0	35.8	1.0	-47.2	-13.0	-34.2	
	3825.00	-18.8	H	3.0	35.8	1.0	-53.5	-13.0	-40.5	
	5737.50	-14.5	H	3.0	35.5	1.0	-48.9	-13.0	-35.9	
	7650.00	-11.5	H	3.0	35.8	1.0	-46.3	-13.0	-33.3	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I21523							
Date:		8/22/2015							
Test Engineer:		A. Escamilla							
Configuration:		EUT, AC Adapter, Headset							
Location:		Chamber C							
Mode:		LTE_16QAM Band 25 Harmonics, 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	-20.0	V	3.0	35.9	1.0	-54.9	-13.0	-41.9
	5554.50	-16.2	V	3.0	35.5	1.0	-50.7	-13.0	-37.7
LTE25	7406.00	-12.9	V	3.0	35.7	1.0	-47.6	-13.0	-34.6
	3703.00	-20.1	H	3.0	35.9	1.0	-54.9	-13.0	-41.9
	5554.50	-15.5	H	3.0	35.5	1.0	-50.0	-13.0	-37.0
3MHz	7406.00	-12.3	H	3.0	35.7	1.0	-47.0	-13.0	-34.0
Mid Ch, 1882.5									
16QAM	3765.00	-19.8	V	3.0	35.8	1.0	-54.6	-13.0	-41.6
	5647.50	-15.9	V	3.0	35.5	1.0	-50.4	-13.0	-37.4
	7530.00	-12.8	V	3.0	35.7	1.0	-47.6	-13.0	-34.6
	3765.00	-20.1	H	3.0	35.8	1.0	-54.9	-13.0	-41.9
	5647.50	-15.1	H	3.0	35.5	1.0	-49.6	-13.0	-36.6
	7530.00	-11.9	H	3.0	35.7	1.0	-46.7	-13.0	-33.7
High Ch, 1913.5									
	3827.00	-19.5	V	3.0	35.8	1.0	-54.3	-13.0	-41.3
	5740.50	-15.6	V	3.0	35.5	1.0	-50.1	-13.0	-37.1
	7654.00	-12.6	V	3.0	35.8	1.0	-47.3	-13.0	-34.3
	3827.00	-19.7	H	3.0	35.8	1.0	-54.5	-13.0	-41.5
	5740.50	-15.2	H	3.0	35.5	1.0	-49.7	-13.0	-36.7
	7654.00	-11.5	H	3.0	35.8	1.0	-46.3	-13.0	-33.3

UL Verification Services, Inc.										
Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I21523								
Date:		8/22/2015								
Test Engineer:		A. Escamilla								
Configuration:		EUT, AC Adapter, Headset								
Location:		Chamber C								
Mode:		LTE_QPSK Band 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	-19.9	V	3.0	35.9	1.0	-54.7	-13.0	-41.7	
	5554.50	-16.0	V	3.0	35.5	1.0	-50.5	-13.0	-37.5	
LTE25	7406.00	-13.0	V	3.0	35.7	1.0	-47.7	-13.0	-34.7	
	3703.00	-19.9	H	3.0	35.9	1.0	-54.8	-13.0	-41.8	
	5554.50	-15.7	H	3.0	35.5	1.0	-50.2	-13.0	-37.2	
3MHz	7406.00	-12.2	H	3.0	35.7	1.0	-46.9	-13.0	-33.9	
	Mid Ch, 1882.5									
	3765.00	-19.7	V	3.0	35.8	1.0	-54.5	-13.0	-41.5	
QPSK	5647.50	-15.3	V	3.0	35.5	1.0	-49.8	-13.0	-36.8	
	7530.00	-12.8	V	3.0	35.7	1.0	-47.5	-13.0	-34.5	
	3765.00	-20.0	H	3.0	35.8	1.0	-54.8	-13.0	-41.8	
	5647.50	-15.0	H	3.0	35.5	1.0	-49.5	-13.0	-36.5	
	7530.00	-11.7	H	3.0	35.7	1.0	-46.5	-13.0	-33.5	
	High Ch, 1913.5									
	3827.00	-19.0	V	3.0	35.8	1.0	-53.8	-13.0	-40.8	
	5740.50	-15.5	V	3.0	35.5	1.0	-50.0	-13.0	-37.0	
	7654.00	-12.5	V	3.0	35.8	1.0	-47.2	-13.0	-34.2	
	3827.00	-19.0	H	3.0	35.8	1.0	-53.8	-13.0	-40.8	
	5740.50	-14.9	H	3.0	35.5	1.0	-49.4	-13.0	-36.4	
	7654.00	-11.6	H	3.0	35.8	1.0	-46.4	-13.0	-33.4	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I21523							
Date:		8/22/2015							
Test Engineer:		A. Escamilla							
Configuration:		EUT, AC Adapter, Headset							
Location:		Chamber C							
Mode:		LTE_16QAM Band 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	-20.0	V	3.0	35.9	1.0	-54.8	-13.0	-41.8
	5552.10	-16.0	V	3.0	35.5	1.0	-50.5	-13.0	-37.5
LTE25	7402.80	-12.7	V	3.0	35.7	1.0	-47.5	-13.0	-34.5
	3701.40	-20.2	H	3.0	35.9	1.0	-55.1	-13.0	-42.1
	5552.10	-15.5	H	3.0	35.5	1.0	-50.0	-13.0	-37.0
1.4MHz	7402.80	-12.3	H	3.0	35.7	1.0	-47.0	-13.0	-34.0
Mid Ch, 1882.5									
16QAM	3765.00	-19.8	V	3.0	35.8	1.0	-44.7	-13.0	-31.7
	5647.50	-15.6	V	3.0	35.5	1.0	-50.1	-13.0	-37.1
	7530.00	-12.9	V	3.0	35.7	1.0	-47.7	-13.0	-34.7
	3765.00	-19.8	H	3.0	35.8	1.0	-54.6	-13.0	-41.6
	5647.50	-14.1	H	3.0	35.5	1.0	-48.6	-13.0	-35.6
	7530.00	-11.9	H	3.0	35.7	1.0	-46.7	-13.0	-33.7
High Ch, 1914.3									
	3828.60	-19.5	V	3.0	35.8	1.0	-54.3	-13.0	-41.3
	5742.90	-15.4	V	3.0	35.5	1.0	-49.9	-13.0	-36.9
	7657.20	-12.8	V	3.0	35.8	1.0	-47.5	-13.0	-34.5
	3828.60	-19.9	H	3.0	35.8	1.0	-54.7	-13.0	-41.7
	5742.90	-15.1	H	3.0	35.5	1.0	-49.6	-13.0	-36.6
	7657.20	-12.1	H	3.0	35.8	1.0	-46.9	-13.0	-33.9

UL Verification Services, Inc.									
Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I21523							
Date:		8/22/2015							
Test Engineer:		A. Escamilla							
Configuration:		EUT, AC Adapter, Headset							
Location:		Chamber C							
Mode:		LTE_QPSK Band 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	-20.0	V	3.0	35.9	1.0	-54.9	-13.0	-41.9
	5552.10	-15.9	V	3.0	35.5	1.0	-50.4	-13.0	-37.4
LTE25	7402.80	-12.5	V	3.0	35.7	1.0	-47.3	-13.0	-34.3
	3701.40	-20.1	H	3.0	35.9	1.0	-55.0	-13.0	-42.0
	5552.10	-15.3	H	3.0	35.5	1.0	-49.8	-13.0	-36.8
1.4MHz	7402.80	-12.1	H	3.0	35.7	1.0	-46.8	-13.0	-33.8
Mid Ch, 1882.5									
QPSK	3765.00	-19.2	V	3.0	35.8	1.0	-54.0	-13.0	-41.0
	5647.50	-15.6	V	3.0	35.5	1.0	-50.1	-13.0	-37.1
	7530.00	-12.5	V	3.0	35.7	1.0	-47.3	-13.0	-34.3
	3765.00	-19.7	H	3.0	35.8	1.0	-54.5	-13.0	-41.5
	5647.50	-15.1	H	3.0	35.5	1.0	-49.5	-13.0	-36.5
	7530.00	-11.7	H	3.0	35.7	1.0	-46.4	-13.0	-33.4
High Ch, 1914.3									
	3828.60	-19.4	V	3.0	35.8	1.0	-54.1	-13.0	-41.1
	5742.90	-15.5	V	3.0	35.5	1.0	-50.0	-13.0	-37.0
	7657.20	-12.6	V	3.0	35.8	1.0	-47.3	-13.0	-34.3
	3828.60	-19.3	H	3.0	35.8	1.0	-54.1	-13.0	-41.1
	5742.90	-14.4	H	3.0	35.5	1.0	-48.9	-13.0	-35.9
	7657.20	-11.3	H	3.0	35.8	1.0	-46.0	-13.0	-33.0

LTE Band 26

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I21523							
Date:		8/21/2015							
Test Engineer:		R.Z							
Configuration:		EUT, AC Adapter, Headset							
Location:		Chamber A							
Mode:		LTE_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
Band									
LTE26									
15MHz									
16QAM									
Mid Ch, 831.5									
1663.00	-27.6	V	3.0	37.0	1.0	-63.7	-13.0	-50.7	
2494.50	-22.6	V	3.0	36.4	1.0	-58.0	-13.0	-45.0	
3326.00	-20.5	V	3.0	36.2	1.0	-55.7	-13.0	-42.7	
Mid Ch, 836.5									
1673.00	-27.8	H	3.0	37.0	1.0	-63.8	-13.0	-50.8	
2494.50	-23.5	H	3.0	36.4	1.0	-58.9	-13.0	-45.9	
3326.00	-20.4	H	3.0	36.2	1.0	-55.6	-13.0	-42.6	
Mid Ch, 836.5									
1673.00	-27.3	V	3.0	37.0	1.0	-63.3	-13.0	-50.3	
2509.50	-22.5	V	3.0	36.4	1.0	-57.9	-13.0	-44.9	
3346.00	-20.7	V	3.0	36.1	1.0	-55.8	-13.0	-42.8	
1673.00	-27.9	H	3.0	37.0	1.0	-63.9	-13.0	-50.9	
2509.50	-24.3	H	3.0	36.4	1.0	-59.7	-13.0	-46.7	
3346.00	-20.9	H	3.0	36.1	1.0	-56.0	-13.0	-43.0	
High Ch, 841.5									
1683.00	-27.4	V	3.0	37.0	1.0	-63.4	-13.0	-50.4	
2524.50	-22.3	V	3.0	36.4	1.0	-57.7	-13.0	-44.7	
3366.00	-20.7	V	3.0	36.1	1.0	-55.8	-13.0	-42.8	
1683.00	-27.5	H	3.0	37.0	1.0	-63.5	-13.0	-50.5	
2524.50	-24.6	H	3.0	36.4	1.0	-60.0	-13.0	-47.0	
3366.00	-21.1	H	3.0	36.1	1.0	-56.2	-13.0	-43.2	

Compliance Certification Services										
Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I21523								
Date:		8/21/2015								
Test Engineer:		R.Z								
Configuration:		EUT, AC Adapter, Headset								
Location:		Chamber A								
Mode:		LTE_QPSK Band 26 Harmonics, 15MHz Bandwidth								
Band	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Mid Ch, 831.5									
	1663.00	-27.5	V	3.0	37.0	1.0	-63.6	-13.0	-50.6	
LTE26	2494.50	-22.8	V	3.0	36.4	1.0	-58.2	-13.0	-45.2	
	3326.00	-20.3	V	3.0	36.2	1.0	-55.5	-13.0	-42.5	
15MHz	1663.00	-28.0	H	3.0	37.0	1.0	-64.0	-13.0	-51.0	
	2494.50	-22.9	H	3.0	36.4	1.0	-58.4	-13.0	-45.4	
QPSK	3326.00	-20.2	H	3.0	36.2	1.0	-55.3	-13.0	-42.3	
	Mid Ch, 836.5									
	1673.00	-27.4	V	3.0	37.0	1.0	-63.4	-13.0	-50.4	
	2509.50	-22.7	V	3.0	36.4	1.0	-58.1	-13.0	-45.1	
	3346.00	-21.7	V	3.0	36.1	1.0	-56.9	-13.0	-43.9	
	1673.00	-27.8	H	3.0	37.0	1.0	-63.8	-13.0	-50.8	
	2509.50	-23.9	H	3.0	36.4	1.0	-59.4	-13.0	-46.4	
	3346.00	-21.2	H	3.0	36.1	1.0	-56.3	-13.0	-43.3	
	High Ch, 841.5									
	1683.00	-27.4	V	3.0	37.0	1.0	-63.4	-13.0	-50.4	
	2524.50	-22.9	V	3.0	36.4	1.0	-58.3	-13.0	-45.3	
	3366.00	-20.9	V	3.0	36.1	1.0	-56.0	-13.0	-43.0	
	1683.00	-27.4	H	3.0	37.0	1.0	-63.4	-13.0	-50.4	
	2524.50	-25.2	H	3.0	36.4	1.0	-60.6	-13.0	-47.6	
	3366.00	-20.9	H	3.0	36.1	1.0	-56.1	-13.0	-43.1	

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I21523							
Date:		8/21/2015							
Test Engineer:		R.Z							
Configuration:		EUT, AC Adapter, Headset							
Location:		Chamber A							
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	-63.3	-13.0	-50.3	
2457.00	-23.0	V	3.0	36.4	1.0	-58.4	-13.0	-45.4	
3276.00	-19.2	V	3.0	36.2	1.0	-54.4	-13.0	-41.4	
16QAM									
1638.00	-27.4	H	3.0	37.0	1.0	-63.4	-13.0	-50.4	
2457.00	-24.0	H	3.0	36.4	1.0	-59.4	-13.0	-46.4	
3276.00	-21.0	H	3.0	36.2	1.0	-56.1	-13.0	-43.1	
Mid Ch, 831.5									
1663.00	-27.1	V	3.0	37.0	1.0	-63.1	-13.0	-50.1	
2494.50	-22.4	V	3.0	36.4	1.0	-57.8	-13.0	-44.8	
3326.00	-19.6	V	3.0	36.1	1.0	-54.7	-13.0	-41.7	
1663.00	-27.7	H	3.0	37.0	1.0	-63.7	-13.0	-50.7	
2494.50	-24.1	H	3.0	36.4	1.0	-59.6	-13.0	-46.6	
3326.00	-21.1	H	3.0	36.1	1.0	-56.2	-13.0	-43.2	
High Ch, 844									
1688.00	0.0	V	3.0	37.0	1.0	-36.0	-13.0	-23.0	
2532.00	-21.7	V	3.0	36.4	1.0	-57.1	-13.0	-44.1	
3376.00	-20.0	V	3.0	36.1	1.0	-55.1	-13.0	-42.1	
1688.00	-27.7	H	3.0	37.0	1.0	-63.7	-13.0	-50.7	
2532.00	-24.4	H	3.0	36.4	1.0	-59.8	-13.0	-46.8	
3376.00	-20.4	H	3.0	36.1	1.0	-55.5	-13.0	-42.5	

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I21523							
Date:		8/21/2015							
Test Engineer:		R.Z							
Configuration:		EUT, AC Adapter, Headset							
Location:		Chamber A							
Mode:		LTE_QPSK Band 26 Harmonics, 10MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 819									
1638.00	-27.5	V	3.0	37.0	1.0	-63.5	-13.0	-50.5	
2457.00	-22.7	V	3.0	36.4	1.0	-58.1	-13.0	-45.1	
3276.00	-20.9	V	3.0	36.2	1.0	-56.1	-13.0	-43.1	
LTE26									
1638.00	-28.1	H	3.0	37.0	1.0	-64.2	-13.0	-51.2	
2457.00	-24.2	H	3.0	36.4	1.0	-59.7	-13.0	-46.7	
10MHz									
3276.00	-20.1	H	3.0	36.2	1.0	-55.3	-13.0	-42.3	
Mid Ch, 831.5									
1663.00	-27.1	V	3.0	37.0	1.0	-63.1	-13.0	-50.1	
2494.50	-21.6	V	3.0	36.4	1.0	-57.0	-13.0	-44.0	
3326.00	-19.9	V	3.0	36.1	1.0	-55.1	-13.0	-42.1	
1663.00	-28.4	H	3.0	37.0	1.0	-64.4	-13.0	-51.4	
2494.50	-24.6	H	3.0	36.4	1.0	-60.1	-13.0	-47.1	
3326.00	-20.9	H	3.0	36.1	1.0	-56.0	-13.0	-43.0	
QPSK									
High Ch, 844									
1688.00	-26.4	V	3.0	37.0	1.0	-62.4	-13.0	-49.4	
2532.00	-22.6	V	3.0	36.4	1.0	-58.0	-13.0	-45.0	
3376.00	-21.5	V	3.0	36.1	1.0	-56.6	-13.0	-43.6	
1688.00	-27.9	H	3.0	37.0	1.0	-63.8	-13.0	-50.8	
2532.00	-25.0	H	3.0	36.4	1.0	-60.4	-13.0	-47.4	
3376.00	-20.8	H	3.0	36.1	1.0	-55.9	-13.0	-42.9	

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I21523							
Date:		8/21/2015							
Test Engineer:		R.Z							
Configuration:		EUT, AC Adapter, Headset							
Location:		Chamber A							
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									
LTE26									
5MHz									
16QAM									
Low Ch, 816.5									
1633.00	-26.4	V	3.0	37.0	1.0	-62.5	-13.0	-49.5	
2449.50	-22.3	V	3.0	36.4	1.0	-57.7	-13.0	-44.7	
3266.00	-20.0	V	3.0	36.2	1.0	-55.1	-13.0	-42.1	
1633.00	-27.1	H	3.0	37.0	1.0	-63.2	-13.0	-50.2	
2449.50	-22.9	H	3.0	36.4	1.0	-58.4	-13.0	-45.4	
3266.00	-20.3	H	3.0	36.2	1.0	-55.5	-13.0	-42.5	
Mid Ch, 831.5									
1663.00	-26.5	V	3.0	37.0	1.0	-62.5	-13.0	-49.5	
2494.50	-22.2	V	3.0	36.4	1.0	-57.6	-13.0	-44.6	
3326.00	-20.8	V	3.0	36.1	1.0	-55.9	-13.0	-42.9	
1663.00	-27.8	H	3.0	37.0	1.0	-63.8	-13.0	-50.8	
2494.50	-23.4	H	3.0	36.4	1.0	-58.8	-13.0	-45.8	
3326.00	-20.4	H	3.0	36.1	1.0	-55.5	-13.0	-42.5	
High Ch, 846.5									
1693.00	-26.7	V	3.0	37.0	1.0	-62.6	-13.0	-49.6	
2539.50	-22.0	V	3.0	36.4	1.0	-57.4	-13.0	-44.4	
3386.00	-20.4	V	3.0	36.1	1.0	-55.5	-13.0	-42.5	
1693.00	-27.2	H	3.0	37.0	1.0	-63.2	-13.0	-50.2	
2539.50	-23.8	H	3.0	36.4	1.0	-59.2	-13.0	-46.2	
3386.00	-20.5	H	3.0	36.1	1.0	-55.6	-13.0	-42.6	

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I21523							
Date:		8/21/2015							
Test Engineer:		R.Z							
Configuration:		EUT, AC Adapter, Headset							
Location:		Chamber A							
Mode:		LTE_QPSK Band 26 Harmonics, 5MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 816.5									
Band	1633.00	-27.3	V	3.0	37.0	1.0	-63.4	-13.0	-50.4
	2449.50	-22.6	V	3.0	36.4	1.0	-58.0	-13.0	-45.0
LTE26	3266.00	-20.1	V	3.0	36.2	1.0	-55.2	-13.0	-42.2
	1633.00	-27.9	H	3.0	37.0	1.0	-64.0	-13.0	-51.0
	2449.50	-23.2	H	3.0	36.4	1.0	-58.7	-13.0	-45.7
5MHz	3266.00	-20.2	H	3.0	36.2	1.0	-55.4	-13.0	-42.4
Mid Ch, 831.5									
QPSK	1663.00	-27.3	V	3.0	37.0	1.0	-63.3	-13.0	-50.3
	2494.50	-22.5	V	3.0	36.4	1.0	-57.9	-13.0	-44.9
	3326.00	-21.1	V	3.0	36.1	1.0	-56.3	-13.0	-43.3
	1663.00	-27.9	H	3.0	37.0	1.0	-63.9	-13.0	-50.9
	2494.50	-24.1	H	3.0	36.4	1.0	-59.6	-13.0	-46.6
	3326.00	-21.7	H	3.0	36.1	1.0	-56.8	-13.0	-43.8
High Ch, 846.5									
	1693.00	-26.4	V	3.0	37.0	1.0	-62.3	-13.0	-49.3
	2539.50	-22.3	V	3.0	36.4	1.0	-57.7	-13.0	-44.7
	3386.00	-20.9	V	3.0	36.1	1.0	-56.0	-13.0	-43.0
	1693.00	-27.4	H	3.0	37.0	1.0	-63.4	-13.0	-50.4
	2539.50	-24.3	H	3.0	36.4	1.0	-59.7	-13.0	-46.7
	3386.00	-20.7	H	3.0	36.1	1.0	-55.8	-13.0	-42.8

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I21523							
Date:		8/21/2015							
Test Engineer:		R.Z							
Configuration:		EUT, AC Adapter, Headset							
Location:		Chamber A							
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	-27.4	V	3.0	37.0	1.0	-63.4	-13.0	-50.4	
2446.50	-22.5	V	3.0	36.4	1.0	-58.0	-13.0	-45.0	
LTE26									
3262.00	-19.3	V	3.0	36.2	1.0	-54.5	-13.0	-41.5	
1631.00	-27.4	H	3.0	37.0	1.0	-63.5	-13.0	-50.5	
2446.50	-24.1	H	3.0	36.4	1.0	-59.6	-13.0	-46.6	
3MHz									
3262.00	0.0	H	3.0	36.2	1.0	-35.2	-13.0	-22.2	
16QAM									
Mid Ch, 831.5									
1663.00	-27.1	V	3.0	37.0	1.0	-63.1	-13.0	-50.1	
2494.50	-22.7	V	3.0	36.4	1.0	-58.1	-13.0	-45.1	
3326.00	-20.6	V	3.0	36.1	1.0	-55.8	-13.0	-42.8	
1663.00	-27.3	H	3.0	37.0	1.0	-63.3	-13.0	-50.3	
2494.50	-24.4	H	3.0	36.4	1.0	-59.9	-13.0	-46.9	
3326.00	-21.0	H	3.0	36.1	1.0	-56.1	-13.0	-43.1	
High Ch, 847.5									
1695.00	-26.4	V	3.0	37.0	1.0	-62.3	-13.0	-49.3	
2542.50	-22.4	V	3.0	36.4	1.0	-57.8	-13.0	-44.8	
3390.00	-20.6	V	3.0	36.1	1.0	-55.7	-13.0	-42.7	
1695.00	-27.1	H	3.0	37.0	1.0	-63.1	-13.0	-50.1	
2542.50	-24.2	H	3.0	36.4	1.0	-59.6	-13.0	-46.6	
3390.00	-21.3	H	3.0	36.1	1.0	-56.4	-13.0	-43.4	

Compliance Certification Services									
Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I21523							
Date:		8/21/2015							
Test Engineer:		R.Z							
Configuration:		EUT, AC Adapter, Headset							
Location:		Chamber A							
Mode:		LTE_QPSK Band 26 Harmonics, 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	-27.3	V	3.0	37.0	1.0	-63.3	-13.0	-50.3	
2446.50	-22.6	V	3.0	36.4	1.0	-58.0	-13.0	-45.0	
LTE26									
3262.00	-18.6	V	3.0	36.2	1.0	-53.8	-13.0	-40.8	
1631.00	-25.9	H	3.0	37.0	1.0	-62.0	-13.0	-49.0	
2446.50	-23.8	H	3.0	36.4	1.0	-59.2	-13.0	-46.2	
3MHz									
3262.00	-19.9	H	3.0	36.2	1.0	-55.1	-13.0	-42.1	
Mid Ch, 831.5									
1663.00	-27.0	V	3.0	37.0	1.0	-63.0	-13.0	-50.0	
2494.50	-23.0	V	3.0	36.4	1.0	-58.4	-13.0	-45.4	
3326.00	-20.9	V	3.0	36.1	1.0	-56.1	-13.0	-43.1	
1663.00	-27.2	H	3.0	37.0	1.0	-63.2	-13.0	-50.2	
2494.50	-24.7	H	3.0	36.4	1.0	-60.2	-13.0	-47.2	
3326.00	-21.5	H	3.0	36.1	1.0	-56.6	-13.0	-43.6	
QPSK									
High Ch, 847.5									
1695.00	-26.2	V	3.0	37.0	1.0	-62.2	-13.0	-49.2	
2542.50	-23.4	V	3.0	36.4	1.0	-58.8	-13.0	-45.8	
3390.00	-21.0	V	3.0	36.1	1.0	-56.1	-13.0	-43.1	
1695.00	-27.0	H	3.0	37.0	1.0	-63.0	-13.0	-50.0	
2542.50	-24.7	H	3.0	36.4	1.0	-60.1	-13.0	-47.1	
3390.00	-21.9	H	3.0	36.1	1.0	-57.0	-13.0	-44.0	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG							
Project #:		15I21523							
Date:		8/26/2015							
Test Engineer:		A. Escamilla							
Configuration:		EUT, AC Adapter, Headset							
Location:		Chamber C							
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	-27.3	V	3.0	37.1	1.0	-63.3	-13.0	-50.3	
2444.10	-22.9	V	3.0	36.4	1.0	-58.3	-13.0	-45.3	
3258.80	-21.6	V	3.0	36.2	1.0	-56.8	-13.0	-43.8	
1629.40	-27.8	H	3.0	37.1	1.0	-63.8	-13.0	-50.8	
2444.10	-25.0	H	3.0	36.4	1.0	-60.5	-13.0	-47.5	
3258.80	-21.2	H	3.0	36.2	1.0	-56.4	-13.0	-43.4	
Mid Ch, 831.5									
1663.00	-27.0	V	3.0	37.0	1.0	-63.1	-13.0	-50.1	
2494.50	-22.8	V	3.0	36.4	1.0	-58.2	-13.0	-45.2	
3326.00	-21.2	V	3.0	36.1	1.0	-56.3	-13.0	-43.3	
1663.00	-26.7	H	3.0	37.0	1.0	-62.7	-13.0	-49.7	
2494.50	-25.0	H	3.0	36.4	1.0	-60.4	-13.0	-47.4	
3326.00	-21.2	H	3.0	36.1	1.0	-56.3	-13.0	-43.3	
High Ch, 848.3									
1696.60	-26.8	V	3.0	37.0	1.0	-62.8	-13.0	-49.8	
2544.90	-23.0	V	3.0	36.4	1.0	-58.4	-13.0	-45.4	
3393.20	-21.4	V	3.0	36.1	1.0	-56.4	-13.0	-43.4	
1696.60	-27.3	H	3.0	37.0	1.0	-63.3	-13.0	-50.3	
2544.90	-24.6	H	3.0	36.4	1.0	-60.0	-13.0	-47.0	
3393.20	-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							
Project #:		15I21523							
Date:		8/26/2015							
Test Engineer:		A. Escamilla							
Configuration:		EUT, AC Adapter, Headset							
Location:		Chamber C							
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	-27.1	V	3.0	37.1	1.0	-63.2	-13.0	-50.2	
2444.10	-23.1	V	3.0	36.4	1.0	-58.5	-13.0	-45.5	
3258.80	-21.4	V	3.0	36.2	1.0	-56.5	-13.0	-43.5	
1629.40	-27.6	H	3.0	37.1	1.0	-63.7	-13.0	-50.7	
2444.10	-24.7	H	3.0	36.4	1.0	-60.1	-13.0	-47.1	
3258.80	-21.3	H	3.0	36.2	1.0	-56.5	-13.0	-43.5	
Mid Ch, 831.5									
1663.00	-27.1	V	3.0	37.0	1.0	-63.1	-13.0	-50.1	
2494.50	-22.5	V	3.0	36.4	1.0	-57.9	-13.0	-44.9	
3326.00	-21.4	V	3.0	36.1	1.0	-56.5	-13.0	-43.5	
1663.00	-26.7	H	3.0	37.0	1.0	-62.7	-13.0	-49.7	
2494.50	-24.8	H	3.0	36.4	1.0	-60.3	-13.0	-47.3	
3326.00	-20.9	H	3.0	36.1	1.0	-56.0	-13.0	-43.0	
High Ch, 848.3									
1696.60	-26.7	V	3.0	37.0	1.0	-62.7	-13.0	-49.7	
2544.90	-22.7	V	3.0	36.4	1.0	-58.2	-13.0	-45.2	
3393.20	-21.3	V	3.0	36.1	1.0	-56.4	-13.0	-43.4	
1696.60	-27.7	H	3.0	37.0	1.0	-63.6	-13.0	-50.6	
2544.90	-24.5	H	3.0	36.4	1.0	-59.9	-13.0	-46.9	
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 Electronics							
Project #:		15I21523							
Date:		8/19/2015							
Test Engineer:		A. Escamilla							
Configuration:		EUT, AC Adapter, Headset							
Location:		Chamber C							
Mode:		LTE_16QAM Band 41 Harmonics, 20MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 2506									
5012.00	-16.8	V	3.0	35.5	1.0	-51.2	-25.0	-26.2	
7518.00	-9.8	V	3.0	35.7	1.0	-44.6	-25.0	-19.6	
10024.00	-2.1	V	3.0	36.0	1.0	-37.2	-25.0	-12.2	
LTE41									
5012.00	-16.8	H	3.0	35.5	1.0	-51.2	-25.0	-26.2	
7518.00	-11.3	H	3.0	35.7	1.0	-46.1	-25.0	-21.1	
10024.00	-9.9	H	3.0	36.0	1.0	-44.9	-25.0	-19.9	
20MHz									
Mid Ch, 2593									
5186.00	-16.3	V	3.0	35.4	1.0	-50.7	-25.0	-25.7	
7779.00	-9.0	V	3.0	35.8	1.0	-43.8	-25.0	-18.8	
10372.00	-1.0	V	3.0	35.8	1.0	-35.9	-25.0	-10.9	
16QAM									
5186.00	-16.3	H	3.0	35.4	1.0	-50.7	-25.0	-25.7	
7779.00	-10.8	H	3.0	35.8	1.0	-45.6	-25.0	-20.6	
10372.00	-6.3	H	3.0	35.8	1.0	-41.1	-25.0	-16.1	
High Ch, 2680									
5360.00	-16.8	V	3.0	35.4	1.0	-51.2	-25.0	-26.2	
8040.00	-11.5	V	3.0	35.8	1.0	-46.3	-25.0	-21.3	
10720.00	-6.1	V	3.0	35.7	1.0	-40.7	-25.0	-15.7	
5360.00	-15.8	H	3.0	35.4	1.0	-50.2	-25.0	-25.2	
8040.00	-11.2	H	3.0	35.8	1.0	-46.0	-25.0	-21.0	
10720.00	-2.4	H	3.0	35.7	1.0	-37.1	-25.0	-12.1	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement											
Company:		LG Electronics									
Project #:		15I21523									
Date:		8/19/2015									
Test Engineer:		A. Escamilla									
Configuration:		EUT, AC Adapter, Headset									
Location:		Chamber C									
Mode:		LTE_QPSK Band 41 Harmonics, 20MHz Bandwidth									
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	
Band LTE41 20MHz QPSK	Low Ch, 2506										
		5012.00	-16.4	V	3.0	35.5	1.0	-50.9	-25.0	-25.9	
		7518.00	-11.4	V	3.0	35.7	1.0	-46.1	-25.0	-21.1	
		10024.00	-6.7	V	3.0	36.0	1.0	-41.7	-25.0	-16.7	
		5012.00	-16.5	H	3.0	35.5	1.0	-50.9	-25.0	-25.9	
		7518.00	-11.1	H	3.0	35.7	1.0	-45.8	-25.0	-20.8	
		10024.00	-10.3	H	3.0	36.0	1.0	-45.3	-25.0	-20.3	
	Mid Ch, 2593										
		5186.00	-16.0	V	3.0	35.4	1.0	-50.5	-25.0	-25.5	
		7779.00	-11.1	V	3.0	35.8	1.0	-45.9	-25.0	-20.9	
		10372.00	-5.5	V	3.0	35.8	1.0	-40.4	-25.0	-15.4	
		5186.00	-16.1	H	3.0	35.4	1.0	-50.6	-25.0	-25.6	
	7779.00	-10.7	H	3.0	35.8	1.0	-45.5	-25.0	-20.5		
	10372.00	-8.5	H	3.0	35.8	1.0	-43.4	-25.0	-18.4		
High Ch, 2680											
	5360.00	-16.5	V	3.0	35.4	1.0	-51.0	-25.0	-26.0		
	8040.00	-11.7	V	3.0	35.8	1.0	-46.5	-25.0	-21.5		
	10720.00	-8.0	V	3.0	35.7	1.0	-42.7	-25.0	-17.7		
	5360.00	-16.3	H	3.0	35.4	1.0	-50.8	-25.0	-25.8		
	8040.00	-11.5	H	3.0	35.8	1.0	-46.3	-25.0	-21.3		
	10720.00	-7.1	H	3.0	35.7	1.0	-41.8	-25.0	-16.8		

UL Verification Services, Inc.									
Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I21523							
Date:		8/19/2015							
Test Engineer:		A. Escamilla							
Configuration:		EUT, AC Adapter, Headset							
Location:		Chamber C							
Mode:		LTE_16QAM Band 41 Harmonics, 15MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 2503.5									
5007.00	-17.2	V	3.0	35.5	1.0	-51.7	-25.0	-26.7	
7510.50	-11.9	V	3.0	35.7	1.0	-46.7	-25.0	-21.7	
10014.00	-4.4	V	3.0	36.0	1.0	-39.5	-25.0	-14.5	
5007.00	-16.5	H	3.0	35.5	1.0	-51.0	-25.0	-26.0	
7510.50	-11.7	H	3.0	35.7	1.0	-46.4	-25.0	-21.4	
10014.00	-9.7	H	3.0	36.0	1.0	-44.7	-25.0	-19.7	
Mid Ch, 2593									
5186.00	-16.7	V	3.0	35.4	1.0	-51.1	-25.0	-26.1	
7779.00	-11.2	V	3.0	35.8	1.0	-46.0	-25.0	-21.0	
10372.00	-3.5	V	3.0	35.8	1.0	-38.3	-25.0	-13.3	
5186.00	-16.4	H	3.0	35.4	1.0	-50.8	-25.0	-25.8	
7779.00	-11.0	H	3.0	35.8	1.0	-45.8	-25.0	-20.8	
10372.00	-6.5	H	3.0	35.8	1.0	-41.3	-25.0	-16.3	
High Ch, 2682.5									
5365.00	-16.6	V	3.0	35.4	1.0	-51.1	-25.0	-26.1	
8047.50	-12.1	V	3.0	35.8	1.0	-46.9	-25.0	-21.9	
10730.00	-8.2	V	3.0	35.7	1.0	-42.9	-25.0	-17.9	
5365.00	-16.3	H	3.0	35.4	1.0	-50.7	-25.0	-25.7	
8047.50	-11.0	H	3.0	35.8	1.0	-45.8	-25.0	-20.8	
10730.00	-5.6	H	3.0	35.7	1.0	-40.3	-25.0	-15.3	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I21523							
Date:		8/19/2015							
Test Engineer:		A. Escamilla							
Configuration:		EUT, AC Adapter, Headset							
Location:		Chamber C							
Mode:		LTE_QPSK Band 41 Harmonics, 15MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 2503.5									
Band	5007.00	-16.9	V	3.0	35.5	1.0	-51.3	-25.0	-26.3
	7510.50	-11.2	V	3.0	35.7	1.0	-46.0	-25.0	-21.0
LTE41	10014.00	-5.8	V	3.0	36.0	1.0	-40.8	-25.0	-15.8
	5007.00	-15.6	H	3.0	35.5	1.0	-50.0	-25.0	-25.0
	7510.50	-11.3	H	3.0	35.7	1.0	-46.1	-25.0	-21.1
15MHz	10014.00	-9.8	H	3.0	36.0	1.0	-44.8	-25.0	-19.8
Mid Ch, 2593									
QPSK	5186.00	-16.6	V	3.0	35.4	1.0	-51.0	-25.0	-26.0
	7779.00	-12.0	V	3.0	35.8	1.0	-46.8	-25.0	-21.8
	10372.00	-5.0	V	3.0	35.8	1.0	-39.8	-25.0	-14.8
	5186.00	-15.9	H	3.0	35.4	1.0	-50.3	-25.0	-25.3
	7779.00	-11.0	H	3.0	35.8	1.0	-45.7	-25.0	-20.7
	10372.00	-7.8	H	3.0	35.8	1.0	-42.6	-25.0	-17.6
High Ch, 2682.5									
	5365.00	-16.7	V	3.0	35.4	1.0	-51.2	-25.0	-26.2
	8047.50	-11.8	V	3.0	35.8	1.0	-46.6	-25.0	-21.6
	10730.00	-8.8	V	3.0	35.7	1.0	-43.5	-25.0	-18.5
	5365.00	-15.7	H	3.0	35.4	1.0	-50.1	-25.0	-25.1
	8047.50	-11.0	H	3.0	35.8	1.0	-45.8	-25.0	-20.8
	10730.00	-7.2	H	3.0	35.7	1.0	-41.9	-25.0	-16.9

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I21523							
Date:		8/19/2015							
Test Engineer:		A. Escamilla							
Configuration:		EUT, AC Adapter, Headset							
Location:		Chamber C							
Mode:		LTE_16QAM Band 41 Harmonics, 10MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 2501									
Band	5002.00	-16.8	V	3.0	35.5	1.0	-51.3	-25.0	-26.3
	7503.00	-11.0	V	3.0	35.7	1.0	-45.7	-25.0	-20.7
LTE41	10004.00	-10.7	V	3.0	36.0	1.0	-45.7	-25.0	-20.7
	5002.00	-16.2	H	3.0	35.5	1.0	-50.7	-25.0	-25.7
	7503.00	-11.0	H	3.0	35.7	1.0	-45.7	-25.0	-20.7
10MHz	10004.00	-7.7	H	3.0	36.0	1.0	-42.8	-25.0	-17.8
Mid Ch, 2593									
16QAM	5186.00	-16.5	V	3.0	35.4	1.0	-50.9	-25.0	-25.9
	7779.00	-10.2	V	3.0	35.8	1.0	-44.9	-25.0	-19.9
	10372.00	-7.6	V	3.0	35.8	1.0	-42.5	-25.0	-17.5
	5186.00	-15.9	H	3.0	35.4	1.0	-50.3	-25.0	-25.3
	7779.00	-9.7	H	3.0	35.8	1.0	-44.5	-25.0	-19.5
	10372.00	-9.4	H	3.0	35.8	1.0	-44.3	-25.0	-19.3
High Ch, 2685									
	5370.00	-15.7	V	3.0	35.4	1.0	-50.2	-25.0	-25.2
	8055.00	-12.1	V	3.0	35.8	1.0	-46.9	-25.0	-21.9
	10740.00	-2.2	V	3.0	35.7	1.0	-36.9	-25.0	-11.9
	5370.00	-16.4	H	3.0	35.4	1.0	-50.9	-25.0	-25.9
	8055.00	-11.3	H	3.0	35.8	1.0	-46.1	-25.0	-21.1
	10740.00	-10.1	H	3.0	35.7	1.0	-44.8	-25.0	-19.8

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I21523							
Date:		8/19/2015							
Test Engineer:		A. Escamilla							
Configuration:		EUT, AC Adapter, Headset							
Location:		Chamber C							
Mode:		LTE_QPSK Band 41 Harmonics, 10MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 2501									
Band	5002.00	-17.2	V	3.0	35.5	1.0	-51.6	-25.0	-26.6
	7503.00	-11.1	V	3.0	35.7	1.0	-45.8	-25.0	-20.8
LTE41	10004.00	-10.1	V	3.0	36.0	1.0	-45.2	-25.0	-20.2
	5002.00	-16.5	H	3.0	35.5	1.0	-50.9	-25.0	-25.9
	7503.00	-10.5	H	3.0	35.7	1.0	-45.3	-25.0	-20.3
10MHz	10004.00	-8.1	H	3.0	36.0	1.0	-43.1	-25.0	-18.1
Mid Ch, 2593									
QPSK	5186.00	-16.3	V	3.0	35.4	1.0	-50.7	-25.0	-25.7
	7779.00	-10.2	V	3.0	35.8	1.0	-45.0	-25.0	-20.0
	10372.00	-8.6	V	3.0	35.8	1.0	-43.4	-25.0	-18.4
	5186.00	-15.6	H	3.0	35.4	1.0	-50.0	-25.0	-25.0
	7779.00	-9.2	H	3.0	35.8	1.0	-43.9	-25.0	-18.9
	10372.00	-9.1	H	3.0	35.8	1.0	-44.0	-25.0	-19.0
High Ch, 2685									
	5370.00	-15.9	V	3.0	35.4	1.0	-50.4	-25.0	-25.4
	8055.00	-12.0	V	3.0	35.8	1.0	-46.8	-25.0	-21.8
	10740.00	-2.9	V	3.0	35.7	1.0	-37.6	-25.0	-12.6
	5370.00	-16.2	H	3.0	35.4	1.0	-50.6	-25.0	-25.6
	8055.00	-11.1	H	3.0	35.8	1.0	-45.9	-25.0	-20.9
	10740.00	-9.7	H	3.0	35.7	1.0	-44.3	-25.0	-19.3

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I21523							
Date:		8/19/2015							
Test Engineer:		A. Escamilla							
Configuration:		EUT, AC Adapter, Headset							
Location:		Chamber C							
Mode:		LTE_16QAM Band 41 Harmonics, 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	-16.1	V	3.0	35.5	1.0	-50.6	-25.0	-25.6
	7495.50	-12.9	V	3.0	35.7	1.0	-47.7	-25.0	-22.7
LTE41	9994.00	-6.3	V	3.0	36.0	1.0	-41.3	-25.0	-16.3
	4997.00	-17.0	H	3.0	35.5	1.0	-51.5	-25.0	-26.5
	7495.50	-11.4	H	3.0	35.7	1.0	-46.2	-25.0	-21.2
5MHz	9994.00	-10.0	H	3.0	36.0	1.0	-45.0	-25.0	-20.0
Mid Ch, 2593									
16QAM	5186.00	-16.8	V	3.0	35.4	1.0	-51.3	-25.0	-26.3
	7779.00	-10.7	V	3.0	35.8	1.0	-45.4	-25.0	-20.4
	10372.00	-2.8	V	3.0	35.8	1.0	-37.6	-25.0	-12.6
	5186.00	-16.2	H	3.0	35.4	1.0	-50.6	-25.0	-25.6
	7779.00	-9.8	H	3.0	35.8	1.0	-44.6	-25.0	-19.6
	10372.00	-9.1	H	3.0	35.8	1.0	-44.0	-25.0	-19.0
High Ch, 2687.5									
	5375.00	-16.0	V	3.0	35.4	1.0	-50.4	-25.0	-25.4
	8062.50	-12.5	V	3.0	35.8	1.0	-47.3	-25.0	-22.3
	10750.00	-5.0	V	3.0	35.7	1.0	-39.7	-25.0	-14.7
	5375.00	-16.5	H	3.0	35.4	1.0	-50.9	-25.0	-25.9
	8062.50	-11.0	H	3.0	35.8	1.0	-45.8	-25.0	-20.8
	10750.00	-9.9	H	3.0	35.7	1.0	-44.6	-25.0	-19.6

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I21523							
Date:		8/19/2015							
Test Engineer:		A. Escamilla							
Configuration:		EUT, AC Adapter, Headset							
Location:		Chamber C							
Mode:		LTE_QPSK Band 41 Harmonics, 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	-12.9	V	3.0	35.7	1.0	-47.7	-25.0	-22.7
LTE41	9994.00	-4.7	V	3.0	36.0	1.0	-39.7	-25.0	-14.7
	4997.00	-16.4	H	3.0	35.5	1.0	-50.9	-25.0	-25.9
	7495.50	-11.3	H	3.0	35.7	1.0	-46.1	-25.0	-21.1
5MHz	9994.00	-10.5	H	3.0	36.0	1.0	-45.5	-25.0	-20.5
Mid Ch, 2593									
	5186.00	-16.4	V	3.0	35.4	1.0	-50.8	-25.0	-25.8
QPSK	7779.00	-10.7	V	3.0	35.8	1.0	-45.5	-25.0	-20.5
	10372.00	-3.9	V	3.0	35.8	1.0	-38.8	-25.0	-13.8
	5186.00	-16.1	H	3.0	35.4	1.0	-50.6	-25.0	-25.6
	7779.00	-10.0	H	3.0	35.8	1.0	-44.7	-25.0	-19.7
	10372.00	-9.2	H	3.0	35.8	1.0	-44.0	-25.0	-19.0
High Ch, 2687.5									
	5375.00	-15.5	V	3.0	35.4	1.0	-49.9	-25.0	-24.9
	8062.50	-12.0	V	3.0	35.8	1.0	-46.8	-25.0	-21.8
	10750.00	-5.3	V	3.0	35.7	1.0	-40.0	-25.0	-15.0
	5375.00	-16.3	H	3.0	35.4	1.0	-50.8	-25.0	-25.8
	8062.50	-11.4	H	3.0	35.8	1.0	-46.2	-25.0	-21.2
	10750.00	-9.7	H	3.0	35.7	1.0	-44.4	-25.0	-19.4