

WCDMA

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG							
Project #:		15I21552							
Date:		8/27/2015							
Test Engineer:		D. Mun & J.Ko							
Configuration:		EUT + Earphones + AC Adapter							
Location:		Chamber B							
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	-19.3	V	3.0	35.9	1.0	-54.2	-13.0	-41.2
	5557.20	-27.2	V	3.0	35.5	1.0	-61.7	-13.0	-48.7
Band 2	7409.60	-26.9	V	3.0	35.7	1.0	-61.7	-13.0	-48.7
	3704.80	-1.5	H	3.0	35.9	1.0	-36.4	-13.0	-23.4
	5557.20	-18.7	H	3.0	35.5	1.0	-53.1	-13.0	-40.1
HSDPA	7409.60	-25.1	H	3.0	35.7	1.0	-59.9	-13.0	-46.9
Mid Ch, 1880									
	3760.00	-19.8	V	3.0	35.8	1.0	-54.6	-13.0	-41.6
	5640.00	-27.4	V	3.0	35.5	1.0	-61.9	-13.0	-48.9
	7520.00	-26.6	V	3.0	35.7	1.0	-61.3	-13.0	-48.3
	3760.00	-3.9	H	3.0	35.8	1.0	-38.7	-13.0	-25.7
	5640.00	-20.8	H	3.0	35.5	1.0	-55.2	-13.0	-42.2
	7520.00	-24.9	H	3.0	35.7	1.0	-59.6	-13.0	-46.6
High Ch, 1907.6									
	3815.20	-20.5	V	3.0	35.8	1.0	-55.3	-13.0	-42.3
	5722.80	-28.4	V	3.0	35.5	1.0	-62.9	-13.0	-49.9
	7630.40	-27.2	V	3.0	35.8	1.0	-61.9	-13.0	-48.9
	3815.20	-6.2	H	3.0	35.8	1.0	-40.9	-13.0	-27.9
	5722.80	-24.5	H	3.0	35.5	1.0	-59.0	-13.0	-46.0
	7630.40	-24.6	H	3.0	35.8	1.0	-59.4	-13.0	-46.4

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG							
Project #:		15I21552							
Date:		8/27/2015							
Test Engineer:		D. Mun & J.Ko							
Configuration:		EUT + Earphones + AC Adapter							
Location:		Chamber B							
Mode:		Rel99 Band 2 Harmonics							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band									
Low Ch, 1852.4									
3704.80	-19.6	V	3.0	35.9	1.0	-54.5	-13.0	-41.5	
5557.20	-25.9	V	3.0	35.5	1.0	-60.4	-13.0	-47.4	
Band 2									
7409.60	-26.8	V	3.0	35.7	1.0	-61.5	-13.0	-48.5	
3704.80	-0.1	H	3.0	35.9	1.0	-34.9	-13.0	-21.9	
5557.20	-18.9	H	3.0	35.5	1.0	-53.4	-13.0	-40.4	
REL99									
7409.60	-24.9	H	3.0	35.7	1.0	-59.6	-13.0	-46.6	
Mid Ch, 1880									
3760.00	-21.6	V	3.0	35.8	1.0	-56.4	-13.0	-43.4	
5640.00	-27.2	V	3.0	35.5	1.0	-61.7	-13.0	-48.7	
7520.00	-27.1	V	3.0	35.7	1.0	-61.8	-13.0	-48.8	
3760.00	-3.6	H	3.0	35.8	1.0	-38.4	-13.0	-25.4	
5640.00	-19.7	H	3.0	35.5	1.0	-54.2	-13.0	-41.2	
7520.00	-23.5	H	3.0	35.7	1.0	-58.2	-13.0	-45.2	
High Ch, 1907.6									
3815.20	-19.8	V	3.0	35.8	1.0	-54.6	-13.0	-41.6	
5722.80	-25.0	V	3.0	35.5	1.0	-59.5	-13.0	-46.5	
7630.40	-27.4	V	3.0	35.8	1.0	-62.2	-13.0	-49.2	
3815.20	-5.5	H	3.0	35.8	1.0	-40.2	-13.0	-27.2	
5722.80	-26.2	H	3.0	35.5	1.0	-60.7	-13.0	-47.7	
7630.40	0.0	H	3.0	35.8	1.0	-34.8	-13.0	-21.8	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company: LG Project #: 15I21552 Date: 8/27/2015 Test Engineer: D. Mun & J. Ko Configuration: EUT + Earphones + AC Adapter Location: Chamber B 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	-35.5	V	3.0	36.1	1.0	-70.5	-13.0	-57.5
	5137.20	-28.2	V	3.0	35.4	1.0	-62.6	-13.0	-49.6
Band 4	6849.60	-27.0	V	3.0	35.7	1.0	-61.7	-13.0	-48.7
	3424.80	-6.0	H	3.0	36.1	1.0	-41.1	-13.0	-28.1
	5137.20	-12.8	H	3.0	35.4	1.0	-47.2	-13.0	-34.2
HSDPA	6849.60	-25.8	H	3.0	35.7	1.0	-60.4	-13.0	-47.4
Mid Ch, 1732.6									
	3465.20	-31.2	V	3.0	36.0	1.0	-66.2	-13.0	-53.2
	5197.80	-28.3	V	3.0	35.4	1.0	-62.7	-13.0	-49.7
	6930.40	-26.7	V	3.0	35.7	1.0	-61.3	-13.0	-48.3
	3465.20	-2.8	H	3.0	36.0	1.0	-37.8	-13.0	-24.8
	5197.80	-8.1	H	3.0	35.4	1.0	-42.5	-13.0	-29.5
	6930.40	-24.8	H	3.0	35.7	1.0	-59.4	-13.0	-46.4
High Ch, 1752.6									
	3505.20	-5.5	V	3.0	36.0	1.0	-40.5	-13.0	-27.5
	5257.80	1.4	V	3.0	35.4	1.0	-33.0	-13.0	-20.0
	7010.40	3.5	V	3.0	35.7	1.0	-31.2	-13.0	-18.2
	3505.20	3.4	H	3.0	36.0	1.0	-31.6	-13.0	-18.6
	5257.80	3.9	H	3.0	35.4	1.0	-30.6	-13.0	-17.6
	7010.40	5.8	H	3.0	35.7	1.0	-28.9	-13.0	-15.9

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company: LG Project #: 15I21552 Date: 8/27/2015 Test Engineer: D. Mun & J. Ko Configuration: EUT + Earphones + AC Adapter Location: Chamber B Mode: Rel. 99 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	-34.1	V	3.0	36.1	1.0	-69.2	-13.0	-56.2	
5137.20	-26.6	V	3.0	35.4	1.0	-61.1	-13.0	-48.1	
Band 4 6849.60	-25.6	V	3.0	35.7	1.0	-60.2	-13.0	-47.2	
3424.80	-8.0	H	3.0	36.1	1.0	-43.0	-13.0	-30.0	
REL99 5137.20	-12.7	H	3.0	35.4	1.0	-47.2	-13.0	-34.2	
6849.60	-25.0	H	3.0	35.7	1.0	-59.6	-13.0	-46.6	
Mid Ch, 1732.6									
3465.20	-30.2	V	3.0	36.0	1.0	-65.2	-13.0	-52.2	
5197.80	-27.4	V	3.0	35.4	1.0	-61.9	-13.0	-48.9	
6930.40	-25.6	V	3.0	35.7	1.0	-60.3	-13.0	-47.3	
3465.20	-3.7	H	3.0	36.0	1.0	-38.7	-13.0	-25.7	
5197.80	-7.2	H	3.0	35.4	1.0	-41.6	-13.0	-28.6	
6930.40	-24.2	H	3.0	35.7	1.0	-58.9	-13.0	-45.9	
High Ch, 1752.6									
3505.20	-5.6	V	3.0	36.0	1.0	-40.6	-13.0	-27.6	
5257.80	2.6	V	3.0	35.4	1.0	-31.8	-13.0	-18.8	
7010.40	-6.5	V	3.0	35.7	1.0	-41.2	-13.0	-28.2	
3505.20	7.3	H	3.0	36.0	1.0	-42.3	-13.0	-29.3	
5257.80	3.2	H	3.0	35.4	1.0	-31.2	-13.0	-18.2	
7010.40	6.7	H	3.0	35.7	1.0	-28.0	-13.0	-15.0	

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Company:		LG							
Project #:		15I21552							
Date:		8/27/2015							
Test Engineer:		D. Mun & J. Ko							
Configuration:		EUT + Earphones + AC Adapter							
Location:		Chamber B							
Mode:		HSDPA Band 5 Harmonics							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band									
Low Ch, 826.4									
1652.80	-4.7	V	3.0	37.0	1.0	-40.8	-13.0	-27.8	
2479.20	-19.7	V	3.0	36.4	1.0	-55.1	-13.0	-42.1	
Band 5									
3305.60	-22.0	V	3.0	36.1	1.0	-57.2	-13.0	-44.2	
1652.80	-7.6	H	3.0	37.0	1.0	-43.6	-13.0	-30.6	
2479.20	-25.2	H	3.0	36.4	1.0	-60.6	-13.0	-47.6	
3305.60	-22.4	H	3.0	36.1	1.0	-57.6	-13.0	-44.6	
HSDPA									
Mid Ch, 836.6									
1673.20	-10.8	V	3.0	37.0	1.0	-46.8	-13.0	-33.8	
2509.80	-23.8	V	3.0	36.4	1.0	-59.2	-13.0	-46.2	
3346.40	-21.6	V	3.0	36.1	1.0	-56.7	-13.0	-43.7	
1673.20	-15.7	H	3.0	37.0	1.0	-51.7	-13.0	-38.7	
2509.80	-25.4	H	3.0	36.4	1.0	-60.8	-13.0	-47.8	
3346.40	-22.0	H	3.0	36.1	1.0	-57.1	-13.0	-44.1	
High Ch, 846.6									
1693.20	-17.2	V	3.0	37.0	1.0	-53.2	-13.0	-40.2	
2539.80	-24.5	V	3.0	36.4	1.0	-59.9	-13.0	-46.9	
3386.40	-21.7	V	3.0	36.1	1.0	-56.8	-13.0	-43.8	
1693.20	-9.9	H	3.0	37.0	1.0	-45.9	-13.0	-32.9	
2539.80	-25.7	H	3.0	36.4	1.0	-61.1	-13.0	-48.1	
3386.40	-22.0	H	3.0	36.1	1.0	-57.1	-13.0	-44.1	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG							
Project #:		15I21552							
Date:		8/27/2015							
Test Engineer:		D. Mun & J. Ko							
Configuration:		EUT + Earphones + AC Adapter							
Location:		Chamber B							
Mode:		Rel99 Band 5 Harmonics							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band									
Low Ch, 826.4									
1652.80	1.3	V	3.0	37.0	1.0	-34.7	-13.0	-21.7	
2479.20	-15.4	V	3.0	36.4	1.0	-50.9	-13.0	-37.9	
Band 5									
3305.60	-22.1	V	3.0	36.1	1.0	-57.3	-13.0	-44.3	
1652.80	-0.7	H	3.0	37.0	1.0	-36.8	-13.0	-23.8	
2479.20	-20.6	H	3.0	36.4	1.0	-56.1	-13.0	-43.1	
REL99									
3305.60	-22.4	H	3.0	36.1	1.0	-57.5	-13.0	-44.5	
Mid Ch, 836.6									
1673.20	-12.5	V	3.0	37.0	1.0	-48.5	-13.0	-35.5	
2509.80	-23.3	V	3.0	36.4	1.0	-58.7	-13.0	-45.7	
3346.40	-21.9	V	3.0	36.1	1.0	-57.0	-13.0	-44.0	
1673.20	-16.0	H	3.0	37.0	1.0	-52.0	-13.0	-39.0	
2509.80	-26.0	H	3.0	36.4	1.0	-61.4	-13.0	-48.4	
3346.40	-22.0	H	3.0	36.1	1.0	-57.1	-13.0	-44.1	
High Ch, 846.6									
1693.20	-12.2	V	3.0	37.0	1.0	-48.2	-13.0	-35.2	
2539.80	-23.8	V	3.0	36.4	1.0	-59.2	-13.0	-46.2	
3386.40	-22.2	V	3.0	36.1	1.0	-57.3	-13.0	-44.3	
1693.20	-9.6	H	3.0	37.0	1.0	-45.6	-13.0	-32.6	
2539.80	-26.1	H	3.0	36.4	1.0	-61.5	-13.0	-48.5	
3386.40	-22.3	H	3.0	36.1	1.0	-57.4	-13.0	-44.4	

LTE Band 2

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I21552							
Date:		8/31/2015							
Test Engineer:		Charles Vergonio							
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
Band									
LTE2									
20MHz									
16QAM									
Low Ch, 1851.5									
3703.00	-13.5	V	3.0	35.9	1.0	-48.4	-13.0	-35.4	
5554.50	-14.5	V	3.0	35.5	1.0	-49.0	-13.0	-36.0	
7406.00	-11.5	V	3.0	35.7	1.0	-46.3	-13.0	-33.3	
3703.00	-17.1	H	3.0	35.9	1.0	-52.0	-13.0	-39.0	
5554.50	-13.9	H	3.0	35.5	1.0	-48.4	-13.0	-35.4	
7406.00	-11.7	H	3.0	35.7	1.0	-46.4	-13.0	-33.4	
Mid Ch, 1880									
3760.00	-18.7	V	3.0	35.8	1.0	-53.5	-13.0	-40.5	
5640.00	-14.4	V	3.0	35.5	1.0	-48.9	-13.0	-35.9	
7520.00	-12.6	V	3.0	35.7	1.0	-47.3	-13.0	-34.3	
3760.00	-18.6	H	3.0	35.8	1.0	-53.5	-13.0	-40.5	
5640.00	-13.8	H	3.0	35.5	1.0	-48.3	-13.0	-35.3	
7520.00	-12.2	H	3.0	35.7	1.0	-47.0	-13.0	-34.0	
High Ch, 1908.5									
3817.00	-17.3	V	3.0	35.8	1.0	-52.0	-13.0	-39.0	
5725.50	-14.0	V	3.0	35.5	1.0	-48.5	-13.0	-35.5	
7634.00	-12.2	V	3.0	35.8	1.0	-47.0	-13.0	-34.0	
3817.00	-17.6	H	3.0	35.8	1.0	-52.4	-13.0	-39.4	
5725.50	-13.6	H	3.0	35.5	1.0	-48.1	-13.0	-35.1	
7634.00	-11.4	H	3.0	35.8	1.0	-46.1	-13.0	-33.1	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I21552								
Date:		8/31/2015								
Test Engineer:		Charles Vergonio								
Configuration:		EUT, AC Adapter, Headset								
Location:		Chamber C								
Mode:		LTE_QPSK Band 2 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
LTE2	Low Ch, 1851.5									
	3703.00	-13.4	V	3.0	35.9	1.0	-48.2	-13.0	-35.2	
	5554.50	-14.4	V	3.0	35.5	1.0	-48.9	-13.0	-35.9	
	7406.00	-11.5	V	3.0	35.7	1.0	-46.2	-13.0	-33.2	
	3703.00	-16.9	H	3.0	35.9	1.0	-51.7	-13.0	-38.7	
	5554.50	-13.7	H	3.0	35.5	1.0	-48.2	-13.0	-35.2	
20MHz	7406.00	-11.6	H	3.0	35.7	1.0	-46.3	-13.0	-33.3	
	Mid Ch, 1880									
	3760.00	-18.6	V	3.0	35.8	1.0	-53.4	-13.0	-40.4	
	5640.00	-14.3	V	3.0	35.5	1.0	-48.8	-13.0	-35.8	
	7520.00	-12.4	V	3.0	35.7	1.0	-47.2	-13.0	-34.2	
	3760.00	-18.7	H	3.0	35.8	1.0	-53.5	-13.0	-40.5	
QPSK	5640.00	-13.7	H	3.0	35.5	1.0	-48.2	-13.0	-35.2	
	7520.00	-12.2	H	3.0	35.7	1.0	-46.9	-13.0	-33.9	
	High Ch, 1908.5									
	3817.00	-17.2	V	3.0	35.8	1.0	-52.0	-13.0	-39.0	
	5725.50	-14.0	V	3.0	35.5	1.0	-48.5	-13.0	-35.5	
	7634.00	-12.1	V	3.0	35.8	1.0	-46.9	-13.0	-33.9	
3817.00	-17.5	H	3.0	35.8	1.0	-52.3	-13.0	-39.3		
5725.50	-13.6	H	3.0	35.5	1.0	-48.1	-13.0	-35.1		
7634.00	-11.2	H	3.0	35.8	1.0	-45.9	-13.0	-32.9		

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I21552								
Date:		8/31/2015								
Test Engineer:		Charles Vergonio								
Configuration:		EUT, AC Adapter, Headset								
Location:		Chamber C								
Mode:		LTE_16QAM Band 2 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
LTE2	Low Ch, 1851.5									
	3703.00	-13.5	V	3.0	35.9	1.0	-48.3	-13.0	-35.3	
	5554.50	-14.4	V	3.0	35.5	1.0	-48.9	-13.0	-35.9	
	7406.00	-11.5	V	3.0	35.7	1.0	-46.2	-13.0	-33.2	
	3703.00	-16.9	H	3.0	35.9	1.0	-51.7	-13.0	-38.7	
	5554.50	-13.9	H	3.0	35.5	1.0	-48.4	-13.0	-35.4	
16QAM	Mid Ch, 1880									
	3760.00	-18.7	V	3.0	35.8	1.0	-53.5	-13.0	-40.5	
	5640.00	-14.4	V	3.0	35.5	1.0	-48.9	-13.0	-35.9	
	7520.00	-12.5	V	3.0	35.7	1.0	-47.3	-13.0	-34.3	
	3760.00	-18.6	H	3.0	35.8	1.0	-53.4	-13.0	-40.4	
	5640.00	-13.9	H	3.0	35.5	1.0	-48.4	-13.0	-35.4	
	7520.00	-12.3	H	3.0	35.7	1.0	-47.1	-13.0	-34.1	
	High Ch, 1908.5									
	3817.00	-17.3	V	3.0	35.8	1.0	-52.1	-13.0	-39.1	
	5725.50	-13.9	V	3.0	35.5	1.0	-48.4	-13.0	-35.4	
	7634.00	-12.2	V	3.0	35.8	1.0	-46.9	-13.0	-33.9	
	3817.00	-17.5	H	3.0	35.8	1.0	-52.2	-13.0	-39.2	
5725.50	-13.7	H	3.0	35.5	1.0	-48.2	-13.0	-35.2		
7634.00	-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 Electronics								
Project #:		15I21552								
Date:		8/31/2015								
Test Engineer:		Charles Vergonio								
Configuration:		EUT, AC Adapter, Headset								
Location:		Chamber C								
Mode:		LTE_QPSK Band 2 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
LTE2	Low Ch, 1851.5									
	3703.00	-13.3	V	3.0	35.9	1.0	-48.1	-13.0	-35.1	
	5554.50	-14.3	V	3.0	35.5	1.0	-48.8	-13.0	-35.8	
	7406.00	-11.4	V	3.0	35.7	1.0	-46.1	-13.0	-33.1	
	3703.00	-16.7	H	3.0	35.9	1.0	-51.6	-13.0	-38.6	
	5554.50	-13.8	H	3.0	35.5	1.0	-48.2	-13.0	-35.2	
QPSK	15MHz									
	7406.00									
	7406.00									
	Mid Ch, 1880									
	3760.00	-18.7	V	3.0	35.8	1.0	-53.5	-13.0	-40.5	
	5640.00	-14.3	V	3.0	35.5	1.0	-48.8	-13.0	-35.8	
	7520.00	-12.5	V	3.0	35.7	1.0	-47.2	-13.0	-34.2	
	3760.00	-18.7	H	3.0	35.8	1.0	-53.5	-13.0	-40.5	
	5640.00	-13.6	H	3.0	35.5	1.0	-48.1	-13.0	-35.1	
	7520.00	-12.2	H	3.0	35.7	1.0	-46.9	-13.0	-33.9	
	High Ch, 1908.5									
	3817.00	-17.2	V	3.0	35.8	1.0	-52.0	-13.0	-39.0	
5725.50	-14.0	V	3.0	35.5	1.0	-48.5	-13.0	-35.5		
7634.00	-12.1	V	3.0	35.8	1.0	-46.8	-13.0	-33.8		
3817.00	-17.4	H	3.0	35.8	1.0	-52.2	-13.0	-39.2		
5725.50	-13.7	H	3.0	35.5	1.0	-48.2	-13.0	-35.2		
7634.00	-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 Electronics Project #: 15I21552 Date: 8/31/2015 Test Engineer: Charles Vergonio Configuration: EUT, AC Adapter, Headset Location: Chamber C Mode: LTE_16QAM Band 2 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		
LTE2 10MHz	Low Ch, 1851.5											
		3703.00	-13.5	V	3.0	35.9	1.0	-48.4	-13.0	-35.4		
		5554.50	-14.5	V	3.0	35.5	1.0	-49.0	-13.0	-36.0		
		7406.00	-11.6	V	3.0	35.7	1.0	-46.3	-13.0	-33.3		
		3703.00	-16.9	H	3.0	35.9	1.0	-51.8	-13.0	-38.8		
		5554.50	-13.9	H	3.0	35.5	1.0	-48.4	-13.0	-35.4		
		7406.00	-11.8	H	3.0	35.7	1.0	-46.5	-13.0	-33.5		
	16QAM	Mid Ch, 1880										
			3760.00	-18.8	V	3.0	35.8	1.0	-53.6	-13.0	-40.6	
			5640.00	-14.4	V	3.0	35.5	1.0	-48.9	-13.0	-35.9	
			7520.00	-12.6	V	3.0	35.7	1.0	-47.3	-13.0	-34.3	
			3760.00	-18.6	H	3.0	35.8	1.0	-53.4	-13.0	-40.4	
		5640.00	-13.9	H	3.0	35.5	1.0	-48.3	-13.0	-35.3		
		7520.00	-12.3	H	3.0	35.7	1.0	-47.0	-13.0	-34.0		
High Ch, 1908.5												
		3817.00	-17.3	V	3.0	35.8	1.0	-52.1	-13.0	-39.1		
		5725.50	-13.9	V	3.0	35.5	1.0	-48.4	-13.0	-35.4		
		7634.00	-12.1	V	3.0	35.8	1.0	-46.9	-13.0	-33.9		
		3817.00	-17.4	H	3.0	35.8	1.0	-52.2	-13.0	-39.2		
	5725.50	-13.7	H	3.0	35.5	1.0	-48.2	-13.0	-35.2			
	7634.00	-11.0	H	3.0	35.8	1.0	-45.8	-13.0	-32.8			

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I21552								
Date:		8/31/2015								
Test Engineer:		Charles Vergonio								
Configuration:		EUT, AC Adapter, Headset								
Location:		Chamber C								
Mode:		LTE_QPSK Band 2 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
LTE2	Low Ch, 1851.5									
	3703.00	-13.4	V	3.0	35.9	1.0	-48.3	-13.0	-35.3	
	5554.50	-14.3	V	3.0	35.5	1.0	-48.7	-13.0	-35.7	
	7406.00	-11.4	V	3.0	35.7	1.0	-46.1	-13.0	-33.1	
	3703.00	-16.8	H	3.0	35.9	1.0	-51.7	-13.0	-38.7	
	5554.50	-13.9	H	3.0	35.5	1.0	-48.3	-13.0	-35.3	
QPSK	10MHz									
	7406.00									
	7406.00									
	Mid Ch, 1880									
	3760.00	-18.6	V	3.0	35.8	1.0	-53.5	-13.0	-40.5	
	5640.00	-14.3	V	3.0	35.5	1.0	-48.8	-13.0	-35.8	
	7520.00	-12.5	V	3.0	35.7	1.0	-47.2	-13.0	-34.2	
	3760.00	-18.5	H	3.0	35.8	1.0	-53.3	-13.0	-40.3	
	5640.00	-13.7	H	3.0	35.5	1.0	-48.2	-13.0	-35.2	
	7520.00	-12.2	H	3.0	35.7	1.0	-46.9	-13.0	-33.9	
	High Ch, 1908.5									
	3817.00	-17.2	V	3.0	35.8	1.0	-52.0	-13.0	-39.0	
5725.50	-13.8	V	3.0	35.5	1.0	-48.3	-13.0	-35.3		
7634.00	-12.1	V	3.0	35.8	1.0	-46.9	-13.0	-33.9		
3817.00	-17.3	H	3.0	35.8	1.0	-52.1	-13.0	-39.1		
5725.50	-13.3	H	3.0	35.5	1.0	-47.8	-13.0	-34.8		
7634.00	-11.0	H	3.0	35.8	1.0	-45.8	-13.0	-32.8		

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I21552								
Date:		8/31/2015								
Test Engineer:		Charles Vergonio								
Configuration:		EUT, AC Adapter, Headset								
Location:		Chamber C								
Mode:		LTE_16QAM Band 2 Harmonics, 5MHz Bandwidth								
Band	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 1851.5									
	3703.00	-13.5	V	3.0	35.9	1.0	-48.4	-13.0	-35.4	
LTE2	5554.50	-14.5	V	3.0	35.5	1.0	-49.0	-13.0	-36.0	
	7406.00	-11.6	V	3.0	35.7	1.0	-46.4	-13.0	-33.4	
	3703.00	-16.9	H	3.0	35.9	1.0	-51.8	-13.0	-38.8	
5MHz	5554.50	-13.9	H	3.0	35.5	1.0	-48.4	-13.0	-35.4	
	7406.00	-11.8	H	3.0	35.7	1.0	-46.5	-13.0	-33.5	
	Mid Ch, 1880									
16QAM	3760.00	-18.7	V	3.0	35.8	1.0	-53.5	-13.0	-40.5	
	5640.00	-14.2	V	3.0	35.5	1.0	-48.7	-13.0	-35.7	
	7520.00	-12.3	V	3.0	35.7	1.0	-47.0	-13.0	-34.0	
	3760.00	-18.9	H	3.0	35.8	1.0	-53.7	-13.0	-40.7	
	5640.00	-13.8	H	3.0	35.5	1.0	-48.3	-13.0	-35.3	
	7520.00	-12.2	H	3.0	35.7	1.0	-46.9	-13.0	-33.9	
	High Ch, 1908.5									
	3817.00	-17.2	V	3.0	35.8	1.0	-51.9	-13.0	-38.9	
	5725.50	-14.3	V	3.0	35.5	1.0	-48.8	-13.0	-35.8	
	7634.00	-12.2	V	3.0	35.8	1.0	-47.0	-13.0	-34.0	
	3817.00	-17.7	H	3.0	35.8	1.0	-52.4	-13.0	-39.4	
	5725.50	-13.5	H	3.0	35.5	1.0	-48.0	-13.0	-35.0	
	7634.00	-11.3	H	3.0	35.8	1.0	-46.0	-13.0	-33.0	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I21552								
Date:		8/31/2015								
Test Engineer:		Charles Vergonio								
Configuration:		EUT, AC Adapter, Headset								
Location:		Chamber C								
Mode:		LTE_QPSK Band 2 Harmonics, 5MHz Bandwidth								
Band	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 1851.5									
	3703.00	-13.4	V	3.0	35.9	1.0	-48.3	-13.0	-35.3	
LTE2	5554.50	-14.3	V	3.0	35.5	1.0	-48.8	-13.0	-35.8	
	7406.00	-11.4	V	3.0	35.7	1.0	-46.2	-13.0	-33.2	
	3703.00	-16.8	H	3.0	35.9	1.0	-51.6	-13.0	-38.6	
5MHz	5554.50	-13.8	H	3.0	35.5	1.0	-48.3	-13.0	-35.3	
	7406.00	-11.7	H	3.0	35.7	1.0	-46.4	-13.0	-33.4	
	Mid Ch, 1880									
QPSK	3760.00	-18.6	V	3.0	35.8	1.0	-53.4	-13.0	-40.4	
	5640.00	-14.1	V	3.0	35.5	1.0	-48.6	-13.0	-35.6	
	7520.00	-12.2	V	3.0	35.7	1.0	-46.9	-13.0	-33.9	
	3760.00	-18.7	H	3.0	35.8	1.0	-53.5	-13.0	-40.5	
	5640.00	-13.5	H	3.0	35.5	1.0	-48.0	-13.0	-35.0	
	7520.00	-12.2	H	3.0	35.7	1.0	-46.9	-13.0	-33.9	
	High Ch, 1908.5									
	3817.00	-17.1	V	3.0	35.8	1.0	-51.8	-13.0	-38.8	
	5725.50	-14.1	V	3.0	35.5	1.0	-48.6	-13.0	-35.6	
	7634.00	-12.1	V	3.0	35.8	1.0	-46.9	-13.0	-33.9	
	3817.00	-17.4	H	3.0	35.8	1.0	-52.2	-13.0	-39.2	
	5725.50	-13.3	H	3.0	35.5	1.0	-47.8	-13.0	-34.8	
	7634.00	-11.0	H	3.0	35.8	1.0	-45.8	-13.0	-32.8	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I21552								
Date:		8/20/2015								
Test Engineer:		A. Escamilla								
Configuration:		EUT, AC Adapter, Headset								
Location:		Chamber C								
Mode:		LTE_16QAM Band 2 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, 1851.5									
	3703.00	-13.3	V	3.0	35.9	1.0	-48.2	-13.0	-35.2	
LTE2	5554.50	-14.7	V	3.0	35.5	1.0	-49.1	-13.0	-36.1	
	7406.00	-11.8	V	3.0	35.7	1.0	-46.5	-13.0	-33.5	
	3703.00	-16.9	H	3.0	35.9	1.0	-51.8	-13.0	-38.8	
3MHz	5554.50	-13.8	H	3.0	35.5	1.0	-48.3	-13.0	-35.3	
	7406.00	-11.7	H	3.0	35.7	1.0	-46.4	-13.0	-33.4	
16QAM	Mid Ch, 1880									
	3760.00	-18.6	V	3.0	35.8	1.0	-53.4	-13.0	-40.4	
	5640.00	-14.4	V	3.0	35.5	1.0	-48.9	-13.0	-35.9	
	7520.00	-12.2	V	3.0	35.7	1.0	-47.0	-13.0	-34.0	
	3760.00	-18.5	H	3.0	35.8	1.0	-53.3	-13.0	-40.3	
	5640.00	-13.8	H	3.0	35.5	1.0	-48.3	-13.0	-35.3	
	7520.00	-12.0	H	3.0	35.7	1.0	-46.8	-13.0	-33.8	
	High Ch, 1908.5									
	3817.00	-17.0	V	3.0	35.8	1.0	-51.8	-13.0	-38.8	
	5725.50	-14.3	V	3.0	35.5	1.0	-48.8	-13.0	-35.8	
	7634.00	-12.1	V	3.0	35.8	1.0	-46.9	-13.0	-33.9	
	3817.00	-17.2	H	3.0	35.8	1.0	-52.0	-13.0	-39.0	
	5725.50	-13.3	H	3.0	35.5	1.0	-47.8	-13.0	-34.8	
	7634.00	-11.2	H	3.0	35.8	1.0	-45.9	-13.0	-32.9	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I21552								
Date:		8/20/2015								
Test Engineer:		A. Escamilla								
Configuration:		EUT, AC Adapter, Headset								
Location:		Chamber C								
Mode:		LTE_QPSK Band 2 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, 1851.5									
	3703.00	-13.0	V	3.0	35.9	1.0	-47.9	-13.0	-34.9	
LTE2	5554.50	-14.3	V	3.0	35.5	1.0	-48.8	-13.0	-35.8	
	7406.00	-11.5	V	3.0	35.7	1.0	-46.2	-13.0	-33.2	
	3703.00	-17.0	H	3.0	35.9	1.0	-51.9	-13.0	-38.9	
3MHz	5554.50	-13.8	H	3.0	35.5	1.0	-48.3	-13.0	-35.3	
	7406.00	-11.4	H	3.0	35.7	1.0	-46.2	-13.0	-33.2	
	Mid Ch, 1880									
QPSK	3760.00	-18.4	V	3.0	35.8	1.0	-53.2	-13.0	-40.2	
	5640.00	-14.0	V	3.0	35.5	1.0	-48.5	-13.0	-35.5	
	7520.00	-12.0	V	3.0	35.7	1.0	-46.7	-13.0	-33.7	
	3760.00	-17.7	H	3.0	35.8	1.0	-52.5	-13.0	-39.5	
	5640.00	-13.8	H	3.0	35.5	1.0	-48.3	-13.0	-35.3	
	7520.00	-11.5	H	3.0	35.7	1.0	-46.3	-13.0	-33.3	
	High Ch, 1908.5									
	3817.00	-16.9	V	3.0	35.8	1.0	-51.7	-13.0	-38.7	
	5725.50	-14.0	V	3.0	35.5	1.0	-48.5	-13.0	-35.5	
	7634.00	-11.7	V	3.0	35.8	1.0	-46.5	-13.0	-33.5	
	3817.00	-17.5	H	3.0	35.8	1.0	-52.3	-13.0	-39.3	
	5725.50	-13.6	H	3.0	35.5	1.0	-48.1	-13.0	-35.1	
	7634.00	-11.1	H	3.0	35.8	1.0	-45.9	-13.0	-32.9	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement											
Company:		LG Electronics									
Project #:		15I21552									
Date:		8/20/2015									
Test Engineer:		A. Escamilla									
Configuration:		EUT, AC Adapter, Headset									
Location:		Chamber C									
Mode:		LTE_16QAM Band 2 Harmonics, 1.4MHz Bandwidth									
Band	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	
LTE2 1.4MHz	Low Ch, 1850.7										
	3701.40	-13.7	V	3.0	35.9	1.0	-48.6	-13.0	-35.6		
	5552.10	-13.5	V	3.0	35.5	1.0	-48.0	-13.0	-35.0		
	7402.80	-11.2	V	3.0	35.7	1.0	-46.0	-13.0	-33.0		
	3701.40	-17.4	H	3.0	35.9	1.0	-52.2	-13.0	-39.2		
	5552.10	-13.9	H	3.0	35.5	1.0	-48.3	-13.0	-35.3		
	7402.80	-11.7	H	3.0	35.7	1.0	-46.5	-13.0	-33.5		
	Mid Ch, 1880										
	16QAM	3760.00	-18.8	V	3.0	35.8	1.0	-53.6	-13.0	-40.6	
		5640.00	-14.5	V	3.0	35.5	1.0	-49.0	-13.0	-36.0	
		7520.00	-12.3	V	3.0	35.7	1.0	-47.1	-13.0	-34.1	
		3760.00	-18.9	H	3.0	35.8	1.0	-53.7	-13.0	-40.7	
5640.00		-13.9	H	3.0	35.5	1.0	-48.4	-13.0	-35.4		
7520.00		-10.9	H	3.0	35.7	1.0	-45.6	-13.0	-32.6		
High Ch, 1909.3											
3818.60		-16.6	V	3.0	35.8	1.0	-51.4	-13.0	-38.4		
5727.90		-13.1	V	3.0	35.5	1.0	-47.6	-13.0	-34.6		
7637.20		-11.5	V	3.0	35.8	1.0	-46.3	-13.0	-33.3		
3818.60		-18.0	H	3.0	35.8	1.0	-52.8	-13.0	-39.8		
5727.90		-13.9	H	3.0	35.5	1.0	-48.4	-13.0	-35.4		
7637.20	-11.2	H	3.0	35.8	1.0	-45.9	-13.0	-32.9			

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I21552								
Date:		8/20/2015								
Test Engineer:		A. Escamilla								
Configuration:		EUT, AC Adapter, Headset								
Location:		Chamber C								
Mode:		LTE_QPSK Band 2 Harmonics, 1.4MHz Bandwidth								
Band	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
LTE2 1.4MHz	Low Ch, 1850.7									
	3701.40	-13.0	V	3.0	35.9	1.0	-47.8	-13.0	-34.8	
	5552.10	-14.2	V	3.0	35.5	1.0	-48.6	-13.0	-35.6	
	7402.80	-11.0	V	3.0	35.7	1.0	-45.7	-13.0	-32.7	
	3701.40	-16.9	H	3.0	35.9	1.0	-51.8	-13.0	-38.8	
	5552.10	-14.0	H	3.0	35.5	1.0	-48.4	-13.0	-35.4	
QPSK	Mid Ch, 1880									
	7402.80	-11.6	H	3.0	35.7	1.0	-46.3	-13.0	-33.3	
	3760.00	-18.5	V	3.0	35.8	1.0	-53.3	-13.0	-40.3	
	5640.00	-14.4	V	3.0	35.5	1.0	-48.9	-13.0	-35.9	
	7520.00	-12.0	V	3.0	35.7	1.0	-46.7	-13.0	-33.7	
	3760.00	-18.1	H	3.0	35.8	1.0	-52.9	-13.0	-39.9	
	5640.00	-13.9	H	3.0	35.5	1.0	-48.4	-13.0	-35.4	
	7520.00	-10.8	H	3.0	35.7	1.0	-45.5	-13.0	-32.5	
	High Ch, 1909.3									
	3818.60	-16.7	V	3.0	35.8	1.0	-51.5	-13.0	-38.5	
	5727.90	-13.4	V	3.0	35.5	1.0	-47.9	-13.0	-34.9	
	7637.20	-11.3	V	3.0	35.8	1.0	-46.0	-13.0	-33.0	
3818.60	-17.7	H	3.0	35.8	1.0	-52.4	-13.0	-39.4		
5727.90	-13.8	H	3.0	35.5	1.0	-48.3	-13.0	-35.3		
7637.20	-10.7	H	3.0	35.8	1.0	-45.5	-13.0	-32.5		

LTE Band 4

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement											
Company:		LG									
Project #:		15I21552									
Date:		8/27/2015									
Test Engineer:		Jude Semana									
Configuration:		EUT + AC Adapter + HS									
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	
Band LTE4 20MHz 16QAM	Low Ch, 1720										
		3440.00	-15.3	V	3.0	36.0	1.0	-50.4	-13.0	-37.4	
		5160.00	-11.5	V	3.0	35.4	1.0	-45.9	-13.0	-32.9	
		6880.00	-11.6	V	3.0	35.7	1.0	-46.3	-13.0	-33.3	
		3440.00	-14.7	H	3.0	36.0	1.0	-49.8	-13.0	-36.8	
		5160.00	-11.1	H	3.0	35.4	1.0	-45.5	-13.0	-32.5	
		6880.00	-9.7	H	3.0	35.7	1.0	-44.4	-13.0	-31.4	
		Mid Ch, 1732.5									
		3465.00	-15.0	V	3.0	36.0	1.0	-50.1	-13.0	-37.1	
		5197.50	-11.5	V	3.0	35.4	1.0	-46.0	-13.0	-33.0	
		6930.00	-10.3	V	3.0	35.7	1.0	-45.0	-13.0	-32.0	
		3465.00	-14.2	H	3.0	36.0	1.0	-49.3	-13.0	-36.3	
		5197.50	-10.9	H	3.0	35.4	1.0	-45.3	-13.0	-32.3	
		6930.00	-9.9	H	3.0	35.7	1.0	-44.6	-13.0	-31.6	
		High Ch, 1745									
		3490.00	-15.5	V	3.0	36.0	1.0	-50.6	-13.0	-37.6	
		5235.00	-11.5	V	3.0	35.4	1.0	-45.9	-13.0	-32.9	
		6980.00	-11.5	V	3.0	35.7	1.0	-46.2	-13.0	-33.2	
	3490.00	-14.9	H	3.0	36.0	1.0	-49.9	-13.0	-36.9		
	5235.00	-11.6	H	3.0	35.4	1.0	-46.0	-13.0	-33.0		
	6980.00	-10.2	H	3.0	35.7	1.0	-44.9	-13.0	-31.9		

UL Verification Services, Inc.											
Above 1GHz High Frequency Substitution Measurement											
Company:		LG									
Project #:		15I21552									
Date:		8/27/2015									
Test Engineer:		Jude Semana									
Configuration:		EUT + AC Adapter + HS									
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 LTE4 20MHz QPSK	Low Ch, 1720										
		3440.00	-15.2	V	3.0	36.0	1.0	-50.2	-13.0	-37.2	
		5160.00	-11.2	V	3.0	35.4	1.0	-45.6	-13.0	-32.6	
		6880.00	-11.1	V	3.0	35.7	1.0	-45.8	-13.0	-32.8	
		3440.00	-14.6	H	3.0	36.0	1.0	-49.7	-13.0	-36.7	
		5160.00	-10.9	H	3.0	35.4	1.0	-45.3	-13.0	-32.3	
		6880.00	-9.4	H	3.0	35.7	1.0	-44.0	-13.0	-31.0	
		Mid Ch, 1732.5									
		3465.00	-15.6	V	3.0	36.0	1.0	-50.6	-13.0	-37.6	
		5197.50	-11.3	V	3.0	35.4	1.0	-45.7	-13.0	-32.7	
		6930.00	-10.9	V	3.0	35.7	1.0	-45.5	-13.0	-32.5	
		3465.00	-14.7	H	3.0	36.0	1.0	-49.7	-13.0	-36.7	
	5197.50	-10.8	H	3.0	35.4	1.0	-45.3	-13.0	-32.3		
	6930.00	-9.6	H	3.0	35.7	1.0	-44.2	-13.0	-31.2		
	High Ch, 1745										
	3490.00	-15.4	V	3.0	36.0	1.0	-50.4	-13.0	-37.4		
	5235.00	-11.2	V	3.0	35.4	1.0	-45.6	-13.0	-32.6		
	6980.00	-11.2	V	3.0	35.7	1.0	-45.8	-13.0	-32.8		
	3490.00	-14.8	H	3.0	36.0	1.0	-49.8	-13.0	-36.8		
	5235.00	-11.0	H	3.0	35.4	1.0	-45.4	-13.0	-32.4		
	6980.00	-9.7	H	3.0	35.7	1.0	-44.4	-13.0	-31.4		

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG								
Project #:		15I21552								
Date:		8/27/2015								
Test Engineer:		Jude Semana								
Configuration:		EUT + AC Adapter + HS								
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
Band	Low Ch, 1717.5									
	3435.00	-14.5	V	3.0	36.1	1.0	-49.6	-13.0	-36.6	
LTE4	5152.50	-11.5	V	3.0	35.4	1.0	-45.9	-13.0	-32.9	
	6870.00	-10.7	V	3.0	35.7	1.0	-45.4	-13.0	-32.4	
15MHz	3435.00	-15.9	H	3.0	36.1	1.0	-51.0	-13.0	-38.0	
	5152.50	-11.2	H	3.0	35.4	1.0	-45.6	-13.0	-32.6	
16QAM	6870.00	-10.3	H	3.0	35.7	1.0	-44.9	-13.0	-31.9	
	Mid Ch, 1732.5									
	3465.00	-13.8	V	3.0	36.0	1.0	-48.9	-13.0	-35.9	
	5197.50	-11.7	V	3.0	35.4	1.0	-46.1	-13.0	-33.1	
	6930.00	-10.4	V	3.0	35.7	1.0	-45.1	-13.0	-32.1	
	3465.00	-15.3	H	3.0	36.0	1.0	-50.3	-13.0	-37.3	
	5197.50	-10.9	H	3.0	35.4	1.0	-45.3	-13.0	-32.3	
	6930.00	-8.8	H	3.0	35.7	1.0	-43.5	-13.0	-30.5	
	High Ch, 1747.5									
	3495.00	-15.1	V	3.0	36.0	1.0	-50.1	-13.0	-37.1	
5242.50	-11.2	V	3.0	35.4	1.0	-45.7	-13.0	-32.7		
6990.00	-10.6	V	3.0	35.7	1.0	-45.3	-13.0	-32.3		
3495.00	-16.2	H	3.0	36.0	1.0	-51.2	-13.0	-38.2		
5242.50	-11.7	H	3.0	35.4	1.0	-46.2	-13.0	-33.2		
6990.00	-10.7	H	3.0	35.7	1.0	-45.4	-13.0	-32.4		

UL Verification Services, Inc.											
Above 1GHz High Frequency Substitution Measurement											
Company:		LG									
Project #:		15I21552									
Date:		8/27/2015									
Test Engineer:		Jude Semana									
Configuration:		EUT + AC Adapter + HS									
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	-14.6	V	3.0	36.1	1.0	-49.7	-13.0	-36.7	
	LTE4	5152.50	-11.1	V	3.0	35.4	1.0	-45.5	-13.0	-32.5	
		6870.00	-10.4	V	3.0	35.7	1.0	-45.1	-13.0	-32.1	
	15MHz	3435.00	-15.6	H	3.0	36.1	1.0	-50.7	-13.0	-37.7	
		5152.50	-11.0	H	3.0	35.4	1.0	-45.4	-13.0	-32.4	
	QPSK	6870.00	-10.0	H	3.0	35.7	1.0	-44.7	-13.0	-31.7	
		Mid Ch, 1732.5									
		3465.00	-14.8	V	3.0	36.0	1.0	-49.8	-13.0	-36.8	
		5197.50	-11.1	V	3.0	35.4	1.0	-45.5	-13.0	-32.5	
		6930.00	-10.2	V	3.0	35.7	1.0	-44.9	-13.0	-31.9	
		3465.00	-15.6	H	3.0	36.0	1.0	-50.6	-13.0	-37.6	
	5197.50	-11.1	H	3.0	35.4	1.0	-45.5	-13.0	-32.5		
	6930.00	-10.0	H	3.0	35.7	1.0	-44.6	-13.0	-31.6		
	High Ch, 1747.5										
	3495.00	-14.8	V	3.0	36.0	1.0	-49.8	-13.0	-36.8		
	5242.50	-11.0	V	3.0	35.4	1.0	-45.5	-13.0	-32.5		
	6990.00	-10.3	V	3.0	35.7	1.0	-45.0	-13.0	-32.0		
	3495.00	-15.6	H	3.0	36.0	1.0	-50.6	-13.0	-37.6		
	5242.50	-11.3	H	3.0	35.4	1.0	-45.7	-13.0	-32.7		
	6990.00	-10.3	H	3.0	35.7	1.0	-45.0	-13.0	-32.0		

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG							
Project #:		15I21552							
Date:		8/27/2015							
Test Engineer:		Jude Semana							
Configuration:		EUT + AC Adapter + HS							
Location:		Chamber C							
Mode:		LTE_16QAM Band 4 Harmonics, 10MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1715									
3430.00	-15.3	V	3.0	36.1	1.0	-50.4	-13.0	-37.4	
5145.00	-11.4	V	3.0	35.4	1.0	-45.8	-13.0	-32.8	
6860.00	-11.0	V	3.0	35.7	1.0	-45.6	-13.0	-32.6	
10MHz									
3430.00	-15.4	H	3.0	36.1	1.0	-50.5	-13.0	-37.5	
5145.00	-11.6	H	3.0	35.4	1.0	-46.0	-13.0	-33.0	
6860.00	-9.1	H	3.0	35.7	1.0	-43.7	-13.0	-30.7	
16QAM									
Mid Ch, 1732.5									
3465.00	-15.4	V	3.0	36.0	1.0	-50.4	-13.0	-37.4	
5197.50	-11.4	V	3.0	35.4	1.0	-45.8	-13.0	-32.8	
6930.00	-10.2	V	3.0	35.7	1.0	-44.9	-13.0	-31.9	
3465.00	-15.3	H	3.0	36.0	1.0	-50.3	-13.0	-37.3	
5197.50	-10.6	H	3.0	35.4	1.0	-45.0	-13.0	-32.0	
6930.00	-8.9	H	3.0	35.7	1.0	-43.6	-13.0	-30.6	
High Ch, 1750									
3500.00	-14.6	V	3.0	36.0	1.0	-49.6	-13.0	-36.6	
5250.00	-12.5	V	3.0	35.4	1.0	-47.0	-13.0	-34.0	
7000.00	-11.1	V	3.0	35.7	1.0	-45.8	-13.0	-32.8	
3500.00	-15.6	H	3.0	36.0	1.0	-50.6	-13.0	-37.6	
5250.00	-11.7	H	3.0	35.4	1.0	-46.1	-13.0	-33.1	
7000.00	-9.8	H	3.0	35.7	1.0	-44.5	-13.0	-31.5	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG								
Project #:		15I21552								
Date:		8/27/2015								
Test Engineer:		Jude Semana								
Configuration:		EUT + AC Adapter + HS								
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	-14.3	V	3.0	36.1	1.0	-49.3	-13.0	-36.3	
	5145.00	-11.2	V	3.0	35.4	1.0	-45.6	-13.0	-32.6	
LTE4	6860.00	-10.6	V	3.0	35.7	1.0	-45.2	-13.0	-32.2	
	3430.00	-15.3	H	3.0	36.1	1.0	-50.3	-13.0	-37.3	
	5145.00	-11.3	H	3.0	35.4	1.0	-45.7	-13.0	-32.7	
10MHz	6860.00	-8.9	H	3.0	35.7	1.0	-43.6	-13.0	-30.6	
	Mid Ch, 1732.5									
	3465.00	-14.5	V	3.0	36.0	1.0	-49.5	-13.0	-36.5	
QPSK	5197.50	-11.2	V	3.0	35.4	1.0	-45.6	-13.0	-32.6	
	6930.00	-10.5	V	3.0	35.7	1.0	-45.2	-13.0	-32.2	
	3465.00	-15.3	H	3.0	36.0	1.0	-50.3	-13.0	-37.3	
	5197.50	-11.2	H	3.0	35.4	1.0	-45.7	-13.0	-32.7	
	6930.00	-9.6	H	3.0	35.7	1.0	-44.3	-13.0	-31.3	
	High Ch, 1750									
3500.00	-14.6	V	3.0	36.0	1.0	-49.6	-13.0	-36.6		
5250.00	-12.3	V	3.0	35.4	1.0	-46.7	-13.0	-33.7		
7000.00	-10.7	V	3.0	35.7	1.0	-45.4	-13.0	-32.4		
3500.00	-15.5	H	3.0	36.0	1.0	-50.5	-13.0	-37.5		
5250.00	-11.5	H	3.0	35.4	1.0	-46.0	-13.0	-33.0		
7000.00	-9.7	H	3.0	35.7	1.0	-44.3	-13.0	-31.3		

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement											
Company:		LG									
Project #:		15I21552									
Date:		8/27/2015									
Test Engineer:		Jude Semana									
Configuration:		EUT + AC Adapter + HS									
Location:		Chamber C									
Mode:		LTE_16QAM Band 4 Harmonics, 5MHz Bandwidth									
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	
Band LTE4 5MHz 16QAM	Low Ch, 1712.5										
		3425.00	-14.8	V	3.0	36.1	1.0	-49.8	-13.0	-36.8	
		5137.50	-11.8	V	3.0	35.4	1.0	-46.3	-13.0	-33.3	
		6850.00	-10.6	V	3.0	35.7	1.0	-45.2	-13.0	-32.2	
		3425.00	-15.2	H	3.0	36.1	1.0	-50.3	-13.0	-37.3	
		5137.50	-10.3	H	3.0	35.4	1.0	-44.8	-13.0	-31.8	
		6850.00	-9.1	H	3.0	35.7	1.0	-43.7	-13.0	-30.7	
		Mid Ch, 1732.5									
		3465.00	-14.8	V	3.0	36.0	1.0	-49.8	-13.0	-36.8	
		5197.50	-11.8	V	3.0	35.4	1.0	-46.2	-13.0	-33.2	
		6930.00	-10.5	V	3.0	35.7	1.0	-45.2	-13.0	-32.2	
		3465.00	-15.0	H	3.0	36.0	1.0	-50.0	-13.0	-37.0	
		5197.50	-10.3	H	3.0	35.4	1.0	-44.7	-13.0	-31.7	
		6930.00	-8.8	H	3.0	35.7	1.0	-43.4	-13.0	-30.4	
		High Ch, 1752.5									
		3505.00	-14.7	V	3.0	36.0	1.0	-49.7	-13.0	-36.7	
		5257.50	-11.8	V	3.0	35.4	1.0	-46.2	-13.0	-33.2	
		7010.00	-10.5	V	3.0	35.7	1.0	-45.2	-13.0	-32.2	
	3505.00	-15.3	H	3.0	36.0	1.0	-50.3	-13.0	-37.3		
	5257.50	-10.5	H	3.0	35.4	1.0	-45.0	-13.0	-32.0		
	7010.00	-8.7	H	3.0	35.7	1.0	-43.4	-13.0	-30.4		

UL Verification Services, Inc.											
Above 1GHz High Frequency Substitution Measurement											
Company:		LG									
Project #:		15I21552									
Date:		8/27/2015									
Test Engineer:		Jude Semana									
Configuration:		EUT + AC Adapter + HS									
Location:		Chamber C									
Mode:		LTE_QPSK Band 4 Harmonics, 5MHz Bandwidth									
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	
Band LTE4 5MHz QPSK	Low Ch, 1712.5										
		3425.00	-14.9	V	3.0	36.1	1.0	-49.9	-13.0	-36.9	
		5137.50	-12.0	V	3.0	35.4	1.0	-46.4	-13.0	-33.4	
		6850.00	-10.8	V	3.0	35.7	1.0	-45.5	-13.0	-32.5	
		3425.00	-15.5	H	3.0	36.1	1.0	-50.6	-13.0	-37.6	
		5137.50	-10.5	H	3.0	35.4	1.0	-44.9	-13.0	-31.9	
		6850.00	-9.7	H	3.0	35.7	1.0	-44.4	-13.0	-31.4	
		Mid Ch, 1732.5									
		3465.00	-14.9	V	3.0	36.0	1.0	-49.9	-13.0	-36.9	
		5197.50	-11.7	V	3.0	35.4	1.0	-46.2	-13.0	-33.2	
		6930.00	-10.5	V	3.0	35.7	1.0	-45.2	-13.0	-32.2	
		3465.00	-15.1	H	3.0	36.0	1.0	-50.1	-13.0	-37.1	
	5197.50	-9.9	H	3.0	35.4	1.0	-44.3	-13.0	-31.3		
	6930.00	-9.0	H	3.0	35.7	1.0	-43.7	-13.0	-30.7		
	High Ch, 1752.5										
	3505.00	-14.5	V	3.0	36.0	1.0	-49.5	-13.0	-36.5		
	5257.50	-11.7	V	3.0	35.4	1.0	-46.1	-13.0	-33.1		
	7010.00	-10.6	V	3.0	35.7	1.0	-45.3	-13.0	-32.3		
	3505.00	-15.3	H	3.0	36.0	1.0	-50.3	-13.0	-37.3		
	5257.50	-10.4	H	3.0	35.4	1.0	-44.8	-13.0	-31.8		
	7010.00	-9.1	H	3.0	35.7	1.0	-43.8	-13.0	-30.8		

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement											
Company:		LG									
Project #:		15I21552									
Date:		8/27/2015									
Test Engineer:		Jude Semana									
Configuration:		EUT + AC Adapter + HS									
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	
Band	Low Ch, 1711.5										
	LTE4	3423.00	-15.5	V	3.0	36.1	1.0	-50.6	-13.0	-37.6	
		5134.50	-11.8	V	3.0	35.4	1.0	-46.3	-13.0	-33.3	
		6846.00	-11.0	V	3.0	35.7	1.0	-45.7	-13.0	-32.7	
	3MHz	3423.00	-14.9	H	3.0	36.1	1.0	-49.9	-13.0	-36.9	
		5134.50	-11.2	H	3.0	35.4	1.0	-45.6	-13.0	-32.6	
		6846.00	-10.6	H	3.0	35.7	1.0	-45.2	-13.0	-32.2	
	16QAM	Mid Ch, 1732.5									
		3465.00	-14.7	V	3.0	36.0	1.0	-49.8	-13.0	-36.8	
		5197.50	-11.1	V	3.0	35.4	1.0	-45.5	-13.0	-32.5	
		6930.00	-11.3	V	3.0	35.7	1.0	-45.9	-13.0	-32.9	
		3465.00	-15.2	H	3.0	36.0	1.0	-50.2	-13.0	-37.2	
		5197.50	-10.3	H	3.0	35.4	1.0	-44.8	-13.0	-31.8	
		6930.00	-9.7	H	3.0	35.7	1.0	-44.4	-13.0	-31.4	
		High Ch, 1753.5									
		3507.00	-14.5	V	3.0	36.0	1.0	-49.5	-13.0	-36.5	
	5260.50	-10.7	V	3.0	35.4	1.0	-45.1	-13.0	-32.1		
	7014.00	-11.4	V	3.0	35.7	1.0	-46.1	-13.0	-33.1		
3507.00	-14.7	H	3.0	36.0	1.0	-49.7	-13.0	-36.7			
5260.50	-10.3	H	3.0	35.4	1.0	-44.8	-13.0	-31.8			
7014.00	-9.6	H	3.0	35.7	1.0	-44.3	-13.0	-31.3			

UL Verification Services, Inc.										
Above 1GHz High Frequency Substitution Measurement										
Company:		LG								
Project #:		15I21552								
Date:		8/27/2015								
Test Engineer:		Jude Semana								
Configuration:		EUT + AC Adapter + HS								
Location:		Chamber C								
Mode:		LTE_QPSK Band 4 Harmonics, 3MHz Bandwidth								
Band	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 1711.5									
	3423.00	-14.9	V	3.0	36.1	1.0	-50.0	-13.0	-37.0	
LTE4	5134.50	-11.6	V	3.0	35.4	1.0	-46.1	-13.0	-33.1	
	6846.00	-10.9	V	3.0	35.7	1.0	-45.6	-13.0	-32.6	
	3423.00	-14.8	H	3.0	36.1	1.0	-49.8	-13.0	-36.8	
3MHz	5134.50	-10.8	H	3.0	35.4	1.0	-45.3	-13.0	-32.3	
	6846.00	-9.7	H	3.0	35.7	1.0	-44.4	-13.0	-31.4	
QPSK	Mid Ch, 1732.5									
	3465.00	-14.4	V	3.0	36.0	1.0	-49.4	-13.0	-36.4	
	5197.50	-10.7	V	3.0	35.4	1.0	-45.1	-13.0	-32.1	
	6930.00	-10.3	V	3.0	35.7	1.0	-45.0	-13.0	-32.0	
	3465.00	-14.6	H	3.0	36.0	1.0	-49.6	-13.0	-36.6	
	5197.50	-9.9	H	3.0	35.4	1.0	-44.3	-13.0	-31.3	
	6930.00	-9.1	H	3.0	35.7	1.0	-43.8	-13.0	-30.8	
	High Ch, 1753.5									
	3507.00	-14.4	V	3.0	36.0	1.0	-49.4	-13.0	-36.4	
	5260.50	-10.1	V	3.0	35.4	1.0	-44.6	-13.0	-31.6	
	7014.00	-11.1	V	3.0	35.7	1.0	-45.8	-13.0	-32.8	
	3507.00	-14.5	H	3.0	36.0	1.0	-49.5	-13.0	-36.5	
	5260.50	-9.7	H	3.0	35.4	1.0	-44.1	-13.0	-31.1	
	7014.00	-9.5	H	3.0	35.7	1.0	-44.1	-13.0	-31.1	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG								
Project #:		15I21552								
Date:		8/27/2015								
Test Engineer:		Jude Semana								
Configuration:		EUT + AC Adapter + HS								
Location:		Chamber C								
Mode:		LTE_16QAM Band 4 Harmonics, 1.4MHz Bandwidth								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band LTE4 1.4MHz 16QAM	Low Ch, 1710.7									
	3421.40	-13.7	V	3.0	36.1	1.0	-48.8	-13.0	-35.8	
	5132.10	-13.3	V	3.0	35.4	1.0	-47.7	-13.0	-34.7	
	6842.80	-12.0	V	3.0	35.7	1.0	-46.7	-13.0	-33.7	
	3421.40	-13.0	H	3.0	36.1	1.0	-48.1	-13.0	-35.1	
	5132.10	-12.4	H	3.0	35.4	1.0	-46.8	-13.0	-33.8	
	6842.80	-9.0	H	3.0	35.7	1.0	-43.7	-13.0	-30.7	
	Mid Ch, 1732.5									
	3465.00	-13.5	V	3.0	36.0	1.0	-48.5	-13.0	-35.5	
	5197.50	-13.2	V	3.0	35.4	1.0	-47.6	-13.0	-34.6	
	6930.00	-13.5	V	3.0	35.7	1.0	-48.2	-13.0	-35.2	
	3465.00	-15.1	H	3.0	36.0	1.0	-50.1	-13.0	-37.1	
	5197.50	-9.7	H	3.0	35.4	1.0	-44.1	-13.0	-31.1	
	6930.00	-9.6	H	3.0	35.7	1.0	-44.3	-13.0	-31.3	
	High Ch, 1754.3									
	3508.60	-13.5	V	3.0	36.0	1.0	-48.5	-13.0	-35.5	
	5262.90	-12.0	V	3.0	35.4	1.0	-46.4	-13.0	-33.4	
	7017.20	-9.9	V	3.0	35.7	1.0	-44.6	-13.0	-31.6	
	3508.60	-14.0	H	3.0	36.0	1.0	-49.0	-13.0	-36.0	
	5262.90	-11.7	H	3.0	35.4	1.0	-46.1	-13.0	-33.1	
	7017.20	-8.8	H	3.0	35.7	1.0	-43.5	-13.0	-30.5	

UL Verification Services, Inc.										
Above 1GHz High Frequency Substitution Measurement										
Company:		LG								
Project #:		15I21552								
Date:		8/27/2015								
Test Engineer:		Jude Semana								
Configuration:		EUT + AC Adapter + HS								
Location:		Chamber C								
Mode:		LTE_QPSK Band 4 Harmonics, 1.4MHz Bandwidth								
Band	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 1710.7									
LTE4	3421.40	-13.0	V	3.0	36.1	1.0	-48.1	-13.0	-35.1	
	5132.10	-13.1	V	3.0	35.4	1.0	-47.5	-13.0	-34.5	
	6842.80	-11.4	V	3.0	35.7	1.0	-46.0	-13.0	-33.0	
1.4MHz	3421.40	-12.6	H	3.0	36.1	1.0	-47.7	-13.0	-34.7	
	5132.10	-12.1	H	3.0	35.4	1.0	-46.5	-13.0	-33.5	
QPSK	6842.80	-8.7	H	3.0	35.7	1.0	-43.3	-13.0	-30.3	
	Mid Ch, 1732.5									
	3465.00	-13.0	V	3.0	36.0	1.0	-48.1	-13.0	-35.1	
	5197.50	-12.5	V	3.0	35.4	1.0	-46.9	-13.0	-33.9	
	6930.00	-12.0	V	3.0	35.7	1.0	-46.7	-13.0	-33.7	
	3465.00	-15.0	H	3.0	36.0	1.0	-50.1	-13.0	-37.1	
	5197.50	-10.4	H	3.0	35.4	1.0	-44.8	-13.0	-31.8	
	6930.00	-8.5	H	3.0	35.7	1.0	-43.2	-13.0	-30.2	
	High Ch, 1754.3									
	3508.60	-13.2	V	3.0	36.0	1.0	-48.1	-13.0	-35.1	
	5262.90	-11.8	V	3.0	35.4	1.0	-46.2	-13.0	-33.2	
	7017.20	-9.5	V	3.0	35.7	1.0	-44.2	-13.0	-31.2	
	3508.60	-14.2	H	3.0	36.0	1.0	-49.2	-13.0	-36.2	
	5262.90	-10.8	H	3.0	35.4	1.0	-45.2	-13.0	-32.2	
	7017.20	-8.2	H	3.0	35.7	1.0	-42.8	-13.0	-29.8	

LTE Band 5

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG								
Project #:		15I21552								
Date:		8/27/2015								
Test Engineer:		Jude Semana								
Configuration:		EUT + AC Adapter + HS								
Location:		Chamber C								
Mode:		LTE_16QAM Band 5 Harmonics, 10MHz Bandwidth								
Band	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 829									
LTE5	1658.00	-24.5	V	3.0	37.0	1.0	-60.5	-13.0	-47.5	
	2487.00	-21.4	V	3.0	36.4	1.0	-56.8	-13.0	-43.8	
	3316.00	-21.0	V	3.0	36.2	1.0	-56.2	-13.0	-43.2	
10MHz	1658.00	-25.2	H	3.0	37.0	1.0	-61.2	-13.0	-48.2	
	2487.00	-23.1	H	3.0	36.4	1.0	-58.5	-13.0	-45.5	
16QAM	3316.00	-20.8	H	3.0	36.2	1.0	-56.0	-13.0	-43.0	
	Mid Ch, 836.5									
	1673.00	-24.5	V	3.0	37.0	1.0	-60.5	-13.0	-47.5	
	2509.50	-20.9	V	3.0	36.4	1.0	-56.3	-13.0	-43.3	
	3346.00	-21.1	V	3.0	36.1	1.0	-56.3	-13.0	-43.3	
	1673.00	-24.4	H	3.0	37.0	1.0	-60.4	-13.0	-47.4	
	2509.50	-22.5	H	3.0	36.4	1.0	-57.9	-13.0	-44.9	
	3346.00	-20.5	H	3.0	36.1	1.0	-55.6	-13.0	-42.6	
	High Ch, 844									
	1688.00	-24.5	V	3.0	37.0	1.0	-60.5	-13.0	-47.5	
	2532.00	-21.0	V	3.0	36.4	1.0	-56.4	-13.0	-43.4	
	3376.00	-17.8	V	3.0	36.1	1.0	-52.9	-13.0	-39.9	
	1688.00	-24.6	H	3.0	37.0	1.0	-60.5	-13.0	-47.5	
	2532.00	-22.6	H	3.0	36.4	1.0	-58.0	-13.0	-45.0	
	3376.00	-21.5	H	3.0	36.1	1.0	-56.6	-13.0	-43.6	

UL Verification Services, Inc.										
Above 1GHz High Frequency Substitution Measurement										
Company:		LG								
Project #:		15I21552								
Date:		8/27/2015								
Test Engineer:		Jude Semana								
Configuration:		EUT + AC Adapter + HS								
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	-24.3	V	3.0	37.0	1.0	-60.4	-13.0	-47.4	
LTE5	2487.00	-21.2	V	3.0	36.4	1.0	-56.6	-13.0	-43.6	
	3316.00	-20.6	V	3.0	36.2	1.0	-55.8	-13.0	-42.8	
10MHz	1658.00	-24.9	H	3.0	37.0	1.0	-61.0	-13.0	-48.0	
	2487.00	-22.6	H	3.0	36.4	1.0	-58.0	-13.0	-45.0	
QPSK	3316.00	-21.7	H	3.0	36.2	1.0	-56.9	-13.0	-43.9	
	Mid Ch, 836.5									
	1673.00	-24.0	V	3.0	37.0	1.0	-60.1	-13.0	-47.1	
	2509.50	-20.7	V	3.0	36.4	1.0	-56.1	-13.0	-43.1	
	3346.00	-21.2	V	3.0	36.1	1.0	-56.4	-13.0	-43.4	
	1673.00	-24.8	H	3.0	37.0	1.0	-60.8	-13.0	-47.8	
	2509.50	-22.5	H	3.0	36.4	1.0	-57.9	-13.0	-44.9	
	3346.00	-21.4	H	3.0	36.1	1.0	-56.5	-13.0	-43.5	
	High Ch, 844									
	1688.00	-24.7	V	3.0	37.0	1.0	-60.7	-13.0	-47.7	
	2532.00	-20.7	V	3.0	36.4	1.0	-56.1	-13.0	-43.1	
	3376.00	-21.0	V	3.0	36.1	1.0	-56.1	-13.0	-43.1	
	1688.00	-24.6	H	3.0	37.0	1.0	-60.6	-13.0	-47.6	
	2532.00	-22.5	H	3.0	36.4	1.0	-57.9	-13.0	-44.9	
	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									
Project #:		15I21552									
Date:		8/27/2015									
Test Engineer:		Jude Semana									
Configuration:		EUT + AC Adapter + HS									
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 LTE5 5MHz 16QAM	Low Ch, 826.5										
		1653.00	-24.7	V	3.0	37.0	1.0	-60.8	-13.0	-47.8	
		2479.50	-21.5	V	3.0	36.4	1.0	-57.0	-13.0	-44.0	
		3306.00	-20.3	V	3.0	36.2	1.0	-55.5	-13.0	-42.5	
		1653.00	-25.1	H	3.0	37.0	1.0	-61.1	-13.0	-48.1	
		2479.50	-23.1	H	3.0	36.4	1.0	-58.5	-13.0	-45.5	
		3306.00	-20.7	H	3.0	36.2	1.0	-55.8	-13.0	-42.8	
		Mid Ch, 836.5									
		1673.00	-25.0	V	3.0	37.0	1.0	-61.0	-13.0	-48.0	
		2509.50	-21.1	V	3.0	36.4	1.0	-56.5	-13.0	-43.5	
		3346.00	-20.5	V	3.0	36.1	1.0	-55.6	-13.0	-42.6	
		1673.00	-24.2	H	3.0	37.0	1.0	-60.2	-13.0	-47.2	
		2509.50	-22.7	H	3.0	36.4	1.0	-58.1	-13.0	-45.1	
		3346.00	-19.5	H	3.0	36.1	1.0	-54.6	-13.0	-41.6	
		High Ch, 846.5									
		1693.00	-25.0	V	3.0	37.0	1.0	-61.0	-13.0	-48.0	
		2539.50	-21.6	V	3.0	36.4	1.0	-57.0	-13.0	-44.0	
		3386.00	-21.1	V	3.0	36.1	1.0	-56.1	-13.0	-43.1	
	1693.00	-24.1	H	3.0	37.0	1.0	-60.1	-13.0	-47.1		
	2539.50	-22.1	H	3.0	36.4	1.0	-57.5	-13.0	-44.5		
	3386.00	-19.4	H	3.0	36.1	1.0	-54.5	-13.0	-41.5		

UL Verification Services, Inc.										
Above 1GHz High Frequency Substitution Measurement										
Company:		LG								
Project #:		15I21552								
Date:		8/27/2015								
Test Engineer:		Jude Semana								
Configuration:		EUT + AC Adapter + HS								
Location:		Chamber C								
Mode:		LTE_QPSK Band 5 Harmonics, 5MHz Bandwidth								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamplifier (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band	Low Ch, 826.5									
	1653.00	-24.5	V	3.0	37.0	1.0	-60.6	-13.0	-47.6	
	2479.50	-21.6	V	3.0	36.4	1.0	-57.1	-13.0	-44.1	
LTE5	3306.00	-20.4	V	3.0	36.2	1.0	-55.6	-13.0	-42.6	
	1653.00	-24.6	H	3.0	37.0	1.0	-60.6	-13.0	-47.6	
	2479.50	-22.7	H	3.0	36.4	1.0	-58.1	-13.0	-45.1	
5MHz	3306.00	-20.5	H	3.0	36.2	1.0	-55.7	-13.0	-42.7	
	Mid Ch, 836.5									
	1673.00	-24.8	V	3.0	37.0	1.0	-60.9	-13.0	-47.9	
QPSK	2509.50	-20.7	V	3.0	36.4	1.0	-56.1	-13.0	-43.1	
	3346.00	-20.4	V	3.0	36.1	1.0	-55.5	-13.0	-42.5	
	1673.00	-24.3	H	3.0	37.0	1.0	-60.3	-13.0	-47.3	
	2509.50	-22.4	H	3.0	36.4	1.0	-57.8	-13.0	-44.8	
	3346.00	-19.6	H	3.0	36.1	1.0	-54.7	-13.0	-41.7	
	High Ch, 846.5									
1693.00	-24.7	V	3.0	37.0	1.0	-60.7	-13.0	-47.7		
2539.50	-21.0	V	3.0	36.4	1.0	-56.4	-13.0	-43.4		
3386.00	-20.6	V	3.0	36.1	1.0	-55.7	-13.0	-42.7		
1693.00	-24.0	H	3.0	37.0	1.0	-60.0	-13.0	-47.0		
2539.50	-22.1	H	3.0	36.4	1.0	-57.5	-13.0	-44.5		
3386.00	-19.4	H	3.0	36.1	1.0	-54.5	-13.0	-41.5		

UL Verification Services, Inc.										
Above 1GHz High Frequency Substitution Measurement										
Company:		LG								
Project #:		15I21552								
Date:		8/27/2015								
Test Engineer:		Jude Semana								
Configuration:		EUT + AC Adapter + HS								
Location:		Chamber C								
Mode:		LTE_16QAM Band 5 Harmonics, 3MHz Bandwidth								
Band	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 825.5									
	1651.00	-24.6	V	3.0	37.0	1.0	-60.6	-13.0	-47.6	
LTE5	2476.50	-20.1	V	3.0	36.4	1.0	-55.6	-13.0	-42.6	
	3302.00	-20.2	V	3.0	36.2	1.0	-55.3	-13.0	-42.3	
3MHz	1651.00	-24.8	H	3.0	37.0	1.0	-60.8	-13.0	-47.8	
	2476.50	-22.1	H	3.0	36.4	1.0	-57.5	-13.0	-44.5	
16QAM	3302.00	-20.7	H	3.0	36.2	1.0	-55.9	-13.0	-42.9	
	Mid Ch, 836.5									
	1673.00	-24.6	V	3.0	37.0	1.0	-60.6	-13.0	-47.6	
	2509.50	-20.0	V	3.0	36.4	1.0	-55.4	-13.0	-42.4	
	3346.00	-21.0	V	3.0	36.1	1.0	-56.1	-13.0	-43.1	
	1673.00	-24.5	H	3.0	37.0	1.0	-60.5	-13.0	-47.5	
	2509.50	-22.0	H	3.0	36.4	1.0	-57.4	-13.0	-44.4	
	3346.00	-20.0	H	3.0	36.1	1.0	-55.1	-13.0	-42.1	
	High Ch, 847.5									
	1695.00	-24.4	V	3.0	37.0	1.0	-60.4	-13.0	-47.4	
	2542.50	-20.1	V	3.0	36.4	1.0	-55.5	-13.0	-42.5	
	3390.00	-20.1	V	3.0	36.1	1.0	-55.2	-13.0	-42.2	
	1695.00	-24.4	H	3.0	37.0	1.0	-60.3	-13.0	-47.3	
	2542.50	-22.5	H	3.0	36.4	1.0	-57.9	-13.0	-44.9	
	3390.00	-20.3	H	3.0	36.1	1.0	-55.4	-13.0	-42.4	

UL Verification Services, Inc.										
Above 1GHz High Frequency Substitution Measurement										
Company:		LG								
Project #:		15I21552								
Date:		8/27/2015								
Test Engineer:		Jude Semana								
Configuration:		EUT + AC Adapter + HS								
Location:		Chamber C								
Mode:		LTE_QPSK Band 5 Harmonics, 3MHz Bandwidth								
Band	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 825.5									
	1651.00	-24.3	V	3.0	37.0	1.0	-60.4	-13.0	-47.4	
LTE5	2476.50	-20.0	V	3.0	36.4	1.0	-55.5	-13.0	-42.5	
	3302.00	-20.4	V	3.0	36.2	1.0	-55.5	-13.0	-42.5	
3MHz	1651.00	-24.6	H	3.0	37.0	1.0	-60.7	-13.0	-47.7	
	2476.50	-22.1	H	3.0	36.4	1.0	-57.5	-13.0	-44.5	
QPSK	3302.00	-20.4	H	3.0	36.2	1.0	-55.6	-13.0	-42.6	
	Mid Ch, 836.5									
	1673.00	-24.1	V	3.0	37.0	1.0	-60.1	-13.0	-47.1	
	2509.50	-19.8	V	3.0	36.4	1.0	-55.2	-13.0	-42.2	
	3346.00	-21.0	V	3.0	36.1	1.0	-56.1	-13.0	-43.1	
	1673.00	-24.4	H	3.0	37.0	1.0	-60.4	-13.0	-47.4	
	2509.50	-22.3	H	3.0	36.4	1.0	-57.7	-13.0	-44.7	
	3346.00	-20.5	H	3.0	36.1	1.0	-55.6	-13.0	-42.6	
	High Ch, 847.5									
	1695.00	-24.3	V	3.0	37.0	1.0	-60.3	-13.0	-47.3	
	2542.50	-20.1	V	3.0	36.4	1.0	-55.6	-13.0	-42.6	
	3390.00	-20.3	V	3.0	36.1	1.0	-55.4	-13.0	-42.4	
	1695.00	-24.1	H	3.0	37.0	1.0	-60.1	-13.0	-47.1	
	2542.50	-22.2	H	3.0	36.4	1.0	-57.6	-13.0	-44.6	
	3390.00	-20.1	H	3.0	36.1	1.0	-55.2	-13.0	-42.2	

UL Verification Services, Inc.										
Above 1GHz High Frequency Substitution Measurement										
Company:		LG								
Project #:		15I21552								
Date:		8/27/2015								
Test Engineer:		Jude Semana								
Configuration:		EUT + AC Adapter + HS								
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
Band LTE5 1.4MHz 16QAM	Low Ch, 824.7									
	1649.40	-24.9	V	3.0	37.1	1.0	-61.0	-13.0	-48.0	
	2474.10	-19.8	V	3.0	36.4	1.0	-55.3	-13.0	-42.3	
	3298.80	-20.3	V	3.0	36.2	1.0	-55.4	-13.0	-42.4	
	1649.40	-25.2	H	3.0	37.1	1.0	-61.3	-13.0	-48.3	
	2474.10	-21.0	H	3.0	36.4	1.0	-56.4	-13.0	-43.4	
	3298.80	-20.6	H	3.0	36.2	1.0	-55.8	-13.0	-42.8	
	Mid Ch, 836.5									
	1673.00	-24.0	V	3.0	37.0	1.0	-60.0	-13.0	-47.0	
	2509.50	-19.3	V	3.0	36.4	1.0	-54.7	-13.0	-41.7	
	3346.00	-19.4	V	3.0	36.1	1.0	-54.6	-13.0	-41.6	
	1673.00	-24.2	H	3.0	37.0	1.0	-60.2	-13.0	-47.2	
	2509.50	-20.9	H	3.0	36.4	1.0	-56.3	-13.0	-43.3	
	3346.00	-19.8	H	3.0	36.1	1.0	-54.9	-13.0	-41.9	
	High Ch, 848.3									
	1696.60	-24.2	V	3.0	37.0	1.0	-60.1	-13.0	-47.1	
	2544.90	-19.5	V	3.0	36.4	1.0	-54.9	-13.0	-41.9	
	3393.20	-19.5	V	3.0	36.1	1.0	-54.6	-13.0	-41.6	
	1696.60	-24.4	H	3.0	37.0	1.0	-60.4	-13.0	-47.4	
	2544.90	-20.6	H	3.0	36.4	1.0	-56.0	-13.0	-43.0	
	3393.20	-20.1	H	3.0	36.1	1.0	-55.1	-13.0	-42.1	

UL Verification Services, Inc.										
Above 1GHz High Frequency Substitution Measurement										
Company:		LG								
Project #:		15I21552								
Date:		8/27/2015								
Test Engineer:		Jude Semana								
Configuration:		EUT + AC Adapter + HS								
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
Band LTE5 1.4MHz QPSK	Low Ch, 824.7									
	1649.40	-24.5	V	3.0	37.1	1.0	-60.6	-13.0	-47.6	
	2474.10	-19.6	V	3.0	36.4	1.0	-55.0	-13.0	-42.0	
	3298.80	-20.0	V	3.0	36.2	1.0	-55.2	-13.0	-42.2	
	1649.40	-25.0	H	3.0	37.1	1.0	-61.1	-13.0	-48.1	
	2474.10	-20.5	H	3.0	36.4	1.0	-56.0	-13.0	-43.0	
	3298.80	-20.6	H	3.0	36.2	1.0	-55.7	-13.0	-42.7	
	Mid Ch, 836.5									
	1673.00	-24.3	V	3.0	37.0	1.0	-60.3	-13.0	-47.3	
	2509.50	-19.3	V	3.0	36.4	1.0	-54.7	-13.0	-41.7	
	3346.00	-19.9	V	3.0	36.1	1.0	-55.1	-13.0	-42.1	
	1673.00	-24.7	H	3.0	37.0	1.0	-60.7	-13.0	-47.7	
	2509.50	-20.4	H	3.0	36.4	1.0	-55.8	-13.0	-42.8	
	3346.00	-20.1	H	3.0	36.1	1.0	-55.2	-13.0	-42.2	
	High Ch, 848.3									
	1696.60	-24.3	V	3.0	37.0	1.0	-60.3	-13.0	-47.3	
	2544.90	-19.4	V	3.0	36.4	1.0	-54.8	-13.0	-41.8	
	3393.20	-20.1	V	3.0	36.1	1.0	-55.1	-13.0	-42.1	
	1696.60	-24.8	H	3.0	37.0	1.0	-60.7	-13.0	-47.7	
	2544.90	-20.4	H	3.0	36.4	1.0	-55.8	-13.0	-42.8	
	3393.20	-20.3	H	3.0	36.1	1.0	-55.3	-13.0	-42.3	

LTE Band 7

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I21552								
Date:		8/20/2015								
Test Engineer:		A. Escamilla								
Configuration:		EUT, AC Adapter, Headset								
Location:		Chamber C								
Mode:		LTE_16QAM 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	-17.1	V	3.0	35.5	1.0	-51.5	-25.0	-26.5	
LTE7	7530.00	-13.5	V	3.0	35.7	1.0	-48.2	-25.0	-23.2	
	10040.00	-9.6	V	3.0	36.0	1.0	-44.6	-25.0	-19.6	
20MHz	5020.00	-15.7	H	3.0	35.5	1.0	-50.1	-25.0	-25.1	
	7530.00	-11.0	H	3.0	35.7	1.0	-45.7	-25.0	-20.7	
16QAM	10040.00	-9.3	H	3.0	36.0	1.0	-44.3	-25.0	-19.3	
	Mid Ch, 2535									
	5070.00	-17.0	V	3.0	35.4	1.0	-51.5	-25.0	-26.5	
	7605.00	-12.9	V	3.0	35.8	1.0	-47.7	-25.0	-22.7	
	10140.00	-9.7	V	3.0	36.0	1.0	-44.6	-25.0	-19.6	
	5070.00	-16.2	H	3.0	35.4	1.0	-50.7	-25.0	-25.7	
	7605.00	-11.9	H	3.0	35.8	1.0	-46.6	-25.0	-21.6	
	10140.00	-9.0	H	3.0	36.0	1.0	-44.0	-25.0	-19.0	
	High Ch, 2560									
	5120.00	-16.2	V	3.0	35.4	1.0	-50.7	-25.0	-25.7	
	7680.00	-12.1	V	3.0	35.8	1.0	-46.9	-25.0	-21.9	
	10240.00	-6.2	V	3.0	35.9	1.0	-41.1	-25.0	-16.1	
	5120.00	-16.1	H	3.0	35.4	1.0	-50.5	-25.0	-25.5	
	7680.00	-10.7	H	3.0	35.8	1.0	-45.5	-25.0	-20.5	
	10240.00	-7.7	H	3.0	35.9	1.0	-42.7	-25.0	-17.7	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I21552								
Date:		8/20/2015								
Test Engineer:		A. Escamilla								
Configuration:		EUT, AC Adapter, Headset								
Location:		Chamber C								
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									
LTE7	5020.00	-17.0	V	3.0	35.5	1.0	-51.5	-25.0	-26.5	
	7530.00	-12.9	V	3.0	35.7	1.0	-47.7	-25.0	-22.7	
	10040.00	-9.8	V	3.0	36.0	1.0	-44.8	-25.0	-19.8	
20MHz	5020.00	-16.0	H	3.0	35.5	1.0	-50.5	-25.0	-25.5	
	7530.00	-11.5	H	3.0	35.7	1.0	-46.2	-25.0	-21.2	
	10040.00	-9.5	H	3.0	36.0	1.0	-44.5	-25.0	-19.5	
QPSK	Mid Ch, 2535									
	5070.00	-16.9	V	3.0	35.4	1.0	-51.4	-25.0	-26.4	
	7605.00	-13.1	V	3.0	35.8	1.0	-47.9	-25.0	-22.9	
	10140.00	-9.8	V	3.0	36.0	1.0	-44.8	-25.0	-19.8	
	5070.00	-16.2	H	3.0	35.4	1.0	-50.6	-25.0	-25.6	
	7605.00	-11.5	H	3.0	35.8	1.0	-46.2	-25.0	-21.2	
	10140.00	-9.3	H	3.0	36.0	1.0	-44.2	-25.0	-19.2	
High Ch, 2560										
	5120.00	-15.9	V	3.0	35.4	1.0	-50.4	-25.0	-25.4	
	7680.00	-12.2	V	3.0	35.8	1.0	-47.0	-25.0	-22.0	
	10240.00	-6.4	V	3.0	35.9	1.0	-41.4	-25.0	-16.4	
	5120.00	-15.9	H	3.0	35.4	1.0	-50.3	-25.0	-25.3	
	7680.00	-11.1	H	3.0	35.8	1.0	-45.8	-25.0	-20.8	
	10240.00	-8.1	H	3.0	35.9	1.0	-43.0	-25.0	-18.0	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I21552								
Date:		8/20/2015								
Test Engineer:		A. Escamilla								
Configuration:		EUT, AC Adapter, Headset								
Location:		Chamber C								
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									
LTE7	5015.00	-17.1	V	3.0	35.5	1.0	-51.6	-25.0	-26.6	
	7522.50	-12.6	V	3.0	35.7	1.0	-47.3	-25.0	-22.3	
	10030.00	-10.4	V	3.0	36.0	1.0	-45.4	-25.0	-20.4	
15MHz	5015.00	-16.2	H	3.0	35.5	1.0	-50.7	-25.0	-25.7	
	7522.50	-10.6	H	3.0	35.7	1.0	-45.4	-25.0	-20.4	
	10030.00	-9.3	H	3.0	36.0	1.0	-44.3	-25.0	-19.3	
16QAM	Mid Ch, 2535									
	5070.00	-17.1	V	3.0	35.4	1.0	-51.6	-25.0	-26.6	
	7605.00	-12.5	V	3.0	35.8	1.0	-47.3	-25.0	-22.3	
	10140.00	-10.3	V	3.0	36.0	1.0	-45.3	-25.0	-20.3	
	5070.00	-16.0	H	3.0	35.4	1.0	-50.5	-25.0	-25.5	
	7605.00	-11.3	H	3.0	35.8	1.0	-46.1	-25.0	-21.1	
	10140.00	-9.5	H	3.0	36.0	1.0	-44.5	-25.0	-19.5	
	High Ch, 2562.5									
	5125.00	-16.7	V	3.0	35.4	1.0	-51.1	-25.0	-26.1	
	7687.50	-11.0	V	3.0	35.8	1.0	-45.8	-25.0	-20.8	
	10250.00	-5.9	V	3.0	35.9	1.0	-40.8	-25.0	-15.8	
	5125.00	-16.1	H	3.0	35.4	1.0	-50.5	-25.0	-25.5	
	7687.50	-10.6	H	3.0	35.8	1.0	-45.3	-25.0	-20.3	
	10250.00	-9.4	H	3.0	35.9	1.0	-44.3	-25.0	-19.3	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I21552								
Date:		8/20/2015								
Test Engineer:		A. Escamilla								
Configuration:		EUT, AC Adapter, Headset								
Location:		Chamber C								
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	-17.0	V	3.0	35.5	1.0	-51.4	-25.0	-26.4	
	7522.50	-12.6	V	3.0	35.7	1.0	-47.3	-25.0	-22.3	
	10030.00	-10.4	V	3.0	36.0	1.0	-45.4	-25.0	-20.4	
15MHz	5015.00	-16.3	H	3.0	35.5	1.0	-50.8	-25.0	-25.8	
	7522.50	-10.5	H	3.0	35.7	1.0	-45.2	-25.0	-20.2	
	10030.00	-9.5	H	3.0	36.0	1.0	-44.5	-25.0	-19.5	
QPSK	Mid Ch, 2535									
	5070.00	-16.0	V	3.0	35.4	1.0	-50.4	-25.0	-25.4	
	7605.00	-12.0	V	3.0	35.8	1.0	-46.7	-25.0	-21.7	
	10140.00	-10.3	V	3.0	36.0	1.0	-45.3	-25.0	-20.3	
	5070.00	-15.2	H	3.0	35.4	1.0	-49.6	-25.0	-24.6	
	7605.00	-11.2	H	3.0	35.8	1.0	-45.9	-25.0	-20.9	
	High Ch, 2562.5									
	5125.00	-15.5	V	3.0	35.4	1.0	-49.9	-25.0	-24.9	
	7687.50	-12.1	V	3.0	35.8	1.0	-46.9	-25.0	-21.9	
	10250.00	-5.2	V	3.0	35.9	1.0	-40.1	-25.0	-15.1	
	5125.00	-15.6	H	3.0	35.4	1.0	-50.1	-25.0	-25.1	
	7687.50	-11.0	H	3.0	35.8	1.0	-45.7	-25.0	-20.7	
	10250.00	-9.1	H	3.0	35.9	1.0	-44.0	-25.0	-19.0	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I21552								
Date:		8/20/2015								
Test Engineer:		A. Escamilla								
Configuration:		EUT, AC Adapter, Headset								
Location:		Chamber C								
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
	Low Ch, 2505									
LTE7	5010.00	-16.9	V	3.0	35.5	1.0	-51.4	-25.0	-26.4	
	7515.00	-12.8	V	3.0	35.7	1.0	-47.6	-25.0	-22.6	
	10020.00	-10.2	V	3.0	36.0	1.0	-45.3	-25.0	-20.3	
10MHz	5010.00	-16.2	H	3.0	35.5	1.0	-50.7	-25.0	-25.7	
	7515.00	-10.4	H	3.0	35.7	1.0	-45.2	-25.0	-20.2	
	10020.00	-9.4	H	3.0	36.0	1.0	-44.4	-25.0	-19.4	
16QAM	Mid Ch, 2535									
	5070.00	-17.4	V	3.0	35.4	1.0	-51.9	-25.0	-26.9	
	7605.00	-13.0	V	3.0	35.8	1.0	-47.7	-25.0	-22.7	
	10140.00	-9.0	V	3.0	36.0	1.0	-44.0	-25.0	-19.0	
	5070.00	-16.4	H	3.0	35.4	1.0	-50.9	-25.0	-25.9	
	7605.00	-11.7	H	3.0	35.8	1.0	-46.5	-25.0	-21.5	
	10140.00	-9.9	H	3.0	36.0	1.0	-44.9	-25.0	-19.9	
	High Ch, 2565									
	5130.00	-15.4	V	3.0	35.4	1.0	-49.9	-25.0	-24.9	
	7695.00	-11.2	V	3.0	35.8	1.0	-46.0	-25.0	-21.0	
	10260.00	-5.6	V	3.0	35.9	1.0	-40.5	-25.0	-15.5	
	5130.00	-15.7	H	3.0	35.4	1.0	-50.1	-25.0	-25.1	
	7695.00	-10.7	H	3.0	35.8	1.0	-45.5	-25.0	-20.5	
	10260.00	-8.1	H	3.0	35.9	1.0	-43.0	-25.0	-18.0	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I21552								
Date:		8/20/2015								
Test Engineer:		A. Escamilla								
Configuration:		EUT, AC Adapter, Headset								
Location:		Chamber C								
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	-16.9	V	3.0	35.5	1.0	-51.3	-25.0	-26.3	
	7515.00	-13.0	V	3.0	35.7	1.0	-47.7	-25.0	-22.7	
	10020.00	-9.5	V	3.0	36.0	1.0	-44.6	-25.0	-19.6	
10MHz	5010.00	-16.1	H	3.0	35.5	1.0	-50.5	-25.0	-25.5	
	7515.00	-10.1	H	3.0	35.7	1.0	-44.8	-25.0	-19.8	
	10020.00	-9.3	H	3.0	36.0	1.0	-44.3	-25.0	-19.3	
QPSK	Mid Ch, 2535									
	5070.00	-16.9	V	3.0	35.4	1.0	-51.3	-25.0	-26.3	
	7605.00	-12.6	V	3.0	35.8	1.0	-47.4	-25.0	-22.4	
	10140.00	-9.3	V	3.0	36.0	1.0	-44.2	-25.0	-19.2	
	5070.00	-16.2	H	3.0	35.4	1.0	-50.7	-25.0	-25.7	
	7605.00	-11.9	H	3.0	35.8	1.0	-46.7	-25.0	-21.7	
	10140.00	-9.7	H	3.0	36.0	1.0	-44.7	-25.0	-19.7	
	High Ch, 2565									
	5130.00	-15.7	V	3.0	35.4	1.0	-50.1	-25.0	-25.1	
	7695.00	-11.8	V	3.0	35.8	1.0	-46.5	-25.0	-21.5	
	10260.00	-5.9	V	3.0	35.9	1.0	-40.8	-25.0	-15.8	
	5130.00	-15.3	H	3.0	35.4	1.0	-49.7	-25.0	-24.7	
	7695.00	-10.4	H	3.0	35.8	1.0	-45.2	-25.0	-20.2	
	10260.00	-8.5	H	3.0	35.9	1.0	-43.4	-25.0	-18.4	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I21552								
Date:		8/20/2015								
Test Engineer:		A. Escamilla								
Configuration:		EUT, AC Adapter, Headset								
Location:		Chamber C								
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	-16.9	V	3.0	35.5	1.0	-51.4	-25.0	-26.4	
	7507.50	-12.4	V	3.0	35.7	1.0	-47.2	-25.0	-22.2	
5MHz	10010.00	-10.5	V	3.0	36.0	1.0	-45.6	-25.0	-20.6	
	5005.00	-15.9	H	3.0	35.5	1.0	-50.4	-25.0	-25.4	
	7507.50	-10.3	H	3.0	35.7	1.0	-45.0	-25.0	-20.0	
	10010.00	-9.8	H	3.0	36.0	1.0	-44.8	-25.0	-19.8	
16QAM	Mid Ch, 2535									
	5070.00	-16.2	V	3.0	35.4	1.0	-50.6	-25.0	-25.6	
	7605.00	-11.7	V	3.0	35.8	1.0	-46.5	-25.0	-21.5	
	10140.00	-9.7	V	3.0	36.0	1.0	-44.6	-25.0	-19.6	
	5070.00	-16.3	H	3.0	35.4	1.0	-50.8	-25.0	-25.8	
	7605.00	-11.7	H	3.0	35.8	1.0	-46.5	-25.0	-21.5	
	High Ch, 2567.5									
	5135.00	-15.6	V	3.0	35.4	1.0	-50.0	-25.0	-25.0	
	7702.50	-11.1	V	3.0	35.8	1.0	-45.8	-25.0	-20.8	
	10270.00	-4.1	V	3.0	35.9	1.0	-39.0	-25.0	-14.0	
	5135.00	-15.0	H	3.0	35.4	1.0	-49.5	-25.0	-24.5	
	7702.50	-10.0	H	3.0	35.8	1.0	-44.7	-25.0	-19.7	
	10270.00	-7.9	H	3.0	35.9	1.0	-42.8	-25.0	-17.8	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I21552								
Date:		8/20/2015								
Test Engineer:		A. Escamilla								
Configuration:		EUT, AC Adapter, Headset								
Location:		Chamber C								
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	-17.1	V	3.0	35.5	1.0	-51.6	-25.0	-26.6	
	7507.50	-13.1	V	3.0	35.7	1.0	-47.9	-25.0	-22.9	
	10010.00	-9.8	V	3.0	36.0	1.0	-44.8	-25.0	-19.8	
5MHz	5005.00	-16.1	H	3.0	35.5	1.0	-50.5	-25.0	-25.5	
	7507.50	-10.2	H	3.0	35.7	1.0	-44.9	-25.0	-19.9	
	10010.00	-10.0	H	3.0	36.0	1.0	-45.0	-25.0	-20.0	
QPSK	Mid Ch, 2535									
	5070.00	-17.5	V	3.0	35.4	1.0	-51.9	-25.0	-26.9	
	7605.00	-11.9	V	3.0	35.8	1.0	-46.7	-25.0	-21.7	
	10140.00	-9.5	V	3.0	36.0	1.0	-44.5	-25.0	-19.5	
	5070.00	-16.1	H	3.0	35.4	1.0	-50.6	-25.0	-25.6	
	7605.00	-11.5	H	3.0	35.8	1.0	-46.2	-25.0	-21.2	
	10140.00	-9.6	H	3.0	36.0	1.0	-44.6	-25.0	-19.6	
	High Ch, 2567.5									
	5135.00	-14.8	V	3.0	35.4	1.0	-49.3	-25.0	-24.3	
	7702.50	-10.8	V	3.0	35.8	1.0	-45.6	-25.0	-20.6	
	10270.00	-2.6	V	3.0	35.9	1.0	-37.5	-25.0	-12.5	
	5135.00	-13.7	H	3.0	35.4	1.0	-48.1	-25.0	-23.1	
	7702.50	-9.2	H	3.0	35.8	1.0	-44.0	-25.0	-19.0	
	10270.00	-7.0	H	3.0	35.9	1.0	-41.9	-25.0	-16.9	

LTE Band 17

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG								
Project #:		15I21552								
Date:		8/27/2015								
Test Engineer:		Jude Semana								
Configuration:		EUT + Charger + Headset								
Location:		Chamber C								
Mode:		LTE_16QAM Band 17 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, 709									
LTE17	1418.00	-28.7	V	3.0	37.4	1.0	-65.1	-13.0	-52.1	
	2127.00	-20.3	V	3.0	36.6	1.0	-55.9	-13.0	-42.9	
10MHz	2836.00	-18.2	V	3.0	36.4	1.0	-53.6	-13.0	-40.6	
	1418.00	-27.5	H	3.0	37.4	1.0	-63.9	-13.0	-50.9	
16QAM	2127.00	-21.6	H	3.0	36.6	1.0	-57.1	-13.0	-44.1	
	2836.00	-18.9	H	3.0	36.4	1.0	-54.2	-13.0	-41.2	
	Mid Ch, 710									
	1420.00	-27.8	V	3.0	37.3	1.0	-64.2	-13.0	-51.2	
	2130.00	-20.4	V	3.0	36.6	1.0	-55.9	-13.0	-42.9	
	2840.00	-18.8	V	3.0	36.4	1.0	-54.2	-13.0	-41.2	
	1420.00	-27.7	H	3.0	37.3	1.0	-64.0	-13.0	-51.0	
	2130.00	-21.4	H	3.0	36.6	1.0	-56.9	-13.0	-43.9	
	2840.00	-19.4	H	3.0	36.4	1.0	-54.8	-13.0	-41.8	
	High Ch, 711									
	1422.00	-27.7	V	3.0	37.3	1.0	-64.1	-13.0	-51.1	
	2133.00	-20.9	V	3.0	36.6	1.0	-56.5	-13.0	-43.5	
	2844.00	-19.0	V	3.0	36.4	1.0	-54.4	-13.0	-41.4	
	1422.00	-27.8	H	3.0	37.3	1.0	-64.1	-13.0	-51.1	
	2133.00	-21.4	H	3.0	36.6	1.0	-57.0	-13.0	-44.0	
	2844.00	-19.0	H	3.0	36.4	1.0	-54.4	-13.0	-41.4	

UL Verification Services, Inc.										
Above 1GHz High Frequency Substitution Measurement										
Company:		LG								
Project #:		15I21552								
Date:		8/27/2015								
Test Engineer:		Jude Semana								
Configuration:		EUT + Charger + Headset								
Location:		Chamber C								
Mode:		LTE_QPSK Band 17 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, 709									
LTE17	1418.00	-27.0	V	3.0	37.4	1.0	-63.4	-13.0	-50.4	
	2127.00	-20.7	V	3.0	36.6	1.0	-56.2	-13.0	-43.2	
10MHz	2836.00	-19.2	V	3.0	36.4	1.0	-54.6	-13.0	-41.6	
	1418.00	-27.4	H	3.0	37.4	1.0	-63.8	-13.0	-50.8	
QPSK	2127.00	-21.3	H	3.0	36.6	1.0	-56.8	-13.0	-43.8	
	2836.00	-19.8	H	3.0	36.4	1.0	-55.2	-13.0	-42.2	
	Mid Ch, 710									
	1420.00	-27.7	V	3.0	37.3	1.0	-64.1	-13.0	-51.1	
	2130.00	-20.4	V	3.0	36.6	1.0	-55.9	-13.0	-42.9	
	2840.00	-19.2	V	3.0	36.4	1.0	-54.6	-13.0	-41.6	
	1420.00	-27.8	H	3.0	37.3	1.0	-64.2	-13.0	-51.2	
	2130.00	-21.4	H	3.0	36.6	1.0	-56.9	-13.0	-43.9	
	2840.00	-19.7	H	3.0	36.4	1.0	-55.1	-13.0	-42.1	
	High Ch, 711									
	1422.00	-28.1	V	3.0	37.3	1.0	-64.5	-13.0	-51.5	
	2133.00	-20.5	V	3.0	36.6	1.0	-56.0	-13.0	-43.0	
	2844.00	-19.0	V	3.0	36.4	1.0	-54.3	-13.0	-41.3	
	1422.00	-27.9	H	3.0	37.3	1.0	-64.2	-13.0	-51.2	
	2133.00	-20.9	H	3.0	36.6	1.0	-56.4	-13.0	-43.4	
	2844.00	-19.9	H	3.0	36.4	1.0	-55.3	-13.0	-42.3	

UL Verification Services, Inc										
Above 1GHz High Frequency Substitution Measurement										
Company:		LG								
Project #:		15I21552								
Date:		8/27/2015								
Test Engineer:		Jude Semana								
Configuration:		EUT + Charger + Headset								
Location:		Chamber C								
Mode:		LTE_16QAM Band 17 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, 706.5									
	1413.00	-26.8	V	3.0	37.4	1.0	-63.1	-13.0	-50.1	
LTE17	2119.50	-20.3	V	3.0	36.6	1.0	-55.9	-13.0	-42.9	
	2826.00	-18.0	V	3.0	36.4	1.0	-53.4	-13.0	-40.4	
5MHz	1413.00	-27.9	H	3.0	37.4	1.0	-64.3	-13.0	-51.3	
	2119.50	-21.4	H	3.0	36.6	1.0	-56.9	-13.0	-43.9	
16QAM	2826.00	-18.6	H	3.0	36.4	1.0	-54.0	-13.0	-41.0	
	Mid Ch, 710									
	1420.00	-27.9	V	3.0	37.3	1.0	-64.3	-13.0	-51.3	
	2130.00	-20.4	V	3.0	36.6	1.0	-56.0	-13.0	-43.0	
	2840.00	-18.2	V	3.0	36.4	1.0	-53.5	-13.0	-40.5	
	1420.00	-27.5	H	3.0	37.3	1.0	-63.8	-13.0	-50.8	
	2130.00	-20.4	H	3.0	36.6	1.0	-56.0	-13.0	-43.0	
	2840.00	-19.0	H	3.0	36.4	1.0	-54.4	-13.0	-41.4	
	High Ch, 713.5									
	1427.00	-27.2	V	3.0	37.3	1.0	-63.5	-13.0	-50.5	
	2140.50	-18.8	V	3.0	36.6	1.0	-54.4	-13.0	-41.4	
	2854.00	-19.1	V	3.0	36.4	1.0	-54.5	-13.0	-41.5	
	1427.00	-27.7	H	3.0	37.3	1.0	-64.0	-13.0	-51.0	
	2140.50	-20.5	H	3.0	36.6	1.0	-56.0	-13.0	-43.0	
	2854.00	-19.7	H	3.0	36.4	1.0	-55.1	-13.0	-42.1	

UL Verification Services, Inc Above 1GHz High Frequency Substitution Measurement										
Company:		LG								
Project #:		15I21552								
Date:		8/27/2015								
Test Engineer:		Jude Semana								
Configuration:		EUT + Charger + Headset								
Location:		Chamber C								
Mode:		LTE_QPSK Band 17 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, 706.5									
	1413.00	-27.9	V	3.0	37.4	1.0	-64.2	-13.0	-51.2	
LTE17	2119.50	-20.4	V	3.0	36.6	1.0	-56.0	-13.0	-43.0	
	2826.00	-19.0	V	3.0	36.4	1.0	-54.4	-13.0	-41.4	
5MHz	1413.00	-27.6	H	3.0	37.4	1.0	-64.0	-13.0	-51.0	
	2119.50	-21.7	H	3.0	36.6	1.0	-57.3	-13.0	-44.3	
QPSK	2826.00	-19.5	H	3.0	36.4	1.0	-54.9	-13.0	-41.9	
	Mid Ch, 710									
	1420.00	-28.1	V	3.0	37.3	1.0	-64.4	-13.0	-51.4	
	2130.00	-20.4	V	3.0	36.6	1.0	-55.9	-13.0	-42.9	
	2840.00	-18.8	V	3.0	36.4	1.0	-54.2	-13.0	-41.2	
	1420.00	-27.7	H	3.0	37.3	1.0	-64.0	-13.0	-51.0	
	2130.00	-21.2	H	3.0	36.6	1.0	-56.7	-13.0	-43.7	
	2840.00	-19.7	H	3.0	36.4	1.0	-55.1	-13.0	-42.1	
	High Ch, 713.5									
	1427.00	-26.9	V	3.0	37.3	1.0	-63.2	-13.0	-50.2	
	2140.50	-20.6	V	3.0	36.6	1.0	-56.2	-13.0	-43.2	
	2854.00	-19.8	V	3.0	36.4	1.0	-55.2	-13.0	-42.2	
	1427.00	-26.7	H	3.0	37.3	1.0	-63.0	-13.0	-50.0	
	2140.50	-21.8	H	3.0	36.6	1.0	-57.3	-13.0	-44.3	
	2854.00	-19.4	H	3.0	36.4	1.0	-54.8	-13.0	-41.8	

LTE Band 26

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG								
Project #:		15I21552								
Date:		8/27/2015								
Test Engineer:		Jude Semana								
Configuration:		EUT + AC Adapter + HS								
Location:		Chamber C								
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	Mid Ch, 831.5									
	1663.00	-25.3	V	3.0	37.0	1.0	-61.3	-13.0	-48.3	
LTE26	2494.50	-18.9	V	3.0	36.4	1.0	-54.3	-13.0	-41.3	
	3326.00	-19.8	V	3.0	36.2	1.0	-54.9	-13.0	-41.9	
15MHz	1663.00	-25.2	H	3.0	37.0	1.0	-61.3	-13.0	-48.3	
	2494.50	-21.1	H	3.0	36.4	1.0	-56.6	-13.0	-43.6	
16QAM	3326.00	-20.3	H	3.0	36.2	1.0	-55.5	-13.0	-42.5	
	Mid Ch, 836.5									
	1673.00	-25.6	V	3.0	37.0	1.0	-61.6	-13.0	-48.6	
	2509.50	-19.2	V	3.0	36.4	1.0	-54.6	-13.0	-41.6	
	3346.00	-19.9	V	3.0	36.1	1.0	-55.0	-13.0	-42.0	
	1673.00	-26.2	H	3.0	37.0	1.0	-62.2	-13.0	-49.2	
	2509.50	-21.2	H	3.0	36.4	1.0	-56.6	-13.0	-43.6	
	3346.00	-19.5	H	3.0	36.1	1.0	-54.6	-13.0	-41.6	
	High Ch, 841.5									
	1683.00	-25.6	V	3.0	37.0	1.0	-61.6	-13.0	-48.6	
	2524.50	-19.2	V	3.0	36.4	1.0	-54.6	-13.0	-41.6	
	3366.00	-19.8	V	3.0	36.1	1.0	-54.9	-13.0	-41.9	
	1683.00	-25.3	H	3.0	37.0	1.0	-61.3	-13.0	-48.3	
	2524.50	-20.9	H	3.0	36.4	1.0	-56.3	-13.0	-43.3	
	3366.00	-19.4	H	3.0	36.1	1.0	-54.5	-13.0	-41.5	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG								
Project #:		15I21552								
Date:		8/27/2015								
Test Engineer:		Jude Semana								
Configuration:		EUT + AC Adapter + HS								
Location:		Chamber C								
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	-25.0	V	3.0	37.0	1.0	-61.1	-13.0	-48.1	
LTE26	2494.50	-19.0	V	3.0	36.4	1.0	-54.4	-13.0	-41.4	
	3326.00	-19.8	V	3.0	36.2	1.0	-54.9	-13.0	-41.9	
15MHz	1663.00	-25.3	H	3.0	37.0	1.0	-61.3	-13.0	-48.3	
	2494.50	-20.9	H	3.0	36.4	1.0	-56.4	-13.0	-43.4	
QPSK	3326.00	-20.1	H	3.0	36.2	1.0	-55.3	-13.0	-42.3	
	Mid Ch, 836.5									
	1673.00	-25.2	V	3.0	37.0	1.0	-61.3	-13.0	-48.3	
	2509.50	-19.0	V	3.0	36.4	1.0	-54.4	-13.0	-41.4	
	3346.00	-19.4	V	3.0	36.1	1.0	-54.5	-13.0	-41.5	
	1673.00	-25.4	H	3.0	37.0	1.0	-61.4	-13.0	-48.4	
	2509.50	-21.1	H	3.0	36.4	1.0	-56.5	-13.0	-43.5	
	3346.00	-19.8	H	3.0	36.1	1.0	-55.0	-13.0	-42.0	
	High Ch, 841.5									
	1683.00	-25.2	V	3.0	37.0	1.0	-61.2	-13.0	-48.2	
	2524.50	-18.9	V	3.0	36.4	1.0	-54.3	-13.0	-41.3	
	3366.00	-19.5	V	3.0	36.1	1.0	-54.6	-13.0	-41.6	
	1683.00	-24.9	H	3.0	37.0	1.0	-60.9	-13.0	-47.9	
	2524.50	-21.0	H	3.0	36.4	1.0	-56.4	-13.0	-43.4	
	3366.00	-18.9	H	3.0	36.1	1.0	-54.0	-13.0	-41.0	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG								
Project #:		15I21552								
Date:		8/27/2015								
Test Engineer:		Jude Semana								
Configuration:		EUT + AC Adapter + HS								
Location:		Chamber C								
Mode:		LTE_16QAM Band 26 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, 819									
	1638.00	-24.5	V	3.0	37.0	1.0	-60.5	-13.0	-47.5	
LTE26	2457.00	-18.8	V	3.0	36.4	1.0	-54.2	-13.0	-41.2	
	3276.00	-19.8	V	3.0	36.2	1.0	-54.9	-13.0	-41.9	
10MHz	1638.00	-26.0	H	3.0	37.0	1.0	-62.0	-13.0	-49.0	
	2457.00	-21.0	H	3.0	36.4	1.0	-56.5	-13.0	-43.5	
16QAM	3276.00	-20.1	H	3.0	36.2	1.0	-55.3	-13.0	-42.3	
	Mid Ch, 831.5									
	1663.00	-24.4	V	3.0	37.0	1.0	-60.4	-13.0	-47.4	
	2494.50	-19.0	V	3.0	36.4	1.0	-54.4	-13.0	-41.4	
	3326.00	-19.7	V	3.0	36.1	1.0	-54.9	-13.0	-41.9	
	1663.00	-25.3	H	3.0	37.0	1.0	-61.3	-13.0	-48.3	
	2494.50	-21.0	H	3.0	36.4	1.0	-56.4	-13.0	-43.4	
	3326.00	-19.8	H	3.0	36.1	1.0	-55.0	-13.0	-42.0	
	High Ch, 844									
	1688.00	-24.8	V	3.0	37.0	1.0	-60.8	-13.0	-47.8	
	2532.00	-18.4	V	3.0	36.4	1.0	-53.8	-13.0	-40.8	
	3376.00	-20.2	V	3.0	36.1	1.0	-55.3	-13.0	-42.3	
	1688.00	-25.2	H	3.0	37.0	1.0	-61.2	-13.0	-48.2	
	2532.00	-20.6	H	3.0	36.4	1.0	-56.0	-13.0	-43.0	
	3376.00	-20.3	H	3.0	36.1	1.0	-55.4	-13.0	-42.4	

UL Verification Services, Inc.										
Above 1GHz High Frequency Substitution Measurement										
Company:		LG								
Project #:		15I21552								
Date:		8/27/2015								
Test Engineer:		Jude Semana								
Configuration:		EUT + AC Adapter + HS								
Location:		Chamber C								
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
Band	Low Ch, 819									
	1638.00	-24.7	V	3.0	37.0	1.0	-60.7	-13.0	-47.7	
	2457.00	-18.7	V	3.0	36.4	1.0	-54.1	-13.0	-41.1	
LTE26	3276.00	-19.9	V	3.0	36.2	1.0	-55.1	-13.0	-42.1	
	1638.00	-25.5	H	3.0	37.0	1.0	-61.5	-13.0	-48.5	
10MHz	2457.00	-20.5	H	3.0	36.4	1.0	-56.0	-13.0	-43.0	
	3276.00	-20.3	H	3.0	36.2	1.0	-55.5	-13.0	-42.5	
QPSK	Mid Ch, 831.5									
	1663.00	-24.9	V	3.0	37.0	1.0	-60.9	-13.0	-47.9	
	2494.50	-18.7	V	3.0	36.4	1.0	-54.2	-13.0	-41.2	
	3326.00	-19.5	V	3.0	36.1	1.0	-54.6	-13.0	-41.6	
	1663.00	-25.1	H	3.0	37.0	1.0	-61.1	-13.0	-48.1	
	2494.50	-20.6	H	3.0	36.4	1.0	-56.1	-13.0	-43.1	
	3326.00	-19.9	H	3.0	36.1	1.0	-55.0	-13.0	-42.0	
	High Ch, 844									
	1688.00	-24.9	V	3.0	37.0	1.0	-60.8	-13.0	-47.8	
	2532.00	-18.4	V	3.0	36.4	1.0	-53.8	-13.0	-40.8	
	3376.00	-20.0	V	3.0	36.1	1.0	-55.1	-13.0	-42.1	
	1688.00	-25.2	H	3.0	37.0	1.0	-61.2	-13.0	-48.2	
2532.00	-20.2	H	3.0	36.4	1.0	-55.6	-13.0	-42.6		
3376.00	-19.5	H	3.0	36.1	1.0	-54.6	-13.0	-41.6		

UL Verification Services, Inc.										
Above 1GHz High Frequency Substitution Measurement										
Company:		LG								
Project #:		15I21552								
Date:		8/27/2015								
Test Engineer:		Jude Semana								
Configuration:		EUT + AC Adapter + HS								
Location:		Chamber C								
Mode:		LTE_16QAM Band265 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, 816.5									
LTE26	1633.00	-24.8	V	3.0	37.0	1.0	-60.8	-13.0	-47.8	
	2449.50	-18.3	V	3.0	36.4	1.0	-53.7	-13.0	-40.7	
	3266.00	-19.8	V	3.0	36.2	1.0	-54.9	-13.0	-41.9	
5MHz	1633.00	-25.4	H	3.0	37.0	1.0	-61.4	-13.0	-48.4	
	2449.50	-20.1	H	3.0	36.4	1.0	-55.6	-13.0	-42.6	
16QAM	3266.00	-19.7	H	3.0	36.2	1.0	-54.9	-13.0	-41.9	
	Mid Ch, 831.5									
	1663.00	-24.8	V	3.0	37.0	1.0	-60.8	-13.0	-47.8	
	2494.50	-19.0	V	3.0	36.4	1.0	-54.5	-13.0	-41.5	
	3326.00	-19.7	V	3.0	36.1	1.0	-54.8	-13.0	-41.8	
	1663.00	-24.8	H	3.0	37.0	1.0	-60.8	-13.0	-47.8	
	2494.50	-20.5	H	3.0	36.4	1.0	-55.9	-13.0	-42.9	
	3326.00	-20.1	H	3.0	36.1	1.0	-55.2	-13.0	-42.2	
	High Ch, 846.5									
	1693.00	-24.8	V	3.0	37.0	1.0	-60.7	-13.0	-47.7	
	2539.50	-18.3	V	3.0	36.4	1.0	-53.7	-13.0	-40.7	
	3386.00	-19.5	V	3.0	36.1	1.0	-54.6	-13.0	-41.6	
	1693.00	-25.2	H	3.0	37.0	1.0	-61.2	-13.0	-48.2	
	2539.50	-20.0	H	3.0	36.4	1.0	-55.4	-13.0	-42.4	
	3386.00	-19.7	H	3.0	36.1	1.0	-54.8	-13.0	-41.8	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG								
Project #:		15I21552								
Date:		8/27/2015								
Test Engineer:		Jude Semana								
Configuration:		EUT + AC Adapter + HS								
Location:		Chamber C								
Mode:		LTE_QPSK Band 26 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, 816.5									
LTE26	1633.00	-24.8	V	3.0	37.0	1.0	-60.9	-13.0	-47.9	
	2449.50	-18.4	V	3.0	36.4	1.0	-53.9	-13.0	-40.9	
	3266.00	-19.7	V	3.0	36.2	1.0	-54.8	-13.0	-41.8	
5MHz	1633.00	-25.1	H	3.0	37.0	1.0	-61.1	-13.0	-48.1	
	2449.50	-20.4	H	3.0	36.4	1.0	-55.8	-13.0	-42.8	
QPSK	3266.00	-19.7	H	3.0	36.2	1.0	-54.8	-13.0	-41.8	
	Mid Ch, 831.5									
	1663.00	-24.2	V	3.0	37.0	1.0	-60.2	-13.0	-47.2	
	2494.50	-18.6	V	3.0	36.4	1.0	-54.1	-13.0	-41.1	
	3326.00	-19.8	V	3.0	36.1	1.0	-54.9	-13.0	-41.9	
	1663.00	-25.0	H	3.0	37.0	1.0	-61.0	-13.0	-48.0	
	2494.50	-20.5	H	3.0	36.4	1.0	-56.0	-13.0	-43.0	
	3326.00	-20.0	H	3.0	36.1	1.0	-55.1	-13.0	-42.1	
	High Ch, 846.5									
	1693.00	-24.7	V	3.0	37.0	1.0	-60.7	-13.0	-47.7	
	2539.50	-18.4	V	3.0	36.4	1.0	-53.8	-13.0	-40.8	
	3386.00	-19.9	V	3.0	36.1	1.0	-54.9	-13.0	-41.9	
	1693.00	-25.0	H	3.0	37.0	1.0	-60.9	-13.0	-47.9	
	2539.50	-19.7	H	3.0	36.4	1.0	-55.1	-13.0	-42.1	
	3386.00	-19.3	H	3.0	36.1	1.0	-54.4	-13.0	-41.4	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG								
Project #:		15I21552								
Date:		8/27/2015								
Test Engineer:		Jude Semana								
Configuration:		EUT + AC Adapter + HS								
Location:		Chamber C								
Mode:		LTE_16QAM Band 26 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, 815.5									
	1631.00	-24.6	V	3.0	37.0	1.0	-60.6	-13.0	-47.6	
LTE26	2446.50	-18.1	V	3.0	36.4	1.0	-53.6	-13.0	-40.6	
	3262.00	-19.5	V	3.0	36.2	1.0	-54.7	-13.0	-41.7	
3MHz	1631.00	-25.0	H	3.0	37.0	1.0	-61.1	-13.0	-48.1	
	2446.50	-20.8	H	3.0	36.4	1.0	-56.2	-13.0	-43.2	
16QAM	3262.00	-20.2	H	3.0	36.2	1.0	-55.4	-13.0	-42.4	
	Mid Ch, 831.5									
	1663.00	-24.1	V	3.0	37.0	1.0	-60.1	-13.0	-47.1	
	2494.50	-18.4	V	3.0	36.4	1.0	-53.8	-13.0	-40.8	
	3326.00	-19.7	V	3.0	36.1	1.0	-54.9	-13.0	-41.9	
	1663.00	-24.4	H	3.0	37.0	1.0	-60.4	-13.0	-47.4	
	2494.50	-20.2	H	3.0	36.4	1.0	-55.6	-13.0	-42.6	
	3326.00	-20.4	H	3.0	36.1	1.0	-55.5	-13.0	-42.5	
	High Ch, 847.5									
	1695.00	-24.2	V	3.0	37.0	1.0	-60.1	-13.0	-47.1	
	2542.50	-18.3	V	3.0	36.4	1.0	-53.7	-13.0	-40.7	
	3390.00	-20.1	V	3.0	36.1	1.0	-55.1	-13.0	-42.1	
	1695.00	-24.1	H	3.0	37.0	1.0	-60.0	-13.0	-47.0	
	2542.50	-19.9	H	3.0	36.4	1.0	-55.3	-13.0	-42.3	
	3390.00	-19.6	H	3.0	36.1	1.0	-54.6	-13.0	-41.6	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG								
Project #:		15I21552								
Date:		8/27/2015								
Test Engineer:		Jude Semana								
Configuration:		EUT + AC Adapter + HS								
Location:		Chamber C								
Mode:		LTE_QPSK Band 26 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, 815.5									
	1631.00	-24.3	V	3.0	37.0	1.0	-60.4	-13.0	-47.4	
LTE26	2446.50	-18.4	V	3.0	36.4	1.0	-53.9	-13.0	-40.9	
	3262.00	-19.7	V	3.0	36.2	1.0	-54.8	-13.0	-41.8	
3MHz	1631.00	-25.0	H	3.0	37.0	1.0	-61.0	-13.0	-48.0	
	2446.50	-20.6	H	3.0	36.4	1.0	-56.0	-13.0	-43.0	
QPSK	3262.00	-19.8	H	3.0	36.2	1.0	-54.9	-13.0	-41.9	
	Mid Ch, 831.5									
	1663.00	-24.1	V	3.0	37.0	1.0	-60.1	-13.0	-47.1	
	2494.50	-18.4	V	3.0	36.4	1.0	-53.8	-13.0	-40.8	
	3326.00	-19.8	V	3.0	36.1	1.0	-55.0	-13.0	-42.0	
	1663.00	-24.3	H	3.0	37.0	1.0	-60.3	-13.0	-47.3	
	2494.50	-20.1	H	3.0	36.4	1.0	-55.5	-13.0	-42.5	
	3326.00	-20.2	H	3.0	36.1	1.0	-55.3	-13.0	-42.3	
	High Ch, 847.5									
	1695.00	-24.6	V	3.0	37.0	1.0	-60.6	-13.0	-47.6	
	2542.50	-18.3	V	3.0	36.4	1.0	-53.7	-13.0	-40.7	
	3390.00	-19.7	V	3.0	36.1	1.0	-54.7	-13.0	-41.7	
	1695.00	-24.7	H	3.0	37.0	1.0	-60.7	-13.0	-47.7	
	2542.50	-19.8	H	3.0	36.4	1.0	-55.2	-13.0	-42.2	
	3390.00	-19.3	H	3.0	36.1	1.0	-54.4	-13.0	-41.4	

UL Verification Services, Inc.											
Above 1GHz High Frequency Substitution Measurement											
Company:		LG									
Project #:		15I21552									
Date:		8/27/2015									
Test Engineer:		Jude Semana									
Configuration:		EUT + AC Adapter + HS									
Location:		Chamber C									
Mode:		LTE_16QAM Band265 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	-24.4	V	3.0	37.1	1.0	-60.5	-13.0	-47.5	
		2444.10	-18.5	V	3.0	36.4	1.0	-53.9	-13.0	-40.9	
		3258.80	-19.7	V	3.0	36.2	1.0	-54.8	-13.0	-41.8	
		1629.40	-24.6	H	3.0	37.1	1.0	-60.7	-13.0	-47.7	
		2444.10	-20.4	H	3.0	36.4	1.0	-55.8	-13.0	-42.8	
		3258.80	-20.1	H	3.0	36.2	1.0	-55.3	-13.0	-42.3	
		Mid Ch, 831.5									
		1663.00	-24.1	V	3.0	37.0	1.0	-60.2	-13.0	-47.2	
		2494.50	-18.0	V	3.0	36.4	1.0	-53.4	-13.0	-40.4	
		3326.00	-19.7	V	3.0	36.1	1.0	-54.8	-13.0	-41.8	
		1663.00	-25.1	H	3.0	37.0	1.0	-61.1	-13.0	-48.1	
	2494.50	-20.3	H	3.0	36.4	1.0	-55.7	-13.0	-42.7		
	3326.00	0.0	H	3.0	36.1	1.0	-35.1	-13.0	-22.1		
	High Ch, 848.3										
	1696.60	-24.4	V	3.0	37.0	1.0	-60.4	-13.0	-47.4		
	2544.90	-18.6	V	3.0	36.4	1.0	-54.0	-13.0	-41.0		
	3393.20	-19.4	V	3.0	36.1	1.0	-54.5	-13.0	-41.5		
	1696.60	-24.6	H	3.0	37.0	1.0	-60.5	-13.0	-47.5		
	2544.90	-20.2	H	3.0	36.4	1.0	-55.6	-13.0	-42.6		
	3393.20	-19.4	H	3.0	36.1	1.0	-54.5	-13.0	-41.5		

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG								
Project #:		15I21552								
Date:		8/27/2015								
Test Engineer:		Jude Semana								
Configuration:		EUT + AC Adapter + HS								
Location:		Chamber C								
Mode:		LTE_QPSK Band 26 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
LTE26 1.4MHz	Low Ch, 814.7									
	1629.40	-24.3	V	3.0	37.1	1.0	-60.4	-13.0	-47.4	
	2444.10	-18.3	V	3.0	36.4	1.0	-53.8	-13.0	-40.8	
	3258.80	-19.8	V	3.0	36.2	1.0	-54.9	-13.0	-41.9	
	1629.40	-24.7	H	3.0	37.1	1.0	-60.8	-13.0	-47.8	
	2444.10	-20.3	H	3.0	36.4	1.0	-55.8	-13.0	-42.8	
QPSK	3258.80	-19.8	H	3.0	36.2	1.0	-55.0	-13.0	-42.0	
	Mid Ch, 831.5									
	1663.00	-24.1	V	3.0	37.0	1.0	-60.1	-13.0	-47.1	
	2494.50	-18.1	V	3.0	36.4	1.0	-53.5	-13.0	-40.5	
	3326.00	-19.7	V	3.0	36.1	1.0	-54.8	-13.0	-41.8	
	1663.00	-24.3	H	3.0	37.0	1.0	-60.3	-13.0	-47.3	
	2494.50	-20.0	H	3.0	36.4	1.0	-55.5	-13.0	-42.5	
	3326.00	-19.8	H	3.0	36.1	1.0	-54.9	-13.0	-41.9	
	High Ch, 848.3									
	1696.60	-24.4	V	3.0	37.0	1.0	-60.4	-13.0	-47.4	
	2544.90	-18.2	V	3.0	36.4	1.0	-53.7	-13.0	-40.7	
	3393.20	-19.5	V	3.0	36.1	1.0	-54.6	-13.0	-41.6	
1696.60	-24.5	H	3.0	37.0	1.0	-60.5	-13.0	-47.5		
2544.90	-20.1	H	3.0	36.4	1.0	-55.5	-13.0	-42.5		
3393.20	-19.6	H	3.0	36.1	1.0	-54.7	-13.0	-41.7		

LTE Band 41

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I21552								
Date:		8/20/2015								
Test Engineer:		A. Escamilla								
Configuration:		EUT, AC Adapter, Headset								
Location:		Chamber C								
Mode:		LTE_16QAM Band 41 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, 2506									
	5012.00	-17.5	V	3.0	35.5	1.0	-51.9	-25.0	-26.9	
LTE41	7518.00	-11.1	V	3.0	35.7	1.0	-45.8	-25.0	-20.8	
	10024.00	-6.9	V	3.0	36.0	1.0	-41.9	-25.0	-16.9	
20MHz	5012.00	-17.0	H	3.0	35.5	1.0	-51.4	-25.0	-26.4	
	7518.00	-12.0	H	3.0	35.7	1.0	-46.8	-25.0	-21.8	
16QAM	10024.00	-5.4	H	3.0	36.0	1.0	-40.4	-25.0	-15.4	
	Mid Ch, 2593									
	5186.00	-16.7	V	3.0	35.4	1.0	-51.1	-25.0	-26.1	
	7779.00	-11.6	V	3.0	35.8	1.0	-46.4	-25.0	-21.4	
	10372.00	-2.3	V	3.0	35.8	1.0	-37.2	-25.0	-12.2	
	5186.00	-16.2	H	3.0	35.4	1.0	-50.6	-25.0	-25.6	
	7779.00	-11.9	H	3.0	35.8	1.0	-46.6	-25.0	-21.6	
	10372.00	-3.8	H	3.0	35.8	1.0	-38.7	-25.0	-13.7	
	High Ch, 2680									
	5360.00	-15.5	V	3.0	35.4	1.0	-49.9	-25.0	-24.9	
	8040.00	-11.9	V	3.0	35.8	1.0	-46.7	-25.0	-21.7	
	10720.00	-2.1	V	3.0	35.7	1.0	-36.8	-25.0	-11.8	
	5360.00	-16.0	H	3.0	35.4	1.0	-50.4	-25.0	-25.4	
	8040.00	-10.9	H	3.0	35.8	1.0	-45.7	-25.0	-20.7	
	10720.00	-2.2	H	3.0	35.7	1.0	-36.9	-25.0	-11.9	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I21552								
Date:		8/20/2015								
Test Engineer:		A. Escamilla								
Configuration:		EUT, AC Adapter, Headset								
Location:		Chamber C								
Mode:		LTE_QPSK Band 41 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, 2506									
	5012.00	-16.8	V	3.0	35.5	1.0	-51.3	-25.0	-26.3	
LTE41	7518.00	-11.7	V	3.0	35.7	1.0	-46.4	-25.0	-21.4	
	10024.00	-8.6	V	3.0	36.0	1.0	-43.6	-25.0	-18.6	
20MHz	5012.00	-17.0	H	3.0	35.5	1.0	-51.4	-25.0	-26.4	
	7518.00	-12.1	H	3.0	35.7	1.0	-46.9	-25.0	-21.9	
QPSK	10024.00	-7.8	H	3.0	36.0	1.0	-42.8	-25.0	-17.8	
	Mid Ch, 2593									
	5186.00	-16.9	V	3.0	35.4	1.0	-51.3	-25.0	-26.3	
	7779.00	-11.6	V	3.0	35.8	1.0	-46.4	-25.0	-21.4	
	10372.00	-4.5	V	3.0	35.8	1.0	-39.3	-25.0	-14.3	
	5186.00	-16.2	H	3.0	35.4	1.0	-50.6	-25.0	-25.6	
	7779.00	-11.3	H	3.0	35.8	1.0	-46.1	-25.0	-21.1	
	10372.00	-5.9	H	3.0	35.8	1.0	-40.7	-25.0	-15.7	
	High Ch, 2680									
	5360.00	-16.6	V	3.0	35.4	1.0	-51.0	-25.0	-26.0	
	8040.00	-12.3	V	3.0	35.8	1.0	-47.1	-25.0	-22.1	
	10720.00	-4.5	V	3.0	35.7	1.0	-39.2	-25.0	-14.2	
	5360.00	-16.1	H	3.0	35.4	1.0	-50.5	-25.0	-25.5	
	8040.00	-11.3	H	3.0	35.8	1.0	-46.1	-25.0	-21.1	
	10720.00	-4.8	H	3.0	35.7	1.0	-39.5	-25.0	-14.5	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I21552								
Date:		8/20/2015								
Test Engineer:		A. Escamilla								
Configuration:		EUT, AC Adapter, Headset								
Location:		Chamber C								
Mode:		LTE_16QAM Band 41 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, 2503.5									
LTE41	5007.00	-17.3	V	3.0	35.5	1.0	-51.8	-25.0	-26.8	
	7510.50	-10.3	V	3.0	35.7	1.0	-45.0	-25.0	-20.0	
	10014.00	-8.8	V	3.0	36.0	1.0	-43.8	-25.0	-18.8	
15MHz	5007.00	-17.0	H	3.0	35.5	1.0	-51.4	-25.0	-26.4	
	7510.50	-12.1	H	3.0	35.7	1.0	-46.8	-25.0	-21.8	
	10014.00	-6.4	H	3.0	36.0	1.0	-41.5	-25.0	-16.5	
16QAM	Mid Ch, 2593									
	5186.00	-16.6	V	3.0	35.4	1.0	-51.0	-25.0	-26.0	
	7779.00	-12.3	V	3.0	35.8	1.0	-47.1	-25.0	-22.1	
	10372.00	-3.0	V	3.0	35.8	1.0	-37.9	-25.0	-12.9	
	5186.00	114.5	H	3.0	35.4	1.0	80.0	-25.0	105.0	
	7779.00	-11.4	H	3.0	35.8	1.0	-46.2	-25.0	-21.2	
	10372.00	-5.2	H	3.0	35.8	1.0	-40.1	-25.0	-15.1	
	High Ch, 2682.5									
	5365.00	-16.2	V	3.0	35.4	1.0	-50.6	-25.0	-25.6	
	8047.50	-12.4	V	3.0	35.8	1.0	-47.2	-25.0	-22.2	
	10730.00	-1.7	V	3.0	35.7	1.0	-36.4	-25.0	-11.4	
	5365.00	-15.6	H	3.0	35.4	1.0	-50.1	-25.0	-25.1	
	8047.50	-12.0	H	3.0	35.8	1.0	-46.8	-25.0	-21.8	
	10730.00	-4.6	H	3.0	35.7	1.0	-39.3	-25.0	-14.3	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I21552								
Date:		8/20/2015								
Test Engineer:		A. Escamilla								
Configuration:		EUT, AC Adapter, Headset								
Location:		Chamber C								
Mode:		LTE_QPSK Band 41 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, 2503.5									
LTE41	5007.00	-17.2	V	3.0	35.5	1.0	-51.7	-25.0	-26.7	
	7510.50	-11.0	V	3.0	35.7	1.0	-45.7	-25.0	-20.7	
	10014.00	-9.1	V	3.0	36.0	1.0	-44.2	-25.0	-19.2	
15MHz	5007.00	-17.3	H	3.0	35.5	1.0	-51.7	-25.0	-26.7	
	7510.50	-11.8	H	3.0	35.7	1.0	-46.5	-25.0	-21.5	
	10014.00	-7.9	H	3.0	36.0	1.0	-42.9	-25.0	-17.9	
QPSK	Mid Ch, 2593									
	5186.00	-15.9	V	3.0	35.4	1.0	-50.3	-25.0	-25.3	
	7779.00	-12.3	V	3.0	35.8	1.0	-47.0	-25.0	-22.0	
	10372.00	-5.1	V	3.0	35.8	1.0	-39.9	-25.0	-14.9	
	5186.00	-16.4	H	3.0	35.4	1.0	-50.8	-25.0	-25.8	
	7779.00	-11.3	H	3.0	35.8	1.0	-46.0	-25.0	-21.0	
	10372.00	-7.3	H	3.0	35.8	1.0	-42.2	-25.0	-17.2	
	High Ch, 2682.5									
	5365.00	-16.7	V	3.0	35.4	1.0	-51.1	-25.0	-26.1	
	8047.50	-12.0	V	3.0	35.8	1.0	-46.8	-25.0	-21.8	
	10730.00	-2.3	V	3.0	35.7	1.0	-36.9	-25.0	-11.9	
	5365.00	-15.6	H	3.0	35.4	1.0	-50.0	-25.0	-25.0	
	8047.50	-10.6	H	3.0	35.8	1.0	-45.4	-25.0	-20.4	
	10730.00	-7.0	H	3.0	35.7	1.0	-41.6	-25.0	-16.6	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I21552								
Date:		8/20/2015								
Test Engineer:		A. Escamilla								
Configuration:		EUT, AC Adapter, Headset								
Location:		Chamber C								
Mode:		LTE_16QAM Band 41 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, 2501									
	5002.00	-17.2	V	3.0	35.5	1.0	-51.7	-25.0	-26.7	
	7503.00	-10.4	V	3.0	35.7	1.0	-45.2	-25.0	-20.2	
	10004.00	-8.2	V	3.0	36.0	1.0	-43.2	-25.0	-18.2	
10MHz	5002.00	-16.7	H	3.0	35.5	1.0	-51.1	-25.0	-26.1	
	7503.00	-11.8	H	3.0	35.7	1.0	-46.5	-25.0	-21.5	
	10004.00	-6.6	H	3.0	36.0	1.0	-41.6	-25.0	-16.6	
16QAM	Mid Ch, 2593									
	5186.00	-17.0	V	3.0	35.4	1.0	-51.5	-25.0	-26.5	
	7779.00	-12.1	V	3.0	35.8	1.0	-46.9	-25.0	-21.9	
	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	-11.0	H	3.0	35.8	1.0	-45.8	-25.0	-20.8	
	10372.00	-4.9	H	3.0	35.8	1.0	-39.7	-25.0	-14.7	
	High Ch, 2685									
	5370.00	-16.8	V	3.0	35.4	1.0	-51.2	-25.0	-26.2	
	8055.00	-12.2	V	3.0	35.8	1.0	-47.0	-25.0	-22.0	
	10740.00	-4.3	V	3.0	35.7	1.0	-39.0	-25.0	-14.0	
	5370.00	-16.3	H	3.0	35.4	1.0	-50.7	-25.0	-25.7	
	8055.00	-11.6	H	3.0	35.8	1.0	-46.4	-25.0	-21.4	
	10740.00	-3.3	H	3.0	35.7	1.0	-37.9	-25.0	-12.9	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I21552								
Date:		8/20/2015								
Test Engineer:		A. Escamilla								
Configuration:		EUT, AC Adapter, Headset								
Location:		Chamber C								
Mode:		LTE_QPSK Band 41 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, 2501									
	5002.00	-17.6	V	3.0	35.5	1.0	-52.1	-25.0	-27.1	
	7503.00	-11.5	V	3.0	35.7	1.0	-46.3	-25.0	-21.3	
	10004.00	-8.6	V	3.0	36.0	1.0	-43.6	-25.0	-18.6	
10MHz	5002.00	-17.1	H	3.0	35.5	1.0	-51.6	-25.0	-26.6	
	7503.00	-11.7	H	3.0	35.7	1.0	-46.4	-25.0	-21.4	
	10004.00	-8.1	H	3.0	36.0	1.0	-43.1	-25.0	-18.1	
QPSK	Mid Ch, 2593									
	5186.00	-16.8	V	3.0	35.4	1.0	-51.2	-25.0	-26.2	
	7779.00	-11.5	V	3.0	35.8	1.0	-46.3	-25.0	-21.3	
	10372.00	-5.8	V	3.0	35.8	1.0	-40.7	-25.0	-15.7	
	5186.00	-15.7	H	3.0	35.4	1.0	-50.2	-25.0	-25.2	
	7779.00	-10.9	H	3.0	35.8	1.0	-45.7	-25.0	-20.7	
	10372.00	-6.2	H	3.0	35.8	1.0	-41.0	-25.0	-16.0	
	High Ch, 2685									
	5370.00	-16.6	V	3.0	35.4	1.0	-51.1	-25.0	-26.1	
	8055.00	-12.7	V	3.0	35.8	1.0	-47.5	-25.0	-22.5	
	10740.00	-6.2	V	3.0	35.7	1.0	-40.8	-25.0	-15.8	
	5370.00	-16.3	H	3.0	35.4	1.0	-50.7	-25.0	-25.7	
	8055.00	-11.6	H	3.0	35.8	1.0	-46.4	-25.0	-21.4	
	10740.00	-5.7	H	3.0	35.7	1.0	-40.4	-25.0	-15.4	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I21552								
Date:		8/20/2015								
Test Engineer:		A. Escamilla								
Configuration:		EUT, AC Adapter, Headset								
Location:		Chamber C								
Mode:		LTE_16QAM Band 41 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, 2498.5									
	4997.00	-17.1	V	3.0	35.5	1.0	-51.5	-25.0	-26.5	
LTE41	7495.50	-11.1	V	3.0	35.7	1.0	-45.9	-25.0	-20.9	
	9994.00	-7.5	V	3.0	36.0	1.0	-42.5	-25.0	-17.5	
5MHz	4997.00	-17.1	H	3.0	35.5	1.0	-51.6	-25.0	-26.6	
	7495.50	-11.9	H	3.0	35.7	1.0	-46.7	-25.0	-21.7	
	9994.00	-5.0	H	3.0	36.0	1.0	-40.0	-25.0	-15.0	
16QAM	Mid Ch, 2593									
	5186.00	-16.1	V	3.0	35.4	1.0	-50.5	-25.0	-25.5	
	7779.00	-12.1	V	3.0	35.8	1.0	-46.9	-25.0	-21.9	
	10372.00	-6.4	V	3.0	35.8	1.0	-41.3	-25.0	-16.3	
	5186.00	-16.3	H	3.0	35.4	1.0	-50.7	-25.0	-25.7	
	7779.00	-11.0	H	3.0	35.8	1.0	-45.7	-25.0	-20.7	
	10372.00	-4.8	H	3.0	35.8	1.0	-39.7	-25.0	-14.7	
	High Ch, 2687.5									
	5375.00	-16.2	V	3.0	35.4	1.0	-50.7	-25.0	-25.7	
	8062.50	-12.2	V	3.0	35.8	1.0	-47.0	-25.0	-22.0	
	10750.00	-3.5	V	3.0	35.7	1.0	-38.1	-25.0	-13.1	
	5375.00	-16.1	H	3.0	35.4	1.0	-50.5	-25.0	-25.5	
	8062.50	-11.0	H	3.0	35.8	1.0	-45.8	-25.0	-20.8	
	10750.00	-3.9	H	3.0	35.7	1.0	-38.5	-25.0	-13.5	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I21552								
Date:		8/20/2015								
Test Engineer:		A. Escamilla								
Configuration:		EUT, AC Adapter, Headset								
Location:		Chamber C								
Mode:		LTE_QPSK Band 41 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, 2498.5									
	4997.00	-16.9	V	3.0	35.5	1.0	-51.4	-25.0	-26.4	
LTE41	7495.50	-11.8	V	3.0	35.7	1.0	-46.6	-25.0	-21.6	
	9994.00	-9.2	V	3.0	36.0	1.0	-44.2	-25.0	-19.2	
5MHz	4997.00	-17.1	H	3.0	35.5	1.0	-51.5	-25.0	-26.5	
	7495.50	-11.5	H	3.0	35.7	1.0	-46.2	-25.0	-21.2	
QPSK	9994.00	-7.4	H	3.0	36.0	1.0	-42.4	-25.0	-17.4	
	Mid Ch, 2593									
	5186.00	-16.8	V	3.0	35.4	1.0	-51.2	-25.0	-26.2	
	7779.00	-11.7	V	3.0	35.8	1.0	-46.5	-25.0	-21.5	
	10372.00	-6.2	V	3.0	35.8	1.0	-41.1	-25.0	-16.1	
	5186.00	-16.9	H	3.0	35.4	1.0	-51.3	-25.0	-26.3	
	7779.00	-11.2	H	3.0	35.8	1.0	-46.0	-25.0	-21.0	
	10372.00	-5.8	H	3.0	35.8	1.0	-40.7	-25.0	-15.7	
	High Ch, 2687.5									
	5375.00	-16.0	V	3.0	35.4	1.0	-50.4	-25.0	-25.4	
	8062.50	-12.2	V	3.0	35.8	1.0	-47.0	-25.0	-22.0	
	10750.00	-6.1	V	3.0	35.7	1.0	-40.8	-25.0	-15.8	
	5375.00	-15.7	H	3.0	35.4	1.0	-50.1	-25.0	-25.1	
	8062.50	-11.5	H	3.0	35.8	1.0	-46.3	-25.0	-21.3	
	10750.00	-7.2	H	3.0	35.7	1.0	-41.8	-25.0	-16.8	