

12.2. FIELD STRENGTH OF SPURIOUS RADIATION

RULE PART(S)

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

LIMIT

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

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

TEST PROCEDURE

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

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

MODES TESTED

GSM, WCDMA, CDMA, and LTE

RESULTS

12.2.1. SPURIOUS RADIATION PLOTS

GSM

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: LG Electronics Project #: 15I21235 Date: 7/14/2015 Test Engineer: A. Escamilla Configuration: X-pos EUT w/ AC Adapter + Headset Location: Chamber C Mode: GPRS 1900 MHz Harmonics									
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1850.2									
3700.40	-20.1	V	3.0	35.9	1.0	-55.0	-13.0	-42.0	
5550.60	-17.3	V	3.0	35.5	1.0	-51.8	-13.0	-38.8	
7400.80	-13.8	V	3.0	35.7	1.0	-48.5	-13.0	-35.5	
3700.40	-22.0	H	3.0	35.9	1.0	-56.8	-13.0	-43.8	
5550.60	-11.8	H	3.0	35.5	1.0	-46.3	-13.0	-33.3	
7400.80	-13.3	H	3.0	35.7	1.0	-48.0	-13.0	-35.0	
Mid Ch, 1880									
3760.00	-20.2	V	3.0	35.8	1.0	-55.0	-13.0	-42.0	
5640.00	-17.6	V	3.0	35.5	1.0	-52.1	-13.0	-39.1	
7520.00	-14.3	V	3.0	35.7	1.0	-49.0	-13.0	-36.0	
3760.00	-20.9	H	3.0	35.8	1.0	-55.7	-13.0	-42.7	
5640.00	-12.0	H	3.0	35.5	1.0	-46.5	-13.0	-33.5	
7520.00	-12.9	H	3.0	35.7	1.0	-47.6	-13.0	-34.6	
High Ch, 1909.8									
3819.60	-20.2	V	3.0	35.8	1.0	-54.9	-13.0	-41.9	
5729.40	-15.9	V	3.0	35.5	1.0	-50.4	-13.0	-37.4	
7639.20	-14.0	V	3.0	35.8	1.0	-48.8	-13.0	-35.8	
3819.60	-20.8	H	3.0	35.8	1.0	-55.5	-13.0	-42.5	
5729.40	-11.0	H	3.0	35.5	1.0	-45.5	-13.0	-32.5	
7639.20	-12.0	H	3.0	35.8	1.0	-46.7	-13.0	-33.7	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: LG Electronics Project #: 15I21235 Date: 7/14/2015 Test Engineer: A. Escamilla Configuration: X-pos EUT w/ AC Adapter + Headset Location: Chamber C Mode: EGPRS 1900 MHz Harmonics									
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamplifier (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1850.2									
3700.40	-20.3	V	3.0	35.9	1.0	-55.2	-13.0	-42.2	
5550.60	-15.3	V	3.0	35.5	1.0	-49.7	-13.0	-36.7	
7400.80	-14.1	V	3.0	35.7	1.0	-48.9	-13.0	-35.9	
3700.40	-20.8	H	3.0	35.9	1.0	-55.6	-13.0	-42.6	
5550.60	-15.5	H	3.0	35.5	1.0	-50.0	-13.0	-37.0	
7400.80	-13.4	H	3.0	35.7	1.0	-48.2	-13.0	-35.2	
Mid Ch, 1880									
3760.00	-20.1	V	3.0	35.8	1.0	-54.9	-13.0	-41.9	
5640.00	-15.0	V	3.0	35.5	1.0	-49.5	-13.0	-36.5	
7520.00	-13.8	V	3.0	35.7	1.0	-48.6	-13.0	-35.6	
3760.00	-21.5	H	3.0	35.8	1.0	-56.3	-13.0	-43.3	
5640.00	-16.8	H	3.0	35.5	1.0	-51.3	-13.0	-38.3	
7520.00	-13.7	H	3.0	35.7	1.0	-48.4	-13.0	-35.4	
High Ch, 1909.8									
3819.60	-19.6	V	3.0	35.8	1.0	-54.4	-13.0	-41.4	
5729.40	-16.0	V	3.0	35.5	1.0	-50.5	-13.0	-37.5	
7639.20	-13.9	V	3.0	35.8	1.0	-48.6	-13.0	-35.6	
3819.60	-20.3	H	3.0	35.8	1.0	-55.1	-13.0	-42.1	
5729.40	-16.2	H	3.0	35.5	1.0	-50.7	-13.0	-37.7	
7639.20	-13.0	H	3.0	35.8	1.0	-47.8	-13.0	-34.8	

Band	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: LG Electronics Project #: 15I21235 Date: 7/14/2015 Test Engineer: A. Escamilla Configuration: X-pos EUT w/ AC Adapter + Headset Location: Chamber C Mode: EGPRS 850 MHz Harmonics									
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 824.2									
GSM	1648.40	-14.8	V	3.0	37.0	1.0	-50.9	-13.0	-37.9	
	2472.60	-4.6	V	3.0	36.4	1.0	-40.0	-13.0	-27.0	
	3296.80	-12.9	V	3.0	36.2	1.0	-48.0	-13.0	-35.0	
850	1648.40	-19.7	H	3.0	37.0	1.0	-55.8	-13.0	-42.8	
	2472.60	-6.1	H	3.0	36.4	1.0	-41.6	-13.0	-28.6	
	3296.80	-15.1	H	3.0	36.2	1.0	-50.3	-13.0	-37.3	
EGPRS	Mid Ch, 836.6									
	1673.20	-18.0	V	3.0	37.0	1.0	-54.0	-13.0	-41.0	
	2509.80	-16.3	V	3.0	36.4	1.0	-51.7	-13.0	-38.7	
	3346.40	-20.4	V	3.0	36.1	1.0	-55.5	-13.0	-42.5	
	1673.20	-19.9	H	3.0	37.0	1.0	-55.9	-13.0	-42.9	
	2509.80	-17.0	H	3.0	36.4	1.0	-52.5	-13.0	-39.5	
	3346.40	-21.9	H	3.0	36.1	1.0	-57.1	-13.0	-44.1	
	High Ch, 848.8									
	1697.60	-27.5	V	3.0	37.0	1.0	-63.4	-13.0	-50.4	
	2546.40	-22.6	V	3.0	36.4	1.0	-58.0	-13.0	-45.0	
	3395.20	-21.8	V	3.0	36.1	1.0	-56.8	-13.0	-43.8	
	1697.60	-27.3	H	3.0	37.0	1.0	-63.3	-13.0	-50.3	
	2546.40	-23.9	H	3.0	36.4	1.0	-59.3	-13.0	-46.3	
	3395.20	-23.0	H	3.0	36.1	1.0	-58.1	-13.0	-45.1	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: LG Electronics Project #: 15I21235 Date: 7/14/2015 Test Engineer: A. Escamilla Configuration: X-pos EUT w/ AC Adapter + Headset Location: Chamber C Mode: GPRS 850 MHz Harmonics									
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamplifier (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 824.2									
1648.40	-15.7	V	3.0	37.0	1.0	-51.7	-13.0	-38.7	
2472.60	-6.9	V	3.0	36.4	1.0	-42.3	-13.0	-29.3	
3296.80	-12.9	V	3.0	36.2	1.0	-48.0	-13.0	-35.0	
1648.40	-17.3	H	3.0	37.0	1.0	-53.3	-13.0	-40.3	
2472.60	-17.4	H	3.0	36.4	1.0	-52.8	-13.0	-39.8	
3296.80	-22.0	H	3.0	36.2	1.0	-57.2	-13.0	-44.2	
Mid Ch, 836.6									
1673.20	-19.0	V	3.0	37.0	1.0	-55.0	-13.0	-42.0	
2509.80	-16.5	V	3.0	36.4	1.0	-51.9	-13.0	-38.9	
3346.40	-20.8	V	3.0	36.1	1.0	-55.9	-13.0	-42.9	
1673.20	-21.2	H	3.0	37.0	1.0	-57.2	-13.0	-44.2	
2509.80	-20.9	H	3.0	36.4	1.0	-56.3	-13.0	-43.3	
3346.40	-17.0	H	3.0	36.1	1.0	-52.1	-13.0	-39.1	
High Ch, 848.8									
1697.60	-26.4	V	3.0	37.0	1.0	-62.4	-13.0	-49.4	
2546.40	-23.3	V	3.0	36.4	1.0	-58.7	-13.0	-45.7	
3395.20	-21.6	V	3.0	36.1	1.0	-56.7	-13.0	-43.7	
1697.60	-27.7	H	3.0	37.0	1.0	-63.7	-13.0	-50.7	
2546.40	-24.4	H	3.0	36.4	1.0	-59.8	-13.0	-46.8	
3395.20	-22.8	H	3.0	36.1	1.0	-57.9	-13.0	-44.9	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: LG Electronics Project #: 15I21235 Date: 7/14/2015 Test Engineer: A. Escamilla Configuration: X-pos EUT w/ AC Adapter + Headset Location: Chamber C Mode: Rel99 Band 2 Harmonics									
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1852.4									
3704.80	-13.6	V	3.0	35.9	1.0	-48.5	-13.0	-35.5	
5557.20	-7.7	V	3.0	35.5	1.0	-42.1	-13.0	-29.1	
7409.60	-14.9	V	3.0	35.7	1.0	-49.7	-13.0	-36.7	
3704.80	-18.1	H	3.0	35.9	1.0	-53.0	-13.0	-40.0	
5557.20	-17.2	H	3.0	35.5	1.0	-51.6	-13.0	-38.6	
7409.60	-12.8	H	3.0	35.7	1.0	-47.5	-13.0	-34.5	
Mid Ch, 1880									
3760.00	-13.7	V	3.0	35.8	1.0	-48.5	-13.0	-35.5	
5640.00	-16.9	V	3.0	35.5	1.0	-51.4	-13.0	-38.4	
7520.00	-13.5	V	3.0	35.7	1.0	-48.2	-13.0	-35.2	
3760.00	-13.2	H	3.0	35.8	1.0	-48.0	-13.0	-35.0	
5640.00	-16.2	H	3.0	35.5	1.0	-50.7	-13.0	-37.7	
7520.00	-13.2	H	3.0	35.7	1.0	-47.9	-13.0	-34.9	
High Ch, 1907.6									
3815.20	-14.4	V	3.0	35.8	1.0	-49.1	-13.0	-36.1	
5722.80	-14.7	V	3.0	35.5	1.0	-49.2	-13.0	-36.2	
7630.40	-13.9	V	3.0	35.8	1.0	-48.6	-13.0	-35.6	
3815.20	-15.5	H	3.0	35.8	1.0	-50.3	-13.0	-37.3	
5722.80	-16.2	H	3.0	35.5	1.0	-50.7	-13.0	-37.7	
7630.40	-12.6	H	3.0	35.8	1.0	-47.3	-13.0	-34.3	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I21235							
Date:		7/14/2015							
Test Engineer:		A. Escamilla							
Configuration:		X-pos EUT w/ AC Adapter + Headset							
Location:		Chamber C							
Mode:		HSDPA Band 4 Harmonics							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1712.4									
3424.80	-19.1	V	3.0	35.9	1.0	-53.9	-13.0	-40.9	
5137.20	-16.8	V	3.0	35.5	1.0	-51.2	-13.0	-38.2	
6849.60	-12.6	V	3.0	35.7	1.0	-47.3	-13.0	-34.3	
3424.80	-15.1	H	3.0	35.9	1.0	-49.9	-13.0	-36.9	
5137.20	-15.7	H	3.0	35.5	1.0	-50.2	-13.0	-37.2	
6849.60	-11.7	H	3.0	35.7	1.0	-46.5	-13.0	-33.5	
Mid Ch, 1732.6									
3465.20	-19.0	V	3.0	35.8	1.0	-53.8	-13.0	-40.8	
5197.80	-15.9	V	3.0	35.5	1.0	-50.4	-13.0	-37.4	
6930.40	-12.8	V	3.0	35.7	1.0	-47.6	-13.0	-34.6	
3465.20	-14.1	H	3.0	35.8	1.0	-48.9	-13.0	-35.9	
5197.80	-16.4	H	3.0	35.5	1.0	-50.9	-13.0	-37.9	
6930.40	-10.8	H	3.0	35.7	1.0	-45.5	-13.0	-32.5	
High Ch, 1752.6									
3505.20	-19.1	V	3.0	35.8	1.0	-53.9	-13.0	-40.9	
5257.80	-15.7	V	3.0	35.5	1.0	-50.2	-13.0	-37.2	
7010.40	-13.3	V	3.0	35.8	1.0	-48.0	-13.0	-35.0	
3505.20	-14.0	H	3.0	35.8	1.0	-48.8	-13.0	-35.8	
5257.80	-15.2	H	3.0	35.5	1.0	-49.7	-13.0	-36.7	
7010.40	-10.9	H	3.0	35.8	1.0	-45.7	-13.0	-32.7	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I21235							
Date:		7/14/2015							
Test Engineer:		A. Escamilla							
Configuration:		X-pos EUT w/ AC Adapter + Headset							
Location:		Chamber C							
Mode:		REL99 Band 4 Harmonics							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1712.4									
3424.80	-14.7	V	3.0	35.9	1.0	-49.5	-13.0	-36.5	
5137.20	-16.1	V	3.0	35.5	1.0	-50.5	-13.0	-37.5	
6849.60	-13.3	V	3.0	35.7	1.0	-48.0	-13.0	-35.0	
3424.80	-13.6	H	3.0	35.9	1.0	-48.4	-13.0	-35.4	
5137.20	-15.5	H	3.0	35.5	1.0	-50.0	-13.0	-37.0	
6849.60	-11.9	H	3.0	35.7	1.0	-46.6	-13.0	-33.6	
Mid Ch, 1732.6									
3465.20	-13.7	V	3.0	35.8	1.0	-48.5	-13.0	-35.5	
5197.80	-16.8	V	3.0	35.5	1.0	-51.3	-13.0	-38.3	
6930.40	-12.6	V	3.0	35.7	1.0	-47.3	-13.0	-34.3	
3465.20	-12.7	H	3.0	35.8	1.0	-47.5	-13.0	-34.5	
5197.80	-15.0	H	3.0	35.5	1.0	-49.5	-13.0	-36.5	
6930.40	-12.0	H	3.0	35.7	1.0	-46.7	-13.0	-33.7	
High Ch, 1752.6									
3505.20	-13.5	V	3.0	35.8	1.0	-48.2	-13.0	-35.2	
5257.80	-15.0	V	3.0	35.5	1.0	-49.5	-13.0	-36.5	
7010.40	-13.9	V	3.0	35.8	1.0	-48.7	-13.0	-35.7	
3505.20	-13.6	H	3.0	35.8	1.0	-48.4	-13.0	-35.4	
5257.80	-16.9	H	3.0	35.5	1.0	-51.4	-13.0	-38.4	
7010.40	-12.1	H	3.0	35.8	1.0	-46.8	-13.0	-33.8	

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UL VERIFICATION SERVICES INC. FORM NO: CCSUP4701H
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UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: LG Electronics Project #: 15I21235 Date: 7/14/2015 Test Engineer: A. Escamilla Configuration: X-pos EUT w/ AC Adapter + Headset Location: Chamber C Mode: Rel99 Band 5 Harmonics									
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamplifier (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 826.4									
1652.80	-28.2	V	3.0	37.0	1.0	-64.2	-13.0	-51.2	
2479.20	-23.3	V	3.0	36.4	1.0	-58.7	-13.0	-45.7	
3305.60	-20.8	V	3.0	36.1	1.0	-55.9	-13.0	-42.9	
1652.80	-27.5	H	3.0	37.0	1.0	-63.5	-13.0	-50.5	
2479.20	-24.6	H	3.0	36.4	1.0	-60.1	-13.0	-47.1	
3305.60	-21.4	H	3.0	36.1	1.0	-56.5	-13.0	-43.5	
Mid Ch, 836.6									
1673.20	-27.0	V	3.0	37.0	1.0	-63.0	-13.0	-50.0	
2509.80	-22.5	V	3.0	36.4	1.0	-57.9	-13.0	-44.9	
3346.40	-20.9	V	3.0	36.1	1.0	-56.0	-13.0	-43.0	
1673.20	-27.6	H	3.0	37.0	1.0	-63.6	-13.0	-50.6	
2509.80	-24.1	H	3.0	36.4	1.0	-59.5	-13.0	-46.5	
3346.40	-21.0	H	3.0	36.1	1.0	-56.1	-13.0	-43.1	
High Ch, 846.6									
1693.20	-27.2	V	3.0	37.0	1.0	-63.1	-13.0	-50.1	
2539.80	-22.4	V	3.0	36.4	1.0	-57.8	-13.0	-44.8	
3386.40	-21.3	V	3.0	36.1	1.0	-56.4	-13.0	-43.4	
1693.20	-28.2	H	3.0	37.0	1.0	-64.2	-13.0	-51.2	
2539.80	-24.4	H	3.0	36.4	1.0	-59.8	-13.0	-46.8	
3386.40	-20.6	H	3.0	36.1	1.0	-55.7	-13.0	-42.7	

[illegible]

UL Verification Services Chamber C Above 1GHz High Frequency Substitution Measurement									
Company: LG Electronics Project #: 15I21235 Date: 7/21/2015 Test Engineer: R.Alegre Configuration: EUT w/ AC Adapter + HS Mode: RTT BC1 HARM									
Chamber		Pre-amplifier		Filter		Limit			
3m Chamber		T34 8449B		Filter 1		Part 24			
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1851.25 MHz									
3.703	-12.4	H	3.0	35.4	1.0	-46.8	-13.0	-33.8	
5.554	-12.7	H	3.0	34.7	1.0	-46.4	-13.0	-33.4	
7.405	-12.5	H	3.0	34.9	1.0	-46.4	-13.0	-33.4	
3.703	-10.1	V	3.0	35.4	1.0	-44.5	-13.0	-31.5	
5.554	-16.4	V	3.0	34.7	1.0	-50.1	-13.0	-37.1	
7.405	-13.3	V	3.0	34.9	1.0	-47.2	-13.0	-34.2	
Mid Ch, 1880 MHz									
3.760	-11.1	H	3.0	35.3	1.0	-45.5	-13.0	-32.5	
5.640	-16.5	H	3.0	34.7	1.0	-50.2	-13.0	-37.2	
7.520	-12.7	H	3.0	34.9	1.0	-46.6	-13.0	-33.6	
3.760	-15.3	V	3.0	35.3	1.0	-49.7	-13.0	-36.7	
5.640	-14.6	V	3.0	34.7	1.0	-48.3	-13.0	-35.3	
7.520	-12.8	V	3.0	34.9	1.0	-46.8	-13.0	-33.8	
High Ch, 1908.75 MHz									
3.818	-19.4	H	3.0	35.3	1.0	-53.7	-13.0	-40.7	
5.726	-13.5	H	3.0	34.7	1.0	-47.2	-13.0	-34.2	
7.635	-12.0	H	3.0	34.9	1.0	-45.9	-13.0	-32.9	
3.818	-15.3	V	3.0	35.3	1.0	-49.6	-13.0	-36.6	
5.726	-15.8	V	3.0	34.7	1.0	-49.6	-13.0	-36.6	
7.635	-13.1	V	3.0	34.9	1.0	-47.0	-13.0	-34.0	
Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.									

UL Verification Services Chamber C Above 1GHz High Frequency Substitution Measurement									
Company: LG Electronics Project #: 15I21235 Date: 7/21/2015 Test Engineer: R.Alegre Configuration: EUT w/ AC Adapter + HS Mode: EVDO BC0									
Chamber		Pre-amplifier		Filter		Limit			
3m Chamber		T34 8449B		Filter 1		Part 22			
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 824.7MHz									
1.649	-27.4	H	3.0	37.4	1.0	-63.8	-13.0	-50.8	
2.474	-17.2	H	3.0	36.4	1.0	-52.6	-13.0	-39.6	
3.299	-22.1	H	3.0	35.8	1.0	-56.9	-13.0	-43.9	
1.649	-28.3	V	3.0	37.4	1.0	-64.7	-13.0	-51.7	
2.474	-20.7	V	3.0	36.4	1.0	-56.1	-13.0	-43.1	
3.299	-21.1	V	3.0	35.8	1.0	-55.9	-13.0	-42.9	
Mid Ch, 836.52MHz									
1.673	-24.8	H	3.0	37.3	1.0	-61.1	-13.0	-48.1	
2.510	-23.6	H	3.0	36.4	1.0	-59.0	-13.0	-46.0	
3.346	-21.5	H	3.0	35.8	1.0	-56.3	-13.0	-43.3	
1.673	-27.7	V	3.0	37.3	1.0	-64.0	-13.0	-51.0	
2.510	-18.2	V	3.0	36.4	1.0	-53.6	-13.0	-40.6	
3.346	-21.7	V	3.0	35.8	1.0	-56.4	-13.0	-43.4	
High Ch, 848.31MHz									
1.697	-26.1	H	3.0	37.3	1.0	-62.4	-13.0	-49.4	
2.545	-23.0	H	3.0	36.3	1.0	-58.3	-13.0	-45.3	
3.393	-21.9	H	3.0	35.7	1.0	-56.6	-13.0	-43.6	
1.697	-27.3	V	3.0	37.3	1.0	-63.6	-13.0	-50.6	
2.545	-15.3	V	3.0	36.3	1.0	-50.7	-13.0	-37.7	
3.393	-22.0	V	3.0	35.7	1.0	-56.7	-13.0	-43.7	
Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.									

UL Verification Services Chamber C Above 1GHz High Frequency Substitution Measurement									
Company: LG Electronics Project #: 15I21235 Date: 7/21/2015 Test Engineer: R.Alegre Configuration: EUT w/ AC Adapter + HS Mode: RTT BC0									
Chamber		Pre-amplifier		Filter		Limit			
3m Chamber		T34 8449B		Filter 1		Part 22			
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 824.7MHz									
1.649	-27.4	H	3.0	37.4	1.0	-63.8	-13.0	-50.8	
2.474	-17.1	H	3.0	36.4	1.0	-52.5	-13.0	-39.5	
3.299	-22.2	H	3.0	35.8	1.0	-57.0	-13.0	-44.0	
1.649	-28.1	V	3.0	37.4	1.0	-64.5	-13.0	-51.5	
2.474	-20.6	V	3.0	36.4	1.0	-56.0	-13.0	-43.0	
3.299	-21.2	V	3.0	35.8	1.0	-56.0	-13.0	-43.0	
Mid Ch, 836.52MHz									
1.673	-24.8	H	3.0	37.3	1.0	-61.2	-13.0	-48.2	
2.510	-23.6	H	3.0	36.4	1.0	-58.9	-13.0	-45.9	
3.346	-21.5	H	3.0	35.8	1.0	-56.2	-13.0	-43.2	
1.673	-27.6	V	3.0	37.3	1.0	-64.0	-13.0	-51.0	
2.510	-18.5	V	3.0	36.4	1.0	-53.8	-13.0	-40.8	
3.346	-21.7	V	3.0	35.8	1.0	-56.4	-13.0	-43.4	
High Ch, 848.31MHz									
1.697	-26.1	H	3.0	37.3	1.0	-62.4	-13.0	-49.4	
2.545	-22.9	H	3.0	36.3	1.0	-58.2	-13.0	-45.2	
3.393	-21.9	H	3.0	35.7	1.0	-56.6	-13.0	-43.6	
1.697	-27.4	V	3.0	37.3	1.0	-63.7	-13.0	-50.7	
2.545	-15.1	V	3.0	36.3	1.0	-50.5	-13.0	-37.5	
3.393	-21.9	V	3.0	35.7	1.0	-56.6	-13.0	-43.6	
Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.									

UL Verification Services Chamber C Above 1GHz High Frequency Substitution Measurement									
Company: LG Electronics Project #: 15I21235 Date: 7/21/2015 Test Engineer: R.Alegre Configuration: EUT w/ AC Adapter + HS Mode: EVDO BC10									
Chamber		Pre-amplifier		Filter		Limit			
3m Chamber		T34 8449B		Filter 1		Part 22			
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 817.9MHz									
1.636	-26.9	H	3.0	37.4	1.0	-63.3	-13.0	-50.3	
2.454	-17.8	H	3.0	36.4	1.0	-53.2	-13.0	-40.2	
3.272	-22.4	H	3.0	35.8	1.0	-57.2	-13.0	-44.2	
1.636	-28.0	V	3.0	37.4	1.0	-64.4	-13.0	-51.4	
2.454	-23.5	V	3.0	36.4	1.0	-58.9	-13.0	-45.9	
3.272	-22.3	V	3.0	35.8	1.0	-57.2	-13.0	-44.2	
Mid Ch, 820.50MHz									
1.641	-26.9	H	3.0	37.4	1.0	-63.3	-13.0	-50.3	
2.462	-19.3	H	3.0	36.4	1.0	-54.7	-13.0	-41.7	
3.282	-21.9	H	3.0	35.8	1.0	-56.8	-13.0	-43.8	
1.641	-28.0	V	3.0	37.4	1.0	-64.4	-13.0	-51.4	
2.462	-21.9	V	3.0	36.4	1.0	-57.3	-13.0	-44.3	
3.282	-21.7	V	3.0	35.8	1.0	-56.5	-13.0	-43.5	
High Ch, 823.10MHz									
1.646	-27.2	H	3.0	37.4	1.0	-63.5	-13.0	-50.5	
2.469	-19.6	H	3.0	36.4	1.0	-55.0	-13.0	-42.0	
3.292	-21.8	H	3.0	35.8	1.0	-56.6	-13.0	-43.6	
1.646	-28.1	V	3.0	37.4	1.0	-64.5	-13.0	-51.5	
2.469	-18.9	V	3.0	36.4	1.0	-54.3	-13.0	-41.3	
3.292	-21.9	V	3.0	35.8	1.0	-56.7	-13.0	-43.7	
Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.									

UL Verification Services Chamber C Above 1GHz High Frequency Substitution Measurement									
Company: LG Electronics Project #: 15I21235 Date: 7/21/2015 Test Engineer: R.Alegre Configuration: EUT w/ AC Adapter + HS Mode: RTT BC10									
Chamber		Pre-amplifier		Filter		Limit			
3m Chamber		T34 8449B		Filter 1		Part 22			
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 817.9MHz									
1.636	-26.8	H	3.0	37.4	1.0	-63.2	-13.0	-50.2	
2.454	-17.6	H	3.0	36.4	1.0	-53.0	-13.0	-40.0	
3.272	-22.4	H	3.0	35.8	1.0	-57.3	-13.0	-44.3	
1.636	-28.0	V	3.0	37.4	1.0	-64.4	-13.0	-51.4	
2.454	-23.7	V	3.0	36.4	1.0	-59.1	-13.0	-46.1	
3.272	-22.1	V	3.0	35.8	1.0	-56.9	-13.0	-43.9	
Mid Ch, 820.50MHz									
1.641	-26.7	H	3.0	37.4	1.0	-63.1	-13.0	-50.1	
2.462	-19.1	H	3.0	36.4	1.0	-54.5	-13.0	-41.5	
3.282	-21.8	H	3.0	35.8	1.0	-56.6	-13.0	-43.6	
1.641	-27.9	V	3.0	37.4	1.0	-64.3	-13.0	-51.3	
2.462	-22.0	V	3.0	36.4	1.0	-57.4	-13.0	-44.4	
3.282	-21.8	V	3.0	35.8	1.0	-56.6	-13.0	-43.6	
High Ch, 823.10MHz									
1.646	-27.2	H	3.0	37.4	1.0	-63.6	-13.0	-50.6	
2.469	-19.3	H	3.0	36.4	1.0	-54.7	-13.0	-41.7	
3.292	-21.6	H	3.0	35.8	1.0	-56.4	-13.0	-43.4	
1.646	-28.0	V	3.0	37.4	1.0	-64.4	-13.0	-51.4	
2.469	-19.0	V	3.0	36.4	1.0	-54.4	-13.0	-41.4	
3.292	-21.7	V	3.0	35.8	1.0	-56.5	-13.0	-43.5	
Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.									

LTE Band 2

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: LG Project #: 15I21235 Date: 7/14/2015 Test Engineer: O. Stoelting Configuration: X-pos EUT, Ac Charger, Headset Location: Chamber A Mode: LTE_16QAM Band 2 Harmonics, 20MHz Bandwidth									
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1860									
3720.00	-18.2	V	3.0	35.8	1.0	-53.0	-13.0	-40.0	
5580.00	-16.6	V	3.0	35.5	1.0	-51.1	-13.0	-38.1	
7440.00	-16.4	V	3.0	35.7	1.0	-51.1	-13.0	-38.1	
3720.00	-18.2	H	3.0	35.8	1.0	-53.1	-13.0	-40.1	
5580.00	-15.3	H	3.0	35.5	1.0	-49.7	-13.0	-36.7	
7440.00	-15.0	H	3.0	35.7	1.0	-49.7	-13.0	-36.7	
Mid Ch, 1880									
3760.00	-18.4	V	3.0	35.8	1.0	-53.2	-13.0	-40.2	
5640.00	-17.4	V	3.0	35.5	1.0	-51.8	-13.0	-38.8	
7520.00	-15.2	V	3.0	35.7	1.0	-50.0	-13.0	-37.0	
3760.00	-18.7	H	3.0	35.8	1.0	-53.5	-13.0	-40.5	
5640.00	-17.4	H	3.0	35.5	1.0	-51.8	-13.0	-38.8	
7520.00	-14.6	H	3.0	35.7	1.0	-49.3	-13.0	-36.3	
High Ch, 1900									
3800.00	-17.1	V	3.0	35.8	1.0	-51.9	-13.0	-38.9	
5700.00	-17.3	V	3.0	35.5	1.0	-51.8	-13.0	-38.8	
7600.00	-14.7	V	3.0	35.8	1.0	-49.5	-13.0	-36.5	
3800.00	-17.7	H	3.0	35.8	1.0	-52.5	-13.0	-39.5	
5700.00	-16.4	H	3.0	35.5	1.0	-50.9	-13.0	-37.9	
7600.00	-14.6	H	3.0	35.8	1.0	-49.4	-13.0	-36.4	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: LG Project #: 15I21235 Date: 7/14/2015 Test Engineer: O. Stoelting Configuration: X-pos EUT, Ac Charger, Headset Location: Chamber A Mode: LTE_16QAM Band 2 Harmonics, 15MHz Bandwidth									
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1857.5									
3715.00	-18.2	V	3.0	35.8	1.0	-53.0	-13.0	-40.0	
5572.50	-16.1	V	3.0	35.5	1.0	-50.5	-13.0	-37.5	
7430.00	-16.0	V	3.0	35.7	1.0	-50.8	-13.0	-37.8	
3715.00	-18.5	H	3.0	35.8	1.0	-53.3	-13.0	-40.3	
5572.50	-14.6	H	3.0	35.5	1.0	-49.1	-13.0	-36.1	
7430.00	-14.7	H	3.0	35.7	1.0	-49.4	-13.0	-36.4	
Mid Ch, 1880									
3760.00	-18.9	V	3.0	35.8	1.0	-53.7	-13.0	-40.7	
5640.00	-17.7	V	3.0	35.5	1.0	-52.2	-13.0	-39.2	
7520.00	-14.4	V	3.0	35.7	1.0	-49.2	-13.0	-36.2	
3760.00	-18.7	H	3.0	35.8	1.0	-53.6	-13.0	-40.6	
5640.00	-16.2	H	3.0	35.5	1.0	-50.7	-13.0	-37.7	
7520.00	-13.8	H	3.0	35.7	1.0	-48.6	-13.0	-35.6	
High Ch, 1902.5									
3805.00	-18.1	V	3.0	35.8	1.0	-52.8	-13.0	-39.8	
5707.50	-16.6	V	3.0	35.5	1.0	-51.1	-13.0	-38.1	
7610.00	-15.3	V	3.0	35.8	1.0	-50.0	-13.0	-37.0	
3805.00	-17.6	H	3.0	35.8	1.0	-52.4	-13.0	-39.4	
5707.50	-17.0	H	3.0	35.5	1.0	-51.5	-13.0	-38.5	
7610.00	-14.1	H	3.0	35.8	1.0	-48.8	-13.0	-35.8	

		UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement								
		Company: LG Electronics								
		Project #: 15I21235								
		Date: 7/16/2015								
		Test Engineer: D. Mun								
		Configuration: EUT w/ AC Charger + HS								
		Location: Chamber A								
		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
	Low Ch, 1855									
LTE2	3710.00	-18.5	V	3.0	35.9	1.0	-53.3	-13.0	-40.3	
	5565.00	-17.5	V	3.0	35.5	1.0	-52.0	-13.0	-39.0	
10MHz	7420.00	-15.0	V	3.0	35.7	1.0	-49.8	-13.0	-36.8	
	3710.00	-19.1	H	3.0	35.9	1.0	-53.9	-13.0	-40.9	
16QAM	5565.00	-17.1	H	3.0	35.5	1.0	-51.6	-13.0	-38.6	
	7420.00	-13.9	H	3.0	35.7	1.0	-48.6	-13.0	-35.6	
	Mid Ch, 1880									
	3760.00	-18.9	V	3.0	35.8	1.0	-53.7	-13.0	-40.7	
	5640.00	-17.4	V	3.0	35.5	1.0	-51.9	-13.0	-38.9	
	7520.00	-14.8	V	3.0	35.7	1.0	-49.6	-13.0	-36.6	
	3760.00	-18.3	H	3.0	35.8	1.0	-53.1	-13.0	-40.1	
	5640.00	-16.4	H	3.0	35.5	1.0	-50.9	-13.0	-37.9	
	7520.00	-14.3	H	3.0	35.7	1.0	-49.1	-13.0	-36.1	
	High Ch, 1905									
	3810.00	-17.1	V	3.0	35.8	1.0	-51.9	-13.0	-38.9	
	5715.00	-17.4	V	3.0	35.5	1.0	-51.9	-13.0	-38.9	
	7620.00	-14.6	V	3.0	35.8	1.0	-49.4	-13.0	-36.4	
	3810.00	-19.0	H	3.0	35.8	1.0	-53.8	-13.0	-40.8	
	5715.00	-16.8	H	3.0	35.5	1.0	-51.3	-13.0	-38.3	
	7620.00	-13.7	H	3.0	35.8	1.0	-48.5	-13.0	-35.5	

LTE Band 4

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: LG Project #: 15I21235 Date: 7/22/2015 Test Engineer: A. Escamilla Configuration: X-Pos, EUT Only Location: Chamber C Mode: LTE_16QAM Band 4 Harmonics, 20MHz Bandwidth									
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamplifier (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1720									
3440.00	-18.3	V	3.0	36.0	1.0	-53.3	-13.0	-40.3	
5160.00	-16.0	V	3.0	35.4	1.0	-50.4	-13.0	-37.4	
6880.00	-14.3	V	3.0	35.7	1.0	-49.0	-13.0	-36.0	
3440.00	-18.5	H	3.0	36.0	1.0	-53.5	-13.0	-40.5	
5160.00	-17.0	H	3.0	35.4	1.0	-51.4	-13.0	-38.4	
6880.00	-13.1	H	3.0	35.7	1.0	-47.8	-13.0	-34.8	
Mid Ch, 1732.5									
3465.00	-19.6	V	3.0	36.0	1.0	-54.6	-13.0	-41.6	
5197.50	-17.1	V	3.0	35.4	1.0	-51.5	-13.0	-38.5	
6930.00	-14.1	V	3.0	35.7	1.0	-48.8	-13.0	-35.8	
3465.00	-18.0	H	3.0	36.0	1.0	-53.1	-13.0	-40.1	
5197.50	-15.3	H	3.0	35.4	1.0	-49.8	-13.0	-36.8	
6930.00	-12.9	H	3.0	35.7	1.0	-47.5	-13.0	-34.5	
High Ch, 1745									
3490.00	-19.6	V	3.0	36.0	1.0	-54.7	-13.0	-41.7	
5235.00	-16.6	V	3.0	35.4	1.0	-51.0	-13.0	-38.0	
6980.00	-13.4	V	3.0	35.7	1.0	-48.1	-13.0	-35.1	
3490.00	-18.2	H	3.0	36.0	1.0	-53.3	-13.0	-40.3	
5235.00	-15.9	H	3.0	35.4	1.0	-50.3	-13.0	-37.3	
6980.00	-11.5	H	3.0	35.7	1.0	-46.2	-13.0	-33.2	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: LG Project #: 15I21235 Date: 7/22/2015 Test Engineer: A. Escamilla Configuration: X-Pos, EUT Only Location: Chamber C Mode: LTE_16QAM Band 4 Harmonics, 15MHz Bandwidth									
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1717.5									
3435.00	-20.2	V	3.0	36.1	1.0	-55.2	-13.0	-42.2	
5152.50	-16.8	V	3.0	35.4	1.0	-51.2	-13.0	-38.2	
6870.00	-13.9	V	3.0	35.7	1.0	-48.6	-13.0	-35.6	
3435.00	-18.7	H	3.0	36.1	1.0	-53.8	-13.0	-40.8	
5152.50	-15.4	H	3.0	35.4	1.0	-49.8	-13.0	-36.8	
6870.00	-12.6	H	3.0	35.7	1.0	-47.2	-13.0	-34.2	
Mid Ch, 1732.5									
3465.00	-18.2	V	3.0	36.0	1.0	-53.2	-13.0	-40.2	
5197.50	-15.6	V	3.0	35.4	1.0	-50.0	-13.0	-37.0	
6930.00	-13.8	V	3.0	35.7	1.0	-48.4	-13.0	-35.4	
3465.00	-19.7	H	3.0	36.0	1.0	-54.8	-13.0	-41.8	
5197.50	-14.9	H	3.0	35.4	1.0	-49.3	-13.0	-36.3	
6930.00	-13.0	H	3.0	35.7	1.0	-47.7	-13.0	-34.7	
High Ch, 1747.5									
3495.00	-18.7	V	3.0	36.0	1.0	-53.8	-13.0	-40.8	
5242.50	-15.6	V	3.0	35.4	1.0	-50.0	-13.0	-37.0	
6990.00	-13.7	V	3.0	35.7	1.0	-48.3	-13.0	-35.3	
3495.00	-20.6	H	3.0	36.0	1.0	-55.6	-13.0	-42.6	
5242.50	-16.8	H	3.0	35.4	1.0	-51.2	-13.0	-38.2	
6990.00	-13.3	H	3.0	35.7	1.0	-48.0	-13.0	-35.0	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: LG Project #: 15I21235 Date: 7/22/2015 Test Engineer: A. Escamilla Configuration: X-Pos, EUT Only Location: Chamber C Mode: LTE_QPSK Band 4 Harmonics, 15MHz Bandwidth									
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamplifier (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1717.5									
3435.00	-19.9	V	3.0	36.1	1.0	-54.9	-13.0	-41.9	
5152.50	-16.5	V	3.0	35.4	1.0	-51.0	-13.0	-38.0	
6870.00	-12.7	V	3.0	35.7	1.0	-47.3	-13.0	-34.3	
3435.00	-18.4	H	3.0	36.1	1.0	-53.5	-13.0	-40.5	
5152.50	-14.5	H	3.0	35.4	1.0	-49.0	-13.0	-36.0	
6870.00	-11.6	H	3.0	35.7	1.0	-46.3	-13.0	-33.3	
Mid Ch, 1732.5									
3465.00	-19.6	V	3.0	36.0	1.0	-54.6	-13.0	-41.6	
5197.50	-16.7	V	3.0	35.4	1.0	-51.1	-13.0	-38.1	
6930.00	-15.3	V	3.0	35.7	1.0	-50.0	-13.0	-37.0	
3465.00	-19.8	H	3.0	36.0	1.0	-54.9	-13.0	-41.9	
5197.50	-16.2	H	3.0	35.4	1.0	-50.6	-13.0	-37.6	
6930.00	-12.6	H	3.0	35.7	1.0	-47.3	-13.0	-34.3	
High Ch, 1747.5									
3495.00	-18.5	V	3.0	36.0	1.0	-53.6	-13.0	-40.6	
5242.50	-16.1	V	3.0	35.4	1.0	-50.5	-13.0	-37.5	
6990.00	-13.8	V	3.0	35.7	1.0	-48.5	-13.0	-35.5	
3495.00	-18.6	H	3.0	36.0	1.0	-53.6	-13.0	-40.6	
5242.50	-15.3	H	3.0	35.4	1.0	-49.7	-13.0	-36.7	
6990.00	-12.1	H	3.0	35.7	1.0	-46.8	-13.0	-33.8	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: LG Project #: 15I21235 Date: 7/14/2015 Test Engineer: O. Stoelting Configuration: X-pos EUT, Ac Charger, Headset Location: Chamber A Mode: LTE_16QAM Band 4 Harmonics, 5MHz Bandwidth									
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1712.5									
3425.00	-18.9	V	3.0	36.1	1.0	-54.0	-13.0	-41.0	
5137.50	-16.9	V	3.0	35.4	1.0	-51.3	-13.0	-38.3	
6850.00	-15.9	V	3.0	35.7	1.0	-50.6	-13.0	-37.6	
3425.00	-21.1	H	3.0	36.1	1.0	-56.2	-13.0	-43.2	
5137.50	-16.8	H	3.0	35.4	1.0	-51.2	-13.0	-38.2	
6850.00	-14.6	H	3.0	35.7	1.0	-49.2	-13.0	-36.2	
Mid Ch, 1732.5									
3465.00	-19.7	V	3.0	36.0	1.0	-54.7	-13.0	-41.7	
5197.50	-17.5	V	3.0	35.4	1.0	-51.9	-13.0	-38.9	
6930.00	-16.5	V	3.0	35.7	1.0	-51.2	-13.0	-38.2	
3465.00	-21.4	H	3.0	36.0	1.0	-56.4	-13.0	-43.4	
5197.50	-17.2	H	3.0	35.4	1.0	-51.7	-13.0	-38.7	
6930.00	-14.8	H	3.0	35.7	1.0	-49.5	-13.0	-36.5	
High Ch, 1752.5									
3505.00	-13.2	V	3.0	36.0	1.0	-48.2	-13.0	-35.2	
5257.50	-17.6	V	3.0	35.4	1.0	-52.0	-13.0	-39.0	
7010.00	-17.1	V	3.0	35.7	1.0	-51.8	-13.0	-38.8	
3505.00	-18.2	H	3.0	36.0	1.0	-53.2	-13.0	-40.2	
5257.50	-16.2	H	3.0	35.4	1.0	-50.6	-13.0	-37.6	
7010.00	-16.1	H	3.0	35.7	1.0	-50.7	-13.0	-37.7	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: LG Project #: 15I21235 Date: 7/14/2015 Test Engineer: O. Stoelting Configuration: X-pos EUT, Ac Charger, Headset Location: Chamber A Mode: LTE_16QAM Band 4 Harmonics, 3MHz Bandwidth									
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1711.5									
3423.00	-22.1	V	3.0	36.1	1.0	-57.1	-13.0	-44.1	
5134.50	-17.2	V	3.0	35.4	1.0	-51.7	-13.0	-38.7	
6846.00	-16.2	V	3.0	35.7	1.0	-50.8	-13.0	-37.8	
3423.00	-18.0	H	3.0	36.1	1.0	-53.1	-13.0	-40.1	
5134.50	-15.8	H	3.0	35.4	1.0	-50.3	-13.0	-37.3	
6846.00	-15.6	H	3.0	35.7	1.0	-50.2	-13.0	-37.2	
Mid Ch, 1732.5									
3465.00	-20.3	V	3.0	36.0	1.0	-55.3	-13.0	-42.3	
5197.50	-16.6	V	3.0	35.4	1.0	-51.0	-13.0	-38.0	
6930.00	-16.6	V	3.0	35.7	1.0	-51.3	-13.0	-38.3	
3465.00	-17.4	H	3.0	36.0	1.0	-52.4	-13.0	-39.4	
5197.50	-15.9	H	3.0	35.4	1.0	-50.3	-13.0	-37.3	
6930.00	-14.6	H	3.0	35.7	1.0	-49.2	-13.0	-36.2	
High Ch, 1753.5									
3507.00	-17.7	V	3.0	36.0	1.0	-52.7	-13.0	-39.7	
5260.50	-17.4	V	3.0	35.4	1.0	-51.8	-13.0	-38.8	
7014.00	-15.7	V	3.0	35.7	1.0	-50.4	-13.0	-37.4	
3507.00	-13.8	H	3.0	36.0	1.0	-48.8	-13.0	-35.8	
5260.50	-17.0	H	3.0	35.4	1.0	-51.4	-13.0	-38.4	
7014.00	-15.9	H	3.0	35.7	1.0	-50.6	-13.0	-37.6	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: LG Project #: 15I21235 Date: 7/14/2015 Test Engineer: O. Stoelting Configuration: X-pos EUT, Ac Charger, Headset Location: Chamber A Mode: LTE_16QAM Band 4 Harmonics, 1.4MHz Bandwidth									
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1710.7									
3421.40	-21.4	V	3.0	36.1	1.0	-56.5	-13.0	-43.5	
5132.10	-17.5	V	3.0	35.4	1.0	-51.9	-13.0	-38.9	
6842.80	-17.2	V	3.0	35.7	1.0	-51.8	-13.0	-38.8	
3421.40	-17.3	H	3.0	36.1	1.0	-52.4	-13.0	-39.4	
5132.10	-16.3	H	3.0	35.4	1.0	-50.7	-13.0	-37.7	
6842.80	-15.6	H	3.0	35.7	1.0	-50.3	-13.0	-37.3	
Mid Ch, 1732.5									
3465.00	-17.9	V	3.0	36.0	1.0	-52.9	-13.0	-39.9	
5197.50	-18.2	V	3.0	35.4	1.0	-52.7	-13.0	-39.7	
6930.00	-15.7	V	3.0	35.7	1.0	-50.4	-13.0	-37.4	
3465.00	-21.9	H	3.0	36.0	1.0	-56.9	-13.0	-43.9	
5197.50	-17.3	H	3.0	35.4	1.0	-51.7	-13.0	-38.7	
6930.00	-15.4	H	3.0	35.7	1.0	-50.1	-13.0	-37.1	
High Ch, 1754.3									
3508.60	-20.4	V	3.0	36.0	1.0	-55.4	-13.0	-42.4	
5262.90	-17.8	V	3.0	35.4	1.0	-52.2	-13.0	-39.2	
7017.20	-17.4	V	3.0	35.7	1.0	-52.1	-13.0	-39.1	
3508.60	-19.7	H	3.0	36.0	1.0	-54.7	-13.0	-41.7	
5262.90	-16.3	H	3.0	35.4	1.0	-50.7	-13.0	-37.7	
7017.20	-16.0	H	3.0	35.7	1.0	-50.7	-13.0	-37.7	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: LG Electronics Project #: 15I21235 Date: 7/19/2015 Test Engineer: S.Tran Configuration: EUT , AC Adapter, Headset Location: Chamber C Mode: LTE_16QAM Band 6 Harmonics, 3MHz Bandwidth									
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamplifier (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 825.5									
1651.00	-22.9	V	3.0	37.0	1.0	-58.9	-13.0	-45.9	
2476.50	-23.6	V	3.0	36.4	1.0	-59.0	-13.0	-46.0	
3302.00	-22.1	V	3.0	36.2	1.0	-57.2	-13.0	-44.2	
1651.00	-28.2	H	3.0	37.0	1.0	-64.3	-13.0	-51.3	
2476.50	-25.3	H	3.0	36.4	1.0	-60.7	-13.0	-47.7	
3302.00	-22.2	H	3.0	36.2	1.0	-57.4	-13.0	-44.4	
Mid Ch, 836.5									
1673.00	-28.0	V	3.0	37.0	1.0	-64.0	-13.0	-51.0	
2509.50	-23.6	V	3.0	36.4	1.0	-59.0	-13.0	-46.0	
3346.00	-21.7	V	3.0	36.1	1.0	-56.9	-13.0	-43.9	
1673.00	-28.3	H	3.0	37.0	1.0	-64.3	-13.0	-51.3	
2509.50	-24.9	H	3.0	36.4	1.0	-60.4	-13.0	-47.4	
3346.00	-21.5	H	3.0	36.1	1.0	-56.6	-13.0	-43.6	
High Ch, 847.5									
1695.00	-26.0	V	3.0	37.0	1.0	-61.9	-13.0	-48.9	
2542.50	-24.0	V	3.0	36.4	1.0	-59.5	-13.0	-46.5	
3390.00	-21.5	V	3.0	36.1	1.0	-56.6	-13.0	-43.6	
1695.00	-27.1	H	3.0	37.0	1.0	-63.1	-13.0	-50.1	
2542.50	-25.1	H	3.0	36.4	1.0	-60.5	-13.0	-47.5	
3390.00	-21.4	H	3.0	36.1	1.0	-56.5	-13.0	-43.5	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: LG Electronics Project #: 15I21235 Date: 7/19/2015 Test Engineer: S.Tran Configuration: EUT , AC Adapter, Headset Location: Chamber C Mode: LTE_QPSK Band 5 Harmonics, 3MHz Bandwidth									
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 825.5									
1651.00	-22.8	V	3.0	37.0	1.0	-58.8	-13.0	-45.8	
2476.50	-23.5	V	3.0	36.4	1.0	-58.9	-13.0	-45.9	
3302.00	-21.9	V	3.0	36.2	1.0	-57.1	-13.0	-44.1	
1651.00	-28.1	H	3.0	37.0	1.0	-64.1	-13.0	-51.1	
2476.50	-25.2	H	3.0	36.4	1.0	-60.6	-13.0	-47.6	
3302.00	-22.1	H	3.0	36.2	1.0	-57.3	-13.0	-44.3	
Mid Ch, 836.5									
1673.00	-27.9	V	3.0	37.0	1.0	-63.9	-13.0	-50.9	
2509.50	-23.5	V	3.0	36.4	1.0	-58.9	-13.0	-45.9	
3346.00	-21.6	V	3.0	36.1	1.0	-56.7	-13.0	-43.7	
1673.00	-28.2	H	3.0	37.0	1.0	-64.2	-13.0	-51.2	
2509.50	-24.8	H	3.0	36.4	1.0	-60.2	-13.0	-47.2	
3346.00	-21.4	H	3.0	36.1	1.0	-56.5	-13.0	-43.5	
High Ch, 847.5									
1695.00	-25.8	V	3.0	37.0	1.0	-61.8	-13.0	-48.8	
2542.50	-23.9	V	3.0	36.4	1.0	-59.3	-13.0	-46.3	
3390.00	-21.4	V	3.0	36.1	1.0	-56.5	-13.0	-43.5	
1695.00	-27.0	H	3.0	37.0	1.0	-63.0	-13.0	-50.0	
2542.50	-25.0	H	3.0	36.4	1.0	-60.4	-13.0	-47.4	
3390.00	-21.3	H	3.0	36.1	1.0	-56.4	-13.0	-43.4	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: LG Electronics Project #: 15I21235 Date: 7/19/2015 Test Engineer: S.Tran Configuration: EUT , AC Adapter, Headset Location: Chamber C Mode: LTE_16QAM Band 5 Harmonics, 1.4MHz Bandwidth									
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 824.7									
1649.40	-22.9	V	3.0	37.0	1.0	-58.9	-13.0	-45.9	
2474.10	-23.9	V	3.0	36.4	1.0	-59.4	-13.0	-46.4	
3298.80	-21.6	V	3.0	36.2	1.0	-56.7	-13.0	-43.7	
1649.40	-24.8	H	3.0	37.0	1.0	-60.8	-13.0	-47.8	
2474.10	-25.5	H	3.0	36.4	1.0	-60.9	-13.0	-47.9	
3298.80	-21.7	H	3.0	36.2	1.0	-56.9	-13.0	-43.9	
Mid Ch, 836.5									
1673.00	-25.6	V	3.0	37.0	1.0	-61.6	-13.0	-48.6	
2509.50	-23.5	V	3.0	36.4	1.0	-58.9	-13.0	-45.9	
3346.00	-21.4	V	3.0	36.1	1.0	-56.5	-13.0	-43.5	
1673.00	-26.0	H	3.0	37.0	1.0	-62.0	-13.0	-49.0	
2509.50	-24.9	H	3.0	36.4	1.0	-60.3	-13.0	-47.3	
3346.00	-21.5	H	3.0	36.1	1.0	-56.6	-13.0	-43.6	
High Ch, 848.3									
1696.60	-27.0	V	3.0	37.0	1.0	-62.9	-13.0	-49.9	
2544.90	-24.6	V	3.0	36.4	1.0	-60.0	-13.0	-47.0	
3393.20	-21.9	V	3.0	36.1	1.0	-57.0	-13.0	-44.0	
1696.60	-26.6	H	3.0	37.0	1.0	-62.6	-13.0	-49.6	
2544.90	-25.5	H	3.0	36.4	1.0	-60.9	-13.0	-47.9	
3393.20	-22.1	H	3.0	36.1	1.0	-57.2	-13.0	-44.2	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: LG Electronics Project #: 15I21235 Date: 7/19/2015 Test Engineer: S.Tran Configuration: EUT , AC Adapter, Headset Location: Chamber C Mode: LTE_QPSK Band 5 Harmonics, 1.4MHz Bandwidth									
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 824.7									
1649.40	-22.6	V	3.0	37.0	1.0	-58.7	-13.0	-45.7	
2474.10	-23.7	V	3.0	36.4	1.0	-59.1	-13.0	-46.1	
3298.80	-21.4	V	3.0	36.2	1.0	-56.5	-13.0	-43.5	
1649.40	-24.6	H	3.0	37.0	1.0	-60.6	-13.0	-47.6	
2474.10	-25.3	H	3.0	36.4	1.0	-60.7	-13.0	-47.7	
3298.80	-21.5	H	3.0	36.2	1.0	-56.7	-13.0	-43.7	
Mid Ch, 836.5									
1673.00	-25.4	V	3.0	37.0	1.0	-61.4	-13.0	-48.4	
2509.50	-23.3	V	3.0	36.4	1.0	-58.7	-13.0	-45.7	
3346.00	-21.2	V	3.0	36.1	1.0	-56.3	-13.0	-43.3	
1673.00	-25.8	H	3.0	37.0	1.0	-61.8	-13.0	-48.8	
2509.50	-24.7	H	3.0	36.4	1.0	-60.1	-13.0	-47.1	
3346.00	-21.3	H	3.0	36.1	1.0	-56.4	-13.0	-43.4	
High Ch, 848.3									
1696.60	-26.8	V	3.0	37.0	1.0	-62.7	-13.0	-49.7	
2544.90	-24.3	V	3.0	36.4	1.0	-59.8	-13.0	-46.8	
3393.20	-21.7	V	3.0	36.1	1.0	-56.8	-13.0	-43.8	
1696.60	-26.4	H	3.0	37.0	1.0	-62.4	-13.0	-49.4	
2544.90	-25.3	H	3.0	36.4	1.0	-60.7	-13.0	-47.7	
3393.20	-21.9	H	3.0	36.1	1.0	-57.0	-13.0	-44.0	

LTE Band 7

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: LG Electronics Project #: 15I21235 Date: 7/11/2015 Test Engineer: R.Alegre Configuration: EUT , AC Adapter, Headset Location: Chamber C Mode: LTE_16QAM Band 7 Harmonics, 20MHz Bandwidth									
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamplifier (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 2510									
5020.00	-18.2	V	3.0	35.5	1.0	-52.6	-25.0	-27.6	
7530.00	-15.2	V	3.0	35.7	1.0	-49.9	-25.0	-24.9	
10040.00	-12.3	V	3.0	36.0	1.0	-47.3	-25.0	-22.3	
5020.00	-17.4	H	3.0	35.5	1.0	-51.8	-25.0	-26.8	
7530.00	-13.3	H	3.0	35.7	1.0	-48.0	-25.0	-23.0	
10040.00	-11.9	H	3.0	36.0	1.0	-46.9	-25.0	-21.9	
Mid Ch, 2535									
5070.00	-17.1	V	3.0	35.4	1.0	-51.5	-25.0	-26.5	
7605.00	-14.2	V	3.0	35.8	1.0	-48.9	-25.0	-23.9	
10140.00	-12.6	V	3.0	36.0	1.0	-47.6	-25.0	-22.6	
5070.00	-17.5	H	3.0	35.4	1.0	-51.9	-25.0	-26.9	
7605.00	-12.1	H	3.0	35.8	1.0	-46.9	-25.0	-21.9	
10140.00	-11.3	H	3.0	36.0	1.0	-46.3	-25.0	-21.3	
High Ch, 2560									
5120.00	-18.1	V	3.0	35.4	1.0	-52.5	-25.0	-27.5	
7680.00	-13.8	V	3.0	35.8	1.0	-48.5	-25.0	-23.5	
10240.00	-12.5	V	3.0	35.9	1.0	-47.4	-25.0	-22.4	
5120.00	-17.5	H	3.0	35.4	1.0	-52.0	-25.0	-27.0	
7680.00	-12.6	H	3.0	35.8	1.0	-47.4	-25.0	-22.4	
10240.00	-10.7	H	3.0	35.9	1.0	-45.6	-25.0	-20.6	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I21235							
Date:		7/11/2015							
Test Engineer:		R.Alegre							
Configuration:		EUT , AC Adapter, Headset							
Location:		Chamber C							
Mode:		LTE_QPSK Band 7 Harmonics, 10MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamplifier (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 2505									
5010.00	-17.9	V	3.0	35.5	1.0	-52.3	-25.0	-27.3	
7515.00	-14.7	V	3.0	35.7	1.0	-49.5	-25.0	-24.5	
10020.00	-12.8	V	3.0	36.0	1.0	-47.8	-25.0	-22.8	
5010.00	-17.3	H	3.0	35.5	1.0	-51.8	-25.0	-26.8	
7515.00	-13.1	H	3.0	35.7	1.0	-47.9	-25.0	-22.9	
10020.00	-11.5	H	3.0	36.0	1.0	-46.5	-25.0	-21.5	
Mid Ch, 2535									
5070.00	-17.8	V	3.0	35.4	1.0	-52.2	-25.0	-27.2	
7605.00	-14.2	V	3.0	35.8	1.0	-49.0	-25.0	-24.0	
10140.00	-12.0	V	3.0	36.0	1.0	-47.0	-25.0	-22.0	
5070.00	-17.1	H	3.0	35.4	1.0	-51.6	-25.0	-26.6	
7605.00	-12.1	H	3.0	35.8	1.0	-46.9	-25.0	-21.9	
10140.00	-10.8	H	3.0	36.0	1.0	-45.7	-25.0	-20.7	
High Ch, 2565									
5130.00	-17.7	V	3.0	35.4	1.0	-52.1	-25.0	-27.1	
7695.00	-13.9	V	3.0	35.8	1.0	-48.7	-25.0	-23.7	
10260.00	-12.1	V	3.0	35.9	1.0	-47.0	-25.0	-22.0	
5130.00	-17.5	H	3.0	35.4	1.0	-51.9	-25.0	-26.9	
7695.00	-12.0	H	3.0	35.8	1.0	-46.7	-25.0	-21.7	
10260.00	-10.6	H	3.0	35.9	1.0	-45.5	-25.0	-20.5	

LTE Band 13

Band LTE13 10MHz 16QAM	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: LG Electronics Project #: 15I21235 Date: 7/19/2015 Test Engineer: S. Tran Configuration: EUT , AC Adapter, Headset Location: Chamber C Mode: LTE_16QAM Band 13 Harmonics, 10MHz Bandwidth <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th>f MHz</th> <th>SG reading (dBm)</th> <th>Ant. Pol. (H/V)</th> <th>Distance (m)</th> <th>Preamp (dB)</th> <th>Filter (dB)</th> <th>EIRP (dBm)</th> <th>Limit (dBm)</th> <th>Delta (dB)</th> <th>Notes</th> </tr> </thead> <tbody> <tr> <td colspan="10">Mid Ch, 782</td> </tr> <tr> <td>1564.00</td> <td>-29.0</td> <td>V</td> <td>3.0</td> <td>37.1</td> <td>1.0</td> <td>-65.1</td> <td>-13.0</td> <td>-52.1</td> <td></td> </tr> <tr> <td>2346.00</td> <td>-24.6</td> <td>V</td> <td>3.0</td> <td>36.5</td> <td>1.0</td> <td>-60.1</td> <td>-13.0</td> <td>-47.1</td> <td></td> </tr> <tr> <td>3128.00</td> <td>-22.4</td> <td>V</td> <td>3.0</td> <td>36.3</td> <td>1.0</td> <td>-57.7</td> <td>-13.0</td> <td>-44.7</td> <td></td> </tr> <tr> <td>1564.00</td> <td>-29.2</td> <td>H</td> <td>3.0</td> <td>37.1</td> <td>1.0</td> <td>-65.3</td> <td>-13.0</td> <td>-52.3</td> <td></td> </tr> <tr> <td>2346.00</td> <td>-25.3</td> <td>H</td> <td>3.0</td> <td>36.5</td> <td>1.0</td> <td>-60.8</td> <td>-13.0</td> <td>-47.8</td> <td></td> </tr> <tr> <td>3128.00</td> <td>-22.0</td> <td>H</td> <td>3.0</td> <td>36.3</td> <td>1.0</td> <td>-57.3</td> <td>-13.0</td> <td>-44.3</td> <td></td> </tr> </tbody> </table>	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	Mid Ch, 782										1564.00	-29.0	V	3.0	37.1	1.0	-65.1	-13.0	-52.1		2346.00	-24.6	V	3.0	36.5	1.0	-60.1	-13.0	-47.1		3128.00	-22.4	V	3.0	36.3	1.0	-57.7	-13.0	-44.7		1564.00	-29.2	H	3.0	37.1	1.0	-65.3	-13.0	-52.3		2346.00	-25.3	H	3.0	36.5	1.0	-60.8	-13.0	-47.8		3128.00	-22.0	H	3.0	36.3	1.0	-57.3	-13.0	-44.3	
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Band LTE13 10MHz QPSK	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: LG Electronics Project #: 15I21235 Date: 7/19/2015 Test Engineer: S.Tran Configuration: EUT , AC Adapter, Headset Location: Chamber C Mode: LTE_QPSK Band 13 Harmonics, 10MHz Bandwidth <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th>f MHz</th> <th>SG reading (dBm)</th> <th>Ant. Pol. (H/V)</th> <th>Distance (m)</th> <th>Preamp (dB)</th> <th>Filter (dB)</th> <th>EIRP (dBm)</th> <th>Limit (dBm)</th> <th>Delta (dB)</th> <th>Notes</th> </tr> </thead> <tbody> <tr> <td colspan="10">Mid Ch, 782</td> </tr> <tr> <td>1564.00</td> <td>-28.9</td> <td>V</td> <td>3.0</td> <td>37.1</td> <td>1.0</td> <td>-65.0</td> <td>-13.0</td> <td>-52.0</td> <td></td> </tr> <tr> <td>2346.00</td> <td>-24.5</td> <td>V</td> <td>3.0</td> <td>36.5</td> <td>1.0</td> <td>-60.0</td> <td>-13.0</td> <td>-47.0</td> <td></td> </tr> <tr> <td>3128.00</td> <td>-22.3</td> <td>V</td> <td>3.0</td> <td>36.3</td> <td>1.0</td> <td>-57.6</td> <td>-13.0</td> <td>-44.6</td> <td></td> </tr> <tr> <td>1564.00</td> <td>-29.1</td> <td>H</td> <td>3.0</td> <td>37.1</td> <td>1.0</td> <td>-65.2</td> <td>-13.0</td> <td>-52.2</td> <td></td> </tr> <tr> <td>2346.00</td> <td>-25.3</td> <td>H</td> <td>3.0</td> <td>36.5</td> <td>1.0</td> <td>-60.8</td> <td>-13.0</td> <td>-47.8</td> <td></td> </tr> <tr> <td>3128.00</td> <td>-21.9</td> <td>H</td> <td>3.0</td> <td>36.3</td> <td>1.0</td> <td>-57.2</td> <td>-13.0</td> <td>-44.2</td> <td></td> </tr> </tbody> </table>	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	Mid Ch, 782										1564.00	-28.9	V	3.0	37.1	1.0	-65.0	-13.0	-52.0		2346.00	-24.5	V	3.0	36.5	1.0	-60.0	-13.0	-47.0		3128.00	-22.3	V	3.0	36.3	1.0	-57.6	-13.0	-44.6		1564.00	-29.1	H	3.0	37.1	1.0	-65.2	-13.0	-52.2		2346.00	-25.3	H	3.0	36.5	1.0	-60.8	-13.0	-47.8		3128.00	-21.9	H	3.0	36.3	1.0	-57.2	-13.0	-44.2	
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UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: LG Electronics Project #: 15I21235 Date: 7/19/2015 Test Engineer: S.Tran Configuration: EUT , AC Adapter, Headset Location: Chamber C Mode: LTE_QPSK Band 13 Harmonics, 5MHz Bandwidth									
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 779.5									
1559.00	-28.4	V	3.0	37.1	1.0	-64.5	-13.0	-51.5	
2338.50	-24.4	V	3.0	36.5	1.0	-59.9	-13.0	-46.9	
3118.00	-22.2	V	3.0	36.3	1.0	-57.5	-13.0	-44.5	
1559.00	-29.4	H	3.0	37.1	1.0	-65.6	-13.0	-52.6	
2338.50	-25.5	H	3.0	36.5	1.0	-61.0	-13.0	-48.0	
3118.00	-22.6	H	3.0	36.3	1.0	-57.9	-13.0	-44.9	
Mid Ch, 782									
1564.00	-29.1	V	3.0	37.1	1.0	-65.2	-13.0	-52.2	
2346.00	-24.0	V	3.0	36.5	1.0	-59.5	-13.0	-46.5	
3128.00	-21.9	V	3.0	36.3	1.0	-57.2	-13.0	-44.2	
1564.00	-28.7	H	3.0	37.1	1.0	-64.8	-13.0	-51.8	
2346.00	-25.3	H	3.0	36.5	1.0	-60.8	-13.0	-47.8	
3128.00	-24.9	H	3.0	36.3	1.0	-60.2	-13.0	-47.2	
High Ch, 784.5									
1569.00	-28.7	V	3.0	37.1	1.0	-64.9	-13.0	-51.9	
2353.50	-24.5	V	3.0	36.5	1.0	-60.0	-13.0	-47.0	
3138.00	-22.2	V	3.0	36.3	1.0	-57.4	-13.0	-44.4	
1569.00	-29.4	H	3.0	37.1	1.0	-65.6	-13.0	-52.6	
2353.50	-26.1	H	3.0	36.5	1.0	-61.6	-13.0	-48.6	
3138.00	-22.1	H	3.0	36.3	1.0	-57.4	-13.0	-44.4	

LTE Band 25

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: LG Project #: 15I21235 Date: 7/14/2015 Test Engineer: O. Stoelting Configuration: X-pos EUT, Ac Charger, Headset Location: Chamber A Mode: LTE_16QAM Band 25 Harmonics, 20MHz Bandwidth									
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1860									
3720.00	-18.2	V	3.0	35.8	1.0	-53.0	-13.0	-40.0	
5580.00	-16.6	V	3.0	35.5	1.0	-51.1	-13.0	-38.1	
7440.00	-16.4	V	3.0	35.7	1.0	-51.1	-13.0	-38.1	
3720.00	-18.2	H	3.0	35.8	1.0	-53.1	-13.0	-40.1	
5580.00	-15.3	H	3.0	35.5	1.0	-49.7	-13.0	-36.7	
7440.00	-15.0	H	3.0	35.7	1.0	-49.7	-13.0	-36.7	
Mid Ch, 1882.5									
3765.00	-18.4	V	3.0	35.8	1.0	-53.2	-13.0	-40.2	
5647.50	-17.4	V	3.0	35.5	1.0	-51.8	-13.0	-38.8	
7530.00	-15.2	V	3.0	35.7	1.0	-50.0	-13.0	-37.0	
3765.00	-18.7	H	3.0	35.8	1.0	-53.5	-13.0	-40.5	
5647.50	-17.4	H	3.0	35.5	1.0	-51.8	-13.0	-38.8	
7530.00	-14.6	H	3.0	35.7	1.0	-49.3	-13.0	-36.3	
High Ch, 1905									
3810.00	-17.1	V	3.0	35.8	1.0	-51.9	-13.0	-38.9	
5715.00	-17.3	V	3.0	35.5	1.0	-51.8	-13.0	-38.8	
7620.00	-14.7	V	3.0	35.8	1.0	-49.5	-13.0	-36.5	
3810.00	-17.7	H	3.0	35.8	1.0	-52.5	-13.0	-39.5	
5715.00	-16.4	H	3.0	35.5	1.0	-50.9	-13.0	-37.9	
7620.00	-14.6	H	3.0	35.8	1.0	-49.4	-13.0	-36.4	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG							
Project #:		15I21235							
Date:		7/14/2015							
Test Engineer:		O. Stoelting							
Configuration:		X-pos EUT, Ac Charger, Headset							
Location:		Chamber A							
Mode:		LTE_16QAM Band 25 Harmonics, 15MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1857.5									
3715.00	-18.2	V	3.0	35.8	1.0	-53.0	-13.0	-40.0	
5572.50	-16.1	V	3.0	35.5	1.0	-50.5	-13.0	-37.5	
7430.00	-16.0	V	3.0	35.7	1.0	-50.8	-13.0	-37.8	
3715.00	-18.5	H	3.0	35.8	1.0	-53.3	-13.0	-40.3	
5572.50	-14.6	H	3.0	35.5	1.0	-49.1	-13.0	-36.1	
7430.00	-14.7	H	3.0	35.7	1.0	-49.4	-13.0	-36.4	
Mid Ch, 1882.5									
3815.00	-18.9	V	3.0	35.8	1.0	-53.7	-13.0	-40.7	
5722.50	-17.7	V	3.0	35.5	1.0	-52.2	-13.0	-39.2	
7630.00	-14.4	V	3.0	35.7	1.0	-49.2	-13.0	-36.2	
3815.00	-18.7	H	3.0	35.8	1.0	-53.6	-13.0	-40.6	
5722.50	-16.2	H	3.0	35.5	1.0	-50.7	-13.0	-37.7	
7630.00	-13.8	H	3.0	35.7	1.0	-48.6	-13.0	-35.6	
High Ch, 1907.5									
3815.00	-18.1	V	3.0	35.8	1.0	-52.8	-13.0	-39.8	
5722.50	-16.6	V	3.0	35.5	1.0	-51.1	-13.0	-38.1	
7630.00	-15.3	V	3.0	35.8	1.0	-50.0	-13.0	-37.0	
3815.00	-17.6	H	3.0	35.8	1.0	-52.4	-13.0	-39.4	
5722.50	-17.0	H	3.0	35.5	1.0	-51.5	-13.0	-38.5	
7630.00	-14.1	H	3.0	35.8	1.0	-48.8	-13.0	-35.8	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: LG Project #: 15I21235 Date: 7/14/2015 Test Engineer: O. Stoelting Configuration: X-pos EUT, Ac Charger, Headset Location: Chamber A Mode: LTE_QPSK Band 25 Harmonics, 15MHz Bandwidth									
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1857.5									
3715.00	-17.5	V	3.0	35.8	1.0	-52.4	-13.0	-39.4	
5572.50	-16.5	V	3.0	35.5	1.0	-51.0	-13.0	-38.0	
7430.00	-16.0	V	3.0	35.7	1.0	-50.7	-13.0	-37.7	
3715.00	-18.8	H	3.0	35.8	1.0	-53.7	-13.0	-40.7	
5572.50	-15.1	H	3.0	35.5	1.0	-49.5	-13.0	-36.5	
7430.00	-14.8	H	3.0	35.7	1.0	-49.6	-13.0	-36.6	
Mid Ch, 1882.5									
3765.00	-18.4	V	3.0	35.8	1.0	-53.2	-13.0	-40.2	
5647.50	-17.8	V	3.0	35.5	1.0	-52.3	-13.0	-39.3	
7530.00	-15.6	V	3.0	35.7	1.0	-50.4	-13.0	-37.4	
3765.00	-17.1	H	3.0	35.8	1.0	-51.9	-13.0	-38.9	
5647.50	-16.2	H	3.0	35.5	1.0	-50.7	-13.0	-37.7	
7530.00	-14.7	H	3.0	35.7	1.0	-49.5	-13.0	-36.5	
High Ch, 1907.5									
3815.00	-18.6	V	3.0	35.8	1.0	-53.3	-13.0	-40.3	
5722.50	-17.4	V	3.0	35.5	1.0	-51.9	-13.0	-38.9	
7630.00	-13.4	V	3.0	35.8	1.0	-48.1	-13.0	-35.1	
3815.00	-17.7	H	3.0	35.8	1.0	-52.5	-13.0	-39.5	
5722.50	-15.9	H	3.0	35.5	1.0	-50.4	-13.0	-37.4	
7630.00	-14.6	H	3.0	35.8	1.0	-49.4	-13.0	-36.4	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: LG Project #: 15I21235 Date: 7/14/2015 Test Engineer: O. Stoelting Configuration: X-pos EUT, Ac Charger, Headset Location: Chamber A Mode: LTE_16QAM Band 25 Harmonics, 10MHz Bandwidth									
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamplifier (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1855									
3710.00	-17.8	V	3.0	35.9	1.0	-52.7	-13.0	-39.7	
5565.00	-16.0	V	3.0	35.5	1.0	-50.5	-13.0	-37.5	
7420.00	-16.7	V	3.0	35.7	1.0	-51.5	-13.0	-38.5	
3710.00	-17.6	H	3.0	35.9	1.0	-52.4	-13.0	-39.4	
5565.00	-15.7	H	3.0	35.5	1.0	-50.1	-13.0	-37.1	
7420.00	-15.1	H	3.0	35.7	1.0	-49.8	-13.0	-36.8	
Mid Ch, 1882.5									
3765.00	-18.0	V	3.0	35.8	1.0	-52.9	-13.0	-39.9	
5647.50	-17.4	V	3.0	35.5	1.0	-51.9	-13.0	-38.9	
7530.00	-15.4	V	3.0	35.7	1.0	-50.1	-13.0	-37.1	
3765.00	-19.3	H	3.0	35.8	1.0	-54.1	-13.0	-41.1	
5647.50	-17.3	H	3.0	35.5	1.0	-51.7	-13.0	-38.7	
7530.00	-13.8	H	3.0	35.7	1.0	-48.6	-13.0	-35.6	
High Ch, 1910									
3820.00	-15.5	V	3.0	35.8	1.0	-50.3	-13.0	-37.3	
5730.00	-15.8	V	3.0	35.5	1.0	-50.3	-13.0	-37.3	
7640.00	-15.3	V	3.0	35.8	1.0	-50.1	-13.0	-37.1	
3820.00	-18.0	H	3.0	35.8	1.0	-52.8	-13.0	-39.8	
5730.00	-15.5	H	3.0	35.5	1.0	-50.0	-13.0	-37.0	
7640.00	-14.0	H	3.0	35.8	1.0	-48.8	-13.0	-35.8	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: LG Project #: 15I21235 Date: 7/14/2015 Test Engineer: O. Stoelting Configuration: X-pos EUT, Ac Charger, Headset Location: Chamber A Mode: LTE_QPSK Band 25 Harmonics, 10MHz Bandwidth									
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamplifier (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1855									
3710.00	-18.0	V	3.0	35.9	1.0	-52.8	-13.0	-39.8	
5565.00	-15.0	V	3.0	35.5	1.0	-49.5	-13.0	-36.5	
7420.00	-15.9	V	3.0	35.7	1.0	-50.6	-13.0	-37.6	
3710.00	-17.9	H	3.0	35.9	1.0	-52.7	-13.0	-39.7	
5565.00	-15.7	H	3.0	35.5	1.0	-50.2	-13.0	-37.2	
7420.00	-14.8	H	3.0	35.7	1.0	-49.5	-13.0	-36.5	
Mid Ch, 1882.5									
3765.00	-18.4	V	3.0	35.8	1.0	-53.2	-13.0	-40.2	
5647.50	-17.5	V	3.0	35.5	1.0	-52.0	-13.0	-39.0	
7530.00	-15.6	V	3.0	35.7	1.0	-50.3	-13.0	-37.3	
3765.00	-19.1	H	3.0	35.8	1.0	-53.9	-13.0	-40.9	
5647.50	-17.3	H	3.0	35.5	1.0	-51.8	-13.0	-38.8	
7530.00	-14.7	H	3.0	35.7	1.0	-49.5	-13.0	-36.5	
High Ch, 1910									
3820.00	-16.3	V	3.0	35.8	1.0	-51.0	-13.0	-38.0	
5730.00	-16.6	V	3.0	35.5	1.0	-51.1	-13.0	-38.1	
7640.00	-14.5	V	3.0	35.8	1.0	-49.3	-13.0	-36.3	
3820.00	-16.7	H	3.0	35.8	1.0	-51.5	-13.0	-38.5	
5730.00	-16.0	H	3.0	35.5	1.0	-50.5	-13.0	-37.5	
7640.00	-14.1	H	3.0	35.8	1.0	-48.9	-13.0	-35.9	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: LG Project #: 15I21235 Date: 7/14/2015 Test Engineer: O. Stoelting Configuration: X-pos EUT, Ac Charger, Headset Location: Chamber A Mode: LTE_16QAM Band 25 Harmonics, 1.4MHz Bandwidth									
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1850.7									
3701.40	-16.6	V	3.0	35.9	1.0	-51.5	-13.0	-38.5	
5552.10	-11.7	V	3.0	35.5	1.0	-46.2	-13.0	-33.2	
7402.80	-13.2	V	3.0	35.7	1.0	-47.9	-13.0	-34.9	
3701.40	-16.1	H	3.0	35.9	1.0	-50.9	-13.0	-37.9	
5552.10	-13.3	H	3.0	35.5	1.0	-47.8	-13.0	-34.8	
7402.80	-12.3	H	3.0	35.7	1.0	-47.0	-13.0	-34.0	
Mid Ch, 1882.5									
3765.00	-16.5	V	3.0	35.8	1.0	-44.7	-13.0	-31.7	
5647.50	-14.7	V	3.0	35.5	1.0	-49.2	-13.0	-36.2	
7530.00	-13.0	V	3.0	35.7	1.0	-47.8	-13.0	-34.8	
3765.00	-17.3	H	3.0	35.8	1.0	-52.1	-13.0	-39.1	
5647.50	-14.8	H	3.0	35.5	1.0	-49.3	-13.0	-36.3	
7530.00	-11.2	H	3.0	35.7	1.0	-45.9	-13.0	-32.9	
High Ch, 1914.3									
3828.60	-15.6	V	3.0	35.8	1.0	-50.4	-13.0	-37.4	
5742.90	-9.4	V	3.0	35.5	1.0	-43.9	-13.0	-30.9	
7657.20	-13.0	V	3.0	35.8	1.0	-47.7	-13.0	-34.7	
3828.60	-16.5	H	3.0	35.8	1.0	-51.3	-13.0	-38.3	
5742.90	-12.9	H	3.0	35.5	1.0	-47.4	-13.0	-34.4	
7657.20	-12.0	H	3.0	35.8	1.0	-46.7	-13.0	-33.7	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: LG Project #: 15I21235 Date: 7/14/2015 Test Engineer: O. Stoelting Configuration: X-pos EUT, Ac Charger, Headset Location: Chamber A Mode: LTE_QPSK Band 25 Harmonics, 1.4MHz Bandwidth									
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamplifier (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1850.7									
3701.40	-15.5	V	3.0	35.9	1.0	-50.4	-13.0	-37.4	
5552.10	-12.4	V	3.0	35.5	1.0	-46.9	-13.0	-33.9	
7402.80	-13.0	V	3.0	35.7	1.0	-47.7	-13.0	-34.7	
3701.40	-16.0	H	3.0	35.9	1.0	-50.9	-13.0	-37.9	
5552.10	-13.7	H	3.0	35.5	1.0	-48.2	-13.0	-35.2	
7402.80	-12.4	H	3.0	35.7	1.0	-47.1	-13.0	-34.1	
Mid Ch, 1882.5									
3765.00	-16.4	V	3.0	35.8	1.0	-51.2	-13.0	-38.2	
5647.50	-14.4	V	3.0	35.5	1.0	-48.9	-13.0	-35.9	
7530.00	-12.9	V	3.0	35.7	1.0	-47.7	-13.0	-34.7	
3765.00	-16.5	H	3.0	35.8	1.0	-51.3	-13.0	-38.3	
5647.50	-15.1	H	3.0	35.5	1.0	-49.6	-13.0	-36.6	
7530.00	-12.2	H	3.0	35.7	1.0	-47.0	-13.0	-34.0	
High Ch, 1914.3									
3828.60	-15.4	V	3.0	35.8	1.0	-50.2	-13.0	-37.2	
5742.90	-9.4	V	3.0	35.5	1.0	-43.9	-13.0	-30.9	
7657.20	-12.9	V	3.0	35.8	1.0	-47.6	-13.0	-34.6	
3828.60	-16.7	H	3.0	35.8	1.0	-51.5	-13.0	-38.5	
5742.90	-11.6	H	3.0	35.5	1.0	-46.1	-13.0	-33.1	
7657.20	-10.9	H	3.0	35.8	1.0	-45.7	-13.0	-32.7	

LTE Band 26

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: LG Electronics Project #: 15I21235 Date: 7/19/2015 Test Engineer: S.Tran Configuration: EUT , AC Adapter, Headset 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
Mid Ch, 831.5									
1663.00	-26.6	V	3.0	37.0	1.0	-62.6	-13.0	-49.6	
2494.50	-23.7	V	3.0	36.4	1.0	-59.1	-13.0	-46.1	
3326.00	-21.1	V	3.0	36.2	1.0	-56.3	-13.0	-43.3	
1663.00	-27.1	H	3.0	37.0	1.0	-63.1	-13.0	-50.1	
2494.50	-25.0	H	3.0	36.4	1.0	-60.4	-13.0	-47.4	
3326.00	-21.5	H	3.0	36.2	1.0	-56.7	-13.0	-43.7	
Mid Ch, 836.5									
1673.00	-24.5	V	3.0	37.0	1.0	-60.5	-13.0	-47.5	
2509.50	-23.4	V	3.0	36.4	1.0	-58.8	-13.0	-45.8	
3346.00	-21.6	V	3.0	36.1	1.0	-56.8	-13.0	-43.8	
1673.00	-27.1	H	3.0	37.0	1.0	-63.1	-13.0	-50.1	
2509.50	-25.2	H	3.0	36.4	1.0	-60.7	-13.0	-47.7	
3346.00	-24.2	H	3.0	36.1	1.0	-59.4	-13.0	-46.4	
High Ch, 841.5									
1683.00	-26.7	V	3.0	37.0	1.0	-62.7	-13.0	-49.7	
2524.50	-23.0	V	3.0	36.4	1.0	-58.4	-13.0	-45.4	
3366.00	-19.4	V	3.0	36.1	1.0	-54.5	-13.0	-41.5	
1683.00	-26.9	H	3.0	37.0	1.0	-62.9	-13.0	-49.9	
2524.50	-24.9	H	3.0	36.4	1.0	-60.3	-13.0	-47.3	
3366.00	-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 Electronics Project #: 15I21235 Date: 7/19/2015 Test Engineer: S.Tran Configuration: EUT , AC Adapter, Headset Location: Chamber C Mode: LTE_QPSK Band 26 Harmonics, 15MHz Bandwidth									
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamplifier (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band									
LTE26									
15MHz									
QPSK									
Mid Ch, 831.5									
1663.00	-26.5	V	3.0	37.0	1.0	-62.5	-13.0	-49.5	
2494.50	-23.6	V	3.0	36.4	1.0	-59.0	-13.0	-46.0	
3326.00	-21.0	V	3.0	36.2	1.0	-56.2	-13.0	-43.2	
1663.00	-27.0	H	3.0	37.0	1.0	-63.0	-13.0	-50.0	
2494.50	-24.9	H	3.0	36.4	1.0	-60.3	-13.0	-47.3	
3326.00	-21.4	H	3.0	36.2	1.0	-56.5	-13.0	-43.5	
Mid Ch, 836.5									
1673.00	-24.4	V	3.0	37.0	1.0	-60.4	-13.0	-47.4	
2509.50	-23.3	V	3.0	36.4	1.0	-58.7	-13.0	-45.7	
3346.00	-21.5	V	3.0	36.1	1.0	-56.7	-13.0	-43.7	
1673.00	-27.0	H	3.0	37.0	1.0	-63.0	-13.0	-50.0	
2509.50	-25.1	H	3.0	36.4	1.0	-60.6	-13.0	-47.6	
3346.00	-24.1	H	3.0	36.1	1.0	-59.3	-13.0	-46.3	
High Ch, 841.5									
1683.00	-26.6	V	3.0	37.0	1.0	-62.6	-13.0	-49.6	
2524.50	-22.9	V	3.0	36.4	1.0	-58.3	-13.0	-45.3	
3366.00	-19.3	V	3.0	36.1	1.0	-54.4	-13.0	-41.4	
1683.00	-26.8	H	3.0	37.0	1.0	-62.8	-13.0	-49.8	
2524.50	-24.8	H	3.0	36.4	1.0	-60.2	-13.0	-47.2	
3366.00	-21.4	H	3.0	36.1	1.0	-56.5	-13.0	-43.5	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: LG Electronics Project #: 15I21235 Date: 7/19/2015 Test Engineer: S.Tran Configuration: EUT , AC Adapter, Headset Location: Chamber C Mode: LTE_16QAM Band 26 Harmonics, 10MHz Bandwidth									
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 819									
1638.00	-25.0	V	3.0	37.0	1.0	-61.0	-13.0	-48.0	
2457.00	-23.4	V	3.0	36.4	1.0	-58.9	-13.0	-45.9	
3276.00	-21.7	V	3.0	36.2	1.0	-56.8	-13.0	-43.8	
1638.00	-27.1	H	3.0	37.0	1.0	-63.1	-13.0	-50.1	
2457.00	-25.8	H	3.0	36.4	1.0	-61.2	-13.0	-48.2	
3276.00	-21.9	H	3.0	36.2	1.0	-57.1	-13.0	-44.1	
Mid Ch, 831.5									
1663.00	-24.1	V	3.0	37.0	1.0	-60.2	-13.0	-47.2	
2494.50	-23.8	V	3.0	36.4	1.0	-59.2	-13.0	-46.2	
3326.00	-20.8	V	3.0	36.1	1.0	-55.9	-13.0	-42.9	
1663.00	-26.5	H	3.0	37.0	1.0	-62.5	-13.0	-49.5	
2494.50	-24.9	H	3.0	36.4	1.0	-60.3	-13.0	-47.3	
3326.00	-22.0	H	3.0	36.1	1.0	-57.1	-13.0	-44.1	
High Ch, 844									
1688.00	-26.7	V	3.0	37.0	1.0	-62.7	-13.0	-49.7	
2532.00	-23.3	V	3.0	36.4	1.0	-58.7	-13.0	-45.7	
3376.00	-21.6	V	3.0	36.1	1.0	-56.7	-13.0	-43.7	
1688.00	-26.8	H	3.0	37.0	1.0	-62.7	-13.0	-49.7	
2532.00	-24.1	H	3.0	36.4	1.0	-59.5	-13.0	-46.5	
3376.00	-21.0	H	3.0	36.1	1.0	-56.1	-13.0	-43.1	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: LG Electronics Project #: 15I21235 Date: 7/19/2015 Test Engineer: S.Tran Configuration: EUT , AC Adapter, Headset Location: Chamber C Mode: LTE_QPSK Band 26 Harmonics, 10MHz Bandwidth									
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamplifier (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 819									
1638.00	-24.9	V	3.0	37.0	1.0	-60.9	-13.0	-47.9	
2457.00	-23.3	V	3.0	36.4	1.0	-58.7	-13.0	-45.7	
3276.00	-21.5	V	3.0	36.2	1.0	-56.7	-13.0	-43.7	
1638.00	-27.0	H	3.0	37.0	1.0	-63.0	-13.0	-50.0	
2457.00	-25.7	H	3.0	36.4	1.0	-61.1	-13.0	-48.1	
3276.00	-21.8	H	3.0	36.2	1.0	-56.9	-13.0	-43.9	
Mid Ch, 831.5									
1663.00	-24.0	V	3.0	37.0	1.0	-60.0	-13.0	-47.0	
2494.50	-23.7	V	3.0	36.4	1.0	-59.1	-13.0	-46.1	
3326.00	-20.6	V	3.0	36.1	1.0	-55.8	-13.0	-42.8	
1663.00	-26.4	H	3.0	37.0	1.0	-62.4	-13.0	-49.4	
2494.50	-24.7	H	3.0	36.4	1.0	-60.2	-13.0	-47.2	
3326.00	-21.9	H	3.0	36.1	1.0	-57.0	-13.0	-44.0	
High Ch, 844									
1688.00	-26.6	V	3.0	37.0	1.0	-62.6	-13.0	-49.6	
2532.00	-23.2	V	3.0	36.4	1.0	-58.6	-13.0	-45.6	
3376.00	-21.5	V	3.0	36.1	1.0	-56.6	-13.0	-43.6	
1688.00	-26.6	H	3.0	37.0	1.0	-62.6	-13.0	-49.6	
2532.00	-24.0	H	3.0	36.4	1.0	-59.4	-13.0	-46.4	
3376.00	-20.8	H	3.0	36.1	1.0	-55.9	-13.0	-42.9	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: LG Electronics Project #: 15I21235 Date: 7/19/2015 Test Engineer: S.Tran Configuration: EUT , AC Adapter, Headset Location: Chamber C Mode: LTE_16QAM Band 26 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
Low Ch, 816.5									
1633.00	-28.6	V	3.0	37.0	1.0	-64.6	-13.0	-51.6	
2449.50	-23.3	V	3.0	36.4	1.0	-58.7	-13.0	-45.7	
3266.00	-22.1	V	3.0	36.2	1.0	-57.3	-13.0	-44.3	
1633.00	-26.4	H	3.0	37.0	1.0	-62.4	-13.0	-49.4	
2449.50	-25.3	H	3.0	36.4	1.0	-60.8	-13.0	-47.8	
3266.00	-20.8	H	3.0	36.2	1.0	-56.0	-13.0	-43.0	
Mid Ch, 831.5									
1663.00	-23.8	V	3.0	37.0	1.0	-59.8	-13.0	-46.8	
2494.50	-23.1	V	3.0	36.4	1.0	-58.5	-13.0	-45.5	
3326.00	-22.3	V	3.0	36.1	1.0	-57.4	-13.0	-44.4	
1663.00	-25.7	H	3.0	37.0	1.0	-61.7	-13.0	-48.7	
2494.50	-25.6	H	3.0	36.4	1.0	-61.1	-13.0	-48.1	
3326.00	-21.6	H	3.0	36.1	1.0	-56.8	-13.0	-43.8	
High Ch, 846.5									
1693.00	-27.8	V	3.0	37.0	1.0	-63.8	-13.0	-50.8	
2539.50	-23.9	V	3.0	36.4	1.0	-59.3	-13.0	-46.3	
3386.00	-21.4	V	3.0	36.1	1.0	-56.5	-13.0	-43.5	
1693.00	-27.3	H	3.0	37.0	1.0	-63.3	-13.0	-50.3	
2539.50	-25.0	H	3.0	36.4	1.0	-60.4	-13.0	-47.4	
3386.00	-21.8	H	3.0	36.1	1.0	-56.9	-13.0	-43.9	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: LG Electronics Project #: 15I21235 Date: 7/19/2015 Test Engineer: S.Tran Configuration: EUT , AC Adapter, Headset Location: Chamber C Mode: LTE_16QAM Band 26 Harmonics, 3MHz Bandwidth									
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 815.5									
1631.00	-22.9	V	3.0	37.0	1.0	-58.9	-13.0	-45.9	
2446.50	-23.6	V	3.0	36.4	1.0	-59.0	-13.0	-46.0	
3262.00	-22.1	V	3.0	36.2	1.0	-57.2	-13.0	-44.2	
1631.00	-28.2	H	3.0	37.0	1.0	-64.3	-13.0	-51.3	
2446.50	-25.3	H	3.0	36.4	1.0	-60.7	-13.0	-47.7	
3262.00	-22.2	H	3.0	36.2	1.0	-57.4	-13.0	-44.4	
Mid Ch, 831.5									
1663.00	-28.0	V	3.0	37.0	1.0	-64.0	-13.0	-51.0	
2494.50	-23.6	V	3.0	36.4	1.0	-59.0	-13.0	-46.0	
3326.00	-21.7	V	3.0	36.1	1.0	-56.9	-13.0	-43.9	
1663.00	-28.3	H	3.0	37.0	1.0	-64.3	-13.0	-51.3	
2494.50	-24.9	H	3.0	36.4	1.0	-60.4	-13.0	-47.4	
3326.00	-21.5	H	3.0	36.1	1.0	-56.6	-13.0	-43.6	
High Ch, 847.5									
1695.00	-26.0	V	3.0	37.0	1.0	-61.9	-13.0	-48.9	
2542.50	-24.0	V	3.0	36.4	1.0	-59.5	-13.0	-46.5	
3390.00	-21.5	V	3.0	36.1	1.0	-56.6	-13.0	-43.6	
1695.00	-27.1	H	3.0	37.0	1.0	-63.1	-13.0	-50.1	
2542.50	-25.1	H	3.0	36.4	1.0	-60.5	-13.0	-47.5	
3390.00	-21.4	H	3.0	36.1	1.0	-56.5	-13.0	-43.5	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: LG Electronics Project #: 15I21235 Date: 7/19/2015 Test Engineer: S.Tran Configuration: EUT , AC Adapter, Headset Location: Chamber C Mode: LTE_16QAM Band 26 Harmonics, 1.4MHz Bandwidth									
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 814.7									
1629.40	-23.1	V	3.0	37.1	1.0	-59.1	-13.0	-46.1	
2444.10	-24.1	V	3.0	36.4	1.0	-59.6	-13.0	-46.6	
3258.80	-21.7	V	3.0	36.2	1.0	-56.9	-13.0	-43.9	
1629.40	-25.0	H	3.0	37.1	1.0	-61.0	-13.0	-48.0	
2444.10	-25.7	H	3.0	36.4	1.0	-61.1	-13.0	-48.1	
3258.80	-21.8	H	3.0	36.2	1.0	-57.0	-13.0	-44.0	
Mid Ch, 831.5									
1663.00	-25.7	V	3.0	37.0	1.0	-61.7	-13.0	-48.7	
2494.50	-23.6	V	3.0	36.4	1.0	-59.0	-13.0	-46.0	
3326.00	-21.5	V	3.0	36.1	1.0	-56.6	-13.0	-43.6	
1663.00	-26.1	H	3.0	37.0	1.0	-62.1	-13.0	-49.1	
2494.50	-24.9	H	3.0	36.4	1.0	-60.4	-13.0	-47.4	
3326.00	-21.6	H	3.0	36.1	1.0	-56.7	-13.0	-43.7	
High Ch, 848.3									
1696.60	-27.0	V	3.0	37.0	1.0	-62.9	-13.0	-49.9	
2544.90	-24.6	V	3.0	36.4	1.0	-60.0	-13.0	-47.0	
3393.20	-21.9	V	3.0	36.1	1.0	-57.0	-13.0	-44.0	
1696.60	-26.6	H	3.0	37.0	1.0	-62.6	-13.0	-49.6	
2544.90	-25.5	H	3.0	36.4	1.0	-60.9	-13.0	-47.9	
3393.20	-22.1	H	3.0	36.1	1.0	-57.2	-13.0	-44.2	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: LG Electronics Project #: 15I21235 Date: 7/19/2015 Test Engineer: S.Tran Configuration: EUT , AC Adapter, Headset Location: Chamber C Mode: LTE_QPSK Band 26 Harmonics, 1.4MHz Bandwidth									
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 814.7									
1629.40	-22.9	V	3.0	37.1	1.0	-58.9	-13.0	-45.9	
2444.10	-23.9	V	3.0	36.4	1.0	-59.4	-13.0	-46.4	
3258.80	-21.5	V	3.0	36.2	1.0	-56.7	-13.0	-43.7	
1629.40	-24.8	H	3.0	37.1	1.0	-60.8	-13.0	-47.8	
2444.10	-25.4	H	3.0	36.4	1.0	-60.9	-13.0	-47.9	
3258.80	-21.6	H	3.0	36.2	1.0	-56.8	-13.0	-43.8	
Mid Ch, 831.5									
1663.00	-25.5	V	3.0	37.0	1.0	-61.5	-13.0	-48.5	
2494.50	-23.4	V	3.0	36.4	1.0	-58.8	-13.0	-45.8	
3326.00	-21.3	V	3.0	36.1	1.0	-56.4	-13.0	-43.4	
1663.00	-25.9	H	3.0	37.0	1.0	-61.9	-13.0	-48.9	
2494.50	-24.7	H	3.0	36.4	1.0	-60.1	-13.0	-47.1	
3326.00	-21.4	H	3.0	36.1	1.0	-56.5	-13.0	-43.5	
High Ch, 848.3									
1696.60	-26.8	V	3.0	37.0	1.0	-62.7	-13.0	-49.7	
2544.90	-24.3	V	3.0	36.4	1.0	-59.8	-13.0	-46.8	
3393.20	-21.7	V	3.0	36.1	1.0	-56.8	-13.0	-43.8	
1696.60	-26.4	H	3.0	37.0	1.0	-62.4	-13.0	-49.4	
2544.90	-25.3	H	3.0	36.4	1.0	-60.7	-13.0	-47.7	
3393.20	-21.9	H	3.0	36.1	1.0	-57.0	-13.0	-44.0	

LTE Band 41

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: LG Electronics Project #: 15I21235 Date: 7/11/2015 Test Engineer: R.Alegre Configuration: EUT , AC Adapter, Headset Location: Chamber C Mode: LTE_16QAM Band 41 Harmonics, 20MHz Bandwidth									
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamplifier (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 2506									
5012.00	-18.4	V	3.0	35.5	1.0	-52.9	-25.0	-27.9	
7518.00	-13.3	V	3.0	35.7	1.0	-48.1	-25.0	-23.1	
10024.00	-12.1	V	3.0	36.0	1.0	-47.1	-25.0	-22.1	
5012.00	-18.0	H	3.0	35.5	1.0	-52.5	-25.0	-27.5	
7518.00	-12.9	H	3.0	35.7	1.0	-47.7	-25.0	-22.7	
10024.00	-10.5	H	3.0	36.0	1.0	-45.5	-25.0	-20.5	
Mid Ch, 2593									
5186.00	-18.1	V	3.0	35.4	1.0	-52.5	-25.0	-27.5	
7779.00	-12.9	V	3.0	35.8	1.0	-47.7	-25.0	-22.7	
10372.00	-11.1	V	3.0	35.8	1.0	-46.0	-25.0	-21.0	
5186.00	-18.0	H	3.0	35.4	1.0	-52.4	-25.0	-27.4	
7779.00	-12.1	H	3.0	35.8	1.0	-46.9	-25.0	-21.9	
10372.00	-10.4	H	3.0	35.8	1.0	-45.3	-25.0	-20.3	
High Ch, 2680									
5360.00	-17.9	V	3.0	35.4	1.0	-52.3	-25.0	-27.3	
8040.00	-12.7	V	3.0	35.8	1.0	-47.5	-25.0	-22.5	
10720.00	-9.8	V	3.0	35.7	1.0	-44.5	-25.0	-19.5	
5360.00	-16.2	H	3.0	35.4	1.0	-50.6	-25.0	-25.6	
8040.00	-12.1	H	3.0	35.8	1.0	-46.9	-25.0	-21.9	
10720.00	-10.7	H	3.0	35.7	1.0	-45.3	-25.0	-20.3	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: LG Electronics Project #: 15I21235 Date: 7/11/2015 Test Engineer: R.Alegre Configuration: EUT , AC Adapter, Headset Location: Chamber C Mode: LTE_16QAM Band 41 Harmonics, 15MHz Bandwidth									
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 2503.5									
5007.00	-18.6	V	3.0	35.5	1.0	-53.0	-25.0	-28.0	
7510.50	-14.3	V	3.0	35.7	1.0	-49.1	-25.0	-24.1	
10014.00	-11.9	V	3.0	36.0	1.0	-47.0	-25.0	-22.0	
5007.00	-17.4	H	3.0	35.5	1.0	-51.9	-25.0	-26.9	
7510.50	-12.5	H	3.0	35.7	1.0	-47.2	-25.0	-22.2	
10014.00	-11.4	H	3.0	36.0	1.0	-46.5	-25.0	-21.5	
Mid Ch, 2593									
5186.00	-18.1	V	3.0	35.4	1.0	-52.5	-25.0	-27.5	
7779.00	-13.0	V	3.0	35.8	1.0	-47.8	-25.0	-22.8	
10372.00	-11.7	V	3.0	35.8	1.0	-46.6	-25.0	-21.6	
5186.00	-17.7	H	3.0	35.4	1.0	-52.1	-25.0	-27.1	
7779.00	-11.9	H	3.0	35.8	1.0	-46.7	-25.0	-21.7	
10372.00	-10.4	H	3.0	35.8	1.0	-45.2	-25.0	-20.2	
High Ch, 2682.5									
5365.00	-17.9	V	3.0	35.4	1.0	-52.3	-25.0	-27.3	
8047.50	-12.9	V	3.0	35.8	1.0	-47.7	-25.0	-22.7	
10730.00	-10.9	V	3.0	35.7	1.0	-45.5	-25.0	-20.5	
5365.00	-17.5	H	3.0	35.4	1.0	-51.9	-25.0	-26.9	
8047.50	-11.8	H	3.0	35.8	1.0	-46.6	-25.0	-21.6	
10730.00	-11.5	H	3.0	35.7	1.0	-46.2	-25.0	-21.2	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I21235							
Date:		7/11/2015							
Test Engineer:		R.Alegre							
Configuration:		EUT , AC Adapter, Headset							
Location:		Chamber C							
Mode:		LTE_ 16QAM Band 41 Harmonics, 5MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 2498.5									
4997.00	-18.2	V	3.0	35.5	1.0	-52.6	-25.0	-27.6	
7495.50	-13.6	V	3.0	35.7	1.0	-48.4	-25.0	-23.4	
9994.00	-11.9	V	3.0	36.0	1.0	-46.9	-25.0	-21.9	
4997.00	-17.5	H	3.0	35.5	1.0	-52.0	-25.0	-27.0	
7495.50	-12.5	H	3.0	35.7	1.0	-47.2	-25.0	-22.2	
9994.00	-11.3	H	3.0	36.0	1.0	-46.3	-25.0	-21.3	
Mid Ch, 2593									
5186.00	-17.8	V	3.0	35.4	1.0	-52.2	-25.0	-27.2	
7779.00	-13.2	V	3.0	35.8	1.0	-48.0	-25.0	-23.0	
10372.00	-11.4	V	3.0	35.8	1.0	-46.3	-25.0	-21.3	
5186.00	-17.8	H	3.0	35.4	1.0	-52.3	-25.0	-27.3	
7779.00	-11.8	H	3.0	35.8	1.0	-46.6	-25.0	-21.6	
10372.00	-10.3	H	3.0	35.8	1.0	-45.2	-25.0	-20.2	
High Ch, 2687.5									
5375.00	-17.8	V	3.0	35.4	1.0	-52.2	-25.0	-27.2	
8062.50	-13.0	V	3.0	35.8	1.0	-47.8	-25.0	-22.8	
10750.00	-11.0	V	3.0	35.7	1.0	-45.6	-25.0	-20.6	
5375.00	-17.5	H	3.0	35.4	1.0	-51.9	-25.0	-26.9	
8062.50	-12.0	H	3.0	35.8	1.0	-46.8	-25.0	-21.8	
10750.00	-11.2	H	3.0	35.7	1.0	-45.8	-25.0	-20.8	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: LG Electronics Project #: 15I21235 Date: 7/11/2015 Test Engineer: R.Alegre Configuration: EUT , AC Adapter, Headset Location: Chamber C Mode: LTE_QPSK Band 41 Harmonics, 5MHz Bandwidth									
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 2498.5									
4997.00	-17.6	V	3.0	35.5	1.0	-52.0	-25.0	-27.0	
7495.50	-14.0	V	3.0	35.7	1.0	-48.8	-25.0	-23.8	
9994.00	-11.4	V	3.0	36.0	1.0	-46.4	-25.0	-21.4	
4997.00	-17.3	H	3.0	35.5	1.0	-51.7	-25.0	-26.7	
7495.50	-12.5	H	3.0	35.7	1.0	-47.2	-25.0	-22.2	
9994.00	-10.8	H	3.0	36.0	1.0	-45.9	-25.0	-20.9	
Mid Ch, 2593									
5186.00	-17.8	V	3.0	35.4	1.0	-52.2	-25.0	-27.2	
7779.00	-12.6	V	3.0	35.8	1.0	-47.4	-25.0	-22.4	
10372.00	-11.2	V	3.0	35.8	1.0	-46.0	-25.0	-21.0	
5186.00	-17.7	H	3.0	35.4	1.0	-52.1	-25.0	-27.1	
7779.00	-12.0	H	3.0	35.8	1.0	-46.8	-25.0	-21.8	
10372.00	-10.1	H	3.0	35.8	1.0	-45.0	-25.0	-20.0	
High Ch, 2687.5									
5375.00	-17.6	V	3.0	35.4	1.0	-52.0	-25.0	-27.0	
8062.50	-13.0	V	3.0	35.8	1.0	-47.8	-25.0	-22.8	
10750.00	-10.9	V	3.0	35.7	1.0	-45.5	-25.0	-20.5	
5375.00	-17.3	H	3.0	35.4	1.0	-51.7	-25.0	-26.7	
8062.50	-11.8	H	3.0	35.8	1.0	-46.6	-25.0	-21.6	
10750.00	-11.3	H	3.0	35.7	1.0	-45.9	-25.0	-20.9	