

LTE Band 4 1.4MHz QPSK	High Frequency Substitution Measurement UL Korea, Ltd. Suwon Laboratory Chamber 2								
	Company: Samsung Project #: 16K22923 Date: 02-28-16 Test Engineer: Steven.Kim Configuration: EUT / X-Position Mode: LTE Band 4 QPSK, 1.4MHz								
	Test Equipment: Receiving: 3117[00168724] and Chamber 1 SMA Cables Substitution: 3115[00161451] Substitution, 3m SMA Cable Warehouse								
	f	SG reading	Ant. Pol.	Cable Loss	Antenna Gain	EIRP	Limit	Margin	Notes
	MHz	(dBm)	(H/V)	(dB)	(dBi)	(dBm)	(dBm)	(dB)	
	Low Ch								
	1710.70	4.98	V	1.54	9.12	12.56	30.0	-17.4	
	1710.70	10.15	H	1.54	9.12	17.73	30.0	-12.3	
	Mid Ch								
	1732.50	6.14	V	1.55	9.31	13.90	30.0	-16.1	
	1732.50	9.66	H	1.55	9.31	17.42	30.0	-12.6	
	High Ch								
	1754.30	3.36	V	1.56	9.37	11.17	30.0	-18.8	
	1754.30	8.67	H	1.56	9.37	16.48	30.0	-13.5	
	Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm								
LTE Band 4 1.4MHz 16QAM	High Frequency Substitution Measurement UL Korea, Ltd. Suwon Laboratory Chamber 2								
	Company: Samsung Project #: 16K22923 Date: 02-28-16 Test Engineer: Steven.Kim Configuration: EUT / X-Position Mode: LTE Band 4 16QAM, 1.4MHz								
	Test Equipment: Receiving: 3117[00168724] and Chamber 1 SMA Cables Substitution: 3115[00161451] Substitution, 3m SMA Cable Warehouse								
	f	SG reading	Ant. Pol.	Cable Loss	Antenna Gain	EIRP	Limit	Margin	Notes
	MHz	(dBm)	(H/V)	(dB)	(dBi)	(dBm)	(dBm)	(dB)	
	Low Ch								
	1710.70	4.76	V	1.54	9.12	12.34	30.0	-17.7	
	1710.70	9.80	H	1.54	9.12	17.38	30.0	-12.6	
	Mid Ch								
	1732.50	5.86	V	1.55	9.31	13.62	30.0	-16.4	
	1732.50	9.19	H	1.55	9.31	16.95	30.0	-13.1	
	High Ch								
	1754.30	3.01	V	1.56	9.37	10.82	30.0	-19.2	
	1754.30	8.44	H	1.56	9.37	16.25	30.0	-13.8	
	Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm								

LTE Band 2

LTE Band 2 20MHz QPSK	High Frequency Substitution Measurement UL Korea, Ltd. Suwon Laboratory Chamber 2 Company: Samsung Project #: 16K22923 Date: 02-22-16 Test Engineer: Steven Kim Configuration: EUT / X-Position Mode: LTE Band 2 QPSK, 20MHz Test Equipment: Receiving: 3117[00168724] and Chamber 1 SMA Cables Substitution: 3115[00161451] Substitution, 3m SMA Cable Warehouse <table><tr><th>f MHz</th><th>SG reading (dBm)</th><th>Ant. Pol. (H/V)</th><th>Cable Loss (dB)</th><th>Antenna Gain (dBi)</th><th>EIRP (dBm)</th><th>Limit (dBm)</th><th>Margin (dB)</th><th>Notes</th></tr><tr><td>Low Ch</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>1860.00</td><td>11.16</td><td>V</td><td>1.60</td><td>9.12</td><td>18.68</td><td>33.0</td><td>-14.3</td></tr><tr><td>1860.00</td><td>11.91</td><td>H</td><td>1.60</td><td>9.12</td><td>19.43</td><td>33.0</td><td>-13.6</td></tr><tr><td>Mid Ch</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>1880.00</td><td>11.80</td><td>V</td><td>1.62</td><td>8.62</td><td>18.80</td><td>33.0</td><td>-14.2</td></tr><tr><td>1880.00</td><td>12.12</td><td>H</td><td>1.62</td><td>8.62</td><td>19.12</td><td>33.0</td><td>-13.9</td></tr><tr><td>High Ch</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>1900.00</td><td>12.10</td><td>V</td><td>1.63</td><td>8.50</td><td>18.97</td><td>33.0</td><td>-14.0</td></tr><tr><td>1900.00</td><td>13.03</td><td>H</td><td>1.63</td><td>8.50</td><td>19.90</td><td>33.0</td><td>-13.1</td></tr></table> Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm									f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes	Low Ch								1860.00	11.16	V	1.60	9.12	18.68	33.0	-14.3	1860.00	11.91	H	1.60	9.12	19.43	33.0	-13.6	Mid Ch								1880.00	11.80	V	1.62	8.62	18.80	33.0	-14.2	1880.00	12.12	H	1.62	8.62	19.12	33.0	-13.9	High Ch								1900.00	12.10	V	1.63	8.50	18.97	33.0	-14.0	1900.00	13.03	H	1.63	8.50	19.90	33.0	-13.1
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes																																																																																	
	Low Ch																																																																																									
	1860.00	11.16	V	1.60	9.12	18.68	33.0	-14.3																																																																																		
	1860.00	11.91	H	1.60	9.12	19.43	33.0	-13.6																																																																																		
	Mid Ch																																																																																									
	1880.00	11.80	V	1.62	8.62	18.80	33.0	-14.2																																																																																		
	1880.00	12.12	H	1.62	8.62	19.12	33.0	-13.9																																																																																		
	High Ch																																																																																									
	1900.00	12.10	V	1.63	8.50	18.97	33.0	-14.0																																																																																		
1900.00	13.03	H	1.63	8.50	19.90	33.0	-13.1																																																																																			
LTE Band 2 20MHz 16QAM	High Frequency Substitution Measurement UL Korea, Ltd. Suwon Laboratory Chamber 2 Company: Samsung Project #: 16K22923 Date: 02-22-16 Test Engineer: Steven Kim Configuration: EUT / X-Position Mode: LTE Band 2 16QAM, 20MHz Test Equipment: Receiving: 3117[00168724] and Chamber 1 SMA Cables Substitution: 3115[00161451] Substitution, 3m SMA Cable Warehouse <table><tr><th>f MHz</th><th>SG reading (dBm)</th><th>Ant. Pol. (H/V)</th><th>Cable Loss (dB)</th><th>Antenna Gain (dBi)</th><th>EIRP (dBm)</th><th>Limit (dBm)</th><th>Margin (dB)</th><th>Notes</th></tr><tr><td>Low Ch</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>1860.00</td><td>11.24</td><td>V</td><td>1.60</td><td>9.12</td><td>18.76</td><td>33.0</td><td>-14.2</td></tr><tr><td>1860.00</td><td>12.01</td><td>H</td><td>1.60</td><td>9.12</td><td>19.53</td><td>33.0</td><td>-13.5</td></tr><tr><td>Mid Ch</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>1880.00</td><td>11.92</td><td>V</td><td>1.62</td><td>8.62</td><td>18.92</td><td>33.0</td><td>-14.1</td></tr><tr><td>1880.00</td><td>12.15</td><td>H</td><td>1.62</td><td>8.62</td><td>19.15</td><td>33.0</td><td>-13.8</td></tr><tr><td>High Ch</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>1900.00</td><td>12.17</td><td>V</td><td>1.63</td><td>8.50</td><td>19.04</td><td>33.0</td><td>-14.0</td></tr><tr><td>1900.00</td><td>13.03</td><td>H</td><td>1.63</td><td>8.50</td><td>19.90</td><td>33.0</td><td>-13.1</td></tr></table> Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm									f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes	Low Ch								1860.00	11.24	V	1.60	9.12	18.76	33.0	-14.2	1860.00	12.01	H	1.60	9.12	19.53	33.0	-13.5	Mid Ch								1880.00	11.92	V	1.62	8.62	18.92	33.0	-14.1	1880.00	12.15	H	1.62	8.62	19.15	33.0	-13.8	High Ch								1900.00	12.17	V	1.63	8.50	19.04	33.0	-14.0	1900.00	13.03	H	1.63	8.50	19.90	33.0	-13.1
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes																																																																																	
	Low Ch																																																																																									
	1860.00	11.24	V	1.60	9.12	18.76	33.0	-14.2																																																																																		
	1860.00	12.01	H	1.60	9.12	19.53	33.0	-13.5																																																																																		
	Mid Ch																																																																																									
	1880.00	11.92	V	1.62	8.62	18.92	33.0	-14.1																																																																																		
	1880.00	12.15	H	1.62	8.62	19.15	33.0	-13.8																																																																																		
	High Ch																																																																																									
	1900.00	12.17	V	1.63	8.50	19.04	33.0	-14.0																																																																																		
1900.00	13.03	H	1.63	8.50	19.90	33.0	-13.1																																																																																			

LTE Band 2 15MHz QPSK	High Frequency Substitution Measurement UL Korea, Ltd. Suwon Laboratory Chamber 2								
	Company: Samsung Project #: 16K22923 Date: 02-26-16 Test Engineer: Steven Kim Configuration: EUT / X-Position Mode: LTE Band 2 QPSK, 15MHz								
	Test Equipment: Receiving: 3117[00168724] and Chamber 1 SMA Cables Substitution: 3115[00161451] Substitution, 3m SMA Cable Warehouse								
	f	SG reading	Ant. Pol.	Cable Loss	Antenna Gain	EIRP	Limit	Margin	Notes
	MHz	(dBm)	(H/V)	(dB)	(dBi)	(dBm)	(dBm)	(dB)	
	Low Ch								
	1857.50	11.10	V	1.60	9.12	18.62	33.0	-14.4	
	1857.50	12.16	H	1.60	9.12	19.68	33.0	-13.3	
	Mid Ch								
	1880.00	11.86	V	1.62	8.62	18.86	33.0	-14.1	
	1880.00	12.73	H	1.62	8.62	19.73	33.0	-13.3	
	High Ch								
	1902.50	12.17	V	1.63	8.49	19.03	33.0	-14.0	
	1902.50	13.98	H	1.63	8.49	20.84	33.0	-12.2	
	Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm								
LTE Band 2 15MHz 16QAM	High Frequency Substitution Measurement UL Korea, Ltd. Suwon Laboratory Chamber 2								
	Company: Samsung Project #: 16K22923 Date: 02-26-16 Test Engineer: Steven Kim Configuration: EUT / X-Position Mode: LTE Band 2 16QAM, 15MHz								
	Test Equipment: Receiving: 3117[00168724] and Chamber 1 SMA Cables Substitution: 3115[00161451] Substitution, 3m SMA Cable Warehouse								
	f	SG reading	Ant. Pol.	Cable Loss	Antenna Gain	EIRP	Limit	Margin	Notes
	MHz	(dBm)	(H/V)	(dB)	(dBi)	(dBm)	(dBm)	(dB)	
	Low Ch								
	1857.50	11.21	V	1.60	9.12	18.73	33.0	-14.3	
	1857.50	12.27	H	1.60	9.12	19.79	33.0	-13.2	
	Mid Ch								
	1880.00	11.98	V	1.62	8.62	18.98	33.0	-14.0	
	1880.00	12.74	H	1.62	8.62	19.74	33.0	-13.3	
	High Ch								
	1902.50	12.12	V	1.63	8.49	18.98	33.0	-14.0	
	1902.50	14.05	H	1.63	8.49	20.91	33.0	-12.1	
	Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm								

LTE Band 2 10MHz QPSK	High Frequency Substitution Measurement UL Korea, Ltd. Suwon Laboratory Chamber 2								
	Company: Samsung Project #: 16K22923 Date: 02-26-16 Test Engineer: Steven Kim Configuration: EUT / X-Position Mode: LTE Band 2 QPSK, 10MHz								
	Test Equipment: Receiving: 3117[00168724] and Chamber 1 SMA Cables Substitution: 3115[00161451] Substitution, 3m SMA Cable Warehouse								
	f	SG reading	Ant. Pol.	Cable Loss	Antenna Gain	EIRP	Limit	Margin	Notes
	MHz	(dBm)	(H/V)	(dB)	(dBi)	(dBm)	(dBm)	(dB)	
	Low Ch								
	1855.00	10.93	V	1.60	9.12	18.45	33.0	-14.6	
	1855.00	12.81	H	1.60	9.12	20.33	33.0	-12.7	
	Mid Ch								
	1880.00	11.93	V	1.62	8.62	18.93	33.0	-14.1	
	1880.00	12.48	H	1.62	8.62	19.48	33.0	-13.5	
	High Ch								
	1905.00	12.19	V	1.63	8.47	19.03	33.0	-14.0	
	1905.00	13.46	H	1.63	8.47	20.30	33.0	-12.7	
	Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm								
LTE Band 2 10MHz 16QAM	High Frequency Substitution Measurement UL Korea, Ltd. Suwon Laboratory Chamber 2								
	Company: Samsung Project #: 16K22923 Date: 02-26-16 Test Engineer: Steven Kim Configuration: EUT / X-Position Mode: LTE Band 2 16QAM, 10MHz								
	Test Equipment: Receiving: 3117[00168724] and Chamber 1 SMA Cables Substitution: 3115[00161451] Substitution, 3m SMA Cable Warehouse								
	f	SG reading	Ant. Pol.	Cable Loss	Antenna Gain	EIRP	Limit	Margin	Notes
	MHz	(dBm)	(H/V)	(dB)	(dBi)	(dBm)	(dBm)	(dB)	
	Low Ch								
	1855.00	10.91	V	1.60	9.12	18.43	33.0	-14.6	
	1855.00	12.77	H	1.60	9.12	20.29	33.0	-12.7	
	Mid Ch								
	1880.00	11.99	V	1.62	8.62	18.99	33.0	-14.0	
	1880.00	12.54	H	1.62	8.62	19.54	33.0	-13.5	
	High Ch								
	1905.00	12.22	V	1.63	8.47	19.06	33.0	-13.9	
	1905.00	13.58	H	1.63	8.47	20.42	33.0	-12.6	
	Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm								

LTE Band 2 5MHz QPSK	High Frequency Substitution Measurement UL Korea, Ltd. Suwon Laboratory Chamber 2 Company: Samsung Project #: 16K22923 Date: 02-26-16 Test Engineer: Steven Kim Configuration: EUT / X-Position Mode: LTE Band 2 QPSK, 5MHz Test Equipment: Receiving: 3117[00168724] and Chamber 1 SMA Cables Substitution: 3115[00161451] Substitution, 3m SMA Cable Warehouse								
	f	SG reading	Ant. Pol.	Cable Loss	Antenna Gain	EIRP	Limit	Margin	Notes
	MHz	(dBm)	(H/V)	(dB)	(dBi)	(dBm)	(dBm)	(dB)	
	Low Ch								
	1852.50	10.70	V	1.60	9.12	18.22	33.0	-14.8	
	1852.50	12.49	H	1.60	9.12	20.01	33.0	-13.0	
	Mid Ch								
	1880.00	11.87	V	1.62	8.62	18.87	33.0	-14.1	
	1880.00	13.08	H	1.62	8.62	20.08	33.0	-12.9	
	High Ch								
	1907.50	11.97	V	1.63	8.46	18.80	33.0	-14.2	
	1907.50	14.02	H	1.63	8.46	20.85	33.0	-12.1	
Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm									
LTE Band 2 5MHz 16QAM	High Frequency Substitution Measurement UL Korea, Ltd. Suwon Laboratory Chamber 2 Company: Samsung Project #: 16K22923 Date: 02-26-16 Test Engineer: Steven Kim Configuration: EUT / X-Position Mode: LTE Band 2 16QAM, 5MHz Test Equipment: Receiving: 3117[00168724] and Chamber 1 SMA Cables Substitution: 3115[00161451] Substitution, 3m SMA Cable Warehouse								
	f	SG reading	Ant. Pol.	Cable Loss	Antenna Gain	EIRP	Limit	Margin	Notes
	MHz	(dBm)	(H/V)	(dB)	(dBi)	(dBm)	(dBm)	(dB)	
	Low Ch								
	1852.50	10.83	V	1.60	9.12	18.35	33.0	-14.7	
	1852.50	12.52	H	1.60	9.12	20.04	33.0	-13.0	
	Mid Ch								
	1880.00	11.90	V	1.62	8.62	18.90	33.0	-14.1	
	1880.00	13.03	H	1.62	8.62	20.03	33.0	-13.0	
	High Ch								
	1907.50	11.86	V	1.63	8.46	18.69	33.0	-14.3	
	1907.50	14.12	H	1.63	8.46	20.95	33.0	-12.0	
Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm									

LTE Band 2 3MHz QPSK	High Frequency Substitution Measurement UL Korea, Ltd. Suwon Laboratory Chamber 2								
	Company: Samsung Project #: 16K22923 Date: 02-26-16 Test Engineer: Steven Kim Configuration: EUT / X-Position Mode: LTE Band 2 QPSK, 3MHz								
	Test Equipment: Receiving: 3117[00168724] and Chamber 1 SMA Cables Substitution: 3115[00161451] Substitution, 3m SMA Cable Warehouse								
	f	SG reading	Ant. Pol.	Cable Loss	Antenna Gain	EIRP	Limit	Margin	Notes
	MHz	(dBm)	(H/V)	(dB)	(dBi)	(dBm)	(dBm)	(dB)	
	Low Ch								
	1851.50	11.04	V	1.60	9.12	18.56	33.0	-14.4	
	1851.50	12.50	H	1.60	9.12	20.02	33.0	-13.0	
	Mid Ch								
	1880.00	12.06	V	1.62	8.62	19.06	33.0	-13.9	
	1880.00	12.32	H	1.62	8.62	19.32	33.0	-13.7	
	High Ch								
	1908.50	12.70	V	1.63	8.45	19.52	33.0	-13.5	
	1908.50	13.49	H	1.63	8.45	20.31	33.0	-12.7	
	Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm								
LTE Band 2 3MHz 16QAM	High Frequency Substitution Measurement UL Korea, Ltd. Suwon Laboratory Chamber 2								
	Company: Samsung Project #: 16K22923 Date: 02-26-16 Test Engineer: Steven Kim Configuration: EUT / X-Position Mode: LTE Band 2 16QAM, 3MHz								
	Test Equipment: Receiving: 3117[00168724] and Chamber 1 SMA Cables Substitution: 3115[00161451] Substitution, 3m SMA Cable Warehouse								
	f	SG reading	Ant. Pol.	Cable Loss	Antenna Gain	EIRP	Limit	Margin	Notes
	MHz	(dBm)	(H/V)	(dB)	(dBi)	(dBm)	(dBm)	(dB)	
	Low Ch								
	1851.50	11.05	V	1.60	9.12	18.57	33.0	-14.4	
	1851.50	12.54	H	1.60	9.12	20.06	33.0	-12.9	
	Mid Ch								
	1880.00	12.20	V	1.62	8.62	19.20	33.0	-13.8	
	1880.00	12.44	H	1.62	8.62	19.44	33.0	-13.6	
	High Ch								
	1908.50	11.93	V	1.63	8.45	18.75	33.0	-14.2	
	1908.50	13.77	H	1.63	8.45	20.59	33.0	-12.4	
	Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm								

11.2. FIELD STRENGTH OF SPURIOUS RADIATION

RULE PART(S)

FCC: §2.1053, §22.917, §24.238 and §27. 53

LIMIT

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

TEST PROCEDURE

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

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

RESULTS

11.2.1. SPURIOUS RADIATION PLOTS

GSM 850

GSM

GSM850

GPRS

Company:

Project #:

Date:

Test Engineer:

Configuration:

Mode:

Samsung

16K22923

02-26-16

Steven Kim

EUT / AC Adapter / Earphone, X Position

GPRS 850 MHz

Chamber

Pre-amplifier

Filter

Limit

Chamber 2

AFS42

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, 824.2MHz									
1.6484	-5.9	V	3.0	39.1	1.0	-44.0	-13.0	-31.0	
2.4726	-17.2	V	3.0	39.5	1.0	-55.7	-13.0	-42.7	
3.2968	-16.6	V	3.0	40.1	1.0	-55.7	-13.0	-42.7	
1.6484	-2.2	H	3.0	39.1	1.0	-40.3	-13.0	-27.3	
2.4726	-15.8	H	3.0	39.5	1.0	-54.3	-13.0	-41.3	
3.2968	-16.6	H	3.0	40.1	1.0	-55.7	-13.0	-42.7	
Mid Ch, 836.6MHz									
1.6730	-4.9	V	3.0	39.1	1.0	-43.0	-13.0	-30.0	
2.5098	-15.9	V	3.0	39.5	1.0	-54.4	-13.0	-41.4	
3.3464	-16.8	V	3.0	40.1	1.0	-55.9	-13.0	-42.9	
1.6730	-0.7	H	3.0	39.1	1.0	-38.8	-13.0	-25.8	
2.5098	-10.8	H	3.0	39.5	1.0	-49.4	-13.0	-36.4	
3.3464	-16.1	H	3.0	40.1	1.0	-55.3	-13.0	-42.3	
High Ch, 848.8MHz									
1.6976	-3.3	V	3.0	39.1	1.0	-41.5	-13.0	-28.5	
2.5466	-13.0	V	3.0	39.6	1.0	-51.5	-13.0	-38.5	
3.3952	-16.0	V	3.0	40.2	1.0	-55.2	-13.0	-42.2	
1.6976	1.0	H	3.0	39.1	1.0	-37.1	-13.0	-24.1	
2.5466	-11.0	H	3.0	39.6	1.0	-49.5	-13.0	-36.5	
3.3952	-16.1	H	3.0	40.2	1.0	-55.3	-13.0	-42.3	

Rev. 03.03.09

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

GSM

GSM850

EGPRS

Company:

Project #:

Date:

Test Engineer:

Configuration:

Mode:

Samsung

16K22923

02-26-16

Steven Kim

EUT / AC Adapter / Earphone, X Position

EGPRS 850 MHz

Chamber

Pre-amplifier

Filter

Limit

Chamber 1

AFS42

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, 824.2MHz									
1.6484	-16.3	V	3.0	39.1	1.0	-54.4	-13.0	-41.4	
2.4726	-19.5	V	3.0	39.5	1.0	-58.0	-13.0	-45.0	
3.2968	-18.0	V	3.0	40.1	1.0	-57.1	-13.0	-44.1	
1.6484	-14.2	H	3.0	39.1	1.0	-52.4	-13.0	-39.4	
2.4726	-19.0	H	3.0	39.5	1.0	-57.6	-13.0	-44.6	
3.2968	-18.0	H	3.0	40.1	1.0	-57.1	-13.0	-44.1	
Mid Ch, 836.6MHz									
1.6730	-17.5	V	3.0	39.1	1.0	-55.6	-13.0	-42.6	
2.5098	-19.2	V	3.0	39.5	1.0	-57.7	-13.0	-44.7	
3.3464	-17.6	V	3.0	40.1	1.0	-56.7	-13.0	-43.7	
1.6730	-13.8	H	3.0	39.1	1.0	-51.9	-13.0	-38.9	
2.5098	-18.4	H	3.0	39.5	1.0	-57.0	-13.0	-44.0	
3.3464	-17.9	H	3.0	40.1	1.0	-57.0	-13.0	-44.0	
High Ch, 848.8MHz									
1.6976	-16.2	V	3.0	39.1	1.0	-54.3	-13.0	-41.3	
2.5466	-19.3	V	3.0	39.6	1.0	-57.8	-13.0	-44.8	
3.3952	-17.4	V	3.0	40.2	1.0	-56.6	-13.0	-43.6	
1.6976	-12.6	H	3.0	39.1	1.0	-50.7	-13.0	-37.7	
2.5466	-19.4	H	3.0	39.6	1.0	-58.0	-13.0	-45.0	
3.3952	-17.9	H	3.0	40.2	1.0	-57.1	-13.0	-44.1	

Rev. 03.03.09

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

GSM 1900

GSM

GSM1900

GPRS

UL Korea, Ltd Suwon Laboratory

Above 1GHz High Frequency Substitution Measurement

Company:

Samsung

Project #:

16K22923

Date:

02-25-16

Test Engineer:

Steven Kim

Configuration:

EUT / AC Adapter / Earphone, X Position

Mode:

GPRS 1900

Chamber

Chamber 2

Pre-amplifier

AFS42

Filter

Filter 1

Limit

Part 24

f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1850.2MHz									
3.7004	-0.4	V	3.0	40.5	1.0	-39.8	-13.0	-26.8	
5.5506	0.2	V	3.0	40.8	1.0	-39.6	-13.0	-26.6	
7.4008	-8.9	V	3.0	40.8	1.0	-48.7	-13.0	-35.7	
3.7000	0.6	H	3.0	40.5	1.0	-38.8	-13.0	-25.8	
5.5506	-5.2	H	3.0	40.8	1.0	-45.0	-13.0	-32.0	
7.4008	-8.9	H	3.0	40.8	1.0	-48.7	-13.0	-35.7	
Mid Ch, 1880.0MHz									
3.7600	0.6	V	3.0	40.5	1.0	-39.0	-13.0	-26.0	
5.6400	-3.2	V	3.0	40.8	1.0	-43.0	-13.0	-30.0	
7.5200	-8.7	V	3.0	40.7	1.0	-48.4	-13.0	-35.4	
3.7600	-0.6	H	3.0	40.5	1.0	-40.1	-13.0	-27.1	
5.6400	-4.3	H	3.0	40.8	1.0	-44.1	-13.0	-31.1	
7.5200	-8.6	H	3.0	40.7	1.0	-48.3	-13.0	-35.3	
High Ch, 1909.8 MHz									
3.8196	-0.7	V	3.0	40.6	1.0	-40.3	-13.0	-27.3	
5.7294	-5.3	V	3.0	40.8	1.0	-45.1	-13.0	-32.1	
7.6392	-8.7	V	3.0	40.7	1.0	-48.3	-13.0	-35.3	
3.8196	-1.5	H	3.0	40.6	1.0	-41.1	-13.0	-28.1	
5.7294	-5.0	H	3.0	40.8	1.0	-44.8	-13.0	-31.8	
7.6392	-8.6	H	3.0	40.7	1.0	-48.3	-13.0	-35.3	

Rev. 03.03.09

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

GSM

GSM1900

EGPRS

UL Korea, Ltd Suwon Laboratory

Above 1GHz High Frequency Substitution Measurement

Company:

Samsung

Project #:

16K22923

Date:

02-25-16

Test Engineer:

Steven Kim

Configuration:

EUT / AC Adapter / Earphone, X Position

Mode:

EGPRS 1900 MHz

Chamber

Chamber 2

Pre-amplifier

AFS42

Filter

Filter 1

Limit

Part 24

f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1850.2MHz									
3.7004	-4.6	V	3.0	40.5	1.0	-44.1	-13.0	-31.1	
5.5506	-10.3	V	3.0	40.8	1.0	-50.1	-13.0	-37.1	
7.4008	-9.0	V	3.0	40.8	1.0	-48.7	-13.0	-35.7	
3.7000	-4.9	H	3.0	40.5	1.0	-44.3	-13.0	-31.3	
5.5500	-11.6	H	3.0	40.8	1.0	-51.4	-13.0	-38.4	
7.4000	-8.9	H	3.0	40.8	1.0	-48.7	-13.0	-35.7	
Mid Ch, 1880.0MHz									
3.7600	-6.5	V	3.0	40.5	1.0	-46.1	-13.0	-33.1	
5.6400	-10.1	V	3.0	40.8	1.0	-49.9	-13.0	-36.9	
7.5200	-8.9	V	3.0	40.7	1.0	-48.6	-13.0	-35.6	
3.7600	-6.9	H	3.0	40.5	1.0	-46.4	-13.0	-33.4	
5.6400	-11.0	H	3.0	40.8	1.0	-50.8	-13.0	-37.8	
7.5200	-8.8	H	3.0	40.7	1.0	-48.5	-13.0	-35.5	
High Ch, 1909.8 MHz									
3.8196	-8.4	V	3.0	40.6	1.0	-48.0	-13.0	-35.0	
5.7294	-12.0	V	3.0	40.8	1.0	-51.8	-13.0	-38.8	
7.6392	-8.8	V	3.0	40.7	1.0	-48.5	-13.0	-35.5	
3.8196	-8.8	H	3.0	40.6	1.0	-48.4	-13.0	-35.4	
5.7294	-12.6	H	3.0	40.8	1.0	-52.4	-13.0	-39.4	
7.6392	-8.6	H	3.0	40.7	1.0	-48.2	-13.0	-35.2	

Rev. 03.03.09

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

WCDMA Band 5

UL Korea, Ltd Suwon Laboratory
Above 1GHz High Frequency Substitution Measurement

Company: Samsung
Project #: 16K22923
Date: 02-25-16
Test Engineer: Steven Kim
Configuration: EUT / AC Adapter / Ear Phone / X-Position
Mode: Tx, REL99,850MHz

Chamber Pre-amplifier Filter Limit
Chamber 2 AFS42 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, 826.40MHz									
1.6520	-9.1	V	3.0	39.1	1.0	-47.2	-13.0	-34.2	
2.4790	-17.5	V	3.0	39.5	1.0	-56.0	-13.0	-43.0	
3.3056	-15.9	V	3.0	40.1	1.0	-55.0	-13.0	-42.0	
1.6520	-6.4	H	3.0	39.1	1.0	-44.5	-13.0	-31.5	
2.4790	-18.0	H	3.0	39.5	1.0	-56.5	-13.0	-43.5	
3.3056	-16.1	H	3.0	40.1	1.0	-55.2	-13.0	-42.2	
Mid Ch, 836.6MHz									
1.6732	-11.0	V	3.0	39.1	1.0	-49.1	-13.0	-36.1	
2.5098	-17.5	V	3.0	39.5	1.0	-56.1	-13.0	-43.1	
3.3464	-15.7	V	3.0	40.1	1.0	-54.9	-13.0	-41.9	
1.6732	-7.7	H	3.0	39.1	1.0	-45.8	-13.0	-32.8	
2.5098	-17.5	H	3.0	39.5	1.0	-56.0	-13.0	-43.0	
3.3464	-16.0	H	3.0	40.1	1.0	-55.2	-13.0	-42.2	
High Ch, 846.6MHz									
1.6932	-16.8	V	3.0	39.1	1.0	-54.9	-13.0	-41.9	
2.5390	-17.3	V	3.0	39.6	1.0	-55.9	-13.0	-42.9	
3.3860	-15.6	V	3.0	40.2	1.0	-54.7	-13.0	-41.7	
1.6932	-10.9	H	3.0	39.1	1.0	-49.1	-13.0	-36.1	
2.5390	-17.4	H	3.0	39.6	1.0	-56.0	-13.0	-43.0	
3.3860	-16.1	H	3.0	40.2	1.0	-55.3	-13.0	-42.3	

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

UL Korea, Ltd Suwon Laboratory
Above 1GHz High Frequency Substitution Measurement

Company: Samsung
Project #: 16K22923
Date: 02-25-16
Test Engineer: Steven Kim
Configuration: EUT / AC Adapter / Ear Phone / X-Position
Mode: Tx, HSDPA,850MHz

Chamber Pre-amplifier Filter Limit
Chamber 2 AFS42 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, 826.40MHz									
1.6520	-10.5	V	3.0	39.1	1.0	-48.6	-13.0	-35.6	
2.4790	-17.6	V	3.0	39.5	1.0	-56.1	-13.0	-43.1	
3.3056	-16.0	V	3.0	40.1	1.0	-55.1	-13.0	-42.1	
1.6520	-8.6	H	3.0	39.1	1.0	-46.7	-13.0	-33.7	
2.4790	-18.1	H	3.0	39.5	1.0	-56.6	-13.0	-43.6	
3.3056	-16.3	H	3.0	40.1	1.0	-55.4	-13.0	-42.4	
Mid Ch, 836.6MHz									
1.6732	-11.0	V	3.0	39.1	1.0	-49.1	-13.0	-36.1	
2.5098	-17.3	V	3.0	39.5	1.0	-55.9	-13.0	-42.9	
3.3464	-15.8	V	3.0	40.1	1.0	-55.0	-13.0	-42.0	
1.6732	-10.5	H	3.0	39.1	1.0	-48.6	-13.0	-35.6	
2.5098	-17.9	H	3.0	39.5	1.0	-56.4	-13.0	-43.4	
3.3464	-16.0	H	3.0	40.1	1.0	-55.1	-13.0	-42.1	
High Ch, 846.6MHz									
1.6932	-15.3	V	3.0	39.1	1.0	-53.4	-13.0	-40.4	
2.5390	-17.4	V	3.0	39.6	1.0	-56.0	-13.0	-43.0	
3.3860	-15.8	V	3.0	40.2	1.0	-55.0	-13.0	-42.0	
1.6932	-13.6	H	3.0	39.1	1.0	-51.7	-13.0	-38.7	
2.5390	-17.8	H	3.0	39.6	1.0	-56.3	-13.0	-43.3	
3.3860	-15.9	H	3.0	40.2	1.0	-55.1	-13.0	-42.1	

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

WCDMA Band 4

WCDMA
Band 4
REL99

UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement									
Company:		Samsung							
Project #:		16K22923							
Date:		02-26-16							
Test Engineer:		Steven Kim							
Configuration:		EUT / AC Adapter / Earphone / X Position							
Mode:		Tx, REL99, 1700MHz							
Chamber		Pre-amplifier		Filter		Limit			
Chamber 2		AFS42		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, 1712.4MHz									
3.4248	-10.7	V	3.0	40.2	1.0	-50.0	-13.0	-37.0	
5.1372	-10.3	V	3.0	40.9	1.0	-50.2	-13.0	-37.2	
6.8496	-9.5	V	3.0	41.0	1.0	-49.5	-13.0	-36.5	
3.4248	-10.6	H	3.0	40.2	1.0	-49.8	-13.0	-36.8	
5.1372	-9.6	H	3.0	40.9	1.0	-49.4	-13.0	-36.4	
6.8496	-9.6	H	3.0	41.0	1.0	-49.6	-13.0	-36.6	
Mid Ch, 1732.6MHz									
3.4652	-9.0	V	3.0	40.3	1.0	-48.3	-13.0	-35.3	
5.1978	-9.3	V	3.0	40.9	1.0	-49.1	-13.0	-36.1	
6.9304	-9.5	V	3.0	41.0	1.0	-49.5	-13.0	-36.5	
3.4652	-6.1	H	3.0	40.3	1.0	-45.3	-13.0	-32.3	
5.1978	-8.9	H	3.0	40.9	1.0	-48.8	-13.0	-35.8	
6.9304	-9.5	H	3.0	41.0	1.0	-49.5	-13.0	-36.5	
High Ch, 1752.6MHz									
3.5052	-10.6	V	3.0	40.3	1.0	-49.9	-13.0	-36.9	
5.2578	-11.2	V	3.0	40.9	1.0	-51.1	-13.0	-38.1	
7.0104	-9.9	V	3.0	41.0	1.0	-49.9	-13.0	-36.9	
3.5052	-8.3	H	3.0	40.3	1.0	-47.6	-13.0	-34.6	
5.2578	-10.7	H	3.0	40.9	1.0	-50.6	-13.0	-37.6	
7.0104	-9.8	H	3.0	41.0	1.0	-49.8	-13.0	-36.8	
Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.									

WCDMA
Band 4
HSDPA

UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement									
Company:		Samsung							
Project #:		16K22923							
Date:		02-26-16							
Test Engineer:		Steven Kim							
Configuration:		EUT / AC Adapter / Earphone / X Position							
Mode:		Tx, HSDPA, 1700MHz							
Chamber		Pre-amplifier		Filter		Limit			
Chamber 2		AFS42		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, 1712.4MHz									
3.4248	-7.1	V	3.0	40.2	1.0	-46.3	-13.0	-33.3	
5.1372	-9.8	V	3.0	40.9	1.0	-49.7	-13.0	-36.7	
6.8496	-9.1	V	3.0	41.0	1.0	-49.1	-13.0	-36.1	
3.4248	-6.0	H	3.0	40.2	1.0	-45.2	-13.0	-32.2	
5.1372	-9.0	H	3.0	40.9	1.0	-48.9	-13.0	-35.9	
6.8496	-9.1	H	3.0	41.0	1.0	-49.1	-13.0	-36.1	
Mid Ch, 1732.6MHz									
3.4652	-9.0	V	3.0	40.3	1.0	-48.2	-13.0	-35.2	
5.1978	-10.4	V	3.0	40.9	1.0	-50.3	-13.0	-37.3	
6.9304	-9.3	V	3.0	41.0	1.0	-49.3	-13.0	-36.3	
3.4652	-6.2	H	3.0	40.3	1.0	-45.5	-13.0	-32.5	
5.1978	-10.4	H	3.0	40.9	1.0	-50.3	-13.0	-37.3	
6.9304	-9.2	H	3.0	41.0	1.0	-49.3	-13.0	-36.3	
High Ch, 1752.6MHz									
3.5052	-9.0	V	3.0	40.3	1.0	-48.3	-13.0	-35.3	
5.2578	-10.5	V	3.0	40.9	1.0	-50.4	-13.0	-37.4	
7.0104	-9.7	V	3.0	41.0	1.0	-49.7	-13.0	-36.7	
3.5052	-7.1	H	3.0	40.3	1.0	-46.4	-13.0	-33.4	
5.2578	-10.0	H	3.0	40.9	1.0	-49.9	-13.0	-36.9	
7.0104	-9.6	H	3.0	41.0	1.0	-49.6	-13.0	-36.6	
Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.									

WCDMA Band 2

WCDMA
Band 2
REL99

UL Korea, Ltd Suwon Laboratory
Above 1GHz High Frequency Substitution Measurement

Company: Samsung
Project #: 16K22923
Date: 02-25-16
Test Engineer: Steven Kim
Configuration: EUT / AC Adapter / Earphone / X Position
Mode: Tx, REL99,1900MHz

Chamber

Pre-amplifier

Filter

Limit

Chamber 2

AFS42

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, 1852.4MHz									
3.7048	-11.8	V	3.0	40.5	1.0	-51.3	-13.0	-38.3	
5.5572	-10.1	V	3.0	40.8	1.0	-50.0	-13.0	-37.0	
7.4096	-8.2	V	3.0	40.8	1.0	-48.0	-13.0	-35.0	
3.7048	-10.2	H	3.0	40.5	1.0	-49.7	-13.0	-36.7	
5.5572	-8.7	H	3.0	40.8	1.0	-48.5	-13.0	-35.5	
7.4096	-7.8	H	3.0	40.8	1.0	-47.6	-13.0	-34.6	
Mid Ch, 1880MHz									
3.7600	-10.2	V	3.0	40.5	1.0	-49.8	-13.0	-36.8	
5.6400	-8.5	V	3.0	40.8	1.0	-48.3	-13.0	-35.3	
7.5200	-8.0	V	3.0	40.7	1.0	-47.7	-13.0	-34.7	
3.7600	-7.9	H	3.0	40.5	1.0	-47.4	-13.0	-34.4	
5.6400	-7.2	H	3.0	40.8	1.0	-47.0	-13.0	-34.0	
7.5200	-8.0	H	3.0	40.7	1.0	-47.7	-13.0	-34.7	
High Ch, 1907.6MHz									
3.8152	-6.5	V	3.0	40.6	1.0	-46.0	-13.0	-33.0	
5.7228	-9.3	V	3.0	40.8	1.0	-49.0	-13.0	-36.0	
7.6304	-7.8	V	3.0	40.7	1.0	-47.4	-13.0	-34.4	
3.8152	-3.3	H	3.0	40.6	1.0	-42.9	-13.0	-29.9	
5.7228	-10.0	H	3.0	40.8	1.0	-49.8	-13.0	-36.8	
7.6304	-7.8	H	3.0	40.7	1.0	-47.4	-13.0	-34.4	

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

WCDMA
Band 2
HSDPA

UL Korea, Ltd Suwon Laboratory
Above 1GHz High Frequency Substitution Measurement

Company: Samsung
Project #: 16K22923
Date: 02-25-16
Test Engineer: Steven Kim
Configuration: EUT / AC Adapter / Earphone / X Position
Mode: Tx, HSDPA,1900MHz

Chamber

Pre-amplifier

Filter

Limit

Chamber 2

AFS42

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, 1852.4MHz									
3.7048	-11.7	V	3.0	40.5	1.0	-51.2	-13.0	-38.2	
5.5572	-9.3	V	3.0	40.8	1.0	-49.1	-13.0	-36.1	
7.4096	-8.1	V	3.0	40.8	1.0	-47.9	-13.0	-34.9	
3.7048	-9.3	H	3.0	40.5	1.0	-48.8	-13.0	-35.8	
5.5572	-8.6	H	3.0	40.8	1.0	-48.4	-13.0	-35.4	
7.4096	-8.0	H	3.0	40.8	1.0	-47.8	-13.0	-34.8	
Mid Ch, 1880MHz									
3.7600	-9.3	V	3.0	40.5	1.0	-48.9	-13.0	-35.9	
5.6400	-7.3	V	3.0	40.8	1.0	-47.1	-13.0	-34.1	
7.5200	-8.3	V	3.0	40.7	1.0	-48.0	-13.0	-35.0	
3.7600	-7.2	H	3.0	40.5	1.0	-46.7	-13.0	-33.7	
5.6400	-6.8	H	3.0	40.8	1.0	-46.6	-13.0	-33.6	
7.5200	-8.1	H	3.0	40.7	1.0	-47.8	-13.0	-34.8	
High Ch, 1907.6MHz									
3.8152	-6.8	V	3.0	40.6	1.0	-46.4	-13.0	-33.4	
5.7228	-9.6	V	3.0	40.8	1.0	-49.4	-13.0	-36.4	
7.6304	-7.8	V	3.0	40.7	1.0	-47.5	-13.0	-34.5	
3.8152	-3.6	H	3.0	40.6	1.0	-43.2	-13.0	-30.2	
5.7228	-9.9	H	3.0	40.8	1.0	-49.7	-13.0	-36.7	
7.6304	-7.7	H	3.0	40.7	1.0	-47.4	-13.0	-34.4	

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

LTE Band 17

LTE
Band 17
10MHz
QPSK

UL Korea, Ltd Suwon Laboratory
Above 1GHz High Frequency Substitution Measurement

Company: Samsung
Project #: 16K22923
Date: 02-24-16
Test Engineer: Steven Kim
Configuration: EUT / AC Adapter / Ear Phone / X-Position
Mode: TX, LTE BAND 17, 10MHz BW, QPSK

Chamber

Pre-amplifier

Filter

Limit

Chamber 2

AFS42

Filter 1

FCC Part 27

f GHz	SGreading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Channel (709MHz)									
1.4180	-24.7	V	3.0	39.0	1.0	-62.8	-13.0	-49.8	
2.1270	-20.6	V	3.0	39.3	1.0	-58.9	-13.0	-45.9	
2.8360	-18.0	V	3.0	39.7	1.0	-56.7	-13.0	-43.7	
1.4180	-24.2	H	3.0	39.0	1.0	-62.3	-13.0	-49.3	
2.1270	-15.3	H	3.0	39.3	1.0	-53.6	-13.0	-40.6	
2.8360	-12.5	H	3.0	39.7	1.0	-51.2	-13.0	-38.2	
Mid Channel (710MHz)									
1.4200	-23.7	V	3.0	39.0	1.0	-61.8	-13.0	-48.8	
2.1300	-22.5	V	3.0	39.3	1.0	-60.9	-13.0	-47.9	
2.8400	-16.8	V	3.0	39.7	1.0	-55.5	-13.0	-42.5	
1.4200	-17.0	H	3.0	39.0	1.0	-55.0	-13.0	-42.0	
2.1300	-18.2	H	3.0	39.3	1.0	-56.6	-13.0	-43.6	
2.8400	-13.4	H	3.0	39.7	1.0	-52.1	-13.0	-39.1	
High Channel (711MHz)									
1.4220	-22.8	V	3.0	39.0	1.0	-60.8	-13.0	-47.8	
2.1330	-20.0	V	3.0	39.3	1.0	-58.3	-13.0	-45.3	
2.8440	-15.8	V	3.0	39.7	1.0	-54.5	-13.0	-41.5	
1.4220	-18.1	H	3.0	39.0	1.0	-56.1	-13.0	-43.1	
2.1330	-19.8	H	3.0	39.3	1.0	-58.1	-13.0	-45.1	
2.8440	-9.7	H	3.0	39.7	1.0	-48.4	-13.0	-35.4	

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

LTE
Band 17
10MHz
16QAM

UL Korea, Ltd Suwon Laboratory
Above 1GHz High Frequency Substitution Measurement

Company: Samsung
Project #: 16K22923
Date: 02-24-16
Test Engineer: Steven Kim
Configuration: EUT / AC Adapter / Ear Phone / X-Position
Mode: TX, LTE BAND 17, 10MHz BW, 16QAM

Chamber

Pre-amplifier

Filter

Limit

Chamber 2

AFS42

Filter 1

FCC Part 27

f GHz	SGreading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Channel (709MHz)									
1.4180	-26.4	V	3.0	39.0	1.0	-64.4	-13.0	-51.4	
2.1270	-21.3	V	3.0	39.3	1.0	-59.6	-13.0	-46.6	
2.8360	-19.8	V	3.0	39.7	1.0	-58.5	-13.0	-45.5	
1.4180	-26.1	H	3.0	39.0	1.0	-64.1	-13.0	-51.1	
2.1270	-19.2	H	3.0	39.3	1.0	-57.5	-13.0	-44.5	
2.8360	-15.4	H	3.0	39.7	1.0	-54.1	-13.0	-41.1	
Mid Channel (710MHz)									
1.4200	-25.2	V	3.0	39.0	1.0	-63.2	-13.0	-50.2	
2.1300	-21.8	V	3.0	39.3	1.0	-60.1	-13.0	-47.1	
2.8400	-18.7	V	3.0	39.7	1.0	-57.5	-13.0	-44.5	
1.4200	-20.0	H	3.0	39.0	1.0	-58.0	-13.0	-45.0	
2.1300	-19.9	H	3.0	39.3	1.0	-58.3	-13.0	-45.3	
2.8400	-10.5	H	3.0	39.7	1.0	-49.2	-13.0	-36.2	
High Channel (711MHz)									
1.4220	-23.1	V	3.0	39.0	1.0	-61.1	-13.0	-48.1	
2.1330	-20.1	V	3.0	39.3	1.0	-58.5	-13.0	-45.5	
2.8440	-16.4	V	3.0	39.7	1.0	-55.1	-13.0	-42.1	
1.4220	-18.5	H	3.0	39.0	1.0	-56.5	-13.0	-43.5	
2.1330	-20.3	H	3.0	39.3	1.0	-58.6	-13.0	-45.6	
2.8440	-10.7	H	3.0	39.7	1.0	-49.4	-13.0	-36.4	

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

LTE Band 17 5MHz QPSK	UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement Company: Project #: Date: Test Engineer: Configuration: Mode: Samsung 16K22923 02-25-16 Steven Kim EUT / AC Adapter / Ear Phone / X-Position TX, LTE BAND 17, 5MHz BW, QPSK Chamber Chamber 2 Pre-amplifier AFS42 Filter Filter 1 Limit FCC Part 27 <table> <tr> <th>f GHz</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>ERP (dBm)</th><th>Limit (dBm)</th><th>Delta (dB)</th><th>Notes</th></tr> <tr><td colspan="10">Low Channel (706.5MHz)</td></tr> <tr><td>1.4130</td><td>-20.2</td><td>V</td><td>3.0</td><td>39.0</td><td>1.0</td><td>-58.2</td><td>-13.0</td><td>-45.2</td><td></td></tr> <tr><td>2.1195</td><td>-15.5</td><td>V</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-53.8</td><td>-13.0</td><td>-40.8</td><td></td></tr> <tr><td>2.8260</td><td>-14.5</td><td>V</td><td>3.0</td><td>39.7</td><td>1.0</td><td>-53.2</td><td>-13.0</td><td>-40.2</td><td></td></tr> <tr><td>1.4130</td><td>-22.6</td><td>H</td><td>3.0</td><td>39.0</td><td>1.0</td><td>-60.6</td><td>-13.0</td><td>-47.6</td><td></td></tr> <tr><td>2.1195</td><td>-18.2</td><td>H</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-56.5</td><td>-13.0</td><td>-43.5</td><td></td></tr> <tr><td>2.8260</td><td>-9.4</td><td>H</td><td>3.0</td><td>39.7</td><td>1.0</td><td>-48.1</td><td>-13.0</td><td>-35.1</td><td></td></tr> <tr><td colspan="10">Mid Channel (710MHz)</td></tr> <tr><td>1.4200</td><td>-21.7</td><td>V</td><td>3.0</td><td>39.0</td><td>1.0</td><td>-59.7</td><td>-13.0</td><td>-46.7</td><td></td></tr> <tr><td>2.1300</td><td>-17.7</td><td>V</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-56.0</td><td>-13.0</td><td>-43.0</td><td></td></tr> <tr><td>2.8400</td><td>-14.9</td><td>V</td><td>3.0</td><td>39.7</td><td>1.0</td><td>-53.6</td><td>-13.0</td><td>-40.6</td><td></td></tr> <tr><td>1.4200</td><td>-24.0</td><td>H</td><td>3.0</td><td>39.0</td><td>1.0</td><td>-62.0</td><td>-13.0</td><td>-49.0</td><td></td></tr> <tr><td>2.1300</td><td>-19.5</td><td>H</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-57.9</td><td>-13.0</td><td>-44.9</td><td></td></tr> <tr><td>2.8400</td><td>-11.1</td><td>H</td><td>3.0</td><td>39.7</td><td>1.0</td><td>-49.8</td><td>-13.0</td><td>-36.8</td><td></td></tr> <tr><td colspan="10">High Channel (713.5MHz)</td></tr> <tr><td>1.4270</td><td>-25.4</td><td>V</td><td>3.0</td><td>39.0</td><td>1.0</td><td>-63.4</td><td>-13.0</td><td>-50.4</td><td></td></tr> <tr><td>2.1405</td><td>-18.4</td><td>V</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-56.7</td><td>-13.0</td><td>-43.7</td><td></td></tr> <tr><td>2.8540</td><td>-13.7</td><td>V</td><td>3.0</td><td>39.7</td><td>1.0</td><td>-52.4</td><td>-13.0</td><td>-39.4</td><td></td></tr> <tr><td>1.4270</td><td>-27.4</td><td>H</td><td>3.0</td><td>39.0</td><td>1.0</td><td>-65.4</td><td>-13.0</td><td>-52.4</td><td></td></tr> <tr><td>2.1405</td><td>-19.1</td><td>H</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-57.4</td><td>-13.0</td><td>-44.4</td><td></td></tr> <tr><td>2.8540</td><td>-10.2</td><td>H</td><td>3.0</td><td>39.7</td><td>1.0</td><td>-48.9</td><td>-13.0</td><td>-35.9</td><td></td></tr> </table> Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes	Low Channel (706.5MHz)										1.4130	-20.2	V	3.0	39.0	1.0	-58.2	-13.0	-45.2		2.1195	-15.5	V	3.0	39.3	1.0	-53.8	-13.0	-40.8		2.8260	-14.5	V	3.0	39.7	1.0	-53.2	-13.0	-40.2		1.4130	-22.6	H	3.0	39.0	1.0	-60.6	-13.0	-47.6		2.1195	-18.2	H	3.0	39.3	1.0	-56.5	-13.0	-43.5		2.8260	-9.4	H	3.0	39.7	1.0	-48.1	-13.0	-35.1		Mid Channel (710MHz)										1.4200	-21.7	V	3.0	39.0	1.0	-59.7	-13.0	-46.7		2.1300	-17.7	V	3.0	39.3	1.0	-56.0	-13.0	-43.0		2.8400	-14.9	V	3.0	39.7	1.0	-53.6	-13.0	-40.6		1.4200	-24.0	H	3.0	39.0	1.0	-62.0	-13.0	-49.0		2.1300	-19.5	H	3.0	39.3	1.0	-57.9	-13.0	-44.9		2.8400	-11.1	H	3.0	39.7	1.0	-49.8	-13.0	-36.8		High Channel (713.5MHz)										1.4270	-25.4	V	3.0	39.0	1.0	-63.4	-13.0	-50.4		2.1405	-18.4	V	3.0	39.3	1.0	-56.7	-13.0	-43.7		2.8540	-13.7	V	3.0	39.7	1.0	-52.4	-13.0	-39.4		1.4270	-27.4	H	3.0	39.0	1.0	-65.4	-13.0	-52.4		2.1405	-19.1	H	3.0	39.3	1.0	-57.4	-13.0	-44.4		2.8540	-10.2	H	3.0	39.7	1.0	-48.9	-13.0	-35.9	
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LTE Band 17 5MHz 16QAM	UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement Company: Project #: Date: Test Engineer: Configuration: Mode: Samsung 16K22923 02-25-16 Steven Kim EUT / AC Adapter / Ear Phone / X-Position TX, LTE BAND 17, 5MHz BW, 16QAM Chamber Chamber 2 Pre-amplifier AFS42 Filter Filter 1 Limit FCC Part 27 <table> <tr> <th>f GHz</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>ERP (dBm)</th><th>Limit (dBm)</th><th>Delta (dB)</th><th>Notes</th></tr> <tr><td colspan="10">Low Channel (706.5MHz)</td></tr> <tr><td>1.4130</td><td>-21.1</td><td>V</td><td>3.0</td><td>39.0</td><td>1.0</td><td>-59.1</td><td>-13.0</td><td>-46.1</td><td></td></tr> <tr><td>2.1195</td><td>-17.9</td><td>V</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-56.2</td><td>-13.0</td><td>-43.2</td><td></td></tr> <tr><td>2.8260</td><td>-16.0</td><td>V</td><td>3.0</td><td>39.7</td><td>1.0</td><td>-54.7</td><td>-13.0</td><td>-41.7</td><td></td></tr> <tr><td>1.4130</td><td>-24.0</td><td>H</td><td>3.0</td><td>39.0</td><td>1.0</td><td>-62.0</td><td>-13.0</td><td>-49.0</td><td></td></tr> <tr><td>2.1195</td><td>-20.2</td><td>H</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-58.6</td><td>-13.0</td><td>-45.6</td><td></td></tr> <tr><td>2.8260</td><td>-11.6</td><td>H</td><td>3.0</td><td>39.7</td><td>1.0</td><td>-50.3</td><td>-13.0</td><td>-37.3</td><td></td></tr> <tr><td colspan="10">Mid Channel (710MHz)</td></tr> <tr><td>1.4200</td><td>-22.0</td><td>V</td><td>3.0</td><td>39.0</td><td>1.0</td><td>-60.0</td><td>-13.0</td><td>-47.0</td><td></td></tr> <tr><td>2.1300</td><td>-19.7</td><td>V</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-58.0</td><td>-13.0</td><td>-45.0</td><td></td></tr> <tr><td>2.8400</td><td>-16.1</td><td>V</td><td>3.0</td><td>39.7</td><td>1.0</td><td>-54.8</td><td>-13.0</td><td>-41.8</td><td></td></tr> <tr><td>1.4200</td><td>-23.5</td><td>H</td><td>3.0</td><td>39.0</td><td>1.0</td><td>-61.5</td><td>-13.0</td><td>-48.5</td><td></td></tr> <tr><td>2.1300</td><td>-20.8</td><td>H</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-59.1</td><td>-13.0</td><td>-46.1</td><td></td></tr> <tr><td>2.8400</td><td>-13.0</td><td>H</td><td>3.0</td><td>39.7</td><td>1.0</td><td>-51.7</td><td>-13.0</td><td>-38.7</td><td></td></tr> <tr><td colspan="10">High Channel (713.5MHz)</td></tr> <tr><td>1.4270</td><td>-25.4</td><td>V</td><td>3.0</td><td>39.0</td><td>1.0</td><td>-63.5</td><td>-13.0</td><td>-50.5</td><td></td></tr> <tr><td>2.1405</td><td>-18.6</td><td>V</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-56.9</td><td>-13.0</td><td>-43.9</td><td></td></tr> <tr><td>2.8540</td><td>-14.2</td><td>V</td><td>3.0</td><td>39.7</td><td>1.0</td><td>-53.0</td><td>-13.0</td><td>-40.0</td><td></td></tr> <tr><td>1.4270</td><td>-27.0</td><td>H</td><td>3.0</td><td>39.0</td><td>1.0</td><td>-65.0</td><td>-13.0</td><td>-52.0</td><td></td></tr> <tr><td>2.1405</td><td>-19.3</td><td>H</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-57.6</td><td>-13.0</td><td>-44.6</td><td></td></tr> <tr><td>2.8540</td><td>-10.9</td><td>H</td><td>3.0</td><td>39.7</td><td>1.0</td><td>-49.6</td><td>-13.0</td><td>-36.6</td><td></td></tr> </table> Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes	Low Channel (706.5MHz)										1.4130	-21.1	V	3.0	39.0	1.0	-59.1	-13.0	-46.1		2.1195	-17.9	V	3.0	39.3	1.0	-56.2	-13.0	-43.2		2.8260	-16.0	V	3.0	39.7	1.0	-54.7	-13.0	-41.7		1.4130	-24.0	H	3.0	39.0	1.0	-62.0	-13.0	-49.0		2.1195	-20.2	H	3.0	39.3	1.0	-58.6	-13.0	-45.6		2.8260	-11.6	H	3.0	39.7	1.0	-50.3	-13.0	-37.3		Mid Channel (710MHz)										1.4200	-22.0	V	3.0	39.0	1.0	-60.0	-13.0	-47.0		2.1300	-19.7	V	3.0	39.3	1.0	-58.0	-13.0	-45.0		2.8400	-16.1	V	3.0	39.7	1.0	-54.8	-13.0	-41.8		1.4200	-23.5	H	3.0	39.0	1.0	-61.5	-13.0	-48.5		2.1300	-20.8	H	3.0	39.3	1.0	-59.1	-13.0	-46.1		2.8400	-13.0	H	3.0	39.7	1.0	-51.7	-13.0	-38.7		High Channel (713.5MHz)										1.4270	-25.4	V	3.0	39.0	1.0	-63.5	-13.0	-50.5		2.1405	-18.6	V	3.0	39.3	1.0	-56.9	-13.0	-43.9		2.8540	-14.2	V	3.0	39.7	1.0	-53.0	-13.0	-40.0		1.4270	-27.0	H	3.0	39.0	1.0	-65.0	-13.0	-52.0		2.1405	-19.3	H	3.0	39.3	1.0	-57.6	-13.0	-44.6		2.8540	-10.9	H	3.0	39.7	1.0	-49.6	-13.0	-36.6	
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes																																																																																																																																																																																																																				
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2.8260	-11.6	H	3.0	39.7	1.0	-50.3	-13.0	-37.3																																																																																																																																																																																																																					
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1.4200	-23.5	H	3.0	39.0	1.0	-61.5	-13.0	-48.5																																																																																																																																																																																																																					
2.1300	-20.8	H	3.0	39.3	1.0	-59.1	-13.0	-46.1																																																																																																																																																																																																																					
2.8400	-13.0	H	3.0	39.7	1.0	-51.7	-13.0	-38.7																																																																																																																																																																																																																					
High Channel (713.5MHz)																																																																																																																																																																																																																													
1.4270	-25.4	V	3.0	39.0	1.0	-63.5	-13.0	-50.5																																																																																																																																																																																																																					
2.1405	-18.6	V	3.0	39.3	1.0	-56.9	-13.0	-43.9																																																																																																																																																																																																																					
2.8540	-14.2	V	3.0	39.7	1.0	-53.0	-13.0	-40.0																																																																																																																																																																																																																					
1.4270	-27.0	H	3.0	39.0	1.0	-65.0	-13.0	-52.0																																																																																																																																																																																																																					
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LTE Band 5

UL Korea, Ltd Suwon Laboratory
Above 1GHz High Frequency Substitution Measurement

Company: Samsung
Project #: 16K22923
Date: 02-27-16
Test Engineer: Steven.Kim
Configuration: EUT / AC Adapter / Earphone, X Position
Mode: TX, LTE BAND 5, 10MHz BW,QPSK

Chamber: Chamber 2
Pre-amplifier: AFS42
Filter: Filter 1
Limit: 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 Channel (829MHz)									
1.6580	-8.0	V	3.0	39.1	1.0	-46.1	-13.0	-33.1	
2.4870	-20.5	V	3.0	39.5	1.0	-59.0	-13.0	-46.0	
3.3160	-21.2	V	3.0	40.1	1.0	-60.3	-13.0	-47.3	
1.6580	-6.9	H	3.0	39.1	1.0	-45.0	-13.0	-32.0	
2.4870	-21.1	H	3.0	39.5	1.0	-59.6	-13.0	-46.6	
3.3160	-21.5	H	3.0	40.1	1.0	-60.6	-13.0	-47.6	
Mid Channel (836.5MHz)									
1.6730	-5.6	V	3.0	39.1	1.0	-43.7	-13.0	-30.7	
2.5090	-19.5	V	3.0	39.5	1.0	-58.0	-13.0	-45.0	
3.3460	-20.8	V	3.0	40.1	1.0	-59.9	-13.0	-46.9	
1.6730	-6.2	H	3.0	39.1	1.0	-44.3	-13.0	-31.3	
2.5090	-20.5	H	3.0	39.5	1.0	-59.0	-13.0	-46.0	
3.3460	-20.6	H	3.0	40.1	1.0	-59.7	-13.0	-46.7	
High Channel (844MHz)									
1.6880	-8.5	V	3.0	39.1	1.0	-46.6	-13.0	-33.6	
2.5320	-20.3	V	3.0	39.5	1.0	-58.9	-13.0	-45.9	
3.3760	-19.7	V	3.0	40.2	1.0	-58.9	-13.0	-45.9	
1.6880	-9.8	H	3.0	39.1	1.0	-47.9	-13.0	-34.9	
2.5320	-20.8	H	3.0	39.5	1.0	-59.4	-13.0	-46.4	
3.3760	-20.1	H	3.0	40.2	1.0	-59.3	-13.0	-46.3	

Rev. 03.03.09

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

UL Korea, Ltd Suwon Laboratory
Above 1GHz High Frequency Substitution Measurement

Company: Samsung
Project #: 16K22923
Date: 02-27-16
Test Engineer: Steven.Kim
Configuration: EUT / AC Adapter / Earphone, X Position
Mode: TX, LTE BAND 5, 10MHz BW,16QAM

Chamber: Chamber 2
Pre-amplifier: AFS42
Filter: Filter 1
Limit: 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 Channel (829MHz)									
1.6580	-10.1	V	3.0	39.1	1.0	-48.2	-13.0	-35.2	
2.4870	-21.1	V	3.0	39.5	1.0	-59.7	-13.0	-46.7	
3.3160	-21.2	V	3.0	40.1	1.0	-60.3	-13.0	-47.3	
1.6580	-7.9	H	3.0	39.1	1.0	-46.0	-13.0	-33.0	
2.4870	-20.7	H	3.0	39.5	1.0	-59.2	-13.0	-46.2	
3.3160	-21.6	H	3.0	40.1	1.0	-60.7	-13.0	-47.7	
Mid Channel (836.5MHz)									
1.6730	-6.0	V	3.0	39.1	1.0	-44.1	-13.0	-31.1	
2.5090	-19.8	V	3.0	39.5	1.0	-58.4	-13.0	-45.4	
3.3460	-20.4	V	3.0	40.1	1.0	-59.5	-13.0	-46.5	
1.6730	-6.9	H	3.0	39.1	1.0	-45.0	-13.0	-32.0	
2.5090	-21.1	H	3.0	39.5	1.0	-59.6	-13.0	-46.6	
3.3460	-21.0	H	3.0	40.1	1.0	-60.1	-13.0	-47.1	
High Channel (844MHz)									
1.6880	-9.4	V	3.0	39.1	1.0	-47.5	-13.0	-34.5	
2.5320	-20.5	V	3.0	39.5	1.0	-59.0	-13.0	-46.0	
3.3760	-19.7	V	3.0	40.2	1.0	-58.9	-13.0	-45.9	
1.6880	-10.8	H	3.0	39.1	1.0	-48.9	-13.0	-35.9	
2.5320	-19.7	H	3.0	39.5	1.0	-58.2	-13.0	-45.2	
3.3760	-20.6	H	3.0	40.2	1.0	-59.7	-13.0	-46.7	

Rev. 03.03.09

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

UL Korea, Ltd Suwon Laboratory
Above 1GHz High Frequency Substitution Measurement

Company: Samsung
Project #: 16K22923
Date: 02-27-16
Test Engineer: Steven.Kim
Configuration: EUT / AC Adapter / Earphone, X Position
Mode: TX, LTE BAND 5, 5MHz BW,QPSK

Chamber	Pre-amplifier	Filter	Limit
Chamber 2	AFS42	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 Channel (826.5MHz)									
1.6530	-8.1	V	3.0	39.1	1.0	-46.3	-13.0	-33.3	
2.4790	-20.6	V	3.0	39.5	1.0	-59.1	-13.0	-46.1	
3.3060	-21.4	V	3.0	40.1	1.0	-60.5	-13.0	-47.5	
1.6530	-7.0	H	3.0	39.1	1.0	-45.1	-13.0	-32.1	
2.4790	-21.4	H	3.0	39.5	1.0	-59.9	-13.0	-46.9	
3.3060	-21.4	H	3.0	40.1	1.0	-60.5	-13.0	-47.5	
Mid Channel (836.5MHz)									
1.6730	-5.2	V	3.0	39.1	1.0	-43.3	-13.0	-30.3	
2.5090	-19.4	V	3.0	39.5	1.0	-57.9	-13.0	-44.9	
3.3460	-20.5	V	3.0	40.1	1.0	-59.6	-13.0	-46.6	
1.6730	-5.9	H	3.0	39.1	1.0	-44.1	-13.0	-31.1	
2.5090	-20.7	H	3.0	39.5	1.0	-59.2	-13.0	-46.2	
3.3460	-20.6	H	3.0	40.1	1.0	-59.7	-13.0	-46.7	
High Channel (846.5MHz)									
1.6930	-8.5	V	3.0	39.1	1.0	-46.6	-13.0	-33.6	
2.5390	-20.3	V	3.0	39.6	1.0	-58.8	-13.0	-45.8	
3.3860	-19.5	V	3.0	40.2	1.0	-58.7	-13.0	-45.7	
1.6930	-9.7	H	3.0	39.1	1.0	-47.8	-13.0	-34.8	
2.5390	-20.5	H	3.0	39.6	1.0	-59.1	-13.0	-46.1	
3.3860	-20.3	H	3.0	40.2	1.0	-59.5	-13.0	-46.5	

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

UL Korea, Ltd Suwon Laboratory
Above 1GHz High Frequency Substitution Measurement

Company: Samsung
Project #: 16K22923
Date: 02-27-16
Test Engineer: Steven.Kim
Configuration: EUT / AC Adapter / Earphone, X Position
Mode: TX, LTE BAND 5, 5MHz BW,16QAM

Chamber	Pre-amplifier	Filter	Limit
Chamber 2	AFS42	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 Channel (826.5MHz)									
1.6530	-9.9	V	3.0	39.1	1.0	-48.0	-13.0	-35.0	
2.4790	-21.3	V	3.0	39.5	1.0	-59.8	-13.0	-46.8	
3.3060	-21.4	V	3.0	40.1	1.0	-60.5	-13.0	-47.5	
1.6530	-8.3	H	3.0	39.1	1.0	-46.4	-13.0	-33.4	
2.4790	-20.7	H	3.0	39.5	1.0	-59.3	-13.0	-46.3	
3.3060	-21.3	H	3.0	40.1	1.0	-60.4	-13.0	-47.4	
Mid Channel (836.5MHz)									
1.6730	-5.8	V	3.0	39.1	1.0	-43.9	-13.0	-30.9	
2.5090	-19.5	V	3.0	39.5	1.0	-58.1	-13.0	-45.1	
3.3460	-20.5	V	3.0	40.1	1.0	-59.7	-13.0	-46.7	
1.6730	-6.8	H	3.0	39.1	1.0	-44.9	-13.0	-31.9	
2.5090	-21.0	H	3.0	39.5	1.0	-59.5	-13.0	-46.5	
3.3460	-20.8	H	3.0	40.1	1.0	-59.9	-13.0	-46.9	
High Channel (846.5MHz)									
1.6930	-9.6	V	3.0	39.1	1.0	-47.7	-13.0	-34.7	
2.5390	-20.6	V	3.0	39.6	1.0	-59.1	-13.0	-46.1	
3.3860	-19.6	V	3.0	40.2	1.0	-58.8	-13.0	-45.8	
1.6930	-10.8	H	3.0	39.1	1.0	-49.0	-13.0	-36.0	
2.5390	-19.5	H	3.0	39.6	1.0	-58.0	-13.0	-45.0	
3.3860	-20.4	H	3.0	40.2	1.0	-59.6	-13.0	-46.6	

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

	UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement Company: Project #: Date: Test Engineer: Configuration: Mode: Samsung 16K22923 02-27-16 Steven.Kim EUT / AC Adapter / Earphone, X Position TX LTE BAND 5, 3MHz BW,QPSK Chamber Pre-amplifier Filter Limit Chamber 2 AFS42 Filter 1 Part 22 <table> <tr> <th>f GHz</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> <tr><td colspan="10">Low Channel (825.5MHz)</td></tr> <tr><td>1.6510</td><td>-8.3</td><td>V</td><td>3.0</td><td>39.1</td><td>1.0</td><td>-46.4</td><td>-13.0</td><td>-33.4</td><td></td></tr> <tr><td>2.4675</td><td>-20.9</td><td>V</td><td>3.0</td><td>39.5</td><td>1.0</td><td>-59.4</td><td>-13.0</td><td>-46.4</td><td></td></tr> <tr><td>3.3020</td><td>-21.5</td><td>V</td><td>3.0</td><td>40.1</td><td>1.0</td><td>-60.6</td><td>-13.0</td><td>-47.6</td><td></td></tr> <tr><td>1.6510</td><td>-7.1</td><td>H</td><td>3.0</td><td>39.1</td><td>1.0</td><td>-45.2</td><td>-13.0</td><td>-32.2</td><td></td></tr> <tr><td>2.4675</td><td>-21.6</td><td>H</td><td>3.0</td><td>39.5</td><td>1.0</td><td>-60.1</td><td>-13.0</td><td>-47.1</td><td></td></tr> <tr><td>3.3020</td><td>-21.7</td><td>H</td><td>3.0</td><td>40.1</td><td>1.0</td><td>-60.8</td><td>-13.0</td><td>-47.8</td><td></td></tr> <tr><td colspan="10">Mid Channel (836.5MHz)</td></tr> <tr><td>1.6730</td><td>-5.7</td><td>V</td><td>3.0</td><td>39.1</td><td>1.0</td><td>-43.8</td><td>-13.0</td><td>-30.8</td><td></td></tr> <tr><td>2.5090</td><td>-19.8</td><td>V</td><td>3.0</td><td>39.5</td><td>1.0</td><td>-58.3</td><td>-13.0</td><td>-45.3</td><td></td></tr> <tr><td>3.3460</td><td>-20.9</td><td>V</td><td>3.0</td><td>40.1</td><td>1.0</td><td>-60.0</td><td>-13.0</td><td>-47.0</td><td></td></tr> <tr><td>1.6730</td><td>-6.3</td><td>H</td><td>3.0</td><td>39.1</td><td>1.0</td><td>-44.5</td><td>-13.0</td><td>-31.5</td><td></td></tr> <tr><td>2.5090</td><td>-20.8</td><td>H</td><td>3.0</td><td>39.5</td><td>1.0</td><td>-59.3</td><td>-13.0</td><td>-46.3</td><td></td></tr> <tr><td>3.3460</td><td>-20.9</td><td>H</td><td>3.0</td><td>40.1</td><td>1.0</td><td>-60.0</td><td>-13.0</td><td>-47.0</td><td></td></tr> <tr><td colspan="10">High Channel (847.5MHz)</td></tr> <tr><td>1.6950</td><td>-8.6</td><td>V</td><td>3.0</td><td>39.1</td><td>1.0</td><td>-46.7</td><td>-13.0</td><td>-33.7</td><td></td></tr> <tr><td>2.5425</td><td>-20.8</td><td>V</td><td>3.0</td><td>39.6</td><td>1.0</td><td>-59.3</td><td>-13.0</td><td>-46.3</td><td></td></tr> <tr><td>3.3900</td><td>-20.0</td><td>V</td><td>3.0</td><td>40.2</td><td>1.0</td><td>-59.1</td><td>-13.0</td><td>-46.1</td><td></td></tr> <tr><td>1.6950</td><td>-9.8</td><td>H</td><td>3.0</td><td>39.1</td><td>1.0</td><td>-47.9</td><td>-13.0</td><td>-34.9</td><td></td></tr> <tr><td>2.5425</td><td>-20.9</td><td>H</td><td>3.0</td><td>39.6</td><td>1.0</td><td>-59.4</td><td>-13.0</td><td>-46.4</td><td></td></tr> <tr><td>3.3900</td><td>-20.4</td><td>H</td><td>3.0</td><td>40.2</td><td>1.0</td><td>-59.6</td><td>-13.0</td><td>-46.6</td><td></td></tr> </table> Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	Low Channel (825.5MHz)										1.6510	-8.3	V	3.0	39.1	1.0	-46.4	-13.0	-33.4		2.4675	-20.9	V	3.0	39.5	1.0	-59.4	-13.0	-46.4		3.3020	-21.5	V	3.0	40.1	1.0	-60.6	-13.0	-47.6		1.6510	-7.1	H	3.0	39.1	1.0	-45.2	-13.0	-32.2		2.4675	-21.6	H	3.0	39.5	1.0	-60.1	-13.0	-47.1		3.3020	-21.7	H	3.0	40.1	1.0	-60.8	-13.0	-47.8		Mid Channel (836.5MHz)										1.6730	-5.7	V	3.0	39.1	1.0	-43.8	-13.0	-30.8		2.5090	-19.8	V	3.0	39.5	1.0	-58.3	-13.0	-45.3		3.3460	-20.9	V	3.0	40.1	1.0	-60.0	-13.0	-47.0		1.6730	-6.3	H	3.0	39.1	1.0	-44.5	-13.0	-31.5		2.5090	-20.8	H	3.0	39.5	1.0	-59.3	-13.0	-46.3		3.3460	-20.9	H	3.0	40.1	1.0	-60.0	-13.0	-47.0		High Channel (847.5MHz)										1.6950	-8.6	V	3.0	39.1	1.0	-46.7	-13.0	-33.7		2.5425	-20.8	V	3.0	39.6	1.0	-59.3	-13.0	-46.3		3.3900	-20.0	V	3.0	40.2	1.0	-59.1	-13.0	-46.1		1.6950	-9.8	H	3.0	39.1	1.0	-47.9	-13.0	-34.9		2.5425	-20.9	H	3.0	39.6	1.0	-59.4	-13.0	-46.4		3.3900	-20.4	H	3.0	40.2	1.0	-59.6	-13.0	-46.6	
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LTE Band 5 1.4MHz QPSK	UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement Company: Samsung Project #: 16K22923 Date: 02-27-16 Test Engineer: Steven.Kim Configuration: EUT / AC Adapter / Earphone, X Position Mode: TX, LTE BAND 5, 1.4MHz BW, QPSK Chamber Chamber 2 Pre-amplifier AFS42 Filter Filter 1 Limit Part 22 <table> <tr> <th>f GHz</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> <tr><td colspan="10">Low Channel (824.7MHz)</td></tr> <tr><td>1.6494</td><td>-8.6</td><td>V</td><td>3.0</td><td>39.1</td><td>1.0</td><td>-46.7</td><td>-13.0</td><td>-33.7</td><td></td></tr> <tr><td>2.4741</td><td>-21.2</td><td>V</td><td>3.0</td><td>39.5</td><td>1.0</td><td>-59.7</td><td>-13.0</td><td>-46.7</td><td></td></tr> <tr><td>3.2988</td><td>-21.8</td><td>V</td><td>3.0</td><td>40.1</td><td>1.0</td><td>-60.9</td><td>-13.0</td><td>-47.9</td><td></td></tr> <tr><td>1.6494</td><td>-7.2</td><td>H</td><td>3.0</td><td>39.1</td><td>1.0</td><td>-45.3</td><td>-13.0</td><td>-32.3</td><td></td></tr> <tr><td>2.4741</td><td>-21.7</td><td>H</td><td>3.0</td><td>39.5</td><td>1.0</td><td>-60.2</td><td>-13.0</td><td>-47.2</td><td></td></tr> <tr><td>3.2988</td><td>-22.0</td><td>H</td><td>3.0</td><td>40.1</td><td>1.0</td><td>-61.1</td><td>-13.0</td><td>-48.1</td><td></td></tr> <tr><td colspan="10">Mid Channel (836.5MHz)</td></tr> <tr><td>1.6730</td><td>-5.9</td><td>V</td><td>3.0</td><td>39.1</td><td>1.0</td><td>-44.0</td><td>-13.0</td><td>-31.0</td><td></td></tr> <tr><td>2.5090</td><td>-19.9</td><td>V</td><td>3.0</td><td>39.5</td><td>1.0</td><td>-58.4</td><td>-13.0</td><td>-45.4</td><td></td></tr> <tr><td>3.3460</td><td>-21.0</td><td>V</td><td>3.0</td><td>40.1</td><td>1.0</td><td>-60.2</td><td>-13.0</td><td>-47.2</td><td></td></tr> <tr><td>1.6730</td><td>-6.5</td><td>H</td><td>3.0</td><td>39.1</td><td>1.0</td><td>-44.7</td><td>-13.0</td><td>-31.7</td><td></td></tr> <tr><td>2.5090</td><td>-21.2</td><td>H</td><td>3.0</td><td>39.5</td><td>1.0</td><td>-59.7</td><td>-13.0</td><td>-46.7</td><td></td></tr> <tr><td>3.3460</td><td>-21.4</td><td>H</td><td>3.0</td><td>40.1</td><td>1.0</td><td>-60.5</td><td>-13.0</td><td>-47.5</td><td></td></tr> <tr><td colspan="10">High Channel (848.3MHz)</td></tr> <tr><td>1.6966</td><td>-8.6</td><td>V</td><td>3.0</td><td>39.1</td><td>1.0</td><td>-46.8</td><td>-13.0</td><td>-33.8</td><td></td></tr> <tr><td>2.5449</td><td>-21.1</td><td>V</td><td>3.0</td><td>39.6</td><td>1.0</td><td>-59.6</td><td>-13.0</td><td>-46.6</td><td></td></tr> <tr><td>3.3932</td><td>-20.0</td><td>V</td><td>3.0</td><td>40.2</td><td>1.0</td><td>-59.2</td><td>-13.0</td><td>-46.2</td><td></td></tr> <tr><td>1.6966</td><td>-10.2</td><td>H</td><td>3.0</td><td>39.1</td><td>1.0</td><td>-48.4</td><td>-13.0</td><td>-35.4</td><td></td></tr> <tr><td>2.5449</td><td>-21.0</td><td>H</td><td>3.0</td><td>39.6</td><td>1.0</td><td>-59.6</td><td>-13.0</td><td>-46.6</td><td></td></tr> <tr><td>3.3932</td><td>-20.5</td><td>H</td><td>3.0</td><td>40.2</td><td>1.0</td><td>-59.7</td><td>-13.0</td><td>-46.7</td><td></td></tr> </table> Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	Low Channel (824.7MHz)										1.6494	-8.6	V	3.0	39.1	1.0	-46.7	-13.0	-33.7		2.4741	-21.2	V	3.0	39.5	1.0	-59.7	-13.0	-46.7		3.2988	-21.8	V	3.0	40.1	1.0	-60.9	-13.0	-47.9		1.6494	-7.2	H	3.0	39.1	1.0	-45.3	-13.0	-32.3		2.4741	-21.7	H	3.0	39.5	1.0	-60.2	-13.0	-47.2		3.2988	-22.0	H	3.0	40.1	1.0	-61.1	-13.0	-48.1		Mid Channel (836.5MHz)										1.6730	-5.9	V	3.0	39.1	1.0	-44.0	-13.0	-31.0		2.5090	-19.9	V	3.0	39.5	1.0	-58.4	-13.0	-45.4		3.3460	-21.0	V	3.0	40.1	1.0	-60.2	-13.0	-47.2		1.6730	-6.5	H	3.0	39.1	1.0	-44.7	-13.0	-31.7		2.5090	-21.2	H	3.0	39.5	1.0	-59.7	-13.0	-46.7		3.3460	-21.4	H	3.0	40.1	1.0	-60.5	-13.0	-47.5		High Channel (848.3MHz)										1.6966	-8.6	V	3.0	39.1	1.0	-46.8	-13.0	-33.8		2.5449	-21.1	V	3.0	39.6	1.0	-59.6	-13.0	-46.6		3.3932	-20.0	V	3.0	40.2	1.0	-59.2	-13.0	-46.2		1.6966	-10.2	H	3.0	39.1	1.0	-48.4	-13.0	-35.4		2.5449	-21.0	H	3.0	39.6	1.0	-59.6	-13.0	-46.6		3.3932	-20.5	H	3.0	40.2	1.0	-59.7	-13.0	-46.7	
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LTE Band 5 1.4MHz 16QAM	UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement Company: Samsung Project #: 16K22923 Date: 02-27-16 Test Engineer: Steven.Kim Configuration: EUT / AC Adapter / Earphone, X Position Mode: TX, LTE BAND 5, 1.4MHz BW, 16QAM Chamber Chamber 2 Pre-amplifier AFS42 Filter Filter 1 Limit Part 22 <table> <tr> <th>f GHz</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> <tr><td colspan="10">Low Channel (824.7MHz)</td></tr> <tr><td>1.6494</td><td>-10.6</td><td>V</td><td>3.0</td><td>39.1</td><td>1.0</td><td>-48.7</td><td>-13.0</td><td>-35.7</td><td></td></tr> <tr><td>2.4741</td><td>-21.9</td><td>V</td><td>3.0</td><td>39.5</td><td>1.0</td><td>-60.4</td><td>-13.0</td><td>-47.4</td><td></td></tr> <tr><td>3.2988</td><td>-21.9</td><td>V</td><td>3.0</td><td>40.1</td><td>1.0</td><td>-61.0</td><td>-13.0</td><td>-48.0</td><td></td></tr> <tr><td>1.6494</td><td>-8.8</td><td>H</td><td>3.0</td><td>39.1</td><td>1.0</td><td>-46.9</td><td>-13.0</td><td>-33.9</td><td></td></tr> <tr><td>2.4741</td><td>-21.4</td><td>H</td><td>3.0</td><td>39.5</td><td>1.0</td><td>-60.0</td><td>-13.0</td><td>-47.0</td><td></td></tr> <tr><td>3.2988</td><td>-22.0</td><td>H</td><td>3.0</td><td>40.1</td><td>1.0</td><td>-61.1</td><td>-13.0</td><td>-48.1</td><td></td></tr> <tr><td colspan="10">Mid Channel (836.5MHz)</td></tr> <tr><td>1.6730</td><td>-6.6</td><td>V</td><td>3.0</td><td>39.1</td><td>1.0</td><td>-44.7</td><td>-13.0</td><td>-31.7</td><td></td></tr> <tr><td>2.5090</td><td>-20.1</td><td>V</td><td>3.0</td><td>39.5</td><td>1.0</td><td>-58.6</td><td>-13.0</td><td>-45.6</td><td></td></tr> <tr><td>3.3460</td><td>-21.0</td><td>V</td><td>3.0</td><td>40.1</td><td>1.0</td><td>-60.1</td><td>-13.0</td><td>-47.1</td><td></td></tr> <tr><td>1.6730</td><td>-7.6</td><td>H</td><td>3.0</td><td>39.1</td><td>1.0</td><td>-45.7</td><td>-13.0</td><td>-32.7</td><td></td></tr> <tr><td>2.5090</td><td>-21.8</td><td>H</td><td>3.0</td><td>39.5</td><td>1.0</td><td>-60.3</td><td>-13.0</td><td>-47.3</td><td></td></tr> <tr><td>3.3460</td><td>-21.2</td><td>H</td><td>3.0</td><td>40.1</td><td>1.0</td><td>-60.3</td><td>-13.0</td><td>-47.3</td><td></td></tr> <tr><td colspan="10">High Channel (848.3MHz)</td></tr> <tr><td>1.6966</td><td>-9.9</td><td>V</td><td>3.0</td><td>39.1</td><td>1.0</td><td>-48.1</td><td>-13.0</td><td>-35.1</td><td></td></tr> <tr><td>2.5449</td><td>-20.8</td><td>V</td><td>3.0</td><td>39.6</td><td>1.0</td><td>-59.3</td><td>-13.0</td><td>-46.3</td><td></td></tr> <tr><td>3.3932</td><td>-20.3</td><td>V</td><td>3.0</td><td>40.2</td><td>1.0</td><td>-59.5</td><td>-13.0</td><td>-46.5</td><td></td></tr> <tr><td>1.6966</td><td>-11.0</td><td>H</td><td>3.0</td><td>39.1</td><td>1.0</td><td>-49.2</td><td>-13.0</td><td>-36.2</td><td></td></tr> <tr><td>2.5449</td><td>-20.1</td><td>H</td><td>3.0</td><td>39.6</td><td>1.0</td><td>-58.6</td><td>-13.0</td><td>-45.6</td><td></td></tr> <tr><td>3.3932</td><td>-20.8</td><td>H</td><td>3.0</td><td>40.2</td><td>1.0</td><td>-59.9</td><td>-13.0</td><td>-46.9</td><td></td></tr> </table> Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	Low Channel (824.7MHz)										1.6494	-10.6	V	3.0	39.1	1.0	-48.7	-13.0	-35.7		2.4741	-21.9	V	3.0	39.5	1.0	-60.4	-13.0	-47.4		3.2988	-21.9	V	3.0	40.1	1.0	-61.0	-13.0	-48.0		1.6494	-8.8	H	3.0	39.1	1.0	-46.9	-13.0	-33.9		2.4741	-21.4	H	3.0	39.5	1.0	-60.0	-13.0	-47.0		3.2988	-22.0	H	3.0	40.1	1.0	-61.1	-13.0	-48.1		Mid Channel (836.5MHz)										1.6730	-6.6	V	3.0	39.1	1.0	-44.7	-13.0	-31.7		2.5090	-20.1	V	3.0	39.5	1.0	-58.6	-13.0	-45.6		3.3460	-21.0	V	3.0	40.1	1.0	-60.1	-13.0	-47.1		1.6730	-7.6	H	3.0	39.1	1.0	-45.7	-13.0	-32.7		2.5090	-21.8	H	3.0	39.5	1.0	-60.3	-13.0	-47.3		3.3460	-21.2	H	3.0	40.1	1.0	-60.3	-13.0	-47.3		High Channel (848.3MHz)										1.6966	-9.9	V	3.0	39.1	1.0	-48.1	-13.0	-35.1		2.5449	-20.8	V	3.0	39.6	1.0	-59.3	-13.0	-46.3		3.3932	-20.3	V	3.0	40.2	1.0	-59.5	-13.0	-46.5		1.6966	-11.0	H	3.0	39.1	1.0	-49.2	-13.0	-36.2		2.5449	-20.1	H	3.0	39.6	1.0	-58.6	-13.0	-45.6		3.3932	-20.8	H	3.0	40.2	1.0	-59.9	-13.0	-46.9	
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LTE Band 4

LTE Band 4 20MHz QPSK	UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement Company: Samsung Project #: 16K22923 Date: 02-29-16 Test Engineer: Steven.Kim Configuration: EUT / AC Adapter / Ear Phone / X-Position Mode: TX, LTE BAND 4, 20MHz BW, QPSK Chamber Chamber 2 Pre-amplifier AFS42 Filter Filter 1 Limit FCC Part 27 <table><tr><th>f GHz</th><th>SGreading (dBm)</th><th>Ant. Pol. (H/V)</th><th>Distance (m)</th><th>Preamp (dB)</th><th>Filter (dB)</th><th>ERP (dBm)</th><th>Limit (dBm)</th><th>Delta (dB)</th><th>Notes</th></tr><tr><td colspan="10">Low Channel (1720MHz)</td></tr><tr><td>3.4400</td><td>-3.1</td><td>V</td><td>3.0</td><td>40.2</td><td>1.0</td><td>-42.3</td><td>-13.0</td><td>-29.3</td><td></td></tr><tr><td>5.1600</td><td>3.0</td><td>V</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-36.9</td><td>-13.0</td><td>-23.9</td><td></td></tr><tr><td>6.8800</td><td>-12.5</td><td>V</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-52.5</td><td>-13.0</td><td>-39.5</td><td></td></tr><tr><td>3.4400</td><td>0.7</td><td>H</td><td>3.0</td><td>40.2</td><td>1.0</td><td>-38.6</td><td>-13.0</td><td>-25.6</td><td></td></tr><tr><td>5.1600</td><td>6.5</td><td>H</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-33.4</td><td>-13.0</td><td>-20.4</td><td></td></tr><tr><td>6.8800</td><td>-12.7</td><td>H</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-52.6</td><td>-13.0</td><td>-39.6</td><td></td></tr><tr><td colspan="10">Mid Channel (1732.5MHz)</td></tr><tr><td>3.4650</td><td>-6.8</td><td>V</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-46.1</td><td>-13.0</td><td>-33.1</td><td></td></tr><tr><td>5.1975</td><td>-7.7</td><td>V</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-47.6</td><td>-13.0</td><td>-34.6</td><td></td></tr><tr><td>6.9300</td><td>-12.8</td><td>V</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-52.8</td><td>-13.0</td><td>-39.8</td><td></td></tr><tr><td>3.4650</td><td>-8.1</td><td>H</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-47.3</td><td>-13.0</td><td>-34.3</td><td></td></tr><tr><td>5.1975</td><td>-7.1</td><td>H</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-46.9</td><td>-13.0</td><td>-33.9</td><td></td></tr><tr><td>6.9300</td><td>-12.8</td><td>H</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-52.8</td><td>-13.0</td><td>-39.8</td><td></td></tr><tr><td colspan="10">High Channel (1745MHz)</td></tr><tr><td>3.4900</td><td>-8.8</td><td>V</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-48.1</td><td>-13.0</td><td>-35.1</td><td></td></tr><tr><td>5.2350</td><td>-1.1</td><td>V</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-41.0</td><td>-13.0</td><td>-28.0</td><td></td></tr><tr><td>6.9800</td><td>-12.3</td><td>V</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-52.3</td><td>-13.0</td><td>-39.3</td><td></td></tr><tr><td>3.4900</td><td>-6.8</td><td>H</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-46.1</td><td>-13.0</td><td>-33.1</td><td></td></tr><tr><td>5.2350</td><td>0.2</td><td>H</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-39.7</td><td>-13.0</td><td>-26.7</td><td></td></tr><tr><td>6.9800</td><td>-12.5</td><td>H</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-52.5</td><td>-13.0</td><td>-39.5</td><td></td></tr><tr><td colspan="10">Rev. 03.03.09</td></tr><tr><td colspan="10">Note: No other emissions were detected above the system noise floor.</td></tr></table>	f GHz	SGreading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes	Low Channel (1720MHz)										3.4400	-3.1	V	3.0	40.2	1.0	-42.3	-13.0	-29.3		5.1600	3.0	V	3.0	40.9	1.0	-36.9	-13.0	-23.9		6.8800	-12.5	V	3.0	41.0	1.0	-52.5	-13.0	-39.5		3.4400	0.7	H	3.0	40.2	1.0	-38.6	-13.0	-25.6		5.1600	6.5	H	3.0	40.9	1.0	-33.4	-13.0	-20.4		6.8800	-12.7	H	3.0	41.0	1.0	-52.6	-13.0	-39.6		Mid Channel (1732.5MHz)										3.4650	-6.8	V	3.0	40.3	1.0	-46.1	-13.0	-33.1		5.1975	-7.7	V	3.0	40.9	1.0	-47.6	-13.0	-34.6		6.9300	-12.8	V	3.0	41.0	1.0	-52.8	-13.0	-39.8		3.4650	-8.1	H	3.0	40.3	1.0	-47.3	-13.0	-34.3		5.1975	-7.1	H	3.0	40.9	1.0	-46.9	-13.0	-33.9		6.9300	-12.8	H	3.0	41.0	1.0	-52.8	-13.0	-39.8		High Channel (1745MHz)										3.4900	-8.8	V	3.0	40.3	1.0	-48.1	-13.0	-35.1		5.2350	-1.1	V	3.0	40.9	1.0	-41.0	-13.0	-28.0		6.9800	-12.3	V	3.0	41.0	1.0	-52.3	-13.0	-39.3		3.4900	-6.8	H	3.0	40.3	1.0	-46.1	-13.0	-33.1		5.2350	0.2	H	3.0	40.9	1.0	-39.7	-13.0	-26.7		6.9800	-12.5	H	3.0	41.0	1.0	-52.5	-13.0	-39.5		Rev. 03.03.09										Note: No other emissions were detected above the system noise floor.									
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LTE Band 4 15MHz QPSK	UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement Company: Samsung Project #: 16K22923 Date: 02-29-16 Test Engineer: Steven.Kim Configuration: EUT / AC Adapter / Ear Phone / X-Position Mode: TX LTE BAND 4, 15MHz BW,QPSK Chamber Pre-amplifier Filter Limit Chamber 2 AFS42 Filter 1 FCC Part 27 <table><tr><th>f GHz</th><th>SGreading (dBm)</th><th>Ant. Pol. (H/V)</th><th>Distance (m)</th><th>Preamp (dB)</th><th>Filter (dB)</th><th>ERP (dBm)</th><th>Limit (dBm)</th><th>Delta (dB)</th><th>Notes</th></tr><tr><td colspan="10">Low Channel (1717.5MHz)</td></tr><tr><td>3.4350</td><td>0.3</td><td>V</td><td>3.0</td><td>40.2</td><td>1.0</td><td>-39.0</td><td>-13.0</td><td>-26.0</td><td></td></tr><tr><td>5.1525</td><td>-10.4</td><td>V</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-50.3</td><td>-13.0</td><td>-37.3</td><td></td></tr><tr><td>6.8700</td><td>-12.8</td><td>V</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-52.8</td><td>-13.0</td><td>-39.8</td><td></td></tr><tr><td>3.4350</td><td>1.3</td><td>H</td><td>3.0</td><td>40.2</td><td>1.0</td><td>-37.9</td><td>-13.0</td><td>-24.9</td><td></td></tr><tr><td>5.1525</td><td>-9.9</td><td>H</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-49.8</td><td>-13.0</td><td>-36.8</td><td></td></tr><tr><td>6.8700</td><td>-12.7</td><td>H</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-52.7</td><td>-13.0</td><td>-39.7</td><td></td></tr><tr><td colspan="10">Mid Channel (1732.5MHz)</td></tr><tr><td>3.4650</td><td>-7.7</td><td>V</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-46.9</td><td>-13.0</td><td>-33.9</td><td></td></tr><tr><td>5.1975</td><td>-8.3</td><td>V</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-48.2</td><td>-13.0</td><td>-35.2</td><td></td></tr><tr><td>6.9300</td><td>-13.0</td><td>V</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-53.0</td><td>-13.0</td><td>-40.0</td><td></td></tr><tr><td>3.4650</td><td>-7.2</td><td>H</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-46.5</td><td>-13.0</td><td>-33.5</td><td></td></tr><tr><td>5.1975</td><td>-7.8</td><td>H</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-47.7</td><td>-13.0</td><td>-34.7</td><td></td></tr><tr><td>6.9300</td><td>-12.7</td><td>H</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-52.7</td><td>-13.0</td><td>-39.7</td><td></td></tr><tr><td colspan="10">High Channel (1747.5MHz)</td></tr><tr><td>3.4950</td><td>-10.9</td><td>V</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-50.2</td><td>-13.0</td><td>-37.2</td><td></td></tr><tr><td>5.2425</td><td>-10.4</td><td>V</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-50.3</td><td>-13.0</td><td>-37.3</td><td></td></tr><tr><td>6.9900</td><td>-13.1</td><td>V</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-53.1</td><td>-13.0</td><td>-40.1</td><td></td></tr><tr><td>3.4950</td><td>-8.3</td><td>H</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-47.6</td><td>-13.0</td><td>-34.6</td><td></td></tr><tr><td>5.2425</td><td>-9.0</td><td>H</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-48.8</td><td>-13.0</td><td>-35.8</td><td></td></tr><tr><td>6.9900</td><td>-12.9</td><td>H</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-52.9</td><td>-13.0</td><td>-39.9</td><td></td></tr></table> Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.	f GHz	SGreading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes	Low Channel (1717.5MHz)										3.4350	0.3	V	3.0	40.2	1.0	-39.0	-13.0	-26.0		5.1525	-10.4	V	3.0	40.9	1.0	-50.3	-13.0	-37.3		6.8700	-12.8	V	3.0	41.0	1.0	-52.8	-13.0	-39.8		3.4350	1.3	H	3.0	40.2	1.0	-37.9	-13.0	-24.9		5.1525	-9.9	H	3.0	40.9	1.0	-49.8	-13.0	-36.8		6.8700	-12.7	H	3.0	41.0	1.0	-52.7	-13.0	-39.7		Mid Channel (1732.5MHz)										3.4650	-7.7	V	3.0	40.3	1.0	-46.9	-13.0	-33.9		5.1975	-8.3	V	3.0	40.9	1.0	-48.2	-13.0	-35.2		6.9300	-13.0	V	3.0	41.0	1.0	-53.0	-13.0	-40.0		3.4650	-7.2	H	3.0	40.3	1.0	-46.5	-13.0	-33.5		5.1975	-7.8	H	3.0	40.9	1.0	-47.7	-13.0	-34.7		6.9300	-12.7	H	3.0	41.0	1.0	-52.7	-13.0	-39.7		High Channel (1747.5MHz)										3.4950	-10.9	V	3.0	40.3	1.0	-50.2	-13.0	-37.2		5.2425	-10.4	V	3.0	40.9	1.0	-50.3	-13.0	-37.3		6.9900	-13.1	V	3.0	41.0	1.0	-53.1	-13.0	-40.1		3.4950	-8.3	H	3.0	40.3	1.0	-47.6	-13.0	-34.6		5.2425	-9.0	H	3.0	40.9	1.0	-48.8	-13.0	-35.8		6.9900	-12.9	H	3.0	41.0	1.0	-52.9	-13.0	-39.9	
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LTE Band 4 15MHz 16QAM	UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement Company: Samsung Project #: 16K22923 Date: 02-29-16 Test Engineer: Steven.Kim Configuration: EUT / AC Adapter / Ear Phone / X-Position Mode: TX LTE BAND 4, 15MHz BW,16QAM Chamber Pre-amplifier Filter Limit Chamber 2 AFS42 Filter 1 FCC Part 27 <table><tr><th>f GHz</th><th>SGreading (dBm)</th><th>Ant. Pol. (H/V)</th><th>Distance (m)</th><th>Preamp (dB)</th><th>Filter (dB)</th><th>ERP (dBm)</th><th>Limit (dBm)</th><th>Delta (dB)</th><th>Notes</th></tr><tr><td colspan="10">Low Channel (1717.5MHz)</td></tr><tr><td>3.4350</td><td>-2.6</td><td>V</td><td>3.0</td><td>40.2</td><td>1.0</td><td>-41.8</td><td>-13.0</td><td>-28.8</td><td></td></tr><tr><td>5.1525</td><td>-12.2</td><td>V</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-52.1</td><td>-13.0</td><td>-39.1</td><td></td></tr><tr><td>6.8700</td><td>-12.9</td><td>V</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-52.9</td><td>-13.0</td><td>-39.9</td><td></td></tr><tr><td>3.4350</td><td>-1.4</td><td>H</td><td>3.0</td><td>40.2</td><td>1.0</td><td>-40.6</td><td>-13.0</td><td>-27.6</td><td></td></tr><tr><td>5.1525</td><td>-11.4</td><td>H</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-51.3</td><td>-13.0</td><td>-38.3</td><td></td></tr><tr><td>6.8700</td><td>-12.9</td><td>H</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-52.9</td><td>-13.0</td><td>-39.9</td><td></td></tr><tr><td colspan="10">Mid Channel (1732.5MHz)</td></tr><tr><td>3.4650</td><td>-8.0</td><td>V</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-47.2</td><td>-13.0</td><td>-34.2</td><td></td></tr><tr><td>5.1975</td><td>-10.4</td><td>V</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-50.3</td><td>-13.0</td><td>-37.3</td><td></td></tr><tr><td>6.9300</td><td>-13.1</td><td>V</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-53.1</td><td>-13.0</td><td>-40.1</td><td></td></tr><tr><td>3.4650</td><td>-6.4</td><td>H</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-45.7</td><td>-13.0</td><td>-32.7</td><td></td></tr><tr><td>5.1975</td><td>-8.8</td><td>H</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-48.7</td><td>-13.0</td><td>-35.7</td><td></td></tr><tr><td>6.9300</td><td>-12.8</td><td>H</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-52.8</td><td>-13.0</td><td>-39.8</td><td></td></tr><tr><td colspan="10">High Channel (1747.5MHz)</td></tr><tr><td>3.4950</td><td>-12.0</td><td>V</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-51.3</td><td>-13.0</td><td>-38.3</td><td></td></tr><tr><td>5.2425</td><td>-11.2</td><td>V</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-51.1</td><td>-13.0</td><td>-38.1</td><td></td></tr><tr><td>6.9900</td><td>-13.2</td><td>V</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-53.3</td><td>-13.0</td><td>-40.3</td><td></td></tr><tr><td>3.4950</td><td>-5.3</td><td>H</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-44.6</td><td>-13.0</td><td>-31.6</td><td></td></tr><tr><td>5.2425</td><td>-10.0</td><td>H</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-49.9</td><td>-13.0</td><td>-36.9</td><td></td></tr><tr><td>6.9900</td><td>-13.0</td><td>H</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-53.0</td><td>-13.0</td><td>-40.0</td><td></td></tr></table> Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.	f GHz	SGreading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes	Low Channel (1717.5MHz)										3.4350	-2.6	V	3.0	40.2	1.0	-41.8	-13.0	-28.8		5.1525	-12.2	V	3.0	40.9	1.0	-52.1	-13.0	-39.1		6.8700	-12.9	V	3.0	41.0	1.0	-52.9	-13.0	-39.9		3.4350	-1.4	H	3.0	40.2	1.0	-40.6	-13.0	-27.6		5.1525	-11.4	H	3.0	40.9	1.0	-51.3	-13.0	-38.3		6.8700	-12.9	H	3.0	41.0	1.0	-52.9	-13.0	-39.9		Mid Channel (1732.5MHz)										3.4650	-8.0	V	3.0	40.3	1.0	-47.2	-13.0	-34.2		5.1975	-10.4	V	3.0	40.9	1.0	-50.3	-13.0	-37.3		6.9300	-13.1	V	3.0	41.0	1.0	-53.1	-13.0	-40.1		3.4650	-6.4	H	3.0	40.3	1.0	-45.7	-13.0	-32.7		5.1975	-8.8	H	3.0	40.9	1.0	-48.7	-13.0	-35.7		6.9300	-12.8	H	3.0	41.0	1.0	-52.8	-13.0	-39.8		High Channel (1747.5MHz)										3.4950	-12.0	V	3.0	40.3	1.0	-51.3	-13.0	-38.3		5.2425	-11.2	V	3.0	40.9	1.0	-51.1	-13.0	-38.1		6.9900	-13.2	V	3.0	41.0	1.0	-53.3	-13.0	-40.3		3.4950	-5.3	H	3.0	40.3	1.0	-44.6	-13.0	-31.6		5.2425	-10.0	H	3.0	40.9	1.0	-49.9	-13.0	-36.9		6.9900	-13.0	H	3.0	41.0	1.0	-53.0	-13.0	-40.0	
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LTE Band 4 5MHz 16QAM	UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement Company: Samsung Project #: 16K22923 Date: 02-29-16 Test Engineer: Steven.Kim Configuration: EUT / AC Adapter / Ear Phone / X-Position Mode: TX, LTE BAND 7, 5MHz BW, 16QAM Chamber Pre-amplifier Filter Limit Chamber 2 AFS42 Filter 1 FCC Part 27 <table><tr><th>f GHz</th><th>SGreading (dBm)</th><th>Ant. Pol. (H/V)</th><th>Distance (m)</th><th>Preamp (dB)</th><th>Filter (dB)</th><th>ERP (dBm)</th><th>Limit (dBm)</th><th>Delta (dB)</th><th>Notes</th></tr><tr><td colspan="10">Low Channel (1712.5MHz)</td></tr><tr><td>3.4250</td><td>-11.1</td><td>V</td><td>3.0</td><td>40.2</td><td>1.0</td><td>-50.3</td><td>-13.0</td><td>-37.3</td><td></td></tr><tr><td>5.1375</td><td>-11.2</td><td>V</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-51.1</td><td>-13.0</td><td>-38.1</td><td></td></tr><tr><td>6.8500</td><td>-13.3</td><td>V</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-53.3</td><td>-13.0</td><td>-40.3</td><td></td></tr><tr><td>3.4250</td><td>-7.8</td><td>H</td><td>3.0</td><td>40.2</td><td>1.0</td><td>-47.0</td><td>-13.0</td><td>-34.0</td><td></td></tr><tr><td>5.1375</td><td>-9.5</td><td>H</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-49.3</td><td>-13.0</td><td>-36.3</td><td></td></tr><tr><td>6.8500</td><td>-13.2</td><td>H</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-53.2</td><td>-13.0</td><td>-40.2</td><td></td></tr><tr><td colspan="10">Mid Channel (1732.5MHz)</td></tr><tr><td>3.4650</td><td>-7.4</td><td>V</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-46.6</td><td>-13.0</td><td>-33.6</td><td></td></tr><tr><td>5.1975</td><td>-9.3</td><td>V</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-49.2</td><td>-13.0</td><td>-36.2</td><td></td></tr><tr><td>6.9300</td><td>-13.2</td><td>V</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-53.2</td><td>-13.0</td><td>-40.2</td><td></td></tr><tr><td>3.4650</td><td>-6.8</td><td>H</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-46.1</td><td>-13.0</td><td>-33.1</td><td></td></tr><tr><td>5.1975</td><td>-9.1</td><td>H</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-49.0</td><td>-13.0</td><td>-36.0</td><td></td></tr><tr><td>6.9300</td><td>-13.0</td><td>H</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-53.0</td><td>-13.0</td><td>-40.0</td><td></td></tr><tr><td colspan="10">High Channel (1752.5MHz)</td></tr><tr><td>3.5050</td><td>-9.8</td><td>V</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-49.0</td><td>-13.0</td><td>-36.0</td><td></td></tr><tr><td>5.2575</td><td>-4.3</td><td>V</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-44.1</td><td>-13.0</td><td>-31.1</td><td></td></tr><tr><td>7.0100</td><td>-12.9</td><td>V</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-52.9</td><td>-13.0</td><td>-39.9</td><td></td></tr><tr><td>3.5050</td><td>-4.2</td><td>H</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-43.5</td><td>-13.0</td><td>-30.5</td><td></td></tr><tr><td>5.2575</td><td>-0.7</td><td>H</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-40.6</td><td>-13.0</td><td>-27.6</td><td></td></tr><tr><td>7.0100</td><td>-12.5</td><td>H</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-52.5</td><td>-13.0</td><td>-39.5</td><td></td></tr></table> Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.	f GHz	SGreading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes	Low Channel (1712.5MHz)										3.4250	-11.1	V	3.0	40.2	1.0	-50.3	-13.0	-37.3		5.1375	-11.2	V	3.0	40.9	1.0	-51.1	-13.0	-38.1		6.8500	-13.3	V	3.0	41.0	1.0	-53.3	-13.0	-40.3		3.4250	-7.8	H	3.0	40.2	1.0	-47.0	-13.0	-34.0		5.1375	-9.5	H	3.0	40.9	1.0	-49.3	-13.0	-36.3		6.8500	-13.2	H	3.0	41.0	1.0	-53.2	-13.0	-40.2		Mid Channel (1732.5MHz)										3.4650	-7.4	V	3.0	40.3	1.0	-46.6	-13.0	-33.6		5.1975	-9.3	V	3.0	40.9	1.0	-49.2	-13.0	-36.2		6.9300	-13.2	V	3.0	41.0	1.0	-53.2	-13.0	-40.2		3.4650	-6.8	H	3.0	40.3	1.0	-46.1	-13.0	-33.1		5.1975	-9.1	H	3.0	40.9	1.0	-49.0	-13.0	-36.0		6.9300	-13.0	H	3.0	41.0	1.0	-53.0	-13.0	-40.0		High Channel (1752.5MHz)										3.5050	-9.8	V	3.0	40.3	1.0	-49.0	-13.0	-36.0		5.2575	-4.3	V	3.0	40.9	1.0	-44.1	-13.0	-31.1		7.0100	-12.9	V	3.0	41.0	1.0	-52.9	-13.0	-39.9		3.5050	-4.2	H	3.0	40.3	1.0	-43.5	-13.0	-30.5		5.2575	-0.7	H	3.0	40.9	1.0	-40.6	-13.0	-27.6		7.0100	-12.5	H	3.0	41.0	1.0	-52.5	-13.0	-39.5	
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	UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement Company: Samsung Project #: 16K22923 Date: 02-29-16 Test Engineer: Steven Kim Configuration: EUT / AC Adapter / Ear Phone / Z-Position Mode: TX, LTE BAND 4, 3MHz BW,QPSK Chamber Chamber 2 Pre-amplifier AFS42 Filter Filter 1 Limit FCC Part 27 <table><tr><th>f GHz</th><th>SGreading (dBm)</th><th>Ant. Pol. (H/V)</th><th>Distance (m)</th><th>Preamp (dB)</th><th>Filter (dB)</th><th>ERP (dBm)</th><th>Limit (dBm)</th><th>Delta (dB)</th><th>Notes</th></tr><tr><td colspan="10">Low Channel (1711.5MHz)</td></tr><tr><td>3.4230</td><td>-7.3</td><td>V</td><td>3.0</td><td>40.2</td><td>1.0</td><td>-46.5</td><td>-13.0</td><td>-33.5</td><td></td></tr><tr><td>5.1345</td><td>-6.6</td><td>V</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-46.5</td><td>-13.0</td><td>-33.5</td><td></td></tr><tr><td>6.8460</td><td>-13.3</td><td>V</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-53.2</td><td>-13.0</td><td>-40.2</td><td></td></tr><tr><td>3.4230</td><td>-3.3</td><td>H</td><td>3.0</td><td>40.2</td><td>1.0</td><td>-42.5</td><td>-13.0</td><td>-29.5</td><td></td></tr><tr><td>5.1345</td><td>-7.5</td><td>H</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-47.4</td><td>-13.0</td><td>-34.4</td><td></td></tr><tr><td>6.8460</td><td>-13.0</td><td>H</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-53.0</td><td>-13.0</td><td>-40.0</td><td></td></tr><tr><td colspan="10">Mid Channel (1732.5MHz)</td></tr><tr><td>3.4650</td><td>-7.7</td><td>V</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-46.9</td><td>-13.0</td><td>-33.9</td><td></td></tr><tr><td>5.1975</td><td>-7.8</td><td>V</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-47.7</td><td>-13.0</td><td>-34.7</td><td></td></tr><tr><td>6.9300</td><td>-12.7</td><td>V</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-52.7</td><td>-13.0</td><td>-39.7</td><td></td></tr><tr><td>3.4650</td><td>-8.2</td><td>H</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-47.5</td><td>-13.0</td><td>-34.5</td><td></td></tr><tr><td>5.1975</td><td>-7.1</td><td>H</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-47.0</td><td>-13.0</td><td>-34.0</td><td></td></tr><tr><td>6.9300</td><td>-12.9</td><td>H</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-52.9</td><td>-13.0</td><td>-39.9</td><td></td></tr><tr><td colspan="10">High Channel (1753.5MHz)</td></tr><tr><td>3.5070</td><td>-13.6</td><td>V</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-52.9</td><td>-13.0</td><td>-39.9</td><td></td></tr><tr><td>5.2605</td><td>-12.4</td><td>V</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-52.2</td><td>-13.0</td><td>-39.2</td><td></td></tr><tr><td>7.0140</td><td>-12.7</td><td>V</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-52.7</td><td>-13.0</td><td>-39.7</td><td></td></tr><tr><td>3.5070</td><td>-5.0</td><td>H</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-44.3</td><td>-13.0</td><td>-31.3</td><td></td></tr><tr><td>5.2605</td><td>-7.3</td><td>H</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-47.2</td><td>-13.0</td><td>-34.2</td><td></td></tr><tr><td>7.0140</td><td>-12.5</td><td>H</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-52.5</td><td>-13.0</td><td>-39.5</td><td></td></tr><tr><td colspan="10">Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.</td></tr></table>	f GHz	SGreading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes	Low Channel (1711.5MHz)										3.4230	-7.3	V	3.0	40.2	1.0	-46.5	-13.0	-33.5		5.1345	-6.6	V	3.0	40.9	1.0	-46.5	-13.0	-33.5		6.8460	-13.3	V	3.0	41.0	1.0	-53.2	-13.0	-40.2		3.4230	-3.3	H	3.0	40.2	1.0	-42.5	-13.0	-29.5		5.1345	-7.5	H	3.0	40.9	1.0	-47.4	-13.0	-34.4		6.8460	-13.0	H	3.0	41.0	1.0	-53.0	-13.0	-40.0		Mid Channel (1732.5MHz)										3.4650	-7.7	V	3.0	40.3	1.0	-46.9	-13.0	-33.9		5.1975	-7.8	V	3.0	40.9	1.0	-47.7	-13.0	-34.7		6.9300	-12.7	V	3.0	41.0	1.0	-52.7	-13.0	-39.7		3.4650	-8.2	H	3.0	40.3	1.0	-47.5	-13.0	-34.5		5.1975	-7.1	H	3.0	40.9	1.0	-47.0	-13.0	-34.0		6.9300	-12.9	H	3.0	41.0	1.0	-52.9	-13.0	-39.9		High Channel (1753.5MHz)										3.5070	-13.6	V	3.0	40.3	1.0	-52.9	-13.0	-39.9		5.2605	-12.4	V	3.0	40.9	1.0	-52.2	-13.0	-39.2		7.0140	-12.7	V	3.0	41.0	1.0	-52.7	-13.0	-39.7		3.5070	-5.0	H	3.0	40.3	1.0	-44.3	-13.0	-31.3		5.2605	-7.3	H	3.0	40.9	1.0	-47.2	-13.0	-34.2		7.0140	-12.5	H	3.0	41.0	1.0	-52.5	-13.0	-39.5		Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.									
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Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.																																																																																																																																																																																																																																							

LTE Band 4 1.4MHz QPSK	UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement Company: Samsung Project #: 16K22923 Date: 02-29-16 Test Engineer: Steven.Kim Configuration: EUT / AC Adapter / Ear Phone / Z-Position Mode: TX, LTE BAND 4, 1.4MHz BW, QPSK Chamber Chamber 2 Pre-amplifier AFS42 Filter Filter 1 Limit FCC Part 27 <table><tr><th>f GHz</th><th>SGreading (dBm)</th><th>Ant. Pol. (H/V)</th><th>Distance (m)</th><th>Preamp (dB)</th><th>Filter (dB)</th><th>ERP (dBm)</th><th>Limit (dBm)</th><th>Delta (dB)</th><th>Notes</th></tr><tr><td colspan="10">Low Channel (1710.7MHz)</td></tr><tr><td>3.4214</td><td>-7.9</td><td>V</td><td>3.0</td><td>40.2</td><td>1.0</td><td>-47.1</td><td>-13.0</td><td>-34.1</td><td></td></tr><tr><td>5.1321</td><td>-7.6</td><td>V</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-47.5</td><td>-13.0</td><td>-34.5</td><td></td></tr><tr><td>6.8428</td><td>-13.2</td><td>V</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-53.1</td><td>-13.0</td><td>-40.1</td><td></td></tr><tr><td>3.4214</td><td>-2.7</td><td>H</td><td>3.0</td><td>40.2</td><td>1.0</td><td>-41.9</td><td>-13.0</td><td>-28.9</td><td></td></tr><tr><td>5.1321</td><td>-5.7</td><td>H</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-45.6</td><td>-13.0</td><td>-32.6</td><td></td></tr><tr><td>6.8428</td><td>-13.0</td><td>H</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-53.0</td><td>-13.0</td><td>-40.0</td><td></td></tr><tr><td colspan="10">Mid Channel (1732.5MHz)</td></tr><tr><td>3.4650</td><td>-7.1</td><td>V</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-46.3</td><td>-13.0</td><td>-33.3</td><td></td></tr><tr><td>5.1975</td><td>-7.9</td><td>V</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-47.8</td><td>-13.0</td><td>-34.8</td><td></td></tr><tr><td>6.9300</td><td>-13.0</td><td>V</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-53.0</td><td>-13.0</td><td>-40.0</td><td></td></tr><tr><td>3.4650</td><td>-6.4</td><td>H</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-45.7</td><td>-13.0</td><td>-32.7</td><td></td></tr><tr><td>5.1975</td><td>-7.8</td><td>H</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-47.7</td><td>-13.0</td><td>-34.7</td><td></td></tr><tr><td>6.9300</td><td>-12.8</td><td>H</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-52.8</td><td>-13.0</td><td>-39.8</td><td></td></tr><tr><td colspan="10">High Channel (1754.3MHz)</td></tr><tr><td>3.5086</td><td>-9.8</td><td>V</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-49.1</td><td>-13.0</td><td>-36.1</td><td></td></tr><tr><td>5.2629</td><td>-8.6</td><td>V</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-48.5</td><td>-13.0</td><td>-35.5</td><td></td></tr><tr><td>7.0172</td><td>-12.8</td><td>V</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-52.8</td><td>-13.0</td><td>-39.8</td><td></td></tr><tr><td>3.5086</td><td>-7.9</td><td>H</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-47.2</td><td>-13.0</td><td>-34.2</td><td></td></tr><tr><td>5.2629</td><td>-6.3</td><td>H</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-46.2</td><td>-13.0</td><td>-33.2</td><td></td></tr><tr><td>7.0172</td><td>-12.5</td><td>H</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-52.5</td><td>-13.0</td><td>-39.5</td><td></td></tr></table> Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.	f GHz	SGreading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes	Low Channel (1710.7MHz)										3.4214	-7.9	V	3.0	40.2	1.0	-47.1	-13.0	-34.1		5.1321	-7.6	V	3.0	40.9	1.0	-47.5	-13.0	-34.5		6.8428	-13.2	V	3.0	41.0	1.0	-53.1	-13.0	-40.1		3.4214	-2.7	H	3.0	40.2	1.0	-41.9	-13.0	-28.9		5.1321	-5.7	H	3.0	40.9	1.0	-45.6	-13.0	-32.6		6.8428	-13.0	H	3.0	41.0	1.0	-53.0	-13.0	-40.0		Mid Channel (1732.5MHz)										3.4650	-7.1	V	3.0	40.3	1.0	-46.3	-13.0	-33.3		5.1975	-7.9	V	3.0	40.9	1.0	-47.8	-13.0	-34.8		6.9300	-13.0	V	3.0	41.0	1.0	-53.0	-13.0	-40.0		3.4650	-6.4	H	3.0	40.3	1.0	-45.7	-13.0	-32.7		5.1975	-7.8	H	3.0	40.9	1.0	-47.7	-13.0	-34.7		6.9300	-12.8	H	3.0	41.0	1.0	-52.8	-13.0	-39.8		High Channel (1754.3MHz)										3.5086	-9.8	V	3.0	40.3	1.0	-49.1	-13.0	-36.1		5.2629	-8.6	V	3.0	40.9	1.0	-48.5	-13.0	-35.5		7.0172	-12.8	V	3.0	41.0	1.0	-52.8	-13.0	-39.8		3.5086	-7.9	H	3.0	40.3	1.0	-47.2	-13.0	-34.2		5.2629	-6.3	H	3.0	40.9	1.0	-46.2	-13.0	-33.2		7.0172	-12.5	H	3.0	41.0	1.0	-52.5	-13.0	-39.5	
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LTE Band 4 1.4MHz 16QAM	UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement Company: Samsung Project #: 16K22923 Date: 02-29-16 Test Engineer: Steven.Kim Configuration: EUT / AC Adapter / Ear Phone / Z-Position Mode: TX, LTE BAND 4, 1.4MHz BW, 16QAM Chamber Chamber 2 Pre-amplifier AFS42 Filter Filter 1 Limit FCC Part 27 <table><tr><th>f GHz</th><th>SGreading (dBm)</th><th>Ant. Pol. (H/V)</th><th>Distance (m)</th><th>Preamp (dB)</th><th>Filter (dB)</th><th>ERP (dBm)</th><th>Limit (dBm)</th><th>Delta (dB)</th><th>Notes</th></tr><tr><td colspan="10">Low Channel (1710.7MHz)</td></tr><tr><td>3.4214</td><td>-11.2</td><td>V</td><td>3.0</td><td>40.2</td><td>1.0</td><td>-50.4</td><td>-13.0</td><td>-37.4</td><td></td></tr><tr><td>5.1321</td><td>-9.5</td><td>V</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-49.4</td><td>-13.0</td><td>-36.4</td><td></td></tr><tr><td>6.8428</td><td>-13.1</td><td>V</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-53.1</td><td>-13.0</td><td>-40.1</td><td></td></tr><tr><td>3.4214</td><td>-8.2</td><td>H</td><td>3.0</td><td>40.2</td><td>1.0</td><td>-47.4</td><td>-13.0</td><td>-34.4</td><td></td></tr><tr><td>5.1321</td><td>-8.0</td><td>H</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-47.9</td><td>-13.0</td><td>-34.9</td><td></td></tr><tr><td>6.8428</td><td>-13.1</td><td>H</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-53.0</td><td>-13.0</td><td>-40.0</td><td></td></tr><tr><td colspan="10">Mid Channel (1732.5MHz)</td></tr><tr><td>3.4650</td><td>-7.2</td><td>V</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-46.4</td><td>-13.0</td><td>-33.4</td><td></td></tr><tr><td>5.1975</td><td>-9.8</td><td>V</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-49.7</td><td>-13.0</td><td>-36.7</td><td></td></tr><tr><td>6.9300</td><td>-12.9</td><td>V</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-52.9</td><td>-13.0</td><td>-39.9</td><td></td></tr><tr><td>3.4650</td><td>-6.7</td><td>H</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-45.9</td><td>-13.0</td><td>-32.9</td><td></td></tr><tr><td>5.1975</td><td>-9.6</td><td>H</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-49.5</td><td>-13.0</td><td>-36.5</td><td></td></tr><tr><td>6.9300</td><td>-12.8</td><td>H</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-52.8</td><td>-13.0</td><td>-39.8</td><td></td></tr><tr><td colspan="10">High Channel (1754.3MHz)</td></tr><tr><td>3.5086</td><td>-11.6</td><td>V</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-50.9</td><td>-13.0</td><td>-37.9</td><td></td></tr><tr><td>5.2629</td><td>-10.9</td><td>V</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-50.8</td><td>-13.0</td><td>-37.8</td><td></td></tr><tr><td>7.0172</td><td>-12.8</td><td>V</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-52.8</td><td>-13.0</td><td>-39.8</td><td></td></tr><tr><td>3.5086</td><td>-10.6</td><td>H</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-49.9</td><td>-13.0</td><td>-36.9</td><td></td></tr><tr><td>5.2629</td><td>-8.6</td><td>H</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-48.4</td><td>-13.0</td><td>-35.4</td><td></td></tr><tr><td>7.0172</td><td>-14.5</td><td>H</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-54.5</td><td>-13.0</td><td>-41.5</td><td></td></tr></table> Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.	f GHz	SGreading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes	Low Channel (1710.7MHz)										3.4214	-11.2	V	3.0	40.2	1.0	-50.4	-13.0	-37.4		5.1321	-9.5	V	3.0	40.9	1.0	-49.4	-13.0	-36.4		6.8428	-13.1	V	3.0	41.0	1.0	-53.1	-13.0	-40.1		3.4214	-8.2	H	3.0	40.2	1.0	-47.4	-13.0	-34.4		5.1321	-8.0	H	3.0	40.9	1.0	-47.9	-13.0	-34.9		6.8428	-13.1	H	3.0	41.0	1.0	-53.0	-13.0	-40.0		Mid Channel (1732.5MHz)										3.4650	-7.2	V	3.0	40.3	1.0	-46.4	-13.0	-33.4		5.1975	-9.8	V	3.0	40.9	1.0	-49.7	-13.0	-36.7		6.9300	-12.9	V	3.0	41.0	1.0	-52.9	-13.0	-39.9		3.4650	-6.7	H	3.0	40.3	1.0	-45.9	-13.0	-32.9		5.1975	-9.6	H	3.0	40.9	1.0	-49.5	-13.0	-36.5		6.9300	-12.8	H	3.0	41.0	1.0	-52.8	-13.0	-39.8		High Channel (1754.3MHz)										3.5086	-11.6	V	3.0	40.3	1.0	-50.9	-13.0	-37.9		5.2629	-10.9	V	3.0	40.9	1.0	-50.8	-13.0	-37.8		7.0172	-12.8	V	3.0	41.0	1.0	-52.8	-13.0	-39.8		3.5086	-10.6	H	3.0	40.3	1.0	-49.9	-13.0	-36.9		5.2629	-8.6	H	3.0	40.9	1.0	-48.4	-13.0	-35.4		7.0172	-14.5	H	3.0	41.0	1.0	-54.5	-13.0	-41.5	
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LTE Band 2 15MHz QPSK	UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement Company: Samsung Project #: 16K22923 Date: 02-26-16 Test Engineer: Steven Kim Configuration: EUT / AC Adapter / Ear Phone / X-Position Mode: TX LTE BAND 2, 15MHz BW, QPSK Chamber Chamber 2 Pre-amplifier AFS42 Filter Filter 1 Limit FCC Part 24 <table><tr><th>f GHz</th><th>SGreading (dBm)</th><th>Ant. Pol. (H/V)</th><th>Distance (m)</th><th>Preamp (dB)</th><th>Filter (dB)</th><th>ERP (dBm)</th><th>Limit (dBm)</th><th>Delta (dB)</th><th>Notes</th></tr><tr><td colspan="10">Low Channel (1857.5MHz)</td></tr><tr><td>3.7150</td><td>-9.0</td><td>V</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-48.5</td><td>-13.0</td><td>-35.5</td><td></td></tr><tr><td>5.5725</td><td>-14.5</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-54.4</td><td>-13.0</td><td>-41.4</td><td></td></tr><tr><td>7.4300</td><td>-14.4</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-54.2</td><td>-13.0</td><td>-41.2</td><td></td></tr><tr><td>3.7150</td><td>-7.2</td><td>H</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-46.7</td><td>-13.0</td><td>-33.7</td><td></td></tr><tr><td>5.5725</td><td>-11.7</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-51.5</td><td>-13.0</td><td>-38.5</td><td></td></tr><tr><td>7.4300</td><td>-14.1</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-53.9</td><td>-13.0</td><td>-40.9</td><td></td></tr><tr><td colspan="10">Mid Channel (1880MHz)</td></tr><tr><td>3.7600</td><td>-7.1</td><td>V</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-46.6</td><td>-13.0</td><td>-33.6</td><td></td></tr><tr><td>5.6400</td><td>-13.8</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-53.6</td><td>-13.0</td><td>-40.6</td><td></td></tr><tr><td>7.5200</td><td>-14.3</td><td>V</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-54.0</td><td>-13.0</td><td>-41.0</td><td></td></tr><tr><td>3.7600</td><td>-7.2</td><td>H</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-46.7</td><td>-13.0</td><td>-33.7</td><td></td></tr><tr><td>5.6400</td><td>-11.0</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-50.8</td><td>-13.0</td><td>-37.8</td><td></td></tr><tr><td>7.5200</td><td>-13.9</td><td>H</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-53.6</td><td>-13.0</td><td>-40.6</td><td></td></tr><tr><td colspan="10">High Channel (1902.5MHz)</td></tr><tr><td>3.8050</td><td>-5.1</td><td>V</td><td>3.0</td><td>40.6</td><td>1.0</td><td>-44.7</td><td>-13.0</td><td>-31.7</td><td></td></tr><tr><td>5.7075</td><td>-12.7</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-52.5</td><td>-13.0</td><td>-39.5</td><td></td></tr><tr><td>7.6100</td><td>-13.8</td><td>V</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-53.5</td><td>-13.0</td><td>-40.5</td><td></td></tr><tr><td>3.8050</td><td>-4.2</td><td>H</td><td>3.0</td><td>40.6</td><td>1.0</td><td>-43.8</td><td>-13.0</td><td>-30.8</td><td></td></tr><tr><td>5.7075</td><td>-7.7</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-47.5</td><td>-13.0</td><td>-34.5</td><td></td></tr><tr><td>7.6100</td><td>-14.0</td><td>H</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-53.6</td><td>-13.0</td><td>-40.6</td><td></td></tr><tr><td colspan="10">Rev. 03.03.09</td></tr><tr><td colspan="10">Note: No other emissions were detected above the system noise floor.</td></tr></table>	f GHz	SGreading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes	Low Channel (1857.5MHz)										3.7150	-9.0	V	3.0	40.5	1.0	-48.5	-13.0	-35.5		5.5725	-14.5	V	3.0	40.8	1.0	-54.4	-13.0	-41.4		7.4300	-14.4	V	3.0	40.8	1.0	-54.2	-13.0	-41.2		3.7150	-7.2	H	3.0	40.5	1.0	-46.7	-13.0	-33.7		5.5725	-11.7	H	3.0	40.8	1.0	-51.5	-13.0	-38.5		7.4300	-14.1	H	3.0	40.8	1.0	-53.9	-13.0	-40.9		Mid Channel (1880MHz)										3.7600	-7.1	V	3.0	40.5	1.0	-46.6	-13.0	-33.6		5.6400	-13.8	V	3.0	40.8	1.0	-53.6	-13.0	-40.6		7.5200	-14.3	V	3.0	40.7	1.0	-54.0	-13.0	-41.0		3.7600	-7.2	H	3.0	40.5	1.0	-46.7	-13.0	-33.7		5.6400	-11.0	H	3.0	40.8	1.0	-50.8	-13.0	-37.8		7.5200	-13.9	H	3.0	40.7	1.0	-53.6	-13.0	-40.6		High Channel (1902.5MHz)										3.8050	-5.1	V	3.0	40.6	1.0	-44.7	-13.0	-31.7		5.7075	-12.7	V	3.0	40.8	1.0	-52.5	-13.0	-39.5		7.6100	-13.8	V	3.0	40.7	1.0	-53.5	-13.0	-40.5		3.8050	-4.2	H	3.0	40.6	1.0	-43.8	-13.0	-30.8		5.7075	-7.7	H	3.0	40.8	1.0	-47.5	-13.0	-34.5		7.6100	-14.0	H	3.0	40.7	1.0	-53.6	-13.0	-40.6		Rev. 03.03.09										Note: No other emissions were detected above the system noise floor.									
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LTE Band 2 15MHz 16QAM	UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement Company: Samsung Project #: 16K22923 Date: 02-26-16 Test Engineer: Steven Kim Configuration: EUT / AC Adapter / Ear Phone / X-Position Mode: TX LTE BAND 2, 15MHz BW, 16QAM Chamber Chamber 2 Pre-amplifier AFS42 Filter Filter 1 Limit FCC Part 24 <table><tr><th>f GHz</th><th>SGreading (dBm)</th><th>Ant. Pol. (H/V)</th><th>Distance (m)</th><th>Preamp (dB)</th><th>Filter (dB)</th><th>ERP (dBm)</th><th>Limit (dBm)</th><th>Delta (dB)</th><th>Notes</th></tr><tr><td colspan="10">Low Channel (1857.5MHz)</td></tr><tr><td>3.7150</td><td>-7.9</td><td>V</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-47.4</td><td>-13.0</td><td>-34.4</td><td></td></tr><tr><td>5.5725</td><td>-14.0</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-53.8</td><td>-13.0</td><td>-40.8</td><td></td></tr><tr><td>7.4300</td><td>-14.4</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-54.2</td><td>-13.0</td><td>-41.2</td><td></td></tr><tr><td>3.7150</td><td>-6.5</td><td>H</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-46.0</td><td>-13.0</td><td>-33.0</td><td></td></tr><tr><td>5.5725</td><td>-10.5</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-50.3</td><td>-13.0</td><td>-37.3</td><td></td></tr><tr><td>7.4300</td><td>-14.1</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-53.9</td><td>-13.0</td><td>-40.9</td><td></td></tr><tr><td colspan="10">Mid Channel (1880MHz)</td></tr><tr><td>3.7600</td><td>-7.1</td><td>V</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-46.6</td><td>-13.0</td><td>-33.6</td><td></td></tr><tr><td>5.6400</td><td>-13.1</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-52.9</td><td>-13.0</td><td>-39.9</td><td></td></tr><tr><td>7.5200</td><td>-14.1</td><td>V</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-53.8</td><td>-13.0</td><td>-40.8</td><td></td></tr><tr><td>3.7600</td><td>-5.3</td><td>H</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-44.8</td><td>-13.0</td><td>-31.8</td><td></td></tr><tr><td>5.6400</td><td>-9.3</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-49.1</td><td>-13.0</td><td>-36.1</td><td></td></tr><tr><td>7.5200</td><td>-14.0</td><td>H</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-53.7</td><td>-13.0</td><td>-40.7</td><td></td></tr><tr><td colspan="10">High Channel (1902.5MHz)</td></tr><tr><td>3.8050</td><td>-6.1</td><td>V</td><td>3.0</td><td>40.6</td><td>1.0</td><td>-45.7</td><td>-13.0</td><td>-32.7</td><td></td></tr><tr><td>5.7075</td><td>-11.7</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-51.5</td><td>-13.0</td><td>-38.5</td><td></td></tr><tr><td>7.6100</td><td>-14.1</td><td>V</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-53.7</td><td>-13.0</td><td>-40.7</td><td></td></tr><tr><td>3.8050</td><td>-1.8</td><td>H</td><td>3.0</td><td>40.6</td><td>1.0</td><td>-41.4</td><td>-13.0</td><td>-28.4</td><td></td></tr><tr><td>5.7075</td><td>-6.9</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-46.7</td><td>-13.0</td><td>-33.7</td><td></td></tr><tr><td>7.6100</td><td>-13.9</td><td>H</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-53.5</td><td>-13.0</td><td>-40.5</td><td></td></tr><tr><td colspan="10">Rev. 03.03.09</td></tr><tr><td colspan="10">Note: No other emissions were detected above the system noise floor.</td></tr></table>	f GHz	SGreading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes	Low Channel (1857.5MHz)										3.7150	-7.9	V	3.0	40.5	1.0	-47.4	-13.0	-34.4		5.5725	-14.0	V	3.0	40.8	1.0	-53.8	-13.0	-40.8		7.4300	-14.4	V	3.0	40.8	1.0	-54.2	-13.0	-41.2		3.7150	-6.5	H	3.0	40.5	1.0	-46.0	-13.0	-33.0		5.5725	-10.5	H	3.0	40.8	1.0	-50.3	-13.0	-37.3		7.4300	-14.1	H	3.0	40.8	1.0	-53.9	-13.0	-40.9		Mid Channel (1880MHz)										3.7600	-7.1	V	3.0	40.5	1.0	-46.6	-13.0	-33.6		5.6400	-13.1	V	3.0	40.8	1.0	-52.9	-13.0	-39.9		7.5200	-14.1	V	3.0	40.7	1.0	-53.8	-13.0	-40.8		3.7600	-5.3	H	3.0	40.5	1.0	-44.8	-13.0	-31.8		5.6400	-9.3	H	3.0	40.8	1.0	-49.1	-13.0	-36.1		7.5200	-14.0	H	3.0	40.7	1.0	-53.7	-13.0	-40.7		High Channel (1902.5MHz)										3.8050	-6.1	V	3.0	40.6	1.0	-45.7	-13.0	-32.7		5.7075	-11.7	V	3.0	40.8	1.0	-51.5	-13.0	-38.5		7.6100	-14.1	V	3.0	40.7	1.0	-53.7	-13.0	-40.7		3.8050	-1.8	H	3.0	40.6	1.0	-41.4	-13.0	-28.4		5.7075	-6.9	H	3.0	40.8	1.0	-46.7	-13.0	-33.7		7.6100	-13.9	H	3.0	40.7	1.0	-53.5	-13.0	-40.5		Rev. 03.03.09										Note: No other emissions were detected above the system noise floor.									
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5.7075	-6.9	H	3.0	40.8	1.0	-46.7	-13.0	-33.7																																																																																																																																																																																																																																									
7.6100	-13.9	H	3.0	40.7	1.0	-53.5	-13.0	-40.5																																																																																																																																																																																																																																									
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LTE Band 2 10MHz QPSK	UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement Company: Samsung Project #: 16K22923 Date: 02-27-16 Test Engineer: Steven Kim Configuration: EUT / AC Adapter / Ear Phone / X-Position Mode: TX LTE BAND 2, 10MHz BW,QPSK Chamber Pre-amplifier Filter Limit Chamber 2 AFS42 Filter 1 FCC Part 24 <table><tr><th>f GHz</th><th>SGreading (dBm)</th><th>Ant. Pol. (H/V)</th><th>Distance (m)</th><th>Preamp (dB)</th><th>Filter (dB)</th><th>ERP (dBm)</th><th>Limit (dBm)</th><th>Delta (dB)</th><th>Notes</th></tr><tr><td colspan="10">Low Channel (1855MHz)</td></tr><tr><td>3.7100</td><td>-7.6</td><td>V</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-47.1</td><td>-13.0</td><td>-34.1</td><td></td></tr><tr><td>5.5650</td><td>-13.7</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-53.6</td><td>-13.0</td><td>-40.6</td><td></td></tr><tr><td>7.4200</td><td>-14.1</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-53.8</td><td>-13.0</td><td>-40.8</td><td></td></tr><tr><td>3.7100</td><td>-6.6</td><td>H</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-46.1</td><td>-13.0</td><td>-33.1</td><td></td></tr><tr><td>5.5650</td><td>-11.1</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-50.9</td><td>-13.0</td><td>-37.9</td><td></td></tr><tr><td>7.4200</td><td>-14.0</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-53.8</td><td>-13.0</td><td>-40.8</td><td></td></tr><tr><td colspan="10">Mid Channel (1880MHz)</td></tr><tr><td>3.7600</td><td>-6.0</td><td>V</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-45.6</td><td>-13.0</td><td>-32.6</td><td></td></tr><tr><td>5.6400</td><td>-12.6</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-52.4</td><td>-13.0</td><td>-39.4</td><td></td></tr><tr><td>7.5200</td><td>-14.0</td><td>V</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-53.8</td><td>-13.0</td><td>-40.8</td><td></td></tr><tr><td>3.7600</td><td>-5.9</td><td>H</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-45.5</td><td>-13.0</td><td>-32.5</td><td></td></tr><tr><td>5.6400</td><td>-10.1</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-49.9</td><td>-13.0</td><td>-36.9</td><td></td></tr><tr><td>7.5200</td><td>-13.9</td><td>H</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-53.7</td><td>-13.0</td><td>-40.7</td><td></td></tr><tr><td colspan="10">High Channel (1905MHz)</td></tr><tr><td>3.8100</td><td>-4.2</td><td>V</td><td>3.0</td><td>40.6</td><td>1.0</td><td>-43.8</td><td>-13.0</td><td>-30.8</td><td></td></tr><tr><td>5.7150</td><td>-11.3</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-51.1</td><td>-13.0</td><td>-38.1</td><td></td></tr><tr><td>7.6200</td><td>-13.9</td><td>V</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-53.6</td><td>-13.0</td><td>-40.6</td><td></td></tr><tr><td>3.8100</td><td>-2.8</td><td>H</td><td>3.0</td><td>40.6</td><td>1.0</td><td>-42.4</td><td>-13.0</td><td>-29.4</td><td></td></tr><tr><td>5.7150</td><td>-6.9</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-46.7</td><td>-13.0</td><td>-33.7</td><td></td></tr><tr><td>7.6200</td><td>-13.8</td><td>H</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-53.5</td><td>-13.0</td><td>-40.5</td><td></td></tr><tr><td colspan="10">Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.</td></tr></table>	f GHz	SGreading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes	Low Channel (1855MHz)										3.7100	-7.6	V	3.0	40.5	1.0	-47.1	-13.0	-34.1		5.5650	-13.7	V	3.0	40.8	1.0	-53.6	-13.0	-40.6		7.4200	-14.1	V	3.0	40.8	1.0	-53.8	-13.0	-40.8		3.7100	-6.6	H	3.0	40.5	1.0	-46.1	-13.0	-33.1		5.5650	-11.1	H	3.0	40.8	1.0	-50.9	-13.0	-37.9		7.4200	-14.0	H	3.0	40.8	1.0	-53.8	-13.0	-40.8		Mid Channel (1880MHz)										3.7600	-6.0	V	3.0	40.5	1.0	-45.6	-13.0	-32.6		5.6400	-12.6	V	3.0	40.8	1.0	-52.4	-13.0	-39.4		7.5200	-14.0	V	3.0	40.7	1.0	-53.8	-13.0	-40.8		3.7600	-5.9	H	3.0	40.5	1.0	-45.5	-13.0	-32.5		5.6400	-10.1	H	3.0	40.8	1.0	-49.9	-13.0	-36.9		7.5200	-13.9	H	3.0	40.7	1.0	-53.7	-13.0	-40.7		High Channel (1905MHz)										3.8100	-4.2	V	3.0	40.6	1.0	-43.8	-13.0	-30.8		5.7150	-11.3	V	3.0	40.8	1.0	-51.1	-13.0	-38.1		7.6200	-13.9	V	3.0	40.7	1.0	-53.6	-13.0	-40.6		3.8100	-2.8	H	3.0	40.6	1.0	-42.4	-13.0	-29.4		5.7150	-6.9	H	3.0	40.8	1.0	-46.7	-13.0	-33.7		7.6200	-13.8	H	3.0	40.7	1.0	-53.5	-13.0	-40.5		Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.									
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LTE Band 2 10MHz 16QAM	UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement Company: Samsung Project #: 16K22923 Date: 02-27-16 Test Engineer: Steven Kim Configuration: EUT / AC Adapter / Ear Phone / X-Position Mode: TX LTE BAND 2, 10MHz BW,16QAM Chamber Pre-amplifier Filter Limit Chamber 2 AFS42 Filter 1 FCC Part 24 <table><tr><th>f GHz</th><th>SGreading (dBm)</th><th>Ant. Pol. (H/V)</th><th>Distance (m)</th><th>Preamp (dB)</th><th>Filter (dB)</th><th>ERP (dBm)</th><th>Limit (dBm)</th><th>Delta (dB)</th><th>Notes</th></tr><tr><td colspan="10">Low Channel (1855MHz)</td></tr><tr><td>3.7100</td><td>-7.3</td><td>V</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-46.8</td><td>-13.0</td><td>-33.8</td><td></td></tr><tr><td>5.5650</td><td>-12.7</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-52.6</td><td>-13.0</td><td>-39.6</td><td></td></tr><tr><td>7.4200</td><td>-14.3</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-54.0</td><td>-13.0</td><td>-41.0</td><td></td></tr><tr><td>3.7100</td><td>-5.5</td><td>H</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-45.0</td><td>-13.0</td><td>-32.0</td><td></td></tr><tr><td>5.5650</td><td>-9.1</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-49.0</td><td>-13.0</td><td>-36.0</td><td></td></tr><tr><td>7.4200</td><td>-14.1</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-53.9</td><td>-13.0</td><td>-40.9</td><td></td></tr><tr><td colspan="10">Mid Channel (1880MHz)</td></tr><tr><td>3.7600</td><td>-5.7</td><td>V</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-45.2</td><td>-13.0</td><td>-32.2</td><td></td></tr><tr><td>5.6400</td><td>-12.6</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-52.4</td><td>-13.0</td><td>-39.4</td><td></td></tr><tr><td>7.5200</td><td>-14.1</td><td>V</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-53.8</td><td>-13.0</td><td>-40.8</td><td></td></tr><tr><td>3.7600</td><td>-4.2</td><td>H</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-43.7</td><td>-13.0</td><td>-30.7</td><td></td></tr><tr><td>5.6400</td><td>-8.0</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-47.8</td><td>-13.0</td><td>-34.8</td><td></td></tr><tr><td>7.5200</td><td>-13.9</td><td>H</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-53.6</td><td>-13.0</td><td>-40.6</td><td></td></tr><tr><td colspan="10">High Channel (1905MHz)</td></tr><tr><td>3.8100</td><td>-6.4</td><td>V</td><td>3.0</td><td>40.6</td><td>1.0</td><td>-46.0</td><td>-13.0</td><td>-33.0</td><td></td></tr><tr><td>5.7150</td><td>-12.2</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-52.0</td><td>-13.0</td><td>-39.0</td><td></td></tr><tr><td>7.6200</td><td>-14.0</td><td>V</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-53.6</td><td>-13.0</td><td>-40.6</td><td></td></tr><tr><td>3.8100</td><td>-1.8</td><td>H</td><td>3.0</td><td>40.6</td><td>1.0</td><td>-41.4</td><td>-13.0</td><td>-28.4</td><td></td></tr><tr><td>5.7150</td><td>-7.0</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-46.8</td><td>-13.0</td><td>-33.8</td><td></td></tr><tr><td>7.6200</td><td>-13.8</td><td>H</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-53.4</td><td>-13.0</td><td>-40.4</td><td></td></tr><tr><td colspan="10">Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.</td></tr></table>	f GHz	SGreading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes	Low Channel (1855MHz)										3.7100	-7.3	V	3.0	40.5	1.0	-46.8	-13.0	-33.8		5.5650	-12.7	V	3.0	40.8	1.0	-52.6	-13.0	-39.6		7.4200	-14.3	V	3.0	40.8	1.0	-54.0	-13.0	-41.0		3.7100	-5.5	H	3.0	40.5	1.0	-45.0	-13.0	-32.0		5.5650	-9.1	H	3.0	40.8	1.0	-49.0	-13.0	-36.0		7.4200	-14.1	H	3.0	40.8	1.0	-53.9	-13.0	-40.9		Mid Channel (1880MHz)										3.7600	-5.7	V	3.0	40.5	1.0	-45.2	-13.0	-32.2		5.6400	-12.6	V	3.0	40.8	1.0	-52.4	-13.0	-39.4		7.5200	-14.1	V	3.0	40.7	1.0	-53.8	-13.0	-40.8		3.7600	-4.2	H	3.0	40.5	1.0	-43.7	-13.0	-30.7		5.6400	-8.0	H	3.0	40.8	1.0	-47.8	-13.0	-34.8		7.5200	-13.9	H	3.0	40.7	1.0	-53.6	-13.0	-40.6		High Channel (1905MHz)										3.8100	-6.4	V	3.0	40.6	1.0	-46.0	-13.0	-33.0		5.7150	-12.2	V	3.0	40.8	1.0	-52.0	-13.0	-39.0		7.6200	-14.0	V	3.0	40.7	1.0	-53.6	-13.0	-40.6		3.8100	-1.8	H	3.0	40.6	1.0	-41.4	-13.0	-28.4		5.7150	-7.0	H	3.0	40.8	1.0	-46.8	-13.0	-33.8		7.6200	-13.8	H	3.0	40.7	1.0	-53.4	-13.0	-40.4		Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.									
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3.8100	-1.8	H	3.0	40.6	1.0	-41.4	-13.0	-28.4																																																																																																																																																																																																																															
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LTE Band 2 5MHz QPSK	UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement Company: Samsung Project #: 16K22923 Date: 02-27-16 Test Engineer: Steven Kim Configuration: EUT / AC Adapter / Ear Phone / X-Position Mode: TX, LTE BAND 2, 5MHz BW, QPSK Chamber Chamber 2 Pre-amplifier AFS42 Filter Filter 1 Limit FCC Part 24 <table> <tr> <th>f GHz</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>ERP (dBm)</th><th>Limit (dBm)</th><th>Delta (dB)</th><th>Notes</th></tr> <tr><td colspan="10">Low Channel (1852.5MHz)</td></tr> <tr><td>3.7050</td><td>-10.0</td><td>V</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-49.5</td><td>-13.0</td><td>-36.5</td><td></td></tr> <tr><td>5.5575</td><td>-15.0</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-54.8</td><td>-13.0</td><td>-41.8</td><td></td></tr> <tr><td>7.4100</td><td>-14.1</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-53.9</td><td>-13.0</td><td>-40.9</td><td></td></tr> <tr><td>3.7050</td><td>-8.0</td><td>H</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-47.5</td><td>-13.0</td><td>-34.5</td><td></td></tr> <tr><td>5.5575</td><td>-11.7</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-51.5</td><td>-13.0</td><td>-38.5</td><td></td></tr> <tr><td>7.4100</td><td>-14.0</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-53.8</td><td>-13.0</td><td>-40.8</td><td></td></tr> <tr><td colspan="10">Mid Channel (1880MHz)</td></tr> <tr><td>3.7600</td><td>-8.0</td><td>V</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-47.6</td><td>-13.0</td><td>-34.6</td><td></td></tr> <tr><td>5.6400</td><td>-13.8</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-53.6</td><td>-13.0</td><td>-40.6</td><td></td></tr> <tr><td>7.5200</td><td>-14.0</td><td>V</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-53.7</td><td>-13.0</td><td>-40.7</td><td></td></tr> <tr><td>3.7600</td><td>-7.9</td><td>H</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-47.4</td><td>-13.0</td><td>-34.4</td><td></td></tr> <tr><td>5.6400</td><td>-11.5</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-51.3</td><td>-13.0</td><td>-38.3</td><td></td></tr> <tr><td>7.5200</td><td>-13.9</td><td>H</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-53.6</td><td>-13.0</td><td>-40.6</td><td></td></tr> <tr><td colspan="10">High Channel (1907.5MHz)</td></tr> <tr><td>3.8150</td><td>-5.7</td><td>V</td><td>3.0</td><td>40.6</td><td>1.0</td><td>-45.3</td><td>-13.0</td><td>-32.3</td><td></td></tr> <tr><td>5.7225</td><td>-12.9</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-52.7</td><td>-13.0</td><td>-39.7</td><td></td></tr> <tr><td>7.6300</td><td>-14.1</td><td>V</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-53.7</td><td>-13.0</td><td>-40.7</td><td></td></tr> <tr><td>3.8150</td><td>-4.7</td><td>H</td><td>3.0</td><td>40.6</td><td>1.0</td><td>-44.3</td><td>-13.0</td><td>-31.3</td><td></td></tr> <tr><td>5.7225</td><td>-8.4</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-48.2</td><td>-13.0</td><td>-35.2</td><td></td></tr> <tr><td>7.6300</td><td>-13.8</td><td>H</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-53.5</td><td>-13.0</td><td>-40.5</td><td></td></tr> </table> Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes	Low Channel (1852.5MHz)										3.7050	-10.0	V	3.0	40.5	1.0	-49.5	-13.0	-36.5		5.5575	-15.0	V	3.0	40.8	1.0	-54.8	-13.0	-41.8		7.4100	-14.1	V	3.0	40.8	1.0	-53.9	-13.0	-40.9		3.7050	-8.0	H	3.0	40.5	1.0	-47.5	-13.0	-34.5		5.5575	-11.7	H	3.0	40.8	1.0	-51.5	-13.0	-38.5		7.4100	-14.0	H	3.0	40.8	1.0	-53.8	-13.0	-40.8		Mid Channel (1880MHz)										3.7600	-8.0	V	3.0	40.5	1.0	-47.6	-13.0	-34.6		5.6400	-13.8	V	3.0	40.8	1.0	-53.6	-13.0	-40.6		7.5200	-14.0	V	3.0	40.7	1.0	-53.7	-13.0	-40.7		3.7600	-7.9	H	3.0	40.5	1.0	-47.4	-13.0	-34.4		5.6400	-11.5	H	3.0	40.8	1.0	-51.3	-13.0	-38.3		7.5200	-13.9	H	3.0	40.7	1.0	-53.6	-13.0	-40.6		High Channel (1907.5MHz)										3.8150	-5.7	V	3.0	40.6	1.0	-45.3	-13.0	-32.3		5.7225	-12.9	V	3.0	40.8	1.0	-52.7	-13.0	-39.7		7.6300	-14.1	V	3.0	40.7	1.0	-53.7	-13.0	-40.7		3.8150	-4.7	H	3.0	40.6	1.0	-44.3	-13.0	-31.3		5.7225	-8.4	H	3.0	40.8	1.0	-48.2	-13.0	-35.2		7.6300	-13.8	H	3.0	40.7	1.0	-53.5	-13.0	-40.5	
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LTE Band 2 5MHz 16QAM	UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement Company: Samsung Project #: 16K22923 Date: 02-27-16 Test Engineer: Steven Kim Configuration: EUT / AC Adapter / Ear Phone / X-Position Mode: TX, LTE BAND 2, 5MHz BW, 16QAM Chamber Chamber 2 Pre-amplifier AFS42 Filter Filter 1 Limit FCC Part 24 <table> <tr> <th>f GHz</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>ERP (dBm)</th><th>Limit (dBm)</th><th>Delta (dB)</th><th>Notes</th></tr> <tr><td colspan="10">Low Channel (1852.5MHz)</td></tr> <tr><td>3.7050</td><td>-8.4</td><td>V</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-47.9</td><td>-13.0</td><td>-34.9</td><td></td></tr> <tr><td>5.5575</td><td>-14.3</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-54.1</td><td>-13.0</td><td>-41.1</td><td></td></tr> <tr><td>7.4100</td><td>-14.2</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-54.0</td><td>-13.0</td><td>-41.0</td><td></td></tr> <tr><td>3.7050</td><td>-6.6</td><td>H</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-46.1</td><td>-13.0</td><td>-33.1</td><td></td></tr> <tr><td>5.5575</td><td>-11.2</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-51.0</td><td>-13.0</td><td>-38.0</td><td></td></tr> <tr><td>7.4100</td><td>-14.1</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-53.9</td><td>-13.0</td><td>-40.9</td><td></td></tr> <tr><td colspan="10">Mid Channel (1880MHz)</td></tr> <tr><td>3.7600</td><td>-7.7</td><td>V</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-47.2</td><td>-13.0</td><td>-34.2</td><td></td></tr> <tr><td>5.6400</td><td>-14.1</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-53.9</td><td>-13.0</td><td>-40.9</td><td></td></tr> <tr><td>7.5200</td><td>-14.0</td><td>V</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-53.7</td><td>-13.0</td><td>-40.7</td><td></td></tr> <tr><td>3.7600</td><td>-5.7</td><td>H</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-45.3</td><td>-13.0</td><td>-32.3</td><td></td></tr> <tr><td>5.6400</td><td>-10.1</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-49.9</td><td>-13.0</td><td>-36.9</td><td></td></tr> <tr><td>7.5200</td><td>-13.9</td><td>H</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-53.6</td><td>-13.0</td><td>-40.6</td><td></td></tr> <tr><td colspan="10">High Channel (1907.5MHz)</td></tr> <tr><td>3.8150</td><td>-6.9</td><td>V</td><td>3.0</td><td>40.6</td><td>1.0</td><td>-46.5</td><td>-13.0</td><td>-33.5</td><td></td></tr> <tr><td>5.7225</td><td>-11.7</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-51.5</td><td>-13.0</td><td>-38.5</td><td></td></tr> <tr><td>7.6300</td><td>-14.0</td><td>V</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-53.7</td><td>-13.0</td><td>-40.7</td><td></td></tr> <tr><td>3.8150</td><td>-2.4</td><td>H</td><td>3.0</td><td>40.6</td><td>1.0</td><td>-42.0</td><td>-13.0</td><td>-29.0</td><td></td></tr> <tr><td>5.7225</td><td>-7.8</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-47.6</td><td>-13.0</td><td>-34.6</td><td></td></tr> <tr><td>7.6300</td><td>-13.7</td><td>H</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-53.3</td><td>-13.0</td><td>-40.3</td><td></td></tr> </table> Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes	Low Channel (1852.5MHz)										3.7050	-8.4	V	3.0	40.5	1.0	-47.9	-13.0	-34.9		5.5575	-14.3	V	3.0	40.8	1.0	-54.1	-13.0	-41.1		7.4100	-14.2	V	3.0	40.8	1.0	-54.0	-13.0	-41.0		3.7050	-6.6	H	3.0	40.5	1.0	-46.1	-13.0	-33.1		5.5575	-11.2	H	3.0	40.8	1.0	-51.0	-13.0	-38.0		7.4100	-14.1	H	3.0	40.8	1.0	-53.9	-13.0	-40.9		Mid Channel (1880MHz)										3.7600	-7.7	V	3.0	40.5	1.0	-47.2	-13.0	-34.2		5.6400	-14.1	V	3.0	40.8	1.0	-53.9	-13.0	-40.9		7.5200	-14.0	V	3.0	40.7	1.0	-53.7	-13.0	-40.7		3.7600	-5.7	H	3.0	40.5	1.0	-45.3	-13.0	-32.3		5.6400	-10.1	H	3.0	40.8	1.0	-49.9	-13.0	-36.9		7.5200	-13.9	H	3.0	40.7	1.0	-53.6	-13.0	-40.6		High Channel (1907.5MHz)										3.8150	-6.9	V	3.0	40.6	1.0	-46.5	-13.0	-33.5		5.7225	-11.7	V	3.0	40.8	1.0	-51.5	-13.0	-38.5		7.6300	-14.0	V	3.0	40.7	1.0	-53.7	-13.0	-40.7		3.8150	-2.4	H	3.0	40.6	1.0	-42.0	-13.0	-29.0		5.7225	-7.8	H	3.0	40.8	1.0	-47.6	-13.0	-34.6		7.6300	-13.7	H	3.0	40.7	1.0	-53.3	-13.0	-40.3	
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3.8150	-2.4	H	3.0	40.6	1.0	-42.0	-13.0	-29.0																																																																																																																																																																																																																					
5.7225	-7.8	H	3.0	40.8	1.0	-47.6	-13.0	-34.6																																																																																																																																																																																																																					
7.6300	-13.7	H	3.0	40.7	1.0	-53.3	-13.0	-40.3																																																																																																																																																																																																																					

LTE Band 2 3MHz QPSK	UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement Company: Samsung Project #: 16K22923 Date: 02-27-16 Test Engineer: Steven Kim Configuration: EUT / AC Adapter / Ear Phone / X-Position Mode: TX, LTE BAND 2, 3MHz BW,QPSK Chamber: Chamber 2 Pre-amplifier: AFS42 Filter: Filter 1 Limit: FCC Part 24 <table> <tr> <th>f GHz</th><th>SGreading (dBm)</th><th>Ant. Pol. (H/V)</th><th>Distance (m)</th><th>Preamp (dB)</th><th>Filter (dB)</th><th>ERP (dBm)</th><th>Limit (dBm)</th><th>Delta (dB)</th><th>Notes</th></tr> <tr><td colspan="10">Low Channel (1851.5MHz)</td></tr> <tr><td>3.7030</td><td>-8.1</td><td>V</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-47.6</td><td>-13.0</td><td>-34.6</td><td></td></tr> <tr><td>5.5545</td><td>-14.3</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-54.1</td><td>-13.0</td><td>-41.1</td><td></td></tr> <tr><td>7.4060</td><td>-14.3</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-54.1</td><td>-13.0</td><td>-41.1</td><td></td></tr> <tr><td>3.7030</td><td>-7.0</td><td>H</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-46.4</td><td>-13.0</td><td>-33.4</td><td></td></tr> <tr><td>5.5545</td><td>-11.5</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-51.4</td><td>-13.0</td><td>-38.4</td><td></td></tr> <tr><td>7.4060</td><td>-13.9</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-53.7</td><td>-13.0</td><td>-40.7</td><td></td></tr> <tr><td colspan="10">Mid Channel (1880MHz)</td></tr> <tr><td>3.7600</td><td>-7.1</td><td>V</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-46.6</td><td>-13.0</td><td>-33.6</td><td></td></tr> <tr><td>5.6400</td><td>-13.2</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-53.0</td><td>-13.0</td><td>-40.0</td><td></td></tr> <tr><td>7.5200</td><td>-14.1</td><td>V</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-53.9</td><td>-13.0</td><td>-40.9</td><td></td></tr> <tr><td>3.7600</td><td>-6.8</td><td>H</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-46.3</td><td>-13.0</td><td>-33.3</td><td></td></tr> <tr><td>5.6400</td><td>-10.5</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-50.3</td><td>-13.0</td><td>-37.3</td><td></td></tr> <tr><td>7.5200</td><td>-14.0</td><td>H</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-53.7</td><td>-13.0</td><td>-40.7</td><td></td></tr> <tr><td colspan="10">High Channel (1908.5MHz)</td></tr> <tr><td>3.8170</td><td>-4.1</td><td>V</td><td>3.0</td><td>40.6</td><td>1.0</td><td>-43.7</td><td>-13.0</td><td>-30.7</td><td></td></tr> <tr><td>5.7255</td><td>-12.1</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-51.9</td><td>-13.0</td><td>-38.9</td><td></td></tr> <tr><td>7.6340</td><td>-13.9</td><td>V</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-53.5</td><td>-13.0</td><td>-40.5</td><td></td></tr> <tr><td>3.8170</td><td>-3.9</td><td>H</td><td>3.0</td><td>40.6</td><td>1.0</td><td>-43.5</td><td>-13.0</td><td>-30.5</td><td></td></tr> <tr><td>5.7255</td><td>-7.6</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-47.4</td><td>-13.0</td><td>-34.4</td><td></td></tr> <tr><td>7.6340</td><td>-13.8</td><td>H</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-53.4</td><td>-13.0</td><td>-40.4</td><td></td></tr> </table> Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.	f GHz	SGreading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes	Low Channel (1851.5MHz)										3.7030	-8.1	V	3.0	40.5	1.0	-47.6	-13.0	-34.6		5.5545	-14.3	V	3.0	40.8	1.0	-54.1	-13.0	-41.1		7.4060	-14.3	V	3.0	40.8	1.0	-54.1	-13.0	-41.1		3.7030	-7.0	H	3.0	40.5	1.0	-46.4	-13.0	-33.4		5.5545	-11.5	H	3.0	40.8	1.0	-51.4	-13.0	-38.4		7.4060	-13.9	H	3.0	40.8	1.0	-53.7	-13.0	-40.7		Mid Channel (1880MHz)										3.7600	-7.1	V	3.0	40.5	1.0	-46.6	-13.0	-33.6		5.6400	-13.2	V	3.0	40.8	1.0	-53.0	-13.0	-40.0		7.5200	-14.1	V	3.0	40.7	1.0	-53.9	-13.0	-40.9		3.7600	-6.8	H	3.0	40.5	1.0	-46.3	-13.0	-33.3		5.6400	-10.5	H	3.0	40.8	1.0	-50.3	-13.0	-37.3		7.5200	-14.0	H	3.0	40.7	1.0	-53.7	-13.0	-40.7		High Channel (1908.5MHz)										3.8170	-4.1	V	3.0	40.6	1.0	-43.7	-13.0	-30.7		5.7255	-12.1	V	3.0	40.8	1.0	-51.9	-13.0	-38.9		7.6340	-13.9	V	3.0	40.7	1.0	-53.5	-13.0	-40.5		3.8170	-3.9	H	3.0	40.6	1.0	-43.5	-13.0	-30.5		5.7255	-7.6	H	3.0	40.8	1.0	-47.4	-13.0	-34.4		7.6340	-13.8	H	3.0	40.7	1.0	-53.4	-13.0	-40.4	
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LTE Band 2 3MHz 16QAM	UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement Company: Samsung Project #: 16K22923 Date: 02-27-16 Test Engineer: Steven Kim Configuration: EUT / AC Adapter / Ear Phone / X-Position Mode: TX, LTE BAND 2, 3MHz BW,16QAM Chamber: Chamber 2 Pre-amplifier: AFS42 Filter: Filter 1 Limit: FCC Part 24 <table> <tr> <th>f GHz</th><th>SGreading (dBm)</th><th>Ant. Pol. (H/V)</th><th>Distance (m)</th><th>Preamp (dB)</th><th>Filter (dB)</th><th>ERP (dBm)</th><th>Limit (dBm)</th><th>Delta (dB)</th><th>Notes</th></tr> <tr><td colspan="10">Low Channel (1851.5MHz)</td></tr> <tr><td>3.703</td><td>-7.3</td><td>V</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-46.8</td><td>-13.0</td><td>-33.8</td><td></td></tr> <tr><td>5.555</td><td>-13.6</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-53.5</td><td>-13.0</td><td>-40.5</td><td></td></tr> <tr><td>7.406</td><td>-14.1</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-53.9</td><td>-13.0</td><td>-40.9</td><td></td></tr> <tr><td>3.703</td><td>-6.4</td><td>H</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-45.9</td><td>-13.0</td><td>-32.9</td><td></td></tr> <tr><td>5.555</td><td>-9.8</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-49.6</td><td>-13.0</td><td>-36.6</td><td></td></tr> <tr><td>7.406</td><td>-13.9</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-53.7</td><td>-13.0</td><td>-40.7</td><td></td></tr> <tr><td colspan="10">Mid Channel (1880MHz)</td></tr> <tr><td>3.760</td><td>-7.0</td><td>V</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-46.6</td><td>-13.0</td><td>-33.6</td><td></td></tr> <tr><td>5.640</td><td>-12.6</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-52.4</td><td>-13.0</td><td>-39.4</td><td></td></tr> <tr><td>7.520</td><td>-14.2</td><td>V</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-53.9</td><td>-13.0</td><td>-40.9</td><td></td></tr> <tr><td>3.760</td><td>-4.8</td><td>H</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-44.3</td><td>-13.0</td><td>-31.3</td><td></td></tr> <tr><td>5.640</td><td>-9.0</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-48.8</td><td>-13.0</td><td>-35.8</td><td></td></tr> <tr><td>7.520</td><td>-14.0</td><td>H</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-53.7</td><td>-13.0</td><td>-40.7</td><td></td></tr> <tr><td colspan="10">High Channel (1908.5MHz)</td></tr> <tr><td>3.817</td><td>-5.5</td><td>V</td><td>3.0</td><td>40.6</td><td>1.0</td><td>-45.1</td><td>-13.0</td><td>-32.1</td><td></td></tr> <tr><td>5.726</td><td>-11.2</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-50.9</td><td>-13.0</td><td>-37.9</td><td></td></tr> <tr><td>7.634</td><td>-13.9</td><td>V</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-53.6</td><td>-13.0</td><td>-40.6</td><td></td></tr> <tr><td>3.817</td><td>-1.3</td><td>H</td><td>3.0</td><td>40.6</td><td>1.0</td><td>-40.9</td><td>-13.0</td><td>-27.9</td><td></td></tr> <tr><td>5.726</td><td>-6.6</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-46.4</td><td>-13.0</td><td>-33.4</td><td></td></tr> <tr><td>7.634</td><td>-13.8</td><td>H</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-53.4</td><td>-13.0</td><td>-40.4</td><td></td></tr> </table> Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.	f GHz	SGreading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes	Low Channel (1851.5MHz)										3.703	-7.3	V	3.0	40.5	1.0	-46.8	-13.0	-33.8		5.555	-13.6	V	3.0	40.8	1.0	-53.5	-13.0	-40.5		7.406	-14.1	V	3.0	40.8	1.0	-53.9	-13.0	-40.9		3.703	-6.4	H	3.0	40.5	1.0	-45.9	-13.0	-32.9		5.555	-9.8	H	3.0	40.8	1.0	-49.6	-13.0	-36.6		7.406	-13.9	H	3.0	40.8	1.0	-53.7	-13.0	-40.7		Mid Channel (1880MHz)										3.760	-7.0	V	3.0	40.5	1.0	-46.6	-13.0	-33.6		5.640	-12.6	V	3.0	40.8	1.0	-52.4	-13.0	-39.4		7.520	-14.2	V	3.0	40.7	1.0	-53.9	-13.0	-40.9		3.760	-4.8	H	3.0	40.5	1.0	-44.3	-13.0	-31.3		5.640	-9.0	H	3.0	40.8	1.0	-48.8	-13.0	-35.8		7.520	-14.0	H	3.0	40.7	1.0	-53.7	-13.0	-40.7		High Channel (1908.5MHz)										3.817	-5.5	V	3.0	40.6	1.0	-45.1	-13.0	-32.1		5.726	-11.2	V	3.0	40.8	1.0	-50.9	-13.0	-37.9		7.634	-13.9	V	3.0	40.7	1.0	-53.6	-13.0	-40.6		3.817	-1.3	H	3.0	40.6	1.0	-40.9	-13.0	-27.9		5.726	-6.6	H	3.0	40.8	1.0	-46.4	-13.0	-33.4		7.634	-13.8	H	3.0	40.7	1.0	-53.4	-13.0	-40.4	
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LTE

Band 2

1.4MHz

QPSK

Chamber

Chamber 2

Pre-amplifier

AFS42

Filter

Filter 1

Limit

FCC Part 24

f GHz	SGreading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Channel (1850.7MHz)									
3.7014	-8.8	V	3.0	40.5	1.0	-48.3	-13.0	-35.3	
5.5521	-14.5	V	3.0	40.8	1.0	-54.3	-13.0	-41.3	
7.4028	-14.0	V	3.0	40.8	1.0	-53.8	-13.0	-40.8	
3.7014	-6.4	H	3.0	40.5	1.0	-45.9	-13.0	-32.9	
5.5521	-10.7	H	3.0	40.8	1.0	-50.5	-13.0	-37.5	
7.4028	-14.1	H	3.0	40.8	1.0	-53.9	-13.0	-40.9	
Mid Channel (1880MHz)									
3.7600	-6.9	V	3.0	40.5	1.0	-46.4	-13.0	-33.4	
5.6400	-13.7	V	3.0	40.8	1.0	-53.5	-13.0	-40.5	
7.5200	-14.1	V	3.0	40.7	1.0	-53.8	-13.0	-40.8	
3.7600	-6.2	H	3.0	40.5	1.0	-45.7	-13.0	-32.7	
5.6400	-10.4	H	3.0	40.8	1.0	-50.2	-13.0	-37.2	
7.5200	-13.9	H	3.0	40.7	1.0	-53.6	-13.0	-40.6	
High Channel (1909.3MHz)									
3.8186	-4.7	V	3.0	40.6	1.0	-44.3	-13.0	-31.3	
5.7279	-11.8	V	3.0	40.8	1.0	-51.6	-13.0	-38.6	
7.6372	-14.0	V	3.0	40.7	1.0	-53.7	-13.0	-40.7	
3.8186	-3.4	H	3.0	40.6	1.0	-43.0	-13.0	-30.0	
5.7279	-7.5	H	3.0	40.8	1.0	-47.3	-13.0	-34.3	
7.6372	-13.8	H	3.0	40.7	1.0	-53.5	-13.0	-40.5	

Rev. 03.03.09

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

LTE

Band 2

1.4MHz

16QAM

Chamber

Chamber 2

Pre-amplifier

AFS42

Filter

Filter 1

Limit

FCC Part 24

f GHz	SGreading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Channel (1850.7MHz)									
3.7014	-8.0	V	3.0	40.5	1.0	-47.4	-13.0	-34.4	
5.5521	-13.1	V	3.0	40.8	1.0	-52.9	-13.0	-39.9	
7.4028	-14.2	V	3.0	40.8	1.0	-54.0	-13.0	-41.0	
3.7014	-6.2	H	3.0	40.5	1.0	-45.6	-13.0	-32.6	
5.5521	-10.1	H	3.0	40.8	1.0	-50.0	-13.0	-37.0	
7.4028	-13.9	H	3.0	40.8	1.0	-53.7	-13.0	-40.7	
Mid Channel (1880MHz)									
3.7600	-6.9	V	3.0	40.5	1.0	-46.5	-13.0	-33.5	
5.6400	-12.2	V	3.0	40.8	1.0	-52.0	-13.0	-39.0	
7.5200	-13.9	V	3.0	40.7	1.0	-53.6	-13.0	-40.6	
3.7600	-4.6	H	3.0	40.5	1.0	-44.1	-13.0	-31.1	
5.6400	-8.9	H	3.0	40.8	1.0	-48.7	-13.0	-35.7	
7.5200	-14.1	H	3.0	40.7	1.0	-53.8	-13.0	-40.8	
High Channel (1909.3MHz)									
3.8186	-5.1	V	3.0	40.6	1.0	-44.7	-13.0	-31.7	
5.7279	-11.2	V	3.0	40.8	1.0	-51.0	-13.0	-38.0	
7.6372	-14.0	V	3.0	40.7	1.0	-53.7	-13.0	-40.7	
3.8186	-1.7	H	3.0	40.6	1.0	-41.3	-13.0	-28.3	
5.7279	-6.2	H	3.0	40.8	1.0	-46.0	-13.0	-33.0	
7.6372	-13.8	H	3.0	40.7	1.0	-53.5	-13.0	-40.5	

Rev. 03.03.09

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