

Band LTE4 5MHz 16QAM	High Frequency Substitution Measurement UL Verification Services, Inc.																																																																																																	
	Company:		Samsung																																																																																															
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Low Ch									
1711.50	10.96	V	0.9	8.2	18.31	30.0	-11.7		
1711.50	17.84	H	0.9	8.2	25.19	30.0	-4.8		
Mid Ch									
1732.50	10.89	V	0.9	8.2	18.16	30.0	-11.8		
1732.50	18.61	H	0.9	8.2	25.88	30.0	-4.1		
High Ch									
1753.50	10.96	V	0.9	8.1	18.15	30.0	-11.8		
1753.50	18.67	H	0.9	8.1	25.86	30.0	-4.1		

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1710.70	17.67	H	0.9	8.2	24.94	30.0	-5.1																																																																																											
Mid Ch																																																																																																		
1732.50	10.75	V	0.9	8.2	18.02	30.0	-12.0																																																																																											
1732.50	18.63	H	0.9	8.2	25.90	30.0	-4.1																																																																																											
High Ch																																																																																																		
1754.30	11.08	V	0.9	8.1	18.27	30.0	-11.7																																																																																											
1754.30	18.63	H	0.9	8.1	25.82	30.0	-4.2																																																																																											

Band Band 2 HSDPA	High Frequency Substitution Measurement UL Verification Services, Inc. Chamber A								
	Company: Samsung Project #: 15I20033 Date: 2/26/2015 Test Engineer: R. Alegre Configuration: EUT only Mode: HSDPA B2								
	Test Equipment: Receiving: Horn T711, and Chamber A SMA Cables Substitution: Horn T59 Substitution, 4ft SMA Cable Warehouse								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes
	Low Ch								
	1852.40	2.78	V	0.9	8.0	9.94	33.0	-23.1	
	1852.40	17.47	H	0.9	8.0	24.63	33.0	-8.4	
	Mid Ch								
	1880.00	2.75	V	0.9	8.0	9.91	33.0	-23.1	
	1880.00	17.38	H	0.9	8.0	24.54	33.0	-8.5	
High Ch									
1907.60	2.70	V	0.9	8.0	9.86	33.0	-23.1		
1907.60	17.36	H	0.9	8.0	24.52	33.0	-8.5		
Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm									

Band Band 2 REL99	High Frequency Substitution Measurement UL Verification Services, Inc. Chamber A								
	Company: Samsung Project #: 15I20033 Date: 2/26/2015 Test Engineer: R. Alegre Configuration: EUT only Mode: REL99 B2								
	Test Equipment: Receiving: Horn T711, and Chamber A SMA Cables Substitution: Horn T59 Substitution, 4ft SMA Cable Warehouse								
	f	SG reading	Ant. Pol.	Cable Loss	Antenna Gain	EIRP	Limit	Margin	Notes
	MHz	(dBm)	(H/V)	(dB)	(dBi)	(dBm)	(dBm)	(dB)	
	Low Ch								
	1852.40	2.76	V	0.9	8.0	9.92	33.0	-23.1	
	1852.40	17.60	H	0.9	8.0	24.76	33.0	-8.2	
	Mid Ch								
	1880.00	2.77	V	0.9	8.0	9.93	33.0	-23.1	
1880.00	17.40	H	0.9	8.0	24.56	33.0	-8.4		
High Ch									
1907.60	2.66	V	0.9	8.0	9.82	33.0	-23.2		
1907.60	17.39	H	0.9	8.0	24.55	33.0	-8.5		
Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm									

Band Band 5 HSDPA	High Frequency Substitution Measurement UL Verification Services, Inc. Chamber A																																																																																																	
	Company:		Samsung																																																																																															
	Project #:		15I20033																																																																																															
	Date:		2/25/2015																																																																																															
	Test Engineer:		R. Alegre																																																																																															
	Configuration:		EUT only																																																																																															
	Mode:		HSDPA B5 FUND																																																																																															
	Test Equipment:																																																																																																	
	Receiving: Sunol T130, and 3m Chamber A N-type Cable																																																																																																	
	Substitution: Dipole T273, 4ft SMA Cable Warehouse.																																																																																																	
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High Frequency Substitution Measurement UL Verification Services, Inc. Chamber A										
Company: Samsung Project #: 15I20033 Date: 2/25/2015 Test Engineer: R. Alegre Configuration: EUT only Mode: REL99 B5 FUND										
Test Equipment: Receiving: Sunol T130, and 3m Chamber A N-type Cable Substitution: Dipole T273, 4ft SMA Cable Warehouse.										
Band										
Band 5										
REL99										
f	SG reading	Ant. Pol.	Cable Loss	Antenna Gain	ERP	Limit	Margin	Notes		
MHz	(dBm)	(H/V)	(dB)	(dBd)	(dBm)	(dBm)	(dB)			
Low Ch										
826.40	15.65	V	0.9	0.0	14.75	38.5	-23.7			
826.40	22.88	H	0.9	0.0	21.98	38.5	-16.5			
Mid Ch										
836.60	14.60	V	0.9	0.0	13.70	38.5	-24.7			
836.60	22.35	H	0.9	0.0	21.45	38.5	-17.0			
High Ch										
846.60	13.93	V	0.9	0.0	13.03	38.5	-25.4			
846.60	22.57	H	0.9	0.0	21.67	38.5	-16.8			
Rev. 3.17.11										
Note: For Band 13/17 ERP limit is 34.77dBm; For Band 26 limit is 50dBm										

Band Band 4 HSDPA	High Frequency Substitution Measurement UL Verification Services, Inc.																																																																																																	
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	Project #:		15I20033																																																																																															
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	Mode:		HSDPA Band 4 Fundamentals																																																																																															
	Test Equipment:		Receiving: Horn T711, and Chamber A SMA Cables Substitution: Horn T59, 4ft SMA Cable Warehouse																																																																																															
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Band Band 4 REL99	High Frequency Substitution Measurement UL Verification Services, Inc.																																																																																																	
	Company:		Samsung																																																																																															
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	Location:		Chamber A																																																																																															
	Mode:		Rel99 Band 4 Fundamentals																																																																																															
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Band GSM19 00 EGPRS	High Frequency Substitution Measurement UL Verification Services, Inc. Chamber A								
	Company: Samsung Project #: 15I20033 Date: 2/26/2015 Test Engineer: R. Alegre Configuration: EUT only Mode: EGPRS 1900								
	Test Equipment: Receiving: Horn T711, and Chamber A SMA Cables Substitution: Horn T59 Substitution, 4ft SMA Cable Warehouse								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes
	Low Ch								
	1850.20	16.71	V	0.9	8.0	23.87	33.0	-9.1	
	1850.20	21.60	H	0.9	8.0	28.76	33.0	-4.2	
	Mid Ch								
	1880.00	15.91	V	0.9	8.0	23.07	33.0	-9.9	
	1880.00	21.70	H	0.9	8.0	28.86	33.0	-4.1	
High Ch									
1909.80	16.15	V	0.9	8.0	23.31	33.0	-9.7		
1909.80	21.40	H	0.9	8.0	28.56	33.0	-4.4		
Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm									

Band GSM19 00 GPRS	High Frequency Substitution Measurement UL Verification Services, Inc. Chamber A								
	Company: Samsung Project #: 15I20033 Date: 2/26/2015 Test Engineer: R. Alegre Configuration: EUT only Mode: GPRS 1900								
	Test Equipment: Receiving: Horn T711, and Chamber A SMA Cables Substitution: Horn T59 Substitution, 4ft SMA Cable Warehouse								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes
	Low Ch								
	1850.20	18.16	V	0.9	8.0	25.32	33.0	-7.7	
	1850.20	25.39	H	0.9	8.0	32.55	33.0	-0.5	
	Mid Ch								
	1880.00	18.33	V	0.9	8.0	25.49	33.0	-7.5	
	1880.00	25.04	H	0.9	8.0	32.20	33.0	-0.8	
High Ch									
1909.80	18.13	V	0.9	8.0	25.29	33.0	-7.7		
1909.80	24.53	H	0.9	8.0	31.69	33.0	-1.3		
Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm									

Band GSM85 0 EGPRS	High Frequency Substitution Measurement UL Verification Services, Inc. Chamber A								
	Company:		Samsung						
	Project #:		15I20033						
	Date:		2/25/2015						
	Test Engineer:		R. Alegre						
	Configuration:		EUT only						
	Mode:		EGPRS850						
	Test Equipment:								
	Receiving: Hybrid T130, and Chamber A N-type Cable								
	Substitution: Dipole T273, 8ft SMA Cable Warehouse.								
	f	SG reading	Ant. Pol.	Cable Loss	Antenna Gain	ERP	Limit	Margin	Notes
	MHz	(dBm)	(H/V)	(dB)	(dBd)	(dBm)	(dBm)	(dB)	
	Low Ch								
	824.20	23.90	V	0.9	0.0	23.00	38.5	-15.4	
	824.20	29.72	H	0.9	0.0	28.82	38.5	-9.6	
	Mid Ch								
	836.60	23.20	V	0.9	0.0	22.30	38.5	-16.1	
	836.60	29.63	H	0.9	0.0	28.73	38.5	-9.7	
	High Ch								
	848.80	23.94	V	0.9	0.0	23.04	38.5	-15.4	
	848.80	29.68	H	0.9	0.0	28.78	38.5	-9.7	
Rev. 3.17.11									
Note: For Band 13/17 ERP limit is 34.77dBm; For Band 26 limit is 50dBm									

Band GSM85 0 GPRS	High Frequency Substitution Measurement UL Verification Services, Inc. Chamber A																																																																																																		
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	Receiving: Hybrid T130, and Chamber A N-type Cable																																																																																																		
	Substitution: Dipole T273, 8ft SMA Cable Warehouse.																																																																																																		
	<table border="1"> <thead> <tr> <th>f MHz</th> <th>SG reading (dBm)</th> <th>Ant. Pol. (H/V)</th> <th>Cable Loss (dB)</th> <th>Antenna Gain (dBd)</th> <th>ERP (dBm)</th> <th>Limit (dBm)</th> <th>Margin (dB)</th> <th>Notes</th> </tr> </thead> <tbody> <tr> <td colspan="9">Low Ch</td> </tr> <tr> <td>824.20</td> <td>26.20</td> <td>V</td> <td>0.9</td> <td>0.0</td> <td>25.30</td> <td>38.5</td> <td>-13.1</td> <td></td> </tr> <tr> <td>824.20</td> <td>33.58</td> <td>H</td> <td>0.9</td> <td>0.0</td> <td>32.68</td> <td>38.5</td> <td>-5.8</td> <td></td> </tr> <tr> <td colspan="9">Mid Ch</td> </tr> <tr> <td>836.60</td> <td>25.62</td> <td>V</td> <td>0.9</td> <td>0.0</td> <td>24.72</td> <td>38.5</td> <td>-13.7</td> <td></td> </tr> <tr> <td>836.60</td> <td>33.60</td> <td>H</td> <td>0.9</td> <td>0.0</td> <td>32.70</td> <td>38.5</td> <td>-5.7</td> <td></td> </tr> <tr> <td colspan="9">High Ch</td> </tr> <tr> <td>848.80</td> <td>26.45</td> <td>V</td> <td>0.9</td> <td>0.0</td> <td>25.55</td> <td>38.5</td> <td>-12.9</td> <td></td> </tr> <tr> <td>848.80</td> <td>33.62</td> <td>H</td> <td>0.9</td> <td>0.0</td> <td>32.72</td> <td>38.5</td> <td>-5.7</td> <td></td> </tr> </tbody> </table>									f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Margin (dB)	Notes	Low Ch									824.20	26.20	V	0.9	0.0	25.30	38.5	-13.1		824.20	33.58	H	0.9	0.0	32.68	38.5	-5.8		Mid Ch									836.60	25.62	V	0.9	0.0	24.72	38.5	-13.7		836.60	33.60	H	0.9	0.0	32.70	38.5	-5.7		High Ch									848.80	26.45	V	0.9	0.0	25.55	38.5	-12.9		848.80	33.62	H	0.9	0.0	32.72	38.5	-5.7	
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Margin (dB)	Notes																																																																																										
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Rev. 3.17.11																																																																																																			
Note: For Band 13/17 ERP limit is 34.77dBm; For Band 26 limit is 50dBm																																																																																																			

11.2. FIELD STRENGTH OF SPURIOUS RADIATION

RULE PART(S)

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

LIMIT

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

TEST PROCEDURE

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

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

RESULTS

11.2.1. SPURIOUS RADIATION DATA

High Frequency Substitution Measurement UL Verification Services, Inc.										
Company:		Samsung								
Project #:		15I20033								
Date:		02/27/15								
Test Engineer:		O. Stoelting								
Configuration:		X-pos EUT w/ AC Charger + HS								
Mode:		LTE2_20M_16QAM								
Chamber		Pre-amplifier		Filter		Limit				
5m Chamber A		T343 8449B		Filter 1		Part 24				
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
LTE2 20MHz 16QAM	Low Ch, 1860MHz									
	3.720	-18.5	V	3.0	35.4	1.0	-52.9	-13.0	-39.9	
	5.580	-15.2	V	3.0	34.7	1.0	-49.0	-13.0	-36.0	
	7.440	-12.8	V	3.0	34.9	1.0	-46.7	-13.0	-33.7	
	3.720	-13.2	H	3.0	35.4	1.0	-47.5	-13.0	-34.5	
	5.580	-15.2	H	3.0	34.7	1.0	-48.9	-13.0	-35.9	
	7.440	-12.1	H	3.0	34.9	1.0	-46.0	-13.0	-33.0	
	Mid Ch, 1880.0MHz									
	3.760	-17.1	V	3.0	35.3	1.0	-51.4	-13.0	-38.4	
	5.640	-16.0	V	3.0	34.7	1.0	-49.7	-13.0	-36.7	
	7.520	-11.4	V	3.0	34.9	1.0	-45.4	-13.0	-32.4	
	3.760	-14.1	H	3.0	35.3	1.0	-48.5	-13.0	-35.5	
	5.640	-15.0	H	3.0	34.7	1.0	-48.8	-13.0	-35.8	
	7.520	-12.6	H	3.0	34.9	1.0	-46.5	-13.0	-33.5	
	High Ch, 1900 MHz									
	3.800	-14.5	V	3.0	35.3	1.0	-48.8	-13.0	-35.8	
	5.700	-15.4	V	3.0	34.7	1.0	-49.1	-13.0	-36.1	
	7.600	-13.9	V	3.0	34.9	1.0	-47.9	-13.0	-34.9	
	3.800	-15.3	H	3.0	35.3	1.0	-49.6	-13.0	-36.6	
	5.700	-15.0	H	3.0	34.7	1.0	-48.7	-13.0	-35.7	
	7.600	-12.5	H	3.0	34.9	1.0	-46.4	-13.0	-33.4	
Rev. 03.03.09										
Note: No other emissions were detected above the system noise floor.										

High Frequency Substitution Measurement UL Verification Services, Inc.										
		Company:	Samsung							
		Project #:	15I20033							
		Date:	02/27/15							
		Test Engineer:	O. Stoelting							
		Configuration:	X-pos EUT w/ AC Charger + HS							
		Mode:	LTE2_20M_QPSK							
		Chamber	Pre-amplifier		Filter	Limit				
		5m Chamber A	T343 8449B		Filter 1	Part 24				
Band	f	SG reading	Ant. Pol.	Distance	Preamp	Filter	EIRP	Limit	Delta	Notes
	GHz	(dBm)	(H/V)	(m)	(dB)	(dB)	(dBm)	(dBm)	(dB)	
	Low Ch, 1860MHz									
	3.720	-17.2	V	3.0	35.4	1.0	-51.6	-13.0	-38.6	
LTE2	5.580	-14.8	V	3.0	34.7	1.0	-48.5	-13.0	-35.5	
20MHz	7.440	-13.5	V	3.0	34.9	1.0	-47.4	-13.0	-34.4	
QPSK	3.720	-11.9	H	3.0	35.4	1.0	-46.3	-13.0	-33.3	
	5.580	-13.9	H	3.0	34.7	1.0	-47.6	-13.0	-34.6	
	7.440	-12.4	H	3.0	34.9	1.0	-46.3	-13.0	-33.3	
	Mid Ch, 1880.0MHz									
	3.760	-16.0	V	3.0	35.3	1.0	-50.3	-13.0	-37.3	
	5.640	-15.4	V	3.0	34.7	1.0	-49.1	-13.0	-36.1	
	7.520	-11.9	V	3.0	34.9	1.0	-45.9	-13.0	-32.9	
	3.760	-11.7	H	3.0	35.3	1.0	-46.0	-13.0	-33.0	
	5.640	-14.7	H	3.0	34.7	1.0	-48.4	-13.0	-35.4	
	7.520	-11.9	H	3.0	34.9	1.0	-45.9	-13.0	-32.9	
	High Ch, 1900 MHz									
	3.800	-13.4	V	3.0	35.3	1.0	-47.7	-13.0	-34.7	
	5.700	-15.0	V	3.0	34.7	1.0	-48.7	-13.0	-35.7	
	7.600	-13.1	V	3.0	34.9	1.0	-47.1	-13.0	-34.1	
	3.800	-11.2	H	3.0	35.3	1.0	-45.5	-13.0	-32.5	
	5.700	-14.7	H	3.0	34.7	1.0	-48.4	-13.0	-35.4	
	7.600	-12.3	H	3.0	34.9	1.0	-46.3	-13.0	-33.3	
Rev. 03.03.09										
Note: No other emissions were detected above the system noise floor.										

High Frequency Substitution Measurement UL Verification Services, Inc.										
Company:		Samsung								
Project #:		15I20033								
Date:		02/27/15								
Test Engineer:		O. Stoelting								
Configuration:		X-pos EUT w/ AC Charger + HS								
Mode:		LTE2_15M_16QAM								
Chamber		Pre-amplifier		Filter		Limit				
5m Chamber A		T343 8449B		Filter 1		Part 24				
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
LTE2 15MHz 16QAM	Low Ch, 1857.5MHz									
	3.715	-17.3	V	3.0	35.4	1.0	-51.7	-13.0	-38.7	
	5.572	-14.7	V	3.0	34.7	1.0	-48.4	-13.0	-35.4	
	7.424	-9.9	V	3.0	34.9	1.0	-43.8	-13.0	-30.8	
	3.715	-10.4	H	3.0	35.4	1.0	-44.8	-13.0	-31.8	
	5.572	-17.0	H	3.0	34.7	1.0	-50.7	-13.0	-37.7	
	7.424	-12.9	H	3.0	34.9	1.0	-46.8	-13.0	-33.8	
	Mid Ch, 1880.0MHz									
	3.760	-16.4	V	3.0	35.3	1.0	-50.7	-13.0	-37.7	
	5.640	-16.2	V	3.0	34.7	1.0	-49.9	-13.0	-36.9	
	7.520	-15.3	V	3.0	34.9	1.0	-49.3	-13.0	-36.3	
	3.760	-6.0	H	3.0	35.3	1.0	-40.3	-13.0	-27.3	
	5.640	-17.3	H	3.0	34.7	1.0	-51.0	-13.0	-38.0	
	7.520	-15.1	H	3.0	34.9	1.0	-49.0	-13.0	-36.0	
	High Ch, 1902.5 MHz									
	3.805	-10.3	V	3.0	35.3	1.0	-44.6	-13.0	-31.6	
	5.707	-15.2	V	3.0	34.7	1.0	-49.0	-13.0	-36.0	
	7.610	-12.1	V	3.0	34.9	1.0	-46.0	-13.0	-33.0	
3.805	-12.9	H	3.0	35.3	1.0	-47.2	-13.0	-34.2		
5.707	-14.8	H	3.0	34.7	1.0	-48.6	-13.0	-35.6		
7.610	-11.7	H	3.0	34.9	1.0	-45.7	-13.0	-32.7		
Rev. 03.03.09										
Note: No other emissions were detected above the system noise floor.										

High Frequency Substitution Measurement UL Verification Services, Inc.										
Company:		Samsung								
Project #:		15I20033								
Date:		02/27/15								
Test Engineer:		O. Stoelting								
Configuration:		X-pos EUT w/ AC Charger + HS								
Mode:		LTE2_15M_QPSK								
Chamber		Pre-amplifier			Filter		Limit			
5m Chamber A		T343 8449B			Filter 1		Part 24			
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
LTE2 15MHz QPSK	Low Ch, 1857.5MHz									
	3.715	-14.7	V	3.0	35.4	1.0	-49.0	-13.0	-36.0	
	5.572	-14.3	V	3.0	34.7	1.0	-48.0	-13.0	-35.0	
	7.424	-11.1	V	3.0	34.9	1.0	-45.0	-13.0	-32.0	
	3.715	-10.3	H	3.0	35.4	1.0	-44.7	-13.0	-31.7	
	5.572	-16.8	H	3.0	34.7	1.0	-50.5	-13.0	-37.5	
	7.424	-14.8	H	3.0	34.9	1.0	-48.7	-13.0	-35.7	
	Mid Ch, 1880.0MHz									
	3.760	-20.2	V	3.0	35.3	1.0	-54.5	-13.0	-41.5	
	5.640	-15.9	V	3.0	34.7	1.0	-49.6	-13.0	-36.6	
	7.520	-16.2	V	3.0	34.9	1.0	-50.2	-13.0	-37.2	
	3.760	-6.3	H	3.0	35.3	1.0	-40.6	-13.0	-27.6	
	5.640	-15.7	H	3.0	34.7	1.0	-49.4	-13.0	-36.4	
	7.520	-14.4	H	3.0	34.9	1.0	-48.4	-13.0	-35.4	
	High Ch, 1902.5 MHz									
3.805	-10.6	V	3.0	35.3	1.0	-44.9	-13.0	-31.9		
5.707	-14.8	V	3.0	34.7	1.0	-48.5	-13.0	-35.5		
7.610	-13.3	V	3.0	34.9	1.0	-47.2	-13.0	-34.2		
3.805	-14.8	H	3.0	35.3	1.0	-49.1	-13.0	-36.1		
5.707	-14.5	H	3.0	34.7	1.0	-48.3	-13.0	-35.3		
7.610	-12.0	H	3.0	34.9	1.0	-46.0	-13.0	-33.0		
Rev. 03.03.09										
Note: No other emissions were detected above the system noise floor.										

High Frequency Substitution Measurement UL Verification Services, Inc.											
Company:		Samsung									
Project #:		15I20033									
Date:		02/27/15									
Test Engineer:		O. Stoelting									
Configuration:		X-pos EUT w/ AC Charger + HS									
Mode:		LTE2_10M_16QAM									
		Chamber		Pre-amplifier		Filter		Limit			
		5m Chamber A		T343 8449B		Filter 1		Part 24			
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	
LTE2 10MHz 16QAM	Low Ch, 1855.0MHz										
	3.710	-17.4	V	3.0	35.4	1.0	-51.8	-13.0	-38.8		
	5.565	-17.9	V	3.0	34.7	1.0	-51.6	-13.0	-38.6		
	7.420	-14.3	V	3.0	34.9	1.0	-48.2	-13.0	-35.2		
	3.710	-19.7	H	3.0	35.4	1.0	-54.1	-13.0	-41.1		
	5.565	-15.7	H	3.0	34.7	1.0	-49.5	-13.0	-36.5		
	7.420	-13.9	H	3.0	34.9	1.0	-47.8	-13.0	-34.8		
	Mid Ch, 1880.0MHz										
	3.760	-15.2	V	3.0	35.3	1.0	-49.6	-13.0	-36.6		
5.640	-18.1	V	3.0	34.7	1.0	-51.8	-13.0	-38.8			
7.520	-16.6	V	3.0	34.9	1.0	-50.5	-13.0	-37.5			
3.760	-14.0	H	3.0	35.3	1.0	-48.3	-13.0	-35.3			
5.640	-17.3	H	3.0	34.7	1.0	-51.1	-13.0	-38.1			
7.520	-15.0	H	3.0	34.9	1.0	-49.0	-13.0	-36.0			
High Ch, 1905 MHz											
3.810	-15.5	V	3.0	35.3	1.0	-49.8	-13.0	-36.8			
5.715	-17.4	V	3.0	34.7	1.0	-51.2	-13.0	-38.2			
7.620	-15.8	V	3.0	34.9	1.0	-49.8	-13.0	-36.8			
3.810	-18.0	H	3.0	35.3	1.0	-52.3	-13.0	-39.3			
5.715	-16.6	H	3.0	34.7	1.0	-50.4	-13.0	-37.4			
7.620	-14.7	H	3.0	34.9	1.0	-48.6	-13.0	-35.6			
Rev. 03.03.09											
Note: No other emissions were detected above the system noise floor.											

High Frequency Substitution Measurement UL Verification Services, Inc.										
Company:		Samsung								
Project #:		15I20033								
Date:		02/27/15								
Test Engineer:		O. Stoelting								
Configuration:		X-pos EUT w/ AC Charger + HS								
Mode:		LTE2_10M_QPSK								
Chamber		Pre-amplifier			Filter		Limit			
5m Chamber A		T343 8449B			Filter 1		Part 22			
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
LTE2 10MHz QPSK	Low Ch, 1855.0MHz									
	3.710	-16.1	V	3.0	35.4	1.0	-50.5	-13.0	-37.5	
	5.565	-17.4	V	3.0	34.7	1.0	-51.1	-13.0	-38.1	
	7.420	-9.9	V	3.0	34.9	1.0	-43.8	-13.0	-30.8	
	3.710	-19.0	H	3.0	35.4	1.0	-53.3	-13.0	-40.3	
	5.565	-17.6	H	3.0	34.7	1.0	-51.3	-13.0	-38.3	
	7.420	-14.7	H	3.0	34.9	1.0	-48.6	-13.0	-35.6	
	Mid Ch, 1880.0MHz									
	3.760	-16.7	V	3.0	35.3	1.0	-51.0	-13.0	-38.0	
	5.640	-16.0	V	3.0	34.7	1.0	-49.8	-13.0	-36.8	
	7.520	-15.5	V	3.0	34.9	1.0	-49.4	-13.0	-36.4	
	3.760	-14.5	H	3.0	35.3	1.0	-48.8	-13.0	-35.8	
	5.640	-17.6	H	3.0	34.7	1.0	-51.4	-13.0	-38.4	
	7.520	-14.5	H	3.0	34.9	1.0	-48.4	-13.0	-35.4	
	High Ch, 1905 MHz									
	3.810	-17.1	V	3.0	35.3	1.0	-51.4	-13.0	-38.4	
	5.715	-17.7	V	3.0	34.7	1.0	-51.4	-13.0	-38.4	
	7.620	-14.6	V	3.0	34.9	1.0	-48.5	-13.0	-35.5	
3.810	-19.0	H	3.0	35.3	1.0	-53.3	-13.0	-40.3		
5.715	-16.8	H	3.0	34.7	1.0	-50.5	-13.0	-37.5		
7.620	-14.0	H	3.0	34.9	1.0	-48.0	-13.0	-35.0		
Rev. 03.03.09										
Note: No other emissions were detected above the system noise floor.										

High Frequency Substitution Measurement UL Verification Services, Inc.										
Company:		Samsung								
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Mode:		LTE2_5M_16QAM								
Chamber		Pre-amplifier		Filter		Limit				
5m Chamber A		T343 8449B		Filter 1		Part 24				
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
LTE2 5MHz 16QAM	Low Ch, 1852.5MHz									
	3.705	-20.6	V	3.0	35.4	1.0	-55.0	-13.0	-42.0	
	5.557	-17.6	V	3.0	34.7	1.0	-51.3	-13.0	-38.3	
	7.410	-14.8	V	3.0	34.9	1.0	-48.7	-13.0	-35.7	
	3.705	-12.8	H	3.0	35.4	1.0	-47.2	-13.0	-34.2	
	5.557	-17.7	H	3.0	34.7	1.0	-51.4	-13.0	-38.4	
	7.410	-14.2	H	3.0	34.9	1.0	-48.2	-13.0	-35.2	
	Mid Ch, 1880.0MHz									
	3.760	-14.2	V	3.0	35.3	1.0	-48.5	-13.0	-35.5	
	5.640	-17.8	V	3.0	34.7	1.0	-51.5	-13.0	-38.5	
	7.520	-13.5	V	3.0	34.9	1.0	-47.4	-13.0	-34.4	
	3.760	-9.8	H	3.0	35.3	1.0	-44.1	-13.0	-31.1	
	5.640	-18.1	H	3.0	34.7	1.0	-51.8	-13.0	-38.8	
	7.520	-15.5	H	3.0	34.9	1.0	-49.4	-13.0	-36.4	
	High Ch, 1907.5 MHz									
	3.815	-10.7	V	3.0	35.3	1.0	-45.0	-13.0	-32.0	
	5.722	-16.4	V	3.0	34.7	1.0	-50.2	-13.0	-37.2	
	7.630	-15.0	V	3.0	34.9	1.0	-49.0	-13.0	-36.0	
3.815	-12.0	H	3.0	35.3	1.0	-46.3	-13.0	-33.3		
5.722	-17.6	H	3.0	34.7	1.0	-51.3	-13.0	-38.3		
7.630	-14.8	H	3.0	34.9	1.0	-48.8	-13.0	-35.8		
Rev. 03.03.09										
Note: No other emissions were detected above the system noise floor.										

High Frequency Substitution Measurement UL Verification Services, Inc.											
Company:		Samsung									
Project #:		15I20033									
Date:		02/27/15									
Test Engineer:		O. Stoelting									
Configuration:		X-pos EUT w/ AC Charger + HS									
Mode:		LTE2_5M_QPSK									
Chamber		Pre-amplifier			Filter			Limit			
5m Chamber A		T343 8449B			Filter 1			Part 24			
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	
LTE2 5MHz QPSK	Low Ch, 1852.5MHz										
	3.705	-18.9	V	3.0	35.4	1.0	-53.3	-13.0	-40.3		
	5.557	-18.0	V	3.0	34.7	1.0	-51.7	-13.0	-38.7		
	7.410	-14.3	V	3.0	34.9	1.0	-48.2	-13.0	-35.2		
	3.705	-12.5	H	3.0	35.4	1.0	-46.9	-13.0	-33.9		
	5.557	-17.0	H	3.0	34.7	1.0	-50.7	-13.0	-37.7		
	7.410	-15.7	H	3.0	34.9	1.0	-49.6	-13.0	-36.6		
	Mid Ch, 1880.0MHz										
	3.760	-12.9	V	3.0	35.3	1.0	-47.3	-13.0	-34.3		
5.640	-17.6	V	3.0	34.7	1.0	-51.3	-13.0	-38.3			
7.520	-13.8	V	3.0	34.9	1.0	-47.7	-13.0	-34.7			
3.760	-13.8	H	3.0	35.3	1.0	-48.1	-13.0	-35.1			
5.640	-17.3	H	3.0	34.7	1.0	-51.1	-13.0	-38.1			
7.520	-14.6	H	3.0	34.9	1.0	-48.5	-13.0	-35.5			
High Ch, 1907.5 MHz											
3.815	-11.0	V	3.0	35.3	1.0	-45.3	-13.0	-32.3			
5.722	-16.8	V	3.0	34.7	1.0	-50.5	-13.0	-37.5			
7.630	-16.0	V	3.0	34.9	1.0	-50.0	-13.0	-37.0			
3.815	-11.7	H	3.0	35.3	1.0	-46.0	-13.0	-33.0			
5.722	-16.6	H	3.0	34.7	1.0	-50.4	-13.0	-37.4			
7.630	-13.9	H	3.0	34.9	1.0	-47.9	-13.0	-34.9			
Rev. 03.03.09											
Note: No other emissions were detected above the system noise floor.											

High Frequency Substitution Measurement UL Verification Services, Inc.										
Company:		Samsung								
Project #:		15I20033								
Date:		02/27/15								
Test Engineer:		O. Stoelting								
Configuration:		X-pos EUT w/ AC Charger + HS								
Mode:		LTE2_3M_HARM_16QAM								
Chamber		Pre-amplifier			Filter		Limit			
5m Chamber A		T343 8449B			Filter 1		Part 24			
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
LTE2	Low Ch, 1851.5MHz									
3MHz	3.703	-14.6	V	3.0	35.4	1.0	-49.0	-13.0	-36.0	
	5.554	-18.4	V	3.0	34.7	1.0	-52.1	-13.0	-39.1	
	7.406	-14.6	V	3.0	34.9	1.0	-48.5	-13.0	-35.5	
16QAM	3.703	-19.6	H	3.0	35.4	1.0	-54.0	-13.0	-41.0	
	5.554	-16.8	H	3.0	34.7	1.0	-50.6	-13.0	-37.6	
	7.406	-14.7	H	3.0	34.9	1.0	-48.7	-13.0	-35.7	
	Mid Ch, 1880.0MHz									
	3.760	-12.3	V	3.0	35.3	1.0	-46.7	-13.0	-33.7	
	5.640	-17.7	V	3.0	34.7	1.0	-51.5	-13.0	-38.5	
	7.520	-16.4	V	3.0	34.9	1.0	-50.3	-13.0	-37.3	
	3.760	-9.3	H	3.0	35.3	1.0	-43.6	-13.0	-30.6	
	5.640	-17.5	H	3.0	34.7	1.0	-51.2	-13.0	-38.2	
	7.520	-14.8	H	3.0	34.9	1.0	-48.7	-13.0	-35.7	
	High Ch, 1908.5 MHz									
	3.817	-14.9	V	3.0	35.3	1.0	-49.2	-13.0	-36.2	
	5.725	-16.8	V	3.0	34.7	1.0	-50.5	-13.0	-37.5	
	7.634	-10.0	V	3.0	34.9	1.0	-44.0	-13.0	-31.0	
	3.817	-9.9	H	3.0	35.3	1.0	-44.2	-13.0	-31.2	
	5.725	-16.1	H	3.0	34.7	1.0	-49.8	-13.0	-36.8	
	7.634	-13.7	H	3.0	34.9	1.0	-47.7	-13.0	-34.7	
Rev. 03.03.09										
Note: No other emissions were detected above the system noise floor.										

High Frequency Substitution Measurement UL Verification Services, Inc.										
Company:		Samsung								
Project #:		15I20033								
Date:		02/27/15								
Test Engineer:		O. Stoelting								
Configuration:		X-pos EUT w/ AC Charger + HS								
Mode:		LTE2_3M_HARM_QPSK								
Chamber		Pre-amplifer		Filter		Limit				
5m Chamber A		T343 8449B		Filter 1		Part 24				
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
LTE2 3MHz QPSK	Low Ch, 1851.5MHz									
	3.703	-15.4	V	3.0	35.4	1.0	-49.8	-13.0	-36.8	
	5.554	-17.6	V	3.0	34.7	1.0	-51.3	-13.0	-38.3	
	7.406	-15.6	V	3.0	34.9	1.0	-49.5	-13.0	-36.5	
	3.703	-18.2	H	3.0	35.4	1.0	-52.6	-13.0	-39.6	
	5.554	-17.2	H	3.0	34.7	1.0	-50.9	-13.0	-37.9	
	7.406	-14.9	H	3.0	34.9	1.0	-48.8	-13.0	-35.8	
	Mid Ch, 1880.0MHz									
	3.760	-13.0	V	3.0	35.3	1.0	-47.4	-13.0	-34.4	
	5.640	-16.8	V	3.0	34.7	1.0	-50.5	-13.0	-37.5	
	7.520	-16.4	V	3.0	34.9	1.0	-50.4	-13.0	-37.4	
	3.760	-12.3	H	3.0	35.3	1.0	-46.7	-13.0	-33.7	
5.640	-17.2	H	3.0	34.7	1.0	-50.9	-13.0	-37.9		
7.520	-14.2	H	3.0	34.9	1.0	-48.2	-13.0	-35.2		
High Ch, 1908.5 MHz										
3.817	-16.6	V	3.0	35.3	1.0	-50.8	-13.0	-37.8		
5.725	-17.5	V	3.0	34.7	1.0	-51.2	-13.0	-38.2		
7.634	-10.9	V	3.0	34.9	1.0	-44.9	-13.0	-31.9		
3.817	-9.9	H	3.0	35.3	1.0	-44.2	-13.0	-31.2		
5.725	-16.8	H	3.0	34.7	1.0	-50.5	-13.0	-37.5		
7.634	-14.6	H	3.0	34.9	1.0	-48.6	-13.0	-35.6		
Rev. 03.03.09										
Note: No other emissions were detected above the system noise floor.										

High Frequency Substitution Measurement UL Verification Services, Inc.										
Company:		Samsung								
Project #:		15I20033								
Date:		02/27/15								
Test Engineer:		O. Stoelting								
Configuration:		X-pos EUT w/ AC Charger + HS								
Mode:		LTE2_1.4M_HARM_16QAM								
Chamber		Pre-amplifier			Filter		Limit			
5m Chamber A		T3438449B			Filter 1		Part 24			
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
LTE2	Low Ch, 1850.7MHz									
	3.701	-13.2	V	3.0	35.4	1.0	-47.6	-13.0	-34.6	
1.4MHz	5.552	-15.1	V	3.0	34.7	1.0	-48.8	-13.0	-35.8	
	7.403	-12.9	V	3.0	34.9	1.0	-46.8	-13.0	-33.8	
16QAM	3.701	-7.5	H	3.0	35.4	1.0	-41.9	-13.0	-28.9	
	5.552	-16.6	H	3.0	34.7	1.0	-50.3	-13.0	-37.3	
	7.403	-15.0	H	3.0	34.9	1.0	-48.9	-13.0	-35.9	
	Mid Ch, 1880.0MHz									
	3.760	-14.4	V	3.0	35.3	1.0	-48.7	-13.0	-35.7	
	5.640	-17.9	V	3.0	34.7	1.0	-51.6	-13.0	-38.6	
	7.520	-15.6	V	3.0	34.9	1.0	-49.5	-13.0	-36.5	
	3.760	-6.5	H	3.0	35.3	1.0	-40.9	-13.0	-27.9	
	5.640	-17.2	H	3.0	34.7	1.0	-51.0	-13.0	-38.0	
	7.520	-13.8	H	3.0	34.9	1.0	-47.8	-13.0	-34.8	
	High Ch, 1909.3 MHz									
	3.819	-16.1	V	3.0	35.3	1.0	-50.4	-13.0	-37.4	
	5.728	-17.4	V	3.0	34.7	1.0	-51.2	-13.0	-38.2	
	7.637	-13.1	V	3.0	35.0	1.0	-47.0	-13.0	-34.0	
	3.819	-9.5	H	3.0	35.3	1.0	-43.8	-13.0	-30.8	
	5.728	-17.7	H	3.0	34.7	1.0	-51.4	-13.0	-38.4	
	7.637	-13.3	H	3.0	35.0	1.0	-47.2	-13.0	-34.2	
Rev. 03.03.09										
Note: No other emissions were detected above the system noise floor.										

High Frequency Substitution Measurement UL Verification Services, Inc.										
Company:		Samsung								
Project #:		15I20033								
Date:		02/27/15								
Test Engineer:		O. Stoelting								
Configuration:		X-pos EUT w/ AC Charger + HS								
Mode:		LTE2_1.4M_HARM_QPSK								
Chamber		Pre-amplifier			Filter		Limit			
5m Chamber A		T343 8449B			Filter 1		Part 24			
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
LTE2 1.4MHz QPSK	Low Ch, 1850.7MHz									
	3.701	-15.7	V	3.0	35.4	1.0	-50.1	-13.0	-37.1	
	5.552	-16.6	V	3.0	34.7	1.0	-50.4	-13.0	-37.4	
	7.403	-14.9	V	3.0	34.9	1.0	-48.8	-13.0	-35.8	
	3.701	-12.5	H	3.0	35.4	1.0	-46.9	-13.0	-33.9	
	5.552	-18.4	H	3.0	34.7	1.0	-52.1	-13.0	-39.1	
	7.403	-15.1	H	3.0	34.9	1.0	-49.0	-13.0	-36.0	
	Mid Ch, 1880.0MHz									
	3.760	-14.6	V	3.0	35.3	1.0	-48.9	-13.0	-35.9	
	5.640	-17.9	V	3.0	34.7	1.0	-51.6	-13.0	-38.6	
	7.520	-15.2	V	3.0	34.9	1.0	-49.1	-13.0	-36.1	
	3.760	-10.9	H	3.0	35.3	1.0	-45.2	-13.0	-32.2	
	5.640	-17.1	H	3.0	34.7	1.0	-50.9	-13.0	-37.9	
	7.520	-15.0	H	3.0	34.9	1.0	-49.0	-13.0	-36.0	
	High Ch, 1909.3 MHz									
	3.819	-15.3	V	3.0	35.3	1.0	-49.5	-13.0	-36.5	
	5.728	-17.1	V	3.0	34.7	1.0	-50.9	-13.0	-37.9	
	7.637	-15.3	V	3.0	35.0	1.0	-49.2	-13.0	-36.2	
3.819	-9.9	H	3.0	35.3	1.0	-44.1	-13.0	-31.1		
5.728	-17.6	H	3.0	34.7	1.0	-51.3	-13.0	-38.3		
7.637	-14.5	H	3.0	35.0	1.0	-48.4	-13.0	-35.4		
Rev. 03.03.09										
Note: No other emissions were detected above the system noise floor.										

Compliance Certification Services									
Above 1GHz High Frequency Substitution Measurement									
Company:		Samsung							
Project #:		15I20033							
Date:		3/3/2015							
Test Engineer:		Jude Semana							
Configuration:		EUT , AC Adapter, Headset, X Position							
Location:		Chamber G							
Mode:		LTE_16QAM Band 4 Harmonics, 20MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band									
Low Ch, 1720									
3440.00	-16.5	V	3.0	36.0	1.0	-51.6	-13.0	-38.6	
5160.00	-13.8	V	3.0	35.4	1.0	-48.2	-13.0	-35.2	
6880.00	-12.9	V	3.0	35.7	1.0	-47.5	-13.0	-34.5	
20MHz									
3440.00	-16.8	H	3.0	36.0	1.0	-51.8	-13.0	-38.8	
5160.00	-12.9	H	3.0	35.4	1.0	-47.3	-13.0	-34.3	
6880.00	-11.1	H	3.0	35.7	1.0	-45.7	-13.0	-32.7	
16QAM									
Mid Ch, 1732.5									
3465.00	-16.5	V	3.0	36.0	1.0	-51.5	-13.0	-38.5	
5197.50	-13.7	V	3.0	35.4	1.0	-48.1	-13.0	-35.1	
6930.00	-12.6	V	3.0	35.7	1.0	-47.2	-13.0	-34.2	
3465.00	-17.0	H	3.0	36.0	1.0	-52.1	-13.0	-39.1	
5197.50	-12.5	H	3.0	35.4	1.0	-46.9	-13.0	-33.9	
6930.00	-11.5	H	3.0	35.7	1.0	-46.2	-13.0	-33.2	
High Ch, 1745									
3490.00	-16.7	V	3.0	36.0	1.0	-51.7	-13.0	-38.7	
5235.00	-13.5	V	3.0	35.4	1.0	-47.9	-13.0	-34.9	
6980.00	-12.5	V	3.0	35.7	1.0	-47.2	-13.0	-34.2	
3490.00	-16.9	H	3.0	36.0	1.0	-51.9	-13.0	-38.9	
5235.00	-12.4	H	3.0	35.4	1.0	-46.8	-13.0	-33.8	
6980.00	-11.9	H	3.0	35.7	1.0	-46.5	-13.0	-33.5	

Compliance Certification Services										
Above 1GHz High Frequency Substitution Measurement										
Company:		Samsung								
Project #:		15I20033								
Date:		3/3/2015								
Test Engineer:		Jude Semana								
Configuration:		EUT , AC Adapter, Headset, X Position								
Location:		Chamber G								
Mode:		LTE_QPSK Band 4 Harmonics, 20MHz Bandwidth								
Band	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 1720									
	3440.00	-16.3	V	3.0	36.0	1.0	-51.3	-13.0	-38.3	
LTE4	5160.00	-13.6	V	3.0	35.4	1.0	-48.1	-13.0	-35.1	
	6880.00	-12.2	V	3.0	35.7	1.0	-46.9	-13.0	-33.9	
20MHz	3440.00	-17.0	H	3.0	36.0	1.0	-52.0	-13.0	-39.0	
	5160.00	-13.0	H	3.0	35.4	1.0	-47.4	-13.0	-34.4	
QPSK	6880.00	-11.0	H	3.0	35.7	1.0	-45.7	-13.0	-32.7	
	Mid Ch, 1732.5									
	3465.00	-17.4	V	3.0	36.0	1.0	-52.4	-13.0	-39.4	
	5197.50	-13.6	V	3.0	35.4	1.0	-48.1	-13.0	-35.1	
	6930.00	-13.2	V	3.0	35.7	1.0	-47.8	-13.0	-34.8	
	3465.00	-16.7	H	3.0	36.0	1.0	-51.7	-13.0	-38.7	
	5197.50	-12.4	H	3.0	35.4	1.0	-46.8	-13.0	-33.8	
	6930.00	-11.4	H	3.0	35.7	1.0	-46.0	-13.0	-33.0	
	High Ch, 1745									
	3490.00	-17.1	V	3.0	36.0	1.0	-52.1	-13.0	-39.1	
	5235.00	-12.7	V	3.0	35.4	1.0	-47.1	-13.0	-34.1	
	6980.00	-13.2	V	3.0	35.7	1.0	-47.9	-13.0	-34.9	
	3490.00	-16.1	H	3.0	36.0	1.0	-51.2	-13.0	-38.2	
	5235.00	-12.6	H	3.0	35.4	1.0	-47.0	-13.0	-34.0	
	6980.00	-10.9	H	3.0	35.7	1.0	-45.6	-13.0	-32.6	

Compliance Certification Services									
Above 1GHz High Frequency Substitution Measurement									
Company:		Samsung							
Project #:		15I20033							
Date:		3/3/2015							
Test Engineer:		Jude Semana							
Configuration:		EUT , AC Adapter, Headset, X Position							
Location:		Chamber G							
Mode:		LTE_16QAM Band 4 Harmonics, 15MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band									
Low Ch, 1717.5									
LTE4	3435.00	-16.7	V	3.0	36.1	1.0	-51.7	-13.0	-38.7
	5152.50	-12.9	V	3.0	35.4	1.0	-47.4	-13.0	-34.4
	6870.00	-11.7	V	3.0	35.7	1.0	-46.4	-13.0	-33.4
15MHz	3435.00	-16.8	H	3.0	36.1	1.0	-51.8	-13.0	-38.8
	5152.50	-11.4	H	3.0	35.4	1.0	-45.9	-13.0	-32.9
16QAM	6870.00	0.0	H	3.0	35.7	1.0	-34.7	-13.0	-21.7
Mid Ch, 1732.5									
	3465.00	-16.0	V	3.0	36.0	1.0	-51.0	-13.0	-38.0
	5197.50	-13.5	V	3.0	35.4	1.0	-47.9	-13.0	-34.9
	6930.00	-12.4	V	3.0	35.7	1.0	-47.1	-13.0	-34.1
	3465.00	-15.8	H	3.0	36.0	1.0	-50.8	-13.0	-37.8
	5197.50	-13.3	H	3.0	35.4	1.0	-47.7	-13.0	-34.7
	6930.00	-11.0	H	3.0	35.7	1.0	-45.7	-13.0	-32.7
High Ch, 1747.5									
	3495.00	-16.1	V	3.0	36.0	1.0	-51.1	-13.0	-38.1
	5242.50	-13.6	V	3.0	35.4	1.0	-48.0	-13.0	-35.0
	6990.00	-12.4	V	3.0	35.7	1.0	-47.1	-13.0	-34.1
	3495.00	-16.7	H	3.0	36.0	1.0	-51.7	-13.0	-38.7
	5242.50	-12.9	H	3.0	35.4	1.0	-47.4	-13.0	-34.4
	6990.00	-11.0	H	3.0	35.7	1.0	-45.7	-13.0	-32.7

Compliance Certification Services											
Above 1GHz High Frequency Substitution Measurement											
Company:		Samsung									
Project #:		15I20033									
Date:		3/3/2015									
Test Engineer:		Jude Semana									
Configuration:		EUT , AC Adapter, Headset, X Position									
Location:		Chamber G									
Mode:		LTE_QPSK Band 4 Harmonics, 15MHz Bandwidth									
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	
Band	Low Ch, 1717.5										
	LTE4	3435.00	-16.1	V	3.0	36.1	1.0	-51.1	-13.0	-38.1	
		5152.50	-13.6	V	3.0	35.4	1.0	-48.1	-13.0	-35.1	
15MHz		6870.00	-12.1	V	3.0	35.7	1.0	-46.7	-13.0	-33.7	
		3435.00	-16.4	H	3.0	36.1	1.0	-51.4	-13.0	-38.4	
		5152.50	-12.6	H	3.0	35.4	1.0	-47.0	-13.0	-34.0	
QPSK		6870.00	-9.7	H	3.0	35.7	1.0	-44.3	-13.0	-31.3	
	Mid Ch, 1732.5										
		3465.00	-16.8	V	3.0	36.0	1.0	-51.8	-13.0	-38.8	
	5197.50	-13.3	V	3.0	35.4	1.0	-47.7	-13.0	-34.7		
	6930.00	-11.3	V	3.0	35.7	1.0	-46.0	-13.0	-33.0		
	3465.00	-16.5	H	3.0	36.0	1.0	-51.5	-13.0	-38.5		
	5197.50	-12.9	H	3.0	35.4	1.0	-47.3	-13.0	-34.3		
	6930.00	-10.0	H	3.0	35.7	1.0	-44.7	-13.0	-31.7		
High Ch, 1747.5											
	3495.00	-16.7	V	3.0	36.0	1.0	-51.7	-13.0	-38.7		
	5242.50	-13.4	V	3.0	35.4	1.0	-47.8	-13.0	-34.8		
	6990.00	-12.3	V	3.0	35.7	1.0	-47.0	-13.0	-34.0		
	3495.00	-16.1	H	3.0	36.0	1.0	-51.1	-13.0	-38.1		
	5242.50	-12.7	H	3.0	35.4	1.0	-47.2	-13.0	-34.2		
	6990.00	-10.9	H	3.0	35.7	1.0	-45.6	-13.0	-32.6		

Compliance Certification Services									
Above 1GHz High Frequency Substitution Measurement									
Configuration:		Samsung							
Project #:		15I20033							
Date:		3/3/2015							
Test Engineer:		Jude Semana							
Configuration:		EUT , AC Adapter, Headset, X Position							
Location:		Chamber G							
Mode:		LTE_16QAM Band 4 Harmonics, 10MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band									
LTE4									
10MHz									
16QAM									
Low Ch, 1715									
3430.00	-17.2	V	3.0	36.1	1.0	-52.2	-13.0	-39.2	
5145.00	-13.2	V	3.0	35.4	1.0	-47.7	-13.0	-34.7	
6860.00	-12.7	V	3.0	35.7	1.0	-47.4	-13.0	-34.4	
3430.00	-17.4	H	3.0	36.1	1.0	-52.4	-13.0	-39.4	
5145.00	-13.6	H	3.0	35.4	1.0	-48.0	-13.0	-35.0	
6860.00	-11.6	H	3.0	35.7	1.0	-46.3	-13.0	-33.3	
Mid Ch, 1732.5									
3465.00	-16.8	V	3.0	36.0	1.0	-51.8	-13.0	-38.8	
5197.50	-13.6	V	3.0	35.4	1.0	-48.1	-13.0	-35.1	
6930.00	-12.4	V	3.0	35.7	1.0	-47.1	-13.0	-34.1	
3465.00	-16.6	H	3.0	36.0	1.0	-51.6	-13.0	-38.6	
5197.50	-13.2	H	3.0	35.4	1.0	-47.6	-13.0	-34.6	
6930.00	-11.4	H	3.0	35.7	1.0	-46.1	-13.0	-33.1	
High Ch, 1750									
3500.00	-16.7	V	3.0	36.0	1.0	-51.7	-13.0	-38.7	
5250.00	-13.4	V	3.0	35.4	1.0	-47.8	-13.0	-34.8	
7000.00	-12.4	V	3.0	35.7	1.0	-47.1	-13.0	-34.1	
3500.00	-17.2	H	3.0	36.0	1.0	-52.2	-13.0	-39.2	
5250.00	-11.7	H	3.0	35.4	1.0	-46.2	-13.0	-33.2	
7000.00	-11.5	H	3.0	35.7	1.0	-46.2	-13.0	-33.2	

Compliance Certification Services											
Above 1GHz High Frequency Substitution Measurement											
Configuration:		Samsung									
Project #:		15I20033									
Date:		3/3/2015									
Test Engineer:		Jude Semana									
Configuration:		EUT , AC Adapter, Headset, X Position									
Location:		Chamber G									
Mode:		LTE_QPSK Band 4 Harmonics, 10MHz Bandwidth									
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	
Band LTE4 10MHz QPSK	Low Ch, 1715										
		3430.00	-17.1	V	3.0	36.1	1.0	-52.2	-13.0	-39.2	
		5145.00	-13.9	V	3.0	35.4	1.0	-48.3	-13.0	-35.3	
		6860.00	-12.8	V	3.0	35.7	1.0	-47.4	-13.0	-34.4	
		3430.00	-17.1	H	3.0	36.1	1.0	-52.2	-13.0	-39.2	
		5145.00	-13.5	H	3.0	35.4	1.0	-47.9	-13.0	-34.9	
		6860.00	-11.2	H	3.0	35.7	1.0	-45.8	-13.0	-32.8	
		Mid Ch, 1732.5									
		3465.00	-16.4	V	3.0	36.0	1.0	-51.4	-13.0	-38.4	
		5197.50	-13.9	V	3.0	35.4	1.0	-48.3	-13.0	-35.3	
		6930.00	-14.2	V	3.0	35.7	1.0	-48.9	-13.0	-35.9	
		3465.00	-16.6	H	3.0	36.0	1.0	-51.6	-13.0	-38.6	
		5197.50	-13.0	H	3.0	35.4	1.0	-47.4	-13.0	-34.4	
		6930.00	-11.8	H	3.0	35.7	1.0	-46.5	-13.0	-33.5	
		High Ch, 1750									
		3500.00	-16.9	V	3.0	36.0	1.0	-51.9	-13.0	-38.9	
		5250.00	-13.5	V	3.0	35.4	1.0	-47.9	-13.0	-34.9	
		7000.00	-13.2	V	3.0	35.7	1.0	-47.8	-13.0	-34.8	
	3500.00	-16.2	H	3.0	36.0	1.0	-51.2	-13.0	-38.2		
	5250.00	-13.1	H	3.0	35.4	1.0	-47.5	-13.0	-34.5		
	7000.00	-11.1	H	3.0	35.7	1.0	-45.7	-13.0	-32.7		

Compliance Certification Services									
Above 1GHz High Frequency Substitution Measurement									
Company:		Samsung							
Project #:		15I20033							
Date:		3/3/2015							
Test Engineer:		Jude Semana							
Configuration:		EUT , AC Adapter, Headset, X Position							
Location:		Chamber G							
Mode:		LTE_16QAM Band 4 Harmonics, 5MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band									
Low Ch, 1712.5									
	3425.00	-15.2	V	3.0	36.1	1.0	-50.2	-13.0	-37.2
LTE4	5137.50	-14.2	V	3.0	35.4	1.0	-48.6	-13.0	-35.6
	6850.00	-12.8	V	3.0	35.7	1.0	-47.5	-13.0	-34.5
5MHz	3425.00	-12.8	H	3.0	36.1	1.0	-47.8	-13.0	-34.8
	5137.50	-13.4	H	3.0	35.4	1.0	-47.8	-13.0	-34.8
16QAM	6850.00	-11.2	H	3.0	35.7	1.0	-45.9	-13.0	-32.9
Mid Ch, 1732.5									
	3465.00	-16.6	V	3.0	36.0	1.0	-51.6	-13.0	-38.6
	5197.50	-13.3	V	3.0	35.4	1.0	-47.7	-13.0	-34.7
	6930.00	-13.1	V	3.0	35.7	1.0	-47.8	-13.0	-34.8
	3465.00	-14.2	H	3.0	36.0	1.0	-49.3	-13.0	-36.3
	5197.50	-13.0	H	3.0	35.4	1.0	-47.5	-13.0	-34.5
	6930.00	-11.5	H	3.0	35.7	1.0	-46.2	-13.0	-33.2
High Ch, 1752.5									
	3505.00	-17.0	V	3.0	36.0	1.0	-52.0	-13.0	-39.0
	5257.50	-14.0	V	3.0	35.4	1.0	-48.4	-13.0	-35.4
	7010.00	-13.2	V	3.0	35.7	1.0	-47.8	-13.0	-34.8
	3505.00	-13.9	H	3.0	36.0	1.0	-48.9	-13.0	-35.9
	5257.50	-12.9	H	3.0	35.4	1.0	-47.4	-13.0	-34.4
	7010.00	-11.0	H	3.0	35.7	1.0	-45.7	-13.0	-32.7

Compliance Certification Services									
Above 1GHz High Frequency Substitution Measurement									
Company:		Samsung							
Project #:		15I20033							
Date:		3/3/2015							
Test Engineer:		Jude Semana							
Configuration:		EUT , AC Adapter, Headset, X Position							
Location:		Chamber G							
Mode:		LTE_QPSK Band 4 Harmonics, 5MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band									
Low Ch, 1712.5									
3425.00	-14.4	V	3.0	36.1	1.0	-49.5	-13.0	-36.5	
LTE4									
5137.50	-13.7	V	3.0	35.4	1.0	-48.2	-13.0	-35.2	
6850.00	-12.8	V	3.0	35.7	1.0	-47.5	-13.0	-34.5	
5MHz									
3425.00	-13.8	H	3.0	36.1	1.0	-48.9	-13.0	-35.9	
5137.50	-13.6	H	3.0	35.4	1.0	-48.0	-13.0	-35.0	
6850.00	-10.5	H	3.0	35.7	1.0	-45.2	-13.0	-32.2	
QPSK									
Mid Ch, 1732.5									
3465.00	-13.8	V	3.0	36.0	1.0	-48.8	-13.0	-35.8	
5197.50	-14.0	V	3.0	35.4	1.0	-48.4	-13.0	-35.4	
6930.00	-12.7	V	3.0	35.7	1.0	-47.4	-13.0	-34.4	
3465.00	-14.3	H	3.0	36.0	1.0	-49.4	-13.0	-36.4	
5197.50	-13.1	H	3.0	35.4	1.0	-47.5	-13.0	-34.5	
6930.00	-11.2	H	3.0	35.7	1.0	-45.8	-13.0	-32.8	
High Ch, 1752.5									
3505.00	-16.7	V	3.0	36.0	1.0	-51.7	-13.0	-38.7	
5257.50	-13.6	V	3.0	35.4	1.0	-48.0	-13.0	-35.0	
7010.00	-13.2	V	3.0	35.7	1.0	-47.9	-13.0	-34.9	
3505.00	-14.5	H	3.0	36.0	1.0	-49.6	-13.0	-36.6	
5257.50	-13.8	H	3.0	35.4	1.0	-48.2	-13.0	-35.2	
7010.00	-11.8	H	3.0	35.7	1.0	-46.5	-13.0	-33.5	

Compliance Certification Services									
Above 1GHz High Frequency Substitution Measurement									
Company:		Samsung							
Project #:		15I20033							
Date:		3/3/2015							
Test Engineer:		Jude Semana							
Configuration:		EUT , AC Adapter, Headset, X Position							
Location:		Chamber G							
Mode:		LTE_16QAM Band 4 Harmonics, 3MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band									
LTE4									
3MHz									
16QAM									
Low Ch, 1711.5									
3423.00	-17.0	V	3.0	36.1	1.0	-52.0	-13.0	-39.0	
5134.50	-14.8	V	3.0	35.4	1.0	-49.2	-13.0	-36.2	
6846.00	-11.4	V	3.0	35.7	1.0	-46.1	-13.0	-33.1	
3423.00	-12.4	H	3.0	36.1	1.0	-47.5	-13.0	-34.5	
5134.50	-14.0	H	3.0	35.4	1.0	-48.5	-13.0	-35.5	
6846.00	-11.2	H	3.0	35.7	1.0	-45.9	-13.0	-32.9	
Mid Ch, 1732.5									
3465.00	-17.2	V	3.0	36.0	1.0	-52.2	-13.0	-39.2	
5197.50	-13.2	V	3.0	35.4	1.0	-47.6	-13.0	-34.6	
6930.00	-12.7	V	3.0	35.7	1.0	-47.3	-13.0	-34.3	
3465.00	-16.5	H	3.0	36.0	1.0	-51.6	-13.0	-38.6	
5197.50	-13.7	H	3.0	35.4	1.0	-48.2	-13.0	-35.2	
6930.00	-11.3	H	3.0	35.7	1.0	-46.0	-13.0	-33.0	
High Ch, 1753.5									
3507.00	-16.6	V	3.0	36.0	1.0	-51.6	-13.0	-38.6	
5260.50	-13.1	V	3.0	35.4	1.0	-47.6	-13.0	-34.6	
7014.00	-11.8	V	3.0	35.7	1.0	-46.4	-13.0	-33.4	
3507.00	-15.0	H	3.0	36.0	1.0	-50.0	-13.0	-37.0	
5260.50	-13.3	H	3.0	35.4	1.0	-47.8	-13.0	-34.8	
7014.00	-11.3	H	3.0	35.7	1.0	-46.0	-13.0	-33.0	

Compliance Certification Services									
Above 1GHz High Frequency Substitution Measurements									
Company:		Samsung							
Project #:		15I20033							
Date:		3/3/2015							
Test Engineer:		Jude Semana							
Configuration:		EUT , AC Adapter, Headset, X Position							
Location:		Chamber G							
Mode:		LTE_QPSK Band 4 Harmonics, 3MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band									
Low Ch, 1711.5									
LTE4	3423.00	-8.5	V	3.0	36.1	1.0	-43.5	-13.0	-30.5
	5134.50	-14.5	V	3.0	35.4	1.0	-48.9	-13.0	-35.9
	6846.00	-12.6	V	3.0	35.7	1.0	-47.3	-13.0	-34.3
3MHz	3423.00	-12.8	H	3.0	36.1	1.0	-47.9	-13.0	-34.9
	5134.50	-13.2	H	3.0	35.4	1.0	-47.6	-13.0	-34.6
QPSK	6846.00	-10.8	H	3.0	35.7	1.0	-45.5	-13.0	-32.5
Mid Ch, 1732.5									
	3465.00	-17.0	V	3.0	36.0	1.0	-52.0	-13.0	-39.0
	5197.50	-13.9	V	3.0	35.4	1.0	-48.4	-13.0	-35.4
	6930.00	-12.5	V	3.0	35.7	1.0	-47.1	-13.0	-34.1
	3465.00	-17.1	H	3.0	36.0	1.0	-52.1	-13.0	-39.1
	5197.50	-13.6	H	3.0	35.4	1.0	-48.0	-13.0	-35.0
	6930.00	-11.4	H	3.0	35.7	1.0	-46.1	-13.0	-33.1
High Ch, 1753.5									
	3507.00	-17.0	V	3.0	36.0	1.0	-52.0	-13.0	-39.0
	5260.50	-13.8	V	3.0	35.4	1.0	-48.2	-13.0	-35.2
	7014.00	-11.7	V	3.0	35.7	1.0	-46.4	-13.0	-33.4
	3507.00	-14.7	H	3.0	36.0	1.0	-49.7	-13.0	-36.7
	5260.50	-13.1	H	3.0	35.4	1.0	-47.5	-13.0	-34.5
	7014.00	-10.6	H	3.0	35.7	1.0	-45.3	-13.0	-32.3

Compliance Certification Services									
Above 1GHz High Frequency Substitution Measurement									
Company:		Samsung							
Project #:		15I20033							
Date:		3/3/2015							
Test Engineer:		Jude Semana							
Configuration:		EUT , AC Adapter, Headset, X Position							
Location:		Chamber G							
Mode:		LTE_16QAM Band 4 Harmonics, 1.4MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band									
LTE4									
1.4MHz									
16QAM									
Low Ch, 1710.7									
3421.40	-12.3	V	3.0	36.1	1.0	-47.3	-13.0	-34.3	
5132.10	-14.5	V	3.0	35.4	1.0	-49.0	-13.0	-36.0	
6842.80	-11.2	V	3.0	35.7	1.0	-45.9	-13.0	-32.9	
3421.40	-9.0	H	3.0	36.1	1.0	-44.0	-13.0	-31.0	
5132.10	-13.9	H	3.0	35.4	1.0	-48.4	-13.0	-35.4	
6842.80	-11.8	H	3.0	35.7	1.0	-46.4	-13.0	-33.4	
Mid Ch, 1732.5									
3465.00	-14.8	V	3.0	36.0	1.0	-49.8	-13.0	-36.8	
5197.50	-14.0	V	3.0	35.4	1.0	-48.5	-13.0	-35.5	
6930.00	-11.4	V	3.0	35.7	1.0	-46.0	-13.0	-33.0	
3465.00	-10.3	H	3.0	36.0	1.0	-45.4	-13.0	-32.4	
5197.50	-13.3	H	3.0	35.4	1.0	-47.8	-13.0	-34.8	
6930.00	-11.1	H	3.0	35.7	1.0	-45.8	-13.0	-32.8	
High Ch, 1754.3									
3508.60	-15.6	V	3.0	36.0	1.0	-50.6	-13.0	-37.6	
5262.90	-12.8	V	3.0	35.4	1.0	-47.2	-13.0	-34.2	
7017.20	-9.5	V	3.0	35.7	1.0	-44.2	-13.0	-31.2	
3508.60	-15.8	H	3.0	36.0	1.0	-50.8	-13.0	-37.8	
5262.90	-12.3	H	3.0	35.4	1.0	-46.7	-13.0	-33.7	
7017.20	-10.3	H	3.0	35.7	1.0	-45.0	-13.0	-32.0	

Compliance Certification Services									
Above 1GHz High Frequency Substitution Measurement									
Company:		Samsung							
Project #:		15I20033							
Date:		3/3/2015							
Test Engineer:		Jude Semana							
Configuration:		EUT , AC Adapter, Headset, X Position							
Location:		Chamber G							
Mode:		LTE_QPSK Band 4 Harmonics, 1.4MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band									
Low Ch, 1710.7									
3421.40	-11.9	V	3.0	36.1	1.0	-46.9	-13.0	-33.9	
5132.10	-13.9	V	3.0	35.4	1.0	-48.4	-13.0	-35.4	
6842.80	-11.6	V	3.0	35.7	1.0	-46.3	-13.0	-33.3	
1.4MHz									
3421.40	-9.4	H	3.0	36.1	1.0	-44.4	-13.0	-31.4	
5132.10	-13.9	H	3.0	35.4	1.0	-48.3	-13.0	-35.3	
6842.80	-9.9	H	3.0	35.7	1.0	-44.5	-13.0	-31.5	
QPSK									
Mid Ch, 1732.5									
3465.00	-15.3	V	3.0	36.0	1.0	-50.3	-13.0	-37.3	
5197.50	-13.6	V	3.0	35.4	1.0	-48.1	-13.0	-35.1	
6930.00	-11.6	V	3.0	35.7	1.0	-46.3	-13.0	-33.3	
3465.00	-9.8	H	3.0	36.0	1.0	-44.9	-13.0	-31.9	
5197.50	-14.1	H	3.0	35.4	1.0	-48.5	-13.0	-35.5	
6930.00	-10.7	H	3.0	35.7	1.0	-45.3	-13.0	-32.3	
High Ch, 1754.3									
3508.60	-15.1	V	3.0	36.0	1.0	-50.1	-13.0	-37.1	
5262.90	-13.5	V	3.0	35.4	1.0	-48.0	-13.0	-35.0	
7017.20	-9.8	V	3.0	35.7	1.0	-44.5	-13.0	-31.5	
3508.60	-16.3	H	3.0	36.0	1.0	-51.3	-13.0	-38.3	
5262.90	-12.8	H	3.0	35.4	1.0	-47.2	-13.0	-34.2	
7017.20	-10.8	H	3.0	35.7	1.0	-45.5	-13.0	-32.5	

UL Verification Services, Inc.
Above 1GHz High Frequency Substitution Measurement

Company: Samsung
Project #: 15I20033
Date: 02/27/15
Test Engineer: O. Stoelting
Configuration: X-pos EUT w/ AC Charger + HS
Mode: HSDPA_B2

Chamber
 5m Chamber A

Pre-amplifier
 T34 8449B

Filter
 Filter 1

Limit
 Part 24

	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band	Low Ch, 1852.4MHz									
Band 2	3.705	-16.4	V	3.0	35.4	1.0	-50.8	-13.0	-37.8	
	5.557	-16.4	V	3.0	34.7	1.0	-50.1	-13.0	-37.1	
	7.410	-13.2	V	3.0	34.9	1.0	-47.1	-13.0	-34.1	
HSDPA	3.705	-17.5	H	3.0	35.4	1.0	-51.9	-13.0	-38.9	
	5.557	-15.1	H	3.0	34.7	1.0	-48.8	-13.0	-35.8	
	7.410	-12.0	H	3.0	34.9	1.0	-45.9	-13.0	-32.9	
	Mid Ch, 1880MHz									
	3.760	-17.6	V	3.0	35.3	1.0	-51.9	-13.0	-38.9	
	5.640	-14.8	V	3.0	34.7	1.0	-48.6	-13.0	-35.6	
	7.520	-12.9	V	3.0	34.9	1.0	-46.8	-13.0	-33.8	
	3.760	-18.4	H	3.0	35.3	1.0	-52.7	-13.0	-39.7	
	5.640	-15.9	H	3.0	34.7	1.0	-49.6	-13.0	-36.6	
	7.520	-13.3	H	3.0	34.9	1.0	-47.2	-13.0	-34.2	
	High Ch, 1907.6MHz									
	3.815	-14.3	V	3.0	35.3	1.0	-48.6	-13.0	-35.6	
	5.723	-15.0	V	3.0	34.7	1.0	-48.7	-13.0	-35.7	
	7.630	-11.6	V	3.0	34.9	1.0	-45.6	-13.0	-32.6	
	3.815	-15.1	H	3.0	35.3	1.0	-49.4	-13.0	-36.4	
	5.723	-15.7	H	3.0	34.7	1.0	-49.4	-13.0	-36.4	
	7.630	-10.5	H	3.0	34.9	1.0	-44.4	-13.0	-31.4	

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

UL Verification Services, Inc.
Above 1GHz High Frequency Substitution Measurement

Company: Samsung
Project #: 15I20033
Date: 03/03/15
Test Engineer: Jude Semana
Configuration: X-pos EUT w/ AC Charger + HS
Mode: REL99_B2

Chamber
 Pre-amplifier
 Filter
 Limit

3m Chamber
 T34 8449B
 Filter 1
 Part 24

	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 1852.4MHz									
Band	3.705	-18.2	V	3.0	35.4	1.0	-52.6	-13.0	-39.6	
Band 2	5.557	-14.6	V	3.0	34.7	1.0	-48.4	-13.0	-35.4	
	7.410	-11.9	V	3.0	34.9	1.0	-45.8	-13.0	-32.8	
REL99	3.705	-17.9	H	3.0	35.4	1.0	-52.3	-13.0	-39.3	
	5.557	-12.9	H	3.0	34.7	1.0	-46.7	-13.0	-33.7	
	7.410	-10.7	H	3.0	34.9	1.0	-44.6	-13.0	-31.6	
	Mid Ch, 1880MHz									
	3.760	-16.6	V	3.0	35.3	1.0	-51.0	-13.0	-38.0	
	5.640	-13.5	V	3.0	34.7	1.0	-47.2	-13.0	-34.2	
	7.520	-10.8	V	3.0	34.9	1.0	-44.7	-13.0	-31.7	
	3.760	-17.1	H	3.0	35.3	1.0	-51.4	-13.0	-38.4	
	5.640	-13.4	H	3.0	34.7	1.0	-47.1	-13.0	-34.1	
	7.520	-10.0	H	3.0	34.9	1.0	-43.9	-13.0	-30.9	
	High Ch, 1907.6MHz									
	3.815	-16.4	V	3.0	35.3	1.0	-50.7	-13.0	-37.7	
	5.723	-13.9	V	3.0	34.7	1.0	-47.7	-13.0	-34.7	
	7.630	-11.0	V	3.0	34.9	1.0	-44.9	-13.0	-31.9	
	3.815	-14.1	H	3.0	35.3	1.0	-48.3	-13.0	-35.3	
	5.723	-12.5	H	3.0	34.7	1.0	-46.2	-13.0	-33.2	
	7.630	-11.1	H	3.0	34.9	1.0	-45.1	-13.0	-32.1	
	Rev. 03.03.09									
	Note: No other emissions were detected above the system noise floor.									

UL Verification Services, Inc.
Above 1GHz High Frequency Substitution Measurement

Company: Samsung
Project #: 15I20033
Date: 02/26/15
Test Engineer: O. Stoelting
Configuration: X-pos EUT w/ AC Charger + HS
Mode: HSDPA_B5

Chamber
 5m Chamber A

Pre-amplifier
 T34 8449B

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 Ch, 826.4MHz									
Band	1.653	0.2	V	3.0	37.4	1.0	-36.1	-13.0	-23.1	
Band 5	2.479	-22.7	V	3.0	36.4	1.0	-58.0	-13.0	-45.0	
	3.306	-29.1	V	3.0	35.8	1.0	-63.9	-13.0	-50.9	
HSDPA	1.653	-8.5	H	3.0	37.4	1.0	-44.9	-13.0	-31.9	
	2.479	-31.0	H	3.0	36.4	1.0	-66.4	-13.0	-53.4	
	3.306	-29.5	H	3.0	35.8	1.0	-64.3	-13.0	-51.3	
	Mid Ch, 836.6MHz									
	1.673	-16.5	V	3.0	37.3	1.0	-52.8	-13.0	-39.8	
	2.510	-28.3	V	3.0	36.4	1.0	-63.7	-13.0	-50.7	
	3.346	-29.1	V	3.0	35.8	1.0	-63.9	-13.0	-50.9	
	1.673	-8.9	H	3.0	37.3	1.0	-45.3	-13.0	-32.3	
	2.510	-32.4	H	3.0	36.4	1.0	-67.7	-13.0	-54.7	
	3.346	-29.5	H	3.0	35.8	1.0	-64.3	-13.0	-51.3	
	High Ch, 846.6MHz									
	1.693	-2.6	V	3.0	37.3	1.0	-38.9	-13.0	-25.9	
	2.540	-21.2	V	3.0	36.3	1.0	-56.5	-13.0	-43.5	
	3.386	-29.0	V	3.0	35.7	1.0	-63.7	-13.0	-50.7	
	1.693	-8.7	H	3.0	37.3	1.0	-45.0	-13.0	-32.0	
	2.540	-29.7	H	3.0	36.3	1.0	-65.1	-13.0	-52.1	
	3.386	-29.6	H	3.0	35.7	1.0	-64.3	-13.0	-51.3	

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

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		Samsung							
Project #:		15I20033							
Date:		02/26/15							
Test Engineer:		O. Stoelting							
Configuration:		X-pos EUT w/ AC Charger + HS							
Mode:		REL99_B5							
Chamber		Pre-amplifier			Filter		Limit		
5m Chamber A		T34 8449B			Filter 1		Part 22		
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band									
Band 5									
REL99									
Low Ch, 826.4MHz									
1.653	-0.1	V	3.0	37.4	1.0	-36.5	-13.0	-23.5	
2.479	-26.0	V	3.0	36.4	1.0	-61.4	-13.0	-48.4	
3.306	-29.1	V	3.0	35.8	1.0	-63.9	-13.0	-50.9	
1.653	-8.8	H	3.0	37.4	1.0	-45.2	-13.0	-32.2	
2.479	-31.3	H	3.0	36.4	1.0	-66.7	-13.0	-53.7	
3.306	-29.5	H	3.0	35.8	1.0	-64.3	-13.0	-51.3	
Mid Ch, 836.6MHz									
1.673	-0.2	V	3.0	37.3	1.0	-36.5	-13.0	-23.5	
2.510	-21.5	V	3.0	36.4	1.0	-56.9	-13.0	-43.9	
3.346	-29.3	V	3.0	35.8	1.0	-64.0	-13.0	-51.0	
1.673	-7.5	H	3.0	37.3	1.0	-43.9	-13.0	-30.9	
2.510	-31.5	H	3.0	36.4	1.0	-66.8	-13.0	-53.8	
3.346	-29.5	H	3.0	35.8	1.0	-64.2	-13.0	-51.2	
High Ch, 846.6MHz									
1.693	-2.2	V	3.0	37.3	1.0	-38.5	-13.0	-25.5	
2.540	-23.3	V	3.0	36.3	1.0	-58.7	-13.0	-45.7	
3.386	-29.0	V	3.0	35.7	1.0	-63.7	-13.0	-50.7	
1.693	-8.8	H	3.0	37.3	1.0	-45.1	-13.0	-32.1	
2.540	-27.8	H	3.0	36.3	1.0	-63.1	-13.0	-50.1	
3.386	-29.5	H	3.0	35.7	1.0	-64.3	-13.0	-51.3	
Rev. 03.03.09									
Note: No other emissions were detected above the system noise floor.									

UL Verification Services, Inc.										
Above 1GHz High Frequency Substitution Measurement										
Company:		Samsung								
Project #:		15I20033								
Date:		3/3/2015								
Test Engineer:		Jude Semana								
Configuration:		EUT/AC Charger/HS								
Location:		Chamber G								
Mode:		HSDPA Band 4 Harmonics								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 1712.4									
Band	3424.80	-15.3	V	3.0	35.9	1.0	-50.2	-13.0	-37.2	
	5137.20	-13.5	V	3.0	35.5	1.0	-48.0	-13.0	-35.0	
Band 4	6849.60	-11.9	V	3.0	35.7	1.0	-46.6	-13.0	-33.6	
	3424.80	-16.7	H	3.0	35.9	1.0	-51.6	-13.0	-38.6	
HSDPA	5137.20	-13.7	H	3.0	35.5	1.0	-48.1	-13.0	-35.1	
	6849.60	-10.0	H	3.0	35.7	1.0	-44.7	-13.0	-31.7	
	Mid Ch, 1732.6									
	3465.20	-14.6	V	3.0	35.8	1.0	-49.4	-13.0	-36.4	
	5197.80	-13.0	V	3.0	35.5	1.0	-47.5	-13.0	-34.5	
	6930.04	-11.3	V	3.0	35.7	1.0	-46.1	-13.0	-33.1	
	3465.20	-14.3	H	3.0	35.8	1.0	-49.1	-13.0	-36.1	
	5197.80	-12.2	H	3.0	35.5	1.0	-46.7	-13.0	-33.7	
	6930.04	-10.4	H	3.0	35.7	1.0	-45.2	-13.0	-32.2	
	High Ch, 1752.6									
	3505.20	-16.0	V	3.0	35.8	1.0	-50.8	-13.0	-37.8	
	5257.80	-12.7	V	3.0	35.5	1.0	-47.2	-13.0	-34.2	
	7010.40	-11.3	V	3.0	35.8	1.0	-46.1	-13.0	-33.1	
	3505.20	-16.0	H	3.0	35.8	1.0	-50.8	-13.0	-37.8	
	5257.80	-11.8	H	3.0	35.5	1.0	-46.3	-13.0	-33.3	
	7010.40	-10.2	H	3.0	35.8	1.0	-45.0	-13.0	-32.0	

UL Verification Services, Inc.									
Above 1GHz High Frequency Substitution Measurement									
Company:		Samsung							
Project #:		15I20033							
Date:		3/3/2015							
Test Engineer:		Jude Semana							
Configuration:		EUT/AC Charger/HS							
Location:		Chamber G							
Mode:		Rel 99 Band 4 Harmonics							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1712.4									
Band	3424.80	-16.7	V	3.0	35.9	1.0	-51.5	-13.0	-38.5
	5137.20	-14.3	V	3.0	35.5	1.0	-48.7	-13.0	-35.7
Band 4	6849.60	-11.3	V	3.0	35.7	1.0	-46.0	-13.0	-33.0
	3424.80	-15.1	H	3.0	35.9	1.0	-49.9	-13.0	-36.9
REL99	5137.20	-12.9	H	3.0	35.5	1.0	-47.4	-13.0	-34.4
	6849.60	-10.1	H	3.0	35.7	1.0	-44.9	-13.0	-31.9
Mid Ch, 1732.6									
	3465.20	-16.0	V	3.0	35.8	1.0	-50.8	-13.0	-37.8
	5197.80	-12.8	V	3.0	35.5	1.0	-47.3	-13.0	-34.3
	6930.04	-10.3	V	3.0	35.7	1.0	-45.0	-13.0	-32.0
	3465.20	-13.8	H	3.0	35.8	1.0	-48.6	-13.0	-35.6
	5197.80	-12.1	H	3.0	35.5	1.0	-46.6	-13.0	-33.6
	6930.04	-10.3	H	3.0	35.7	1.0	-45.0	-13.0	-32.0
High Ch, 1752.6									
	3505.20	-16.0	V	3.0	35.8	1.0	-50.8	-13.0	-37.8
	5257.80	-13.1	V	3.0	35.5	1.0	-47.6	-13.0	-34.6
	7010.40	-10.9	V	3.0	35.8	1.0	-45.6	-13.0	-32.6
	3505.20	-15.6	H	3.0	35.8	1.0	-50.4	-13.0	-37.4
	5257.80	-12.2	H	3.0	35.5	1.0	-46.7	-13.0	-33.7
	7010.40	-9.8	H	3.0	35.8	1.0	-44.6	-13.0	-31.6

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		Samsung							
Project #:		15I20033							
Date:		02/27/15							
Test Engineer:		O. Stoelting							
Configuration:		X-pos EUT w/ AC Charger + HS							
Mode:		GSM 1900 EGPRS							
Chamber		Pre-amplifier		Filter		Limit			
5m Chamber A		T34 8449B		Filter 1		Part 24			
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1850.2MHz									
3.700	-17.3	V	3.0	35.4	1.0	-51.7	-13.0	-38.7	
5.551	-18.2	V	3.0	34.7	1.0	-51.9	-13.0	-38.9	
7.401	-9.5	V	3.0	34.9	1.0	-43.4	-13.0	-30.4	
3.700	-6.5	H	3.0	35.4	1.0	-40.9	-13.0	-27.9	
5.551	-21.2	H	3.0	34.7	1.0	-54.9	-13.0	-41.9	
7.401	-10.7	H	3.0	34.9	1.0	-44.6	-13.0	-31.6	
Mid Ch, 1880MHz									
3.760	-12.3	V	3.0	35.3	1.0	-46.7	-13.0	-33.7	
5.640	-16.8	V	3.0	34.7	1.0	-50.5	-13.0	-37.5	
7.520	-8.8	V	3.0	34.9	1.0	-42.8	-13.0	-29.8	
3.760	-5.0	H	3.0	35.3	1.0	-39.4	-13.0	-26.4	
5.640	-21.1	H	3.0	34.7	1.0	-54.9	-13.0	-41.9	
7.520	-12.0	H	3.0	34.9	1.0	-45.9	-13.0	-32.9	
High Ch, 1909.8MHz									
3.820	-11.8	V	3.0	35.3	1.0	-46.1	-13.0	-33.1	
5.729	-23.1	V	3.0	34.7	1.0	-56.9	-13.0	-43.9	
7.639	-13.4	V	3.0	35.0	1.0	-47.3	-13.0	-34.3	
3.820	-18.7	H	3.0	35.3	1.0	-52.9	-13.0	-39.9	
5.729	-23.5	H	3.0	34.7	1.0	-57.2	-13.0	-44.2	
7.639	-18.1	H	3.0	35.0	1.0	-52.0	-13.0	-39.0	
Rev. 03.03.09									
Note: No other emissions were detected above the system noise floor.									

Band
 GSM19
 00
 EGPRS

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		Samsung							
Project #:		15I20033							
Date:		02/27/15							
Test Engineer:		O. Stoelting							
Configuration:		X-pos EUT w/ AC Charger + HS							
Mode:		GSM 1900 GPRS							
Chamber		Pre-amplifier		Filter		Limit			
5m Chamber A		T34 8449B		Filter 1		Part 24			
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band									
GSM1900									
GPRS									
Low Ch, 1850.2MHz									
3.700	-16.1	V	3.0	35.4	1.0	-50.5	-13.0	-37.5	
5.551	-19.8	V	3.0	34.7	1.0	-53.5	-13.0	-40.5	
7.401	-14.1	V	3.0	34.9	1.0	-48.0	-13.0	-35.0	
3.700	-10.7	H	3.0	35.4	1.0	-45.1	-13.0	-32.1	
5.551	-20.8	H	3.0	34.7	1.0	-54.5	-13.0	-41.5	
7.401	-19.3	H	3.0	34.9	1.0	-53.2	-13.0	-40.2	
Mid Ch, 1880MHz									
3.760	-11.3	V	3.0	35.3	1.0	-45.7	-13.0	-32.7	
5.640	-19.6	V	3.0	34.7	1.0	-53.4	-13.0	-40.4	
7.520	-9.4	V	3.0	34.9	1.0	-43.3	-13.0	-30.3	
3.760	-15.4	H	3.0	35.3	1.0	-49.7	-13.0	-36.7	
5.640	-18.4	H	3.0	34.7	1.0	-52.1	-13.0	-39.1	
7.520	-21.3	H	3.0	34.9	1.0	-55.2	-13.0	-42.2	
High Ch, 1909.8MHz									
3.820	-12.8	V	3.0	35.3	1.0	-47.1	-13.0	-34.1	
5.729	-19.6	V	3.0	34.7	1.0	-53.3	-13.0	-40.3	
7.639	-15.4	V	3.0	35.0	1.0	-49.4	-13.0	-36.4	
3.820	-23.7	H	3.0	35.3	1.0	-58.0	-13.0	-45.0	
5.729	-19.8	H	3.0	34.7	1.0	-53.6	-13.0	-40.6	
7.639	-16.4	H	3.0	35.0	1.0	-50.3	-13.0	-37.3	
Rev. 03.03.09									
Note: No other emissions were detected above the system noise floor.									

UL Verification Services, Inc.
Above 1GHz High Frequency Substitution Measurement

Company: Samsung
Project #: 15I20033
Date: 03/18/15
Test Engineer: Jude Semana
Configuration: X-pos EUT w/ AC Charger + HS
Mode: EGPRS850 Harm

Chamber

3m Chamber

Pre-amplifier

T34 8449B

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 Ch, 824.2MHz										
Band GSM850 EGPRS	1.648	-25.5	V	3.0	37.4	1.0	-61.9	-13.0	-48.9		
	2.473	-20.7	V	3.0	36.4	1.0	-56.1	-13.0	-43.1		
	3.297	-20.4	V	3.0	35.8	1.0	-55.2	-13.0	-42.2		
	1.648	-26.4	H	3.0	37.4	1.0	-62.7	-13.0	-49.7		
	2.473	-22.0	H	3.0	36.4	1.0	-57.4	-13.0	-44.4		
	3.297	-20.9	H	3.0	35.8	1.0	-55.7	-13.0	-42.7		
		Mid Ch, 836.6MHz									
	1.673	-24.8	V	3.0	37.3	1.0	-61.1	-13.0	-48.1		
	2.510	-21.0	V	3.0	36.4	1.0	-56.3	-13.0	-43.3		
3.346	-20.6	V	3.0	35.8	1.0	-55.3	-13.0	-42.3			
1.673	-26.0	H	3.0	37.3	1.0	-62.3	-13.0	-49.3			
2.510	-22.5	H	3.0	36.4	1.0	-57.9	-13.0	-44.9			
3.346	-20.8	H	3.0	35.8	1.0	-55.6	-13.0	-42.6			
	High Ch, 848.8MHz										
1.698	-24.4	V	3.0	37.3	1.0	-60.7	-13.0	-47.7			
2.547	-21.9	V	3.0	36.3	1.0	-57.3	-13.0	-44.3			
3.395	-20.1	V	3.0	35.7	1.0	-54.8	-13.0	-41.8			
1.698	-24.3	H	3.0	37.3	1.0	-60.6	-13.0	-47.6			
2.547	-23.2	H	3.0	36.3	1.0	-58.6	-13.0	-45.6			
3.395	-20.2	H	3.0	35.7	1.0	-54.9	-13.0	-41.9			
	Rev. 03.03.09										
	Note: No other emissions were detected above the system noise floor.										

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		Samsung							
Project #:		15I20033							
Date:		03/18/15							
Test Engineer:		Jude Semana							
Configuration:		X-pos EUT w/ AC Charger + HS							
Mode:		GPRS 850							
Chamber		Pre-amplifier		Filter		Limit			
5m Chamber A		T34 8449B		Filter 1		Part 22			
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band									
GSM850									
GPRS									
Low Ch, 824.2MHz									
1.648	-26.2	V	3.0	37.4	1.0	-62.6	-13.0	-49.6	
2.473	-20.1	V	3.0	36.4	1.0	-55.5	-13.0	-42.5	
3.297	-20.7	V	3.0	35.8	1.0	-55.5	-13.0	-42.5	
Mid Ch, 836.6MHz									
1.673	-26.2	H	3.0	37.4	1.0	-62.6	-13.0	-49.6	
2.473	-22.2	H	3.0	36.4	1.0	-57.5	-13.0	-44.5	
3.297	-20.8	H	3.0	35.8	1.0	-55.6	-13.0	-42.6	
High Ch, 848.8MHz									
1.673	-26.0	V	3.0	37.3	1.0	-62.4	-13.0	-49.4	
2.510	-21.4	V	3.0	36.4	1.0	-56.8	-13.0	-43.8	
3.346	-20.3	V	3.0	35.8	1.0	-55.0	-13.0	-42.0	
1.673	-26.2	H	3.0	37.3	1.0	-62.6	-13.0	-49.6	
2.510	-22.7	H	3.0	36.4	1.0	-58.0	-13.0	-45.0	
3.346	-20.2	H	3.0	35.8	1.0	-54.9	-13.0	-41.9	
1.698	-25.0	V	3.0	37.3	1.0	-61.3	-13.0	-48.3	
2.547	-21.7	V	3.0	36.3	1.0	-57.0	-13.0	-44.0	
3.395	-19.6	V	3.0	35.7	1.0	-54.3	-13.0	-41.3	
1.698	-25.5	H	3.0	37.3	1.0	-61.8	-13.0	-48.8	
2.547	-23.1	H	3.0	36.3	1.0	-58.4	-13.0	-45.4	
3.395	-19.7	H	3.0	35.7	1.0	-54.4	-13.0	-41.4	
Rev. 03.03.09									
Note: No other emissions were detected above the system noise floor.									