

**WCDMA Band 2**

		UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement																																																																																																																																																																																																																																				
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7.5200	-9.9	V	3.0	39.4	1.0	-48.2	-13.0	-35.2																																																																																																																																																																																																																														
3.7600	-10.6	H	3.0	39.7	1.0	-49.3	-13.0	-36.3																																																																																																																																																																																																																														
5.6400	-11.2	H	3.0	40.0	1.0	-50.2	-13.0	-37.2																																																																																																																																																																																																																														
7.5200	-10.0	H	3.0	39.4	1.0	-48.4	-13.0	-35.4																																																																																																																																																																																																																														
High Ch, 1907.6MHz																																																																																																																																																																																																																																						
3.8152	-12.0	V	3.0	39.7	1.0	-50.7	-13.0	-37.7																																																																																																																																																																																																																														
5.7228	-11.0	V	3.0	40.0	1.0	-50.0	-13.0	-37.0																																																																																																																																																																																																																														
7.6304	-9.7	V	3.0	39.3	1.0	-48.0	-13.0	-35.0																																																																																																																																																																																																																														
3.8152	-10.6	H	3.0	39.7	1.0	-49.3	-13.0	-36.3																																																																																																																																																																																																																														
5.7228	-11.0	H	3.0	40.0	1.0	-50.0	-13.0	-37.0																																																																																																																																																																																																																														
7.6304	-9.3	H	3.0	39.3	1.0	-47.7	-13.0	-34.7																																																																																																																																																																																																																														
		Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.																																																																																																																																																																																																																																				

**LTE Band 5**

		UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement										
LTE Band 5 10MHz QPSK	Company: Samsung											
	Project #: 4787892916											
	Date: 04-03-17											
	Test Engineer: JH Park											
	Configuration: EUT / AC Adapter / Earphone / X Position											
	Mode: TX, LTE BAND 5, 10MHz BW,QPSK											
	<div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 2px;">Chamber Chamber 2</div> <div style="border: 1px solid black; padding: 2px;">Pre-amplifier AFS42</div> <div style="border: 1px solid black; padding: 2px;">Filter Filter 1</div> <div style="border: 1px solid black; padding: 2px;">Limit Part 22</div> </div>											
			<b>f</b>	<b>SG reading</b>	<b>Ant. Pol.</b>	<b>Distance</b>	<b>Preamp</b>	<b>Filter</b>	<b>EIRP</b>	<b>Limit</b>	<b>Delta</b>	<b>Notes</b>
			<b>GHz</b>	<b>(dBm)</b>	<b>(H/V)</b>	<b>(m)</b>	<b>(dB)</b>	<b>(dB)</b>	<b>(dBm)</b>	<b>(dBm)</b>	<b>(dB)</b>	
			Low Channel (829MHz)									
		1.6580	-5.3	V	3.0	38.2	1.0	-42.6	-13.0	-29.6		
		2.4870	1.5	V	3.0	38.8	1.0	-36.3	-13.0	-23.3		
		3.3160	-15.2	V	3.0	39.4	1.0	-53.6	-13.0	-40.6		
		1.6580	-2.4	H	3.0	38.2	1.0	-39.6	-13.0	-26.6		
		2.4870	0.8	H	3.0	38.8	1.0	-37.0	-13.0	-24.0		
		3.3160	-14.6	H	3.0	39.4	1.0	-53.0	-13.0	-40.0		
		Mid Channel (836.5MHz)										
		1.6730	-1.5	V	3.0	38.2	1.0	-38.7	-13.0	-25.7		
		2.5090	-0.9	V	3.0	38.8	1.0	-38.7	-13.0	-25.7		
		3.3460	-15.0	V	3.0	39.5	1.0	-53.5	-13.0	-40.5		
		1.6730	-4.7	H	3.0	38.2	1.0	-41.9	-13.0	-28.9		
		2.5090	0.0	H	3.0	38.8	1.0	-37.8	-13.0	-24.8		
		3.3460	-15.4	H	3.0	39.5	1.0	-53.9	-13.0	-40.9		
		High Channel (844MHz)										
		1.6880	-6.1	V	3.0	38.2	1.0	-43.3	-13.0	-30.3		
		2.5320	0.1	V	3.0	38.9	1.0	-37.7	-13.0	-24.7		
		3.3760	-15.4	V	3.0	39.5	1.0	-53.9	-13.0	-40.9		
		1.6880	-5.9	H	3.0	38.2	1.0	-43.2	-13.0	-30.2		
		2.5320	3.2	H	3.0	38.9	1.0	-34.7	-13.0	-21.7		
		3.3760	-16.2	H	3.0	39.5	1.0	-54.7	-13.0	-41.7		
		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 #: 4787892916										
		Date: 04-03-17										
		Test Engineer: JH Park										
		Configuration: EUT / AC Adapter / Earphone / X Position										
		Mode: TX, LTE BAND 5, 10MHz BW,16QAM										
		<div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 2px;">Chamber Chamber 2</div> <div style="border: 1px solid black; padding: 2px;">Pre-amplifier AFS42</div> <div style="border: 1px solid black; padding: 2px;">Filter Filter 1</div> <div style="border: 1px solid black; padding: 2px;">Limit Part 22</div> </div>										
		<b>f</b>	<b>SG reading</b>	<b>Ant. Pol.</b>	<b>Distance</b>	<b>Preamp</b>	<b>Filter</b>	<b>EIRP</b>	<b>Limit</b>	<b>Delta</b>	<b>Notes</b>	
		<b>GHz</b>	<b>(dBm)</b>	<b>(H/V)</b>	<b>(m)</b>	<b>(dB)</b>	<b>(dB)</b>	<b>(dBm)</b>	<b>(dBm)</b>	<b>(dB)</b>		
		Low Channel (829MHz)										
		1.6580	-4.6	V	3.0	38.2	1.0	-41.8	-13.0	-28.8		
		2.4870	4.2	V	3.0	38.8	1.0	-33.6	-13.0	-20.6		
		3.3160	-14.3	V	3.0	39.4	1.0	-52.7	-13.0	-39.7		
		1.6580	-2.6	H	3.0	38.2	1.0	-39.8	-13.0	-26.8		
		2.4870	1.7	H	3.0	38.8	1.0	-36.1	-13.0	-23.1		
		3.3160	-15.1	H	3.0	39.4	1.0	-53.6	-13.0	-40.6		
		Mid Channel (836.5MHz)										
		1.6730	-2.5	V	3.0	38.2	1.0	-39.8	-13.0	-26.8		
		2.5090	-1.1	V	3.0	38.8	1.0	-38.9	-13.0	-25.9		
		3.3460	-14.7	V	3.0	39.5	1.0	-53.1	-13.0	-40.1		
		1.6730	-2.5	H	3.0	38.2	1.0	-39.7	-13.0	-26.7		
		2.5090	0.5	H	3.0	38.8	1.0	-37.3	-13.0	-24.3		
		3.3460	-15.2	H	3.0	39.5	1.0	-53.7	-13.0	-40.7		
		High Channel (844MHz)										
		1.6880	-6.3	V	3.0	38.2	1.0	-43.5	-13.0	-30.5		
		2.5320	-0.4	V	3.0	38.9	1.0	-38.3	-13.0	-25.3		
		3.3760	-15.6	V	3.0	39.5	1.0	-54.1	-13.0	-41.1		
		1.6880	-5.9	H	3.0	38.2	1.0	-43.1	-13.0	-30.1		
		2.5320	3.2	H	3.0	38.9	1.0	-34.6	-13.0	-21.6		
		3.3760	-16.2	H	3.0	39.5	1.0	-54.7	-13.0	-41.7		
		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										
LTE Band 5 5MHz QPSK	Company: Samsung Project #: 4787892916 Date: 03-23-17 Test Engineer: JH Park Configuration: EUT / AC Adapter / Earphone, X Position Mode: TX, LTE BAND 5, 5MHz 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 (826.5MHz)										
		1.6530	-2.9	V	3.0	38.2	1.0	-40.1	-13.0	-27.1		
		2.4790	1.5	V	3.0	38.8	1.0	-36.3	-13.0	-23.3		
		3.3060	-14.5	V	3.0	39.4	1.0	-53.0	-13.0	-40.0		
		1.6530	2.2	H	3.0	38.2	1.0	-35.0	-13.0	-22.0		
		2.4790	2.8	H	3.0	38.8	1.0	-35.0	-13.0	-22.0		
		3.3060	-15.0	H	3.0	39.4	1.0	-53.4	-13.0	-40.4		
		Mid Channel (836.5MHz)										
		1.6730	-2.8	V	3.0	38.2	1.0	-40.0	-13.0	-27.0		
		2.5090	-5.9	V	3.0	38.8	1.0	-43.7	-13.0	-30.7		
		3.3460	-14.8	V	3.0	39.5	1.0	-53.3	-13.0	-40.3		
		1.6730	1.3	H	3.0	38.2	1.0	-35.9	-13.0	-22.9		
		2.5090	-2.5	H	3.0	38.8	1.0	-40.3	-13.0	-27.3		
		3.3460	-13.9	H	3.0	39.5	1.0	-52.4	-13.0	-39.4		
		High Channel (846.5MHz)										
		1.6930	-7.3	V	3.0	38.2	1.0	-44.6	-13.0	-31.6		
		2.5390	-7.8	V	3.0	38.9	1.0	-45.6	-13.0	-32.6		
	3.3860	-15.4	V	3.0	39.5	1.0	-53.9	-13.0	-40.9			
	1.6930	1.5	H	3.0	38.2	1.0	-35.7	-13.0	-22.7			
	2.5390	-3.5	H	3.0	38.9	1.0	-41.4	-13.0	-28.4			
	3.3860	-15.0	H	3.0	39.5	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 5 5MHz 16QAM	Company: Samsung Project #: 4787892916 Date: 03-23-17 Test Engineer: JH Park Configuration: EUT / AC Adapter / Earphone, X Position Mode: TX, LTE BAND 5, 5MHz 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 (826.5MHz)										
		1.6530	-3.8	V	3.0	38.2	1.0	-41.0	-13.0	-28.0		
		2.4790	2.4	V	3.0	38.8	1.0	-35.4	-13.0	-22.4		
		3.3060	-14.6	V	3.0	39.4	1.0	-53.0	-13.0	-40.0		
		1.6530	1.9	H	3.0	38.2	1.0	-35.4	-13.0	-22.4		
		2.4790	3.5	H	3.0	38.8	1.0	-34.4	-13.0	-21.4		
		3.3060	-14.9	H	3.0	39.4	1.0	-53.3	-13.0	-40.3		
		Mid Channel (836.5MHz)										
		1.6730	-3.3	V	3.0	38.2	1.0	-40.6	-13.0	-27.6		
		2.5090	-5.5	V	3.0	38.8	1.0	-43.3	-13.0	-30.3		
		3.3460	-13.6	V	3.0	39.5	1.0	-52.0	-13.0	-39.0		
		1.6730	1.3	H	3.0	38.2	1.0	-35.9	-13.0	-22.9		
		2.5090	-2.9	H	3.0	38.8	1.0	-40.8	-13.0	-27.8		
		3.3460	-14.0	H	3.0	39.5	1.0	-52.4	-13.0	-39.4		
		High Channel (846.5MHz)										
		1.6930	-7.7	V	3.0	38.2	1.0	-44.9	-13.0	-31.9		
		2.5390	-7.2	V	3.0	38.9	1.0	-45.1	-13.0	-32.1		
	3.3860	-15.1	V	3.0	39.5	1.0	-53.6	-13.0	-40.6			
	1.6930	2.3	H	3.0	38.2	1.0	-34.9	-13.0	-21.9			
	2.5390	-3.2	H	3.0	38.9	1.0	-41.0	-13.0	-28.0			
	3.3860	-15.5	H	3.0	39.5	1.0	-54.0	-13.0	-41.0			
	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																																																																																																																																																																																																																												
LTE Band 5 3MHz QPSK	Company: Samsung Project #: 4787892916 Date: 03-23-17 Test Engineer: JH Park Configuration: EUT / AC Adapter / Earphone, X Position Mode: TX, LTE BAND 5, 3MHz BW, QPSK																																																																																																																																																																																																																													
	Chamber: Chamber 2 Pre-amplifier: AFS42 Filter: Filter 1 Limit: Part 22																																																																																																																																																																																																																													
	<table border="1"> <thead> <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> </thead> <tbody> <tr><td colspan="10">Low Channel (825.5MHz)</td></tr> <tr><td>1.6510</td><td>-6.5</td><td>V</td><td>3.0</td><td>38.2</td><td>1.0</td><td>-43.8</td><td>-13.0</td><td>-30.8</td><td></td></tr> <tr><td>2.4765</td><td>-2.5</td><td>V</td><td>3.0</td><td>38.8</td><td>1.0</td><td>-40.3</td><td>-13.0</td><td>-27.3</td><td></td></tr> <tr><td>3.3020</td><td>-14.5</td><td>V</td><td>3.0</td><td>39.4</td><td>1.0</td><td>-52.9</td><td>-13.0</td><td>-39.9</td><td></td></tr> <tr><td>1.6510</td><td>2.0</td><td>H</td><td>3.0</td><td>38.2</td><td>1.0</td><td>-35.3</td><td>-13.0</td><td>-22.3</td><td></td></tr> <tr><td>2.4765</td><td>1.2</td><td>H</td><td>3.0</td><td>38.8</td><td>1.0</td><td>-36.6</td><td>-13.0</td><td>-23.6</td><td></td></tr> <tr><td>3.3020</td><td>-11.0</td><td>H</td><td>3.0</td><td>39.4</td><td>1.0</td><td>-49.4</td><td>-13.0</td><td>-36.4</td><td></td></tr> <tr><td colspan="10">Mid Channel (836.5MHz)</td></tr> <tr><td>1.6730</td><td>-1.9</td><td>V</td><td>3.0</td><td>38.2</td><td>1.0</td><td>-39.2</td><td>-13.0</td><td>-26.2</td><td></td></tr> <tr><td>2.5090</td><td>-10.7</td><td>V</td><td>3.0</td><td>38.8</td><td>1.0</td><td>-48.5</td><td>-13.0</td><td>-35.5</td><td></td></tr> <tr><td>3.3460</td><td>-15.0</td><td>V</td><td>3.0</td><td>39.5</td><td>1.0</td><td>-53.4</td><td>-13.0</td><td>-40.4</td><td></td></tr> <tr><td>1.6730</td><td>0.7</td><td>H</td><td>3.0</td><td>38.2</td><td>1.0</td><td>-36.5</td><td>-13.0</td><td>-23.5</td><td></td></tr> <tr><td>2.5090</td><td>-6.2</td><td>H</td><td>3.0</td><td>38.8</td><td>1.0</td><td>-44.1</td><td>-13.0</td><td>-31.1</td><td></td></tr> <tr><td>3.3460</td><td>-13.1</td><td>H</td><td>3.0</td><td>39.5</td><td>1.0</td><td>-51.5</td><td>-13.0</td><td>-38.5</td><td></td></tr> <tr><td colspan="10">High Channel (847.5MHz)</td></tr> <tr><td>1.6950</td><td>-1.9</td><td>V</td><td>3.0</td><td>38.2</td><td>1.0</td><td>-39.2</td><td>-13.0</td><td>-26.2</td><td></td></tr> <tr><td>2.5425</td><td>-9.6</td><td>V</td><td>3.0</td><td>38.9</td><td>1.0</td><td>-47.5</td><td>-13.0</td><td>-34.5</td><td></td></tr> <tr><td>3.3900</td><td>-14.7</td><td>V</td><td>3.0</td><td>39.5</td><td>1.0</td><td>-53.2</td><td>-13.0</td><td>-40.2</td><td></td></tr> <tr><td>1.6950</td><td>-2.2</td><td>H</td><td>3.0</td><td>38.2</td><td>1.0</td><td>-39.4</td><td>-13.0</td><td>-26.4</td><td></td></tr> <tr><td>2.5425</td><td>-6.1</td><td>H</td><td>3.0</td><td>38.9</td><td>1.0</td><td>-44.0</td><td>-13.0</td><td>-31.0</td><td></td></tr> <tr><td>3.3900</td><td>-13.8</td><td>H</td><td>3.0</td><td>39.5</td><td>1.0</td><td>-52.3</td><td>-13.0</td><td>-39.3</td><td></td></tr> </tbody> </table>	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	-6.5	V	3.0	38.2	1.0	-43.8	-13.0	-30.8		2.4765	-2.5	V	3.0	38.8	1.0	-40.3	-13.0	-27.3		3.3020	-14.5	V	3.0	39.4	1.0	-52.9	-13.0	-39.9		1.6510	2.0	H	3.0	38.2	1.0	-35.3	-13.0	-22.3		2.4765	1.2	H	3.0	38.8	1.0	-36.6	-13.0	-23.6		3.3020	-11.0	H	3.0	39.4	1.0	-49.4	-13.0	-36.4		Mid Channel (836.5MHz)										1.6730	-1.9	V	3.0	38.2	1.0	-39.2	-13.0	-26.2		2.5090	-10.7	V	3.0	38.8	1.0	-48.5	-13.0	-35.5		3.3460	-15.0	V	3.0	39.5	1.0	-53.4	-13.0	-40.4		1.6730	0.7	H	3.0	38.2	1.0	-36.5	-13.0	-23.5		2.5090	-6.2	H	3.0	38.8	1.0	-44.1	-13.0	-31.1		3.3460	-13.1	H	3.0	39.5	1.0	-51.5	-13.0	-38.5		High Channel (847.5MHz)										1.6950	-1.9	V	3.0	38.2	1.0	-39.2	-13.0	-26.2		2.5425	-9.6	V	3.0	38.9	1.0	-47.5	-13.0	-34.5		3.3900	-14.7	V	3.0	39.5	1.0	-53.2	-13.0	-40.2		1.6950	-2.2	H	3.0	38.2	1.0	-39.4	-13.0	-26.4		2.5425	-6.1	H	3.0	38.9	1.0	-44.0	-13.0	-31.0		3.3900	-13.8	H	3.0	39.5	1.0	-52.3	-13.0	-39.3		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																																																																																																																																																																																																																					
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1.6510	-6.5	V	3.0	38.2	1.0	-43.8	-13.0	-30.8																																																																																																																																																																																																																						
2.4765	-2.5	V	3.0	38.8	1.0	-40.3	-13.0	-27.3																																																																																																																																																																																																																						
3.3020	-14.5	V	3.0	39.4	1.0	-52.9	-13.0	-39.9																																																																																																																																																																																																																						
1.6510	2.0	H	3.0	38.2	1.0	-35.3	-13.0	-22.3																																																																																																																																																																																																																						
2.4765	1.2	H	3.0	38.8	1.0	-36.6	-13.0	-23.6																																																																																																																																																																																																																						
3.3020	-11.0	H	3.0	39.4	1.0	-49.4	-13.0	-36.4																																																																																																																																																																																																																						
Mid Channel (836.5MHz)																																																																																																																																																																																																																														
1.6730	-1.9	V	3.0	38.2	1.0	-39.2	-13.0	-26.2																																																																																																																																																																																																																						
2.5090	-10.7	V	3.0	38.8	1.0	-48.5	-13.0	-35.5																																																																																																																																																																																																																						
3.3460	-15.0	V	3.0	39.5	1.0	-53.4	-13.0	-40.4																																																																																																																																																																																																																						
1.6730	0.7	H	3.0	38.2	1.0	-36.5	-13.0	-23.5																																																																																																																																																																																																																						
2.5090	-6.2	H	3.0	38.8	1.0	-44.1	-13.0	-31.1																																																																																																																																																																																																																						
3.3460	-13.1	H	3.0	39.5	1.0	-51.5	-13.0	-38.5																																																																																																																																																																																																																						
High Channel (847.5MHz)																																																																																																																																																																																																																														
1.6950	-1.9	V	3.0	38.2	1.0	-39.2	-13.0	-26.2																																																																																																																																																																																																																						
2.5425	-9.6	V	3.0	38.9	1.0	-47.5	-13.0	-34.5																																																																																																																																																																																																																						
3.3900	-14.7	V	3.0	39.5	1.0	-53.2	-13.0	-40.2																																																																																																																																																																																																																						
1.6950	-2.2	H	3.0	38.2	1.0	-39.4	-13.0	-26.4																																																																																																																																																																																																																						
2.5425	-6.1	H	3.0	38.9	1.0	-44.0	-13.0	-31.0																																																																																																																																																																																																																						
3.3900	-13.8	H	3.0	39.5	1.0	-52.3	-13.0	-39.3																																																																																																																																																																																																																						
LTE Band 5 3MHz 16QAM	Company: Samsung Project #: 4787892916 Date: 03-23-17 Test Engineer: JH Park Configuration: EUT / AC Adapter / Earphone, X Position Mode: TX, LTE BAND 5, 3MHz BW, 16QAM																																																																																																																																																																																																																													
	Chamber: Chamber 2 Pre-amplifier: AFS42 Filter: Filter 1 Limit: Part 22																																																																																																																																																																																																																													
	<table border="1"> <thead> <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> </thead> <tbody> <tr><td colspan="10">Low Channel (825.5MHz)</td></tr> <tr><td>1.6510</td><td>-6.9</td><td>V</td><td>3.0</td><td>38.2</td><td>1.0</td><td>-44.1</td><td>-13.0</td><td>-31.1</td><td></td></tr> <tr><td>2.4765</td><td>-2.4</td><td>V</td><td>3.0</td><td>38.8</td><td>1.0</td><td>-40.2</td><td>-13.0</td><td>-27.2</td><td></td></tr> <tr><td>3.3020</td><td>-15.1</td><td>V</td><td>3.0</td><td>39.4</td><td>1.0</td><td>-53.5</td><td>-13.0</td><td>-40.5</td><td></td></tr> <tr><td>1.6510</td><td>1.4</td><td>H</td><td>3.0</td><td>38.2</td><td>1.0</td><td>-35.8</td><td>-13.0</td><td>-22.8</td><td></td></tr> <tr><td>2.4765</td><td>2.0</td><td>H</td><td>3.0</td><td>38.8</td><td>1.0</td><td>-35.8</td><td>-13.0</td><td>-22.8</td><td></td></tr> <tr><td>3.3020</td><td>-11.6</td><td>H</td><td>3.0</td><td>39.4</td><td>1.0</td><td>-50.0</td><td>-13.0</td><td>-37.0</td><td></td></tr> <tr><td colspan="10">Mid Channel (836.5MHz)</td></tr> <tr><td>1.6730</td><td>-1.0</td><td>V</td><td>3.0</td><td>38.2</td><td>1.0</td><td>-38.3</td><td>-13.0</td><td>-25.3</td><td></td></tr> <tr><td>2.5090</td><td>-11.0</td><td>V</td><td>3.0</td><td>38.8</td><td>1.0</td><td>-48.8</td><td>-13.0</td><td>-35.8</td><td></td></tr> <tr><td>3.3460</td><td>-14.0</td><td>V</td><td>3.0</td><td>39.5</td><td>1.0</td><td>-52.5</td><td>-13.0</td><td>-39.5</td><td></td></tr> <tr><td>1.6730</td><td>1.1</td><td>H</td><td>3.0</td><td>38.2</td><td>1.0</td><td>-36.1</td><td>-13.0</td><td>-23.1</td><td></td></tr> <tr><td>2.5090</td><td>-4.9</td><td>H</td><td>3.0</td><td>38.8</td><td>1.0</td><td>-42.8</td><td>-13.0</td><td>-29.8</td><td></td></tr> <tr><td>3.3460</td><td>-14.0</td><td>H</td><td>3.0</td><td>39.5</td><td>1.0</td><td>-52.5</td><td>-13.0</td><td>-39.5</td><td></td></tr> <tr><td colspan="10">High Channel (847.5MHz)</td></tr> <tr><td>1.6950</td><td>-2.4</td><td>V</td><td>3.0</td><td>38.2</td><td>1.0</td><td>-39.6</td><td>-13.0</td><td>-26.6</td><td></td></tr> <tr><td>2.5425</td><td>-9.4</td><td>V</td><td>3.0</td><td>38.9</td><td>1.0</td><td>-47.2</td><td>-13.0</td><td>-34.2</td><td></td></tr> <tr><td>3.3900</td><td>-14.1</td><td>V</td><td>3.0</td><td>39.5</td><td>1.0</td><td>-52.6</td><td>-13.0</td><td>-39.6</td><td></td></tr> <tr><td>1.6950</td><td>-2.8</td><td>H</td><td>3.0</td><td>38.2</td><td>1.0</td><td>-40.1</td><td>-13.0</td><td>-27.1</td><td></td></tr> <tr><td>2.5425</td><td>-6.0</td><td>H</td><td>3.0</td><td>38.9</td><td>1.0</td><td>-43.9</td><td>-13.0</td><td>-30.9</td><td></td></tr> <tr><td>3.3900</td><td>-14.0</td><td>H</td><td>3.0</td><td>39.5</td><td>1.0</td><td>-52.5</td><td>-13.0</td><td>-39.5</td><td></td></tr> </tbody> </table>	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	-6.9	V	3.0	38.2	1.0	-44.1	-13.0	-31.1		2.4765	-2.4	V	3.0	38.8	1.0	-40.2	-13.0	-27.2		3.3020	-15.1	V	3.0	39.4	1.0	-53.5	-13.0	-40.5		1.6510	1.4	H	3.0	38.2	1.0	-35.8	-13.0	-22.8		2.4765	2.0	H	3.0	38.8	1.0	-35.8	-13.0	-22.8		3.3020	-11.6	H	3.0	39.4	1.0	-50.0	-13.0	-37.0		Mid Channel (836.5MHz)										1.6730	-1.0	V	3.0	38.2	1.0	-38.3	-13.0	-25.3		2.5090	-11.0	V	3.0	38.8	1.0	-48.8	-13.0	-35.8		3.3460	-14.0	V	3.0	39.5	1.0	-52.5	-13.0	-39.5		1.6730	1.1	H	3.0	38.2	1.0	-36.1	-13.0	-23.1		2.5090	-4.9	H	3.0	38.8	1.0	-42.8	-13.0	-29.8		3.3460	-14.0	H	3.0	39.5	1.0	-52.5	-13.0	-39.5		High Channel (847.5MHz)										1.6950	-2.4	V	3.0	38.2	1.0	-39.6	-13.0	-26.6		2.5425	-9.4	V	3.0	38.9	1.0	-47.2	-13.0	-34.2		3.3900	-14.1	V	3.0	39.5	1.0	-52.6	-13.0	-39.6		1.6950	-2.8	H	3.0	38.2	1.0	-40.1	-13.0	-27.1		2.5425	-6.0	H	3.0	38.9	1.0	-43.9	-13.0	-30.9		3.3900	-14.0	H	3.0	39.5	1.0	-52.5	-13.0	-39.5		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																																																																																																																																																																																																																					
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2.4765	-2.4	V	3.0	38.8	1.0	-40.2	-13.0	-27.2																																																																																																																																																																																																																						
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1.6510	1.4	H	3.0	38.2	1.0	-35.8	-13.0	-22.8																																																																																																																																																																																																																						
2.4765	2.0	H	3.0	38.8	1.0	-35.8	-13.0	-22.8																																																																																																																																																																																																																						
3.3020	-11.6	H	3.0	39.4	1.0	-50.0	-13.0	-37.0																																																																																																																																																																																																																						
Mid Channel (836.5MHz)																																																																																																																																																																																																																														
1.6730	-1.0	V	3.0	38.2	1.0	-38.3	-13.0	-25.3																																																																																																																																																																																																																						
2.5090	-11.0	V	3.0	38.8	1.0	-48.8	-13.0	-35.8																																																																																																																																																																																																																						
3.3460	-14.0	V	3.0	39.5	1.0	-52.5	-13.0	-39.5																																																																																																																																																																																																																						
1.6730	1.1	H	3.0	38.2	1.0	-36.1	-13.0	-23.1																																																																																																																																																																																																																						
2.5090	-4.9	H	3.0	38.8	1.0	-42.8	-13.0	-29.8																																																																																																																																																																																																																						
3.3460	-14.0	H	3.0	39.5	1.0	-52.5	-13.0	-39.5																																																																																																																																																																																																																						
High Channel (847.5MHz)																																																																																																																																																																																																																														
1.6950	-2.4	V	3.0	38.2	1.0	-39.6	-13.0	-26.6																																																																																																																																																																																																																						
2.5425	-9.4	V	3.0	38.9	1.0	-47.2	-13.0	-34.2																																																																																																																																																																																																																						
3.3900	-14.1	V	3.0	39.5	1.0	-52.6	-13.0	-39.6																																																																																																																																																																																																																						
1.6950	-2.8	H	3.0	38.2	1.0	-40.1	-13.0	-27.1																																																																																																																																																																																																																						
2.5425	-6.0	H	3.0	38.9	1.0	-43.9	-13.0	-30.9																																																																																																																																																																																																																						
3.3900	-14.0	H	3.0	39.5	1.0	-52.5	-13.0	-39.5																																																																																																																																																																																																																						

		UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement									
LTE Band 5 1.4MHz QPSK	Company: Samsung Project #: 4787892916 Date: 03-23-17 Test Engineer: JH Park Configuration: EUT / AC Adapter / Earphone, X Position Mode: TX, LTE BAND 5, 1.4MHz 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 (824.7MHz)										
	1.6494	-6.4	V	3.0	38.2	1.0	-43.6	-13.0	-30.6		
	2.4741	-5.1	V	3.0	38.8	1.0	-42.9	-13.0	-29.9		
	3.2988	-14.4	V	3.0	39.4	1.0	-52.8	-13.0	-39.8		
	1.6494	2.2	H	3.0	38.2	1.0	-35.0	-13.0	-22.0		
	2.4741	1.9	H	3.0	38.8	1.0	-36.0	-13.0	-23.0		
	3.2988	-9.9	H	3.0	39.4	1.0	-48.3	-13.0	-35.3		
	Mid Channel (836.5MHz)										
	1.6730	-0.9	V	3.0	38.2	1.0	-38.1	-13.0	-25.1		
	2.5090	-10.5	V	3.0	38.8	1.0	-48.3	-13.0	-35.3		
	3.3460	-14.7	V	3.0	39.5	1.0	-53.1	-13.0	-40.1		
1.6730	2.1	H	3.0	38.2	1.0	-35.1	-13.0	-22.1			
2.5090	-7.2	H	3.0	38.8	1.0	-45.0	-13.0	-32.0			
3.3460	-14.9	H	3.0	39.5	1.0	-53.3	-13.0	-40.3			
High Channel (848.3MHz)											
1.6966	-8.4	V	3.0	38.2	1.0	-45.7	-13.0	-32.7			
2.5449	-13.4	V	3.0	38.9	1.0	-51.3	-13.0	-38.3			
3.3932	-14.6	V	3.0	39.5	1.0	-53.1	-13.0	-40.1			
1.6966	-2.8	H	3.0	38.2	1.0	-40.1	-13.0	-27.1			
2.5449	-10.5	H	3.0	38.9	1.0	-48.4	-13.0	-35.4			
3.3932	-13.2	H	3.0	39.5	1.0	-51.7	-13.0	-38.7			
Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.											
LTE Band 5 1.4MHz 16QAM	Company: Samsung Project #: 4787892916 Date: 03-23-17 Test Engineer: JH Park Configuration: EUT / AC Adapter / Earphone, X Position Mode: TX, LTE BAND 5, 1.4MHz 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 (824.7MHz)										
	1.6494	-5.5	V	3.0	38.2	1.0	-42.7	-13.0	-29.7		
	2.4741	-5.7	V	3.0	38.8	1.0	-43.5	-13.0	-30.5		
	3.2988	-14.4	V	3.0	39.4	1.0	-52.8	-13.0	-39.8		
	1.6494	1.8	H	3.0	38.2	1.0	-35.5	-13.0	-22.5		
	2.4741	-1.8	H	3.0	38.8	1.0	-39.6	-13.0	-26.6		
	3.2988	-11.0	H	3.0	39.4	1.0	-49.4	-13.0	-36.4		
	Mid Channel (836.5MHz)										
	1.6730	-0.5	V	3.0	38.2	1.0	-37.8	-13.0	-24.8		
	2.5090	-11.0	V	3.0	38.8	1.0	-48.8	-13.0	-35.8		
	3.3460	-14.5	V	3.0	39.5	1.0	-53.0	-13.0	-40.0		
1.6730	1.7	H	3.0	38.2	1.0	-35.5	-13.0	-22.5			
2.5090	-7.8	H	3.0	38.8	1.0	-45.6	-13.0	-32.6			
3.3460	-15.0	H	3.0	39.5	1.0	-53.4	-13.0	-40.4			
High Channel (848.3MHz)											
1.6966	-8.6	V	3.0	38.2	1.0	-45.9	-13.0	-32.9			
2.5449	-13.8	V	3.0	38.9	1.0	-51.6	-13.0	-38.6			
3.3932	-13.4	V	3.0	39.5	1.0	-51.9	-13.0	-38.9			
1.6966	-2.3	H	3.0	38.2	1.0	-39.5	-13.0	-26.5			
2.5449	-10.4	H	3.0	38.9	1.0	-48.3	-13.0	-35.3			
3.3932	-13.0	H	3.0	39.5	1.0	-51.5	-13.0	-38.5			
Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.											