

Above 1GHz High Frequency Substitution Measurement									
Company:		Samsung							
Project #:		4788103295							
Date:		08-22-17							
Test Engineer:		Chan Park							
Configuration:		EUT / AC Adapter / Earphone, X Position							
Mode:		TX LTE BAND 5, 5MHz BW,QPSK							
Chamber		Pre-amplifier		Filter		Limit			
Chamber 2		AFS42		Filter 1		Part 22			
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
LTE									
Band 5									
5MHz									
QPSK									
Low Channel (826.5MHz)									
1.6530	-16.9	V	3.0	38.2	1.0	-54.1	-13.0	-41.1	
2.4790	-5.9	V	3.0	38.8	1.0	-43.7	-13.0	-30.7	
3.3060	-10.7	V	3.0	39.4	1.0	-49.1	-13.0	-36.1	
4.1325	-12.3	V	3.0	39.8	1.0	-51.1	-13.0	-38.1	
1.6530	-16.2	H	3.0	38.2	1.0	-53.4	-13.0	-40.4	
2.4790	-5.5	H	3.0	38.8	1.0	-43.3	-13.0	-30.3	
3.3060	-9.4	H	3.0	39.4	1.0	-47.8	-13.0	-34.8	
4.1325	-10.5	H	3.0	39.8	1.0	-49.3	-13.0	-36.3	
Mid Channel (836.5MHz)									
1.6730	-13.7	V	3.0	38.2	1.0	-50.9	-13.0	-37.9	
2.5090	-2.1	V	3.0	38.8	1.0	-39.9	-13.0	-26.9	
3.3460	-11.1	V	3.0	39.5	1.0	-49.5	-13.0	-36.5	
4.1825	-9.4	V	3.0	39.8	1.0	-48.2	-13.0	-35.2	
1.6730	-13.5	H	3.0	38.2	1.0	-50.8	-13.0	-37.8	
2.5090	-4.8	H	3.0	38.8	1.0	-42.6	-13.0	-29.6	
3.3460	-7.9	H	3.0	39.5	1.0	-46.3	-13.0	-33.3	
4.1825	-9.3	H	3.0	39.8	1.0	-48.1	-13.0	-35.1	
High Channel (846.5MHz)									
1.6930	-13.9	V	3.0	38.2	1.0	-51.2	-13.0	-38.2	
2.5390	-8.2	V	3.0	38.9	1.0	-46.0	-13.0	-33.0	
3.3860	-10.2	V	3.0	39.5	1.0	-48.6	-13.0	-35.6	
4.2325	-9.4	V	4.0	39.8	2.0	-44.7	-13.0	-31.7	
1.6930	-12.7	H	3.0	38.2	1.0	-49.9	-13.0	-36.9	
2.5390	-7.8	H	3.0	38.9	1.0	-45.7	-13.0	-32.7	
3.3860	-7.1	H	3.0	39.5	1.0	-45.6	-13.0	-32.6	
4.2325	-10.2	H	3.0	39.8	1.0	-49.0	-13.0	-36.0	
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									
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Date:		08-22-17							
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Configuration:		EUT / AC Adapter / Earphone, X Position							
Mode:		TX, LTE BAND 5, 5MHz BW, 16QAM							
Chamber		Pre-amplifier			Filter		Limit		
Chamber 2		AFS42			Filter 1		Part 22		
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
LTE									
Band 5									
5MHz									
16QAM									
Low Channel (826.5MHz)									
1.6530	-16.8	V	3.0	38.2	1.0	-54.0	-13.0	-41.0	
2.4790	-6.3	V	3.0	38.8	1.0	-44.1	-13.0	-31.1	
3.3060	-11.1	V	3.0	39.4	1.0	-49.6	-13.0	-36.6	
4.1325	-13.1	V	3.0	39.8	1.0	-51.9	-13.0	-38.9	
1.6530	-16.2	H	3.0	38.2	1.0	-53.4	-13.0	-40.4	
2.4790	-6.0	H	3.0	38.8	1.0	-43.8	-13.0	-30.8	
3.3060	-9.8	H	3.0	39.4	1.0	-48.3	-13.0	-35.3	
4.1325	-10.8	H	3.0	39.8	1.0	-49.6	-13.0	-36.6	
Mid Channel (836.5MHz)									
1.6730	-14.2	V	3.0	38.2	1.0	-51.5	-13.0	-38.5	
2.5090	-3.0	V	3.0	38.8	1.0	-40.9	-13.0	-27.9	
3.3460	-11.5	V	3.0	39.5	1.0	-50.0	-13.0	-37.0	
4.1825	-10.5	V	3.0	39.8	1.0	-49.3	-13.0	-36.3	
1.6730	-13.6	H	3.0	38.2	1.0	-50.8	-13.0	-37.8	
2.5090	-5.4	H	3.0	38.8	1.0	-43.3	-13.0	-30.3	
3.3460	-8.6	H	3.0	39.5	1.0	-47.1	-13.0	-34.1	
4.1825	-9.9	H	3.0	39.8	1.0	-48.7	-13.0	-35.7	
High Channel (846.5MHz)									
1.6930	-14.1	V	3.0	38.2	1.0	-51.4	-13.0	-38.4	
2.5390	-8.3	V	3.0	38.9	1.0	-46.1	-13.0	-33.1	
3.3860	-10.1	V	3.0	39.5	1.0	-48.6	-13.0	-35.6	
4.2325	-9.5	V	4.0	39.8	2.0	-44.8	-13.0	-31.8	
1.6930	-13.1	H	3.0	38.2	1.0	-50.4	-13.0	-37.4	
2.5390	-8.3	H	3.0	38.9	1.0	-46.2	-13.0	-33.2	
3.3860	-7.6	H	3.0	39.5	1.0	-46.1	-13.0	-33.1	
4.2325	-10.6	H	3.0	39.8	1.0	-49.4	-13.0	-36.4	
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 #:		4788103295							
Date:		08-21-17							
Test Engineer:		YH Lim							
Configuration:		EUT / AC Adapter / Earphone, X Position							
Mode:		TX, LTE BAND 5, 3MHz 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
LTE									
Band 5									
3MHz									
QPSK									
Low Channel (825.5MHz)									
1.6510	-16.8	V	3.0	38.2	1.0	-54.1	-13.0	-41.1	
2.4765	-5.7	V	3.0	38.8	1.0	-43.5	-13.0	-30.5	
3.3020	-10.3	V	3.0	39.4	1.0	-48.8	-13.0	-35.8	
4.1275	-11.4	V	3.0	39.8	1.0	-50.2	-13.0	-37.2	
1.6510	-16.3	H	3.0	38.2	1.0	-53.5	-13.0	-40.5	
2.4765	-5.7	H	3.0	38.8	1.0	-43.5	-13.0	-30.5	
3.3020	-9.3	H	3.0	39.4	1.0	-47.7	-13.0	-34.7	
4.1275	-10.2	H	3.0	39.8	1.0	-49.0	-13.0	-36.0	
Mid Channel (836.5MHz)									
1.6730	-14.0	V	3.0	38.2	1.0	-51.3	-13.0	-38.3	
2.5090	-1.6	V	3.0	38.8	1.0	-39.5	-13.0	-26.5	
3.3460	-10.8	V	3.0	39.5	1.0	-49.2	-13.0	-36.2	
4.1825	-9.8	V	3.0	39.8	1.0	-48.6	-13.0	-35.6	
1.6730	-13.8	H	3.0	38.2	1.0	-51.0	-13.0	-38.0	
2.5090	-4.2	H	3.0	38.8	1.0	-42.1	-13.0	-29.1	
3.3460	-8.7	H	3.0	39.5	1.0	-47.1	-13.0	-34.1	
4.1825	-9.4	H	3.0	39.8	1.0	-48.2	-13.0	-35.2	
High Channel (847.5MHz)									
1.6950	-13.8	V	3.0	38.2	1.0	-51.0	-13.0	-38.0	
2.5425	-8.6	V	3.0	38.9	1.0	-46.5	-13.0	-33.5	
3.3900	-10.0	V	3.0	39.5	1.0	-48.5	-13.0	-35.5	
4.2375	-9.1	V	4.0	39.8	2.0	-44.4	-13.0	-31.4	
1.6950	-12.8	H	3.0	38.2	1.0	-50.0	-13.0	-37.0	
2.5425	-7.9	H	3.0	38.9	1.0	-45.8	-13.0	-32.8	
3.3900	-6.9	H	3.0	39.5	1.0	-45.4	-13.0	-32.4	
4.2375	-10.3	H	3.0	39.8	1.0	-49.2	-13.0	-36.2	
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 #: 4788103295 Date: 08-21-17 Test Engineer: YH Lim Configuration: EUT / AC Adapter / Earphone, X Position Mode: TX, LTE BAND 5, 3MHz 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
LTE Band 5 3MHz 16QAM	Low Channel (825.5MHz)									
	1.6510	-16.8	V	3.0	38.2	1.0	-54.0	-13.0	-41.0	
	2.4765	-5.2	V	3.0	38.8	1.0	-43.0	-13.0	-30.0	
	3.3020	-10.6	V	3.0	39.4	1.0	-49.0	-13.0	-36.0	
	4.1275	-12.1	V	3.0	39.8	1.0	-50.9	-13.0	-37.9	
	1.6510	-16.5	H	3.0	38.2	1.0	-53.7	-13.0	-40.7	
	2.4765	-6.7	H	3.0	38.8	1.0	-44.5	-13.0	-31.5	
	3.3020	-8.6	H	3.0	39.4	1.0	-47.0	-13.0	-34.0	
	4.1275	-10.3	H	3.0	39.8	1.0	-49.1	-13.0	-36.1	
	Mid Channel (836.5MHz)									
	1.6730	-14.5	V	3.0	38.2	1.0	-51.8	-13.0	-38.8	
	2.5090	-1.9	V	3.0	38.8	1.0	-39.7	-13.0	-26.7	
	3.3460	-11.9	V	3.0	39.5	1.0	-50.3	-13.0	-37.3	
	4.1825	-9.8	V	3.0	39.8	1.0	-48.6	-13.0	-35.6	
	1.6730	-14.0	H	3.0	38.2	1.0	-51.2	-13.0	-38.2	
	2.5090	-3.5	H	3.0	38.8	1.0	-41.4	-13.0	-28.4	
	3.3460	-8.9	H	3.0	39.5	1.0	-47.3	-13.0	-34.3	
	4.1825	-9.6	H	3.0	39.8	1.0	-48.4	-13.0	-35.4	
	High Channel (847.5MHz)									
	1.6950	-13.7	V	3.0	38.2	1.0	-51.0	-13.0	-38.0	
	2.5425	-10.7	V	3.0	38.9	1.0	-48.5	-13.0	-35.5	
	3.3900	-10.5	V	3.0	39.5	1.0	-49.0	-13.0	-36.0	
	4.2375	-9.8	V	4.0	39.8	2.0	-45.2	-13.0	-32.2	
	1.6950	-12.7	H	3.0	38.2	1.0	-50.0	-13.0	-37.0	
	2.5425	-8.3	H	3.0	38.9	1.0	-46.2	-13.0	-33.2	
	3.3900	-7.5	H	3.0	39.5	1.0	-46.0	-13.0	-33.0	
	4.2375	-10.5	H	3.0	39.8	1.0	-49.3	-13.0	-36.3	
Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.										

UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement									
Company:		Samsung							
Project #:		4788103295							
Date:		08-21-17							
Test Engineer:		YH Lim							
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)									
LTE	1.6494	-15.7	V	3.0	38.2	1.0	-52.9	-13.0	-39.9
	2.4741	-4.7	V	3.0	38.8	1.0	-42.5	-13.0	-29.5
Band 5	3.2988	-9.4	V	3.0	39.4	1.0	-47.8	-13.0	-34.8
	4.1235	-11.7	V	3.0	39.8	1.0	-50.6	-13.0	-37.6
1.4MHz	1.6494	-14.9	H	3.0	38.2	1.0	-52.2	-13.0	-39.2
	2.4741	-5.9	H	3.0	38.8	1.0	-43.7	-13.0	-30.7
QPSK	3.2988	-8.9	H	3.0	39.4	1.0	-47.3	-13.0	-34.3
	4.1235	-10.4	H	3.0	39.8	1.0	-49.2	-13.0	-36.2
Mid Channel (836.5MHz)									
	1.6730	-14.1	V	3.0	38.2	1.0	-51.4	-13.0	-38.4
	2.5090	-0.9	V	3.0	38.8	1.0	-38.8	-13.0	-25.8
	3.3460	-11.2	V	3.0	39.5	1.0	-49.7	-13.0	-36.7
	4.1825	-9.4	V	3.0	39.8	1.0	-48.2	-13.0	-35.2
	1.6730	-12.1	H	3.0	38.2	1.0	-49.4	-13.0	-36.4
	2.5090	-4.3	H	3.0	38.8	1.0	-42.1	-13.0	-29.1
	3.3460	-8.4	H	3.0	39.5	1.0	-46.8	-13.0	-33.8
	4.1825	-8.1	H	3.0	39.8	1.0	-46.9	-13.0	-33.9
High Channel (848.3MHz)									
	1.6966	-15.2	V	3.0	38.2	1.0	-52.4	-13.0	-39.4
	2.5449	-8.4	V	3.0	38.9	1.0	-46.3	-13.0	-33.3
	3.3932	-10.2	V	3.0	39.5	1.0	-48.7	-13.0	-35.7
	4.2415	-9.4	V	4.0	39.8	2.0	-44.7	-13.0	-31.7
	1.6966	-13.7	H	3.0	38.2	1.0	-50.9	-13.0	-37.9
	2.5449	-8.4	H	3.0	38.9	1.0	-46.3	-13.0	-33.3
	3.3932	-7.2	H	3.0	39.5	1.0	-45.7	-13.0	-32.7
	4.2415	-10.1	H	3.0	39.8	1.0	-48.9	-13.0	-35.9
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 #: 4788103295 Date: 08-21-17 Test Engineer: YH Lim 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
LTE Band 5 1.4MHz 16QAM	Low Channel (824.7MHz)									
	1.6494	-16.0	V	3.0	38.2	1.0	-53.2	-13.0	-40.2	
	2.4741	-5.4	V	3.0	38.8	1.0	-43.2	-13.0	-30.2	
	3.2988	-9.3	V	3.0	39.4	1.0	-47.8	-13.0	-34.8	
	4.1235	-11.9	V	3.0	39.8	1.0	-50.7	-13.0	-37.7	
	1.6494	-16.0	H	3.0	38.2	1.0	-53.3	-13.0	-40.3	
	2.4741	-6.1	H	3.0	38.8	1.0	-43.9	-13.0	-30.9	
	3.2988	-9.8	H	3.0	39.4	1.0	-48.3	-13.0	-35.3	
	4.1235	-10.4	H	3.0	39.8	1.0	-49.2	-13.0	-36.2	
	Mid Channel (836.5MHz)									
	1.6730	-13.8	V	3.0	38.2	1.0	-51.0	-13.0	-38.0	
	2.5090	-1.1	V	3.0	38.8	1.0	-38.9	-13.0	-25.9	
	3.3460	-11.7	V	3.0	39.5	1.0	-50.1	-13.0	-37.1	
	4.1825	-9.4	V	3.0	39.8	1.0	-48.2	-13.0	-35.2	
	1.6730	-12.5	H	3.0	38.2	1.0	-49.8	-13.0	-36.8	
	2.5090	-4.1	H	3.0	38.8	1.0	-41.9	-13.0	-28.9	
	3.3460	-8.7	H	3.0	39.5	1.0	-47.2	-13.0	-34.2	
	4.1825	-8.2	H	3.0	39.8	1.0	-47.0	-13.0	-34.0	
	High Channel (848.3MHz)									
	1.6966	-14.9	V	3.0	38.2	1.0	-52.2	-13.0	-39.2	
	2.5449	-9.5	V	3.0	38.9	1.0	-47.4	-13.0	-34.4	
	3.3932	-10.7	V	3.0	39.5	1.0	-49.2	-13.0	-36.2	
	4.2415	-10.7	V	4.0	39.8	2.0	-46.0	-13.0	-33.0	
	1.6966	-12.9	H	3.0	38.2	1.0	-50.1	-13.0	-37.1	
	2.5449	-9.2	H	3.0	38.9	1.0	-47.1	-13.0	-34.1	
	3.3932	-6.8	H	3.0	39.5	1.0	-45.3	-13.0	-32.3	
	4.2415	-10.8	H	3.0	39.8	1.0	-49.6	-13.0	-36.6	
Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.										

LTE Band 4

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LTE Band 4 20MHz QPSK	Company: Samsung Project#: 4788103295 Date: 09-01-17 Test Engineer: Chan Park Configuration: EUT / AC Adapter / Ear Phone / Z-Position Mode: TX, LTE BAND 4, 20MHz BW, QPSK																																																																																																																																																																																																																														
	<div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 2px;">Chamber</div> <div style="border: 1px solid black; padding: 2px;">Pre-amplifier</div> <div style="border: 1px solid black; padding: 2px;">Filter</div> <div style="border: 1px solid black; padding: 2px;">Limit</div> </div> <div style="display: flex; justify-content: space-around; margin-top: 5px;"> <div style="border: 1px solid black; padding: 2px;">Chamber 2</div> <div style="border: 1px solid black; padding: 2px;">AFS42</div> <div style="border: 1px solid black; padding: 2px;">Filter 1</div> <div style="border: 1px solid black; padding: 2px;">FCC Part 27</div> </div>																																																																																																																																																																																																																														
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3.4900	-1.2	V	3.0	39.5	1.0	-39.8	-13.0	-26.8																																																																																																																																																																																																																							
5.2350	-2.3	V	3.0	39.8	1.0	-41.2	-13.0	-28.2																																																																																																																																																																																																																							
6.9800	-2.5	V	3.0	39.6	1.0	-41.2	-13.0	-28.2																																																																																																																																																																																																																							
3.4900	2.3	H	3.0	39.5	1.0	-36.3	-13.0	-23.3																																																																																																																																																																																																																							
5.2350	-4.8	H	3.0	39.8	1.0	-43.6	-13.0	-30.6																																																																																																																																																																																																																							
6.9800	-6.3	H	3.0	39.6	1.0	-44.9	-13.0	-31.9																																																																																																																																																																																																																							
	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 4 15MHz QPSK		Company: Samsung									
		Project #: 4788103295									
		Date: 09-01-17									
		Test Engineer: Chan Park									
		Configuration: EUT / AC Adapter / Ear Phone / Z-Position									
		Mode: TX, LTE BAND 4, 15MHz BW,QPSK									
		Chamber Chamber 2		Pre-amplifier AFS42		Filter Filter 1		Limit FCC Part 27			
		f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
		Low Channel (1717.5MHz)									
		3.4350	-2.9	V	3.0	39.5	1.0	-41.4	-13.0	-28.4	
		5.1525	-1.4	V	3.0	39.8	1.0	-40.2	-13.0	-27.2	
		6.8700	0.0	V	3.0	39.7	1.0	-38.6	-13.0	-25.6	
		3.4350	1.9	H	3.0	39.5	1.0	-36.6	-13.0	-23.6	
		5.1525	-3.1	H	3.0	39.8	1.0	-41.9	-13.0	-28.9	
		6.8700	-6.7	H	3.0	39.7	1.0	-45.3	-13.0	-32.3	
		Mid Channel (1732.5MHz)									
		3.4650	-1.7	V	3.0	39.5	1.0	-40.2	-13.0	-27.2	
		5.1975	1.5	V	3.0	39.8	1.0	-37.3	-13.0	-24.3	
		6.9300	0.5	V	3.0	39.7	1.0	-38.1	-13.0	-25.1	
		3.4650	1.7	H	3.0	39.5	1.0	-36.8	-13.0	-23.8	
		5.1975	-3.0	H	3.0	39.8	1.0	-41.8	-13.0	-28.8	
		6.9300	-6.0	H	3.0	39.7	1.0	-44.6	-13.0	-31.6	
		High Channel (1747.5MHz)									
		3.4950	-1.6	V	3.0	39.5	1.0	-40.2	-13.0	-27.2	
		5.2425	0.2	V	3.0	39.8	1.0	-38.6	-13.0	-25.6	
		6.9900	-0.6	V	3.0	39.6	1.0	-39.2	-13.0	-26.2	
		3.4950	1.1	H	3.0	39.5	1.0	-37.4	-13.0	-24.4	
		5.2425	-4.1	H	3.0	39.8	1.0	-43.0	-13.0	-30.0	
		6.9900	-6.1	H	3.0	39.6	1.0	-44.7	-13.0	-31.7	
		Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.									
LTE Band 4 15MHz 16QAM		UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement									
		Company: Samsung									
		Project #: 4788103295									
		Date: 09-01-17									
		Test Engineer: Chan Park									
		Configuration: EUT / AC Adapter / Ear Phone / Z-Position									
		Mode: TX, LTE BAND 4, 15MHz BW,16QAM									
		Chamber Chamber 2		Pre-amplifier AFS42		Filter Filter 1		Limit FCC Part 27			
		f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
		Low Channel (1717.5MHz)									
		3.4350	-2.5	V	3.0	39.5	1.0	-41.0	-13.0	-28.0	
		5.1525	-1.6	V	3.0	39.8	1.0	-40.4	-13.0	-27.4	
		6.8700	0.0	V	3.0	39.7	1.0	-38.7	-13.0	-25.7	
		3.4350	1.8	H	3.0	39.5	1.0	-36.7	-13.0	-23.7	
		5.1525	-3.0	H	3.0	39.8	1.0	-41.8	-13.0	-28.8	
		6.8700	-6.9	H	3.0	39.7	1.0	-45.6	-13.0	-32.6	
		Mid Channel (1732.5MHz)									
		3.4650	-1.8	V	3.0	39.5	1.0	-40.3	-13.0	-27.3	
		5.1975	1.4	V	3.0	39.8	1.0	-37.4	-13.0	-24.4	
		6.9300	0.5	V	3.0	39.7	1.0	-38.2	-13.0	-25.2	
		3.4650	1.5	H	3.0	39.5	1.0	-37.0	-13.0	-24.0	
		5.1975	-2.9	H	3.0	39.8	1.0	-41.8	-13.0	-28.8	
		6.9300	-6.1	H	3.0	39.7	1.0	-44.7	-13.0	-31.7	
		High Channel (1747.5MHz)									
		3.4950	-1.6	V	3.0	39.5	1.0	-40.2	-13.0	-27.2	
		5.2425	0.2	V	3.0	39.8	1.0	-38.6	-13.0	-25.6	
		6.9900	-0.5	V	3.0	39.6	1.0	-39.1	-13.0	-26.1	
		3.4950	1.0	H	3.0	39.5	1.0	-37.5	-13.0	-24.5	
		5.2425	-4.1	H	3.0	39.8	1.0	-42.9	-13.0	-29.9	
		6.9900	-6.3	H	3.0	39.6	1.0	-44.9	-13.0	-31.9	
		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 4 10MHz QPSK	Company:	Samsung										
	Project #:	4788103295										
	Date:	09-01-17										
	Test Engineer:	Chan Park										
	Configuration:	EUT / AC Adapter / Ear Phone / Z-Position										
	Mode:	TX, LTE BAND 4, 10MHz BW, QPSK										
			Chamber	Pre-amplifier	Filter	Limit						
			Chamber 2	AFS42	Filter 1	FCC Part 27						
			f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
			Low Channel (1715MHz)									
		3.4300	-1.4	V	3.0	39.5	1.0	-39.9	-13.0	-26.9		
		5.1450	0.6	V	3.0	39.8	1.0	-38.2	-13.0	-25.2		
		6.8600	0.9	V	3.0	39.7	1.0	-37.8	-13.0	-24.8		
		3.4300	2.1	H	3.0	39.5	1.0	-36.4	-13.0	-23.4		
		5.1450	-4.2	H	3.0	39.8	1.0	-43.0	-13.0	-30.0		
		6.8600	-6.5	H	3.0	39.7	1.0	-45.2	-13.0	-32.2		
		Mid Channel (1732.5MHz)										
		3.4650	-1.2	V	3.0	39.5	1.0	-39.7	-13.0	-26.7		
		5.1975	0.9	V	3.0	39.8	1.0	-37.9	-13.0	-24.9		
		6.9300	0.8	V	3.0	39.7	1.0	-37.9	-13.0	-24.9		
		3.4650	1.9	H	3.0	39.5	1.0	-36.6	-13.0	-23.6		
		5.1975	-2.9	H	3.0	39.8	1.0	-41.7	-13.0	-28.7		
		6.9300	-7.4	H	3.0	39.7	1.0	-46.1	-13.0	-33.1		
		High Channel (1750MHz)										
		3.5000	-0.8	V	3.0	39.5	1.0	-39.3	-13.0	-26.3		
		5.2500	0.6	V	3.0	39.8	1.0	-38.3	-13.0	-25.3		
		7.0000	1.7	V	3.0	39.6	1.0	-36.9	-13.0	-23.9		
		3.5000	1.6	H	3.0	39.5	1.0	-36.9	-13.0	-23.9		
		5.2500	-3.9	H	3.0	39.8	1.0	-42.8	-13.0	-29.8		
		7.0000	1.1	H	3.0	39.6	1.0	-37.5	-13.0	-24.5		
		Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.										
		UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement										
		Company:	Samsung									
		Project #:	4788103295									
		Date:	09-01-17									
		Test Engineer:	Chan Park									
		Configuration:	EUT / AC Adapter / Ear Phone / Z-Position									
		Mode:	TX, LTE BAND 4, 10MHz BW, 16QAM									
		Chamber	Pre-amplifier	Filter	Limit							
		Chamber 2	AFS42	Filter 1	FCC Part 27							
		f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes	
		Low Channel (1715MHz)										
		3.4300	-1.6	V	3.0	39.5	1.0	-40.1	-13.0	-27.1		
		5.1450	0.6	V	3.0	39.8	1.0	-38.2	-13.0	-25.2		
		6.8600	1.1	V	3.0	39.7	1.0	-37.6	-13.0	-24.6		
		3.4300	2.0	H	3.0	39.5	1.0	-36.5	-13.0	-23.5		
		5.1450	-4.2	H	3.0	39.8	1.0	-43.0	-13.0	-30.0		
		6.8600	-6.7	H	3.0	39.7	1.0	-45.4	-13.0	-32.4		
		Mid Channel (1732.5MHz)										
		3.4650	-1.2	V	3.0	39.5	1.0	-39.7	-13.0	-26.7		
		5.1975	0.6	V	3.0	39.8	1.0	-38.3	-13.0	-25.3		
		6.9300	0.8	V	3.0	39.7	1.0	-37.9	-13.0	-24.9		
		3.4650	1.8	H	3.0	39.5	1.0	-36.7	-13.0	-23.7		
		5.1975	-2.4	H	3.0	39.8	1.0	-41.3	-13.0	-28.3		
		6.9300	-7.3	H	3.0	39.7	1.0	-46.0	-13.0	-33.0		
		High Channel (1750MHz)										
		3.5000	-0.6	V	3.0	39.5	1.0	-39.1	-13.0	-26.1		
		5.2500	0.5	V	3.0	39.8	1.0	-38.4	-13.0	-25.4		
		7.0000	2.0	V	3.0	39.6	1.0	-36.6	-13.0	-23.6		
		3.5000	1.4	H	3.0	39.5	1.0	-37.1	-13.0	-24.1		
		5.2500	-3.9	H	3.0	39.8	1.0	-42.7	-13.0	-29.7		
		7.0000	1.0	H	3.0	39.6	1.0	-37.7	-13.0	-24.7		
		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 4 5MHz QPSK	Company:	Samsung									
	Project #:	4788103295									
	Date:	09-01-17									
	Test Engineer:	Chan Park									
	Configuration:	EUT / AC Adapter / Ear Phone / Z-Position									
	Mode:	TX, LTE BAND 4, 5MHz BW, QPSK									
			Chamber		Pre-amplifier		Filter		Limit		
			Chamber 2		AFS42		Filter 1		FCC Part 27		
	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes	
	Low Channel (1712.5MHz)										
	3.4250	-1.4	V	3.0	39.5	1.0	-39.9	-13.0	-26.9		
	5.1375	1.2	V	3.0	39.8	1.0	-37.6	-13.0	-24.6		
	6.8500	-0.3	V	3.0	39.7	1.0	-38.9	-13.0	-25.9		
	3.4250	1.6	H	3.0	39.5	1.0	-36.9	-13.0	-23.9		
	5.1375	-3.1	H	3.0	39.8	1.0	-41.9	-13.0	-28.9		
6.8500	-6.9	H	3.0	39.7	1.0	-45.6	-13.0	-32.6			
Mid Channel (1732.5MHz)											
3.4650	-1.9	V	3.0	39.5	1.0	-40.4	-13.0	-27.4			
5.1975	1.2	V	3.0	39.8	1.0	-37.7	-13.0	-24.7			
6.9300	0.9	V	3.0	39.7	1.0	-37.7	-13.0	-24.7			
3.4650	2.7	H	3.0	39.5	1.0	-35.8	-13.0	-22.8			
5.1975	-2.1	H	3.0	39.8	1.0	-40.9	-13.0	-27.9			
6.9300	-6.4	H	3.0	39.7	1.0	-45.0	-13.0	-32.0			
High Channel (1752.5MHz)											
3.5050	-5.2	V	3.0	39.5	1.0	-43.7	-13.0	-30.7			
5.2575	-1.0	V	3.0	39.8	1.0	-39.8	-13.0	-26.8			
7.0100	-1.4	V	3.0	39.6	1.0	-40.0	-13.0	-27.0			
3.5050	-3.6	H	3.0	39.5	1.0	-42.1	-13.0	-29.1			
5.2575	-3.6	H	3.0	39.8	1.0	-42.4	-13.0	-29.4			
7.0100	-6.9	H	3.0	39.6	1.0	-45.5	-13.0	-32.5			
Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.											
LTE Band 4 5MHz 16QAM	UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement										
	Company:	Samsung									
	Project #:	4788103295									
	Date:	09-01-17									
	Test Engineer:	Chan Park									
	Configuration:	EUT / AC Adapter / Ear Phone / Z-Position									
	Mode:	TX, LTE BAND 7, 5MHz BW, 16QAM									
			Chamber		Pre-amplifier		Filter		Limit		
			Chamber 2		AFS42		Filter 1		FCC Part 27		
	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes	
	Low Channel (1712.5MHz)										
	3.4250	-1.6	V	3.0	39.5	1.0	-40.1	-13.0	-27.1		
	5.1375	1.0	V	3.0	39.8	1.0	-37.8	-13.0	-24.8		
	6.8500	-0.3	V	3.0	39.7	1.0	-39.0	-13.0	-26.0		
	3.4250	1.5	H	3.0	39.5	1.0	-37.0	-13.0	-24.0		
5.1375	-3.0	H	3.0	39.8	1.0	-41.8	-13.0	-28.8			
6.8500	-7.3	H	3.0	39.7	1.0	-46.0	-13.0	-33.0			
Mid Channel (1732.5MHz)											
3.4650	-2.1	V	3.0	39.5	1.0	-40.6	-13.0	-27.6			
5.1975	1.0	V	3.0	39.8	1.0	-37.8	-13.0	-24.8			
6.9300	-0.9	V	3.0	39.7	1.0	-39.5	-13.0	-26.5			
3.4650	2.7	H	3.0	39.5	1.0	-35.9	-13.0	-22.9			
5.1975	-2.7	H	3.0	39.8	1.0	-41.5	-13.0	-28.5			
6.9300	-6.1	H	3.0	39.7	1.0	-44.8	-13.0	-31.8			
High Channel (1752.5MHz)											
3.5050	-5.3	V	3.0	39.5	1.0	-43.8	-13.0	-30.8			
5.2575	-1.1	V	3.0	39.8	1.0	-40.0	-13.0	-27.0			
7.0100	-1.3	V	3.0	39.6	1.0	-39.9	-13.0	-26.9			
3.5050	-3.6	H	3.0	39.5	1.0	-42.2	-13.0	-29.2			
5.2575	-3.8	H	3.0	39.8	1.0	-42.7	-13.0	-29.7			
7.0100	-7.1	H	3.0	39.6	1.0	-45.7	-13.0	-32.7			
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 4 3MHz QPSK	Company:	Samsung										
	Project #:	4788103295										
	Date:	08-29-17										
	Test Engineer:	JH Park										
	Configuration:	EUT / AC Adapter / Ear Phone / Z-Position										
	Mode:	TX, LTE BAND 4, 3MHz BW,QPSK										
			Chamber	Pre-amplifier	Filter	Limit						
			Chamber 2	AFS42	Filter 1	FCC Part 27						
			f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
			Low Channel (1711.5MHz)									
		3.4230	-0.1	V	3.0	39.5	1.0	-38.5	-13.0	-25.5		
		5.1345	-9.4	V	3.0	39.8	1.0	-48.2	-13.0	-35.2		
		6.8460	-7.5	V	3.0	39.7	1.0	-46.2	-13.0	-33.2		
		3.4230	-4.1	H	3.0	39.5	1.0	-42.6	-13.0	-29.6		
		5.1345	-12.3	H	3.0	39.8	1.0	-51.2	-13.0	-38.2		
		6.8460	-10.2	H	3.0	39.7	1.0	-48.9	-13.0	-35.9		
		Mid Channel (1732.5MHz)										
		3.4650	-4.3	V	3.0	39.5	1.0	-42.8	-13.0	-29.8		
		5.1975	-6.1	V	3.0	39.8	1.0	-44.9	-13.0	-31.9		
		6.9300	-7.6	V	3.0	39.7	1.0	-46.3	-13.0	-33.3		
		3.4650	-0.3	H	3.0	39.5	1.0	-38.9	-13.0	-25.9		
		5.1975	-6.2	H	3.0	39.8	1.0	-45.0	-13.0	-32.0		
		6.9300	-10.5	H	3.0	39.7	1.0	-49.1	-13.0	-36.1		
		High Channel (1753.5MHz)										
		3.5070	-2.7	V	3.0	39.5	1.0	-41.3	-13.0	-28.3		
		5.2605	-7.7	V	3.0	39.8	1.0	-46.5	-13.0	-33.5		
		7.0140	-11.3	V	3.0	39.6	1.0	-50.0	-13.0	-37.0		
		3.5070	-2.1	H	3.0	39.5	1.0	-40.7	-13.0	-27.7		
		5.2605	-9.1	H	3.0	39.8	1.0	-48.0	-13.0	-35.0		
		7.0140	-11.5	H	3.0	39.6	1.0	-50.1	-13.0	-37.1		
		Rev. 03.03.09										
		Note: No other emissions were detected above the system noise floor.										
LTE Band 4 3MHz 16QAM	UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement											
	Company:	Samsung										
	Project #:	4788103295										
	Date:	08-29-17										
	Test Engineer:	JH Park										
	Configuration:	EUT / AC Adapter / Ear Phone / Z-Position										
	Mode:	TX, LTE BAND 4, 3MHz BW,16QAM										
			Chamber	Pre-amplifier	Filter	Limit						
			Chamber 2	AFS42	Filter 1	FCC Part 27						
			f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
		Low Channel (1711.5MHz)										
		3.4230	0.0	V	3.0	39.5	1.0	-38.5	-13.0	-25.5		
		5.1345	-9.2	V	3.0	39.8	1.0	-48.0	-13.0	-35.0		
		6.8460	-8.2	V	3.0	39.7	1.0	-46.9	-13.0	-33.9		
		3.4230	-4.1	H	3.0	39.5	1.0	-42.6	-13.0	-29.6		
		5.1345	-11.7	H	3.0	39.8	1.0	-50.6	-13.0	-37.6		
		6.8460	-10.8	H	3.0	39.7	1.0	-49.5	-13.0	-36.5		
		Mid Channel (1732.5MHz)										
		3.4650	-4.3	V	3.0	39.5	1.0	-42.8	-13.0	-29.8		
		5.1975	-5.0	V	3.0	39.8	1.0	-43.9	-13.0	-30.9		
		6.9300	-7.4	V	3.0	39.7	1.0	-46.1	-13.0	-33.1		
		3.4650	-0.5	H	3.0	39.5	1.0	-39.1	-13.0	-26.1		
		5.1975	-5.9	H	3.0	39.8	1.0	-44.7	-13.0	-31.7		
		6.9300	-10.9	H	3.0	39.7	1.0	-49.6	-13.0	-36.6		
		High Channel (1752.5MHz)										
		3.5050	-2.8	V	3.0	39.5	1.0	-41.3	-13.0	-28.3		
		5.2575	-7.3	V	3.0	39.8	1.0	-46.2	-13.0	-33.2		
		7.0100	-10.7	V	3.0	39.6	1.0	-49.3	-13.0	-36.3		
		3.5050	-2.3	H	3.0	39.5	1.0	-40.8	-13.0	-27.8		
		5.2575	-9.6	H	3.0	39.8	1.0	-48.4	-13.0	-35.4		
		7.0100	-10.9	H	3.0	39.6	1.0	-49.5	-13.0	-36.5		
		Rev. 03.03.09										
		Note: No other emissions were detected above the system noise floor.										

		UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement									
LTE Band 4 1.4MHz QPSK	Company: Samsung										
	Project #: 4788103295										
	Date: 08-29-17										
	Test Engineer: JH Park										
	Configuration: EUT / AC Adapter / Ear Phone / Z-Position										
	Mode: TX, LTE BAND 4, 1.4MHz BW, QPSK										
	Chamber		Pre-amplifier		Filter		Limit				
	Chamber 2		AFS42		Filter 1		FCC Part 27				
	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes	
	Low Channel (1710.7MHz)										
	3.4214	-1.6	V	3.0	39.5	1.0	-40.1	-13.0	-27.1		
	5.1321	-9.4	V	3.0	39.8	1.0	-48.2	-13.0	-35.2		
	6.8428	-7.8	V	3.0	39.7	1.0	-46.5	-13.0	-33.5		
	3.4214	-0.5	H	3.0	39.5	1.0	-39.0	-13.0	-26.0		
	5.1321	-11.7	H	3.0	39.8	1.0	-50.5	-13.0	-37.5		
	6.8428	-10.6	H	3.0	39.7	1.0	-49.3	-13.0	-36.3		
	Mid Channel (1732.5MHz)										
	3.4650	-4.3	V	3.0	39.5	1.0	-42.8	-13.0	-29.8		
	5.1975	-6.1	V	3.0	39.8	1.0	-45.0	-13.0	-32.0		
	6.9300	-8.3	V	3.0	39.7	1.0	-47.0	-13.0	-34.0		
3.4650	-3.2	H	3.0	39.5	1.0	-41.7	-13.0	-28.7			
5.1975	-6.5	H	3.0	39.8	1.0	-45.3	-13.0	-32.3			
6.9300	-10.2	H	3.0	39.7	1.0	-48.9	-13.0	-35.9			
High Channel (1754.3MHz)											
3.5086	-5.3	V	3.0	39.5	1.0	-43.8	-13.0	-30.8			
5.2629	-7.6	V	3.0	39.8	1.0	-46.4	-13.0	-33.4			
7.0172	-8.7	V	3.0	39.6	1.0	-47.3	-13.0	-34.3			
3.5086	-1.1	H	3.0	39.5	1.0	-39.6	-13.0	-26.6			
5.2629	-9.0	H	3.0	39.8	1.0	-47.8	-13.0	-34.8			
7.0172	-11.4	H	3.0	39.6	1.0	-50.0	-13.0	-37.0			
Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.											
LTE Band 4 1.4MHz 16QAM	Company: Samsung										
	Project #: 4788103295										
	Date: 08-29-17										
	Test Engineer: JH Park										
	Configuration: EUT / AC Adapter / Ear Phone / Z-Position										
	Mode: TX, LTE BAND 4, 1.4MHz BW, 16QAM										
	Chamber		Pre-amplifier		Filter		Limit				
	Chamber 2		AFS42		Filter 1		FCC Part 27				
	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes	
	Low Channel (1710.7MHz)										
	3.4214	-1.6	V	3.0	39.5	1.0	-40.1	-13.0	-27.1		
	5.1321	-9.5	V	3.0	39.8	1.0	-48.3	-13.0	-35.3		
	6.8428	-8.6	V	3.0	39.7	1.0	-47.3	-13.0	-34.3		
	3.4214	-0.4	H	3.0	39.5	1.0	-38.9	-13.0	-25.9		
	5.1321	-11.3	H	3.0	39.8	1.0	-50.1	-13.0	-37.1		
	6.8428	-10.6	H	3.0	39.7	1.0	-49.3	-13.0	-36.3		
	Mid Channel (1732.5MHz)										
	3.4650	-4.2	V	3.0	39.5	1.0	-42.7	-13.0	-29.7		
	5.1975	-7.1	V	3.0	39.8	1.0	-45.9	-13.0	-32.9		
	6.9300	-9.6	V	3.0	39.7	1.0	-48.2	-13.0	-35.2		
3.4650	-3.5	H	3.0	39.5	1.0	-42.0	-13.0	-29.0			
5.1975	-6.1	H	3.0	39.8	1.0	-44.9	-13.0	-31.9			
6.9300	-10.7	H	3.0	39.7	1.0	-49.3	-13.0	-36.3			
High Channel (1754.3MHz)											
3.5086	-5.5	V	3.0	39.5	1.0	-44.1	-13.0	-31.1			
5.2629	-8.7	V	3.0	39.8	1.0	-47.5	-13.0	-34.5			
7.0172	-9.2	V	3.0	39.6	1.0	-47.8	-13.0	-34.8			
3.5086	-1.3	H	3.0	39.5	1.0	-39.8	-13.0	-26.8			
5.2629	-9.1	H	3.0	39.8	1.0	-48.0	-13.0	-35.0			
7.0172	-11.7	H	3.0	39.6	1.0	-50.3	-13.0	-37.3			
Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.											

LTE Band 2

		UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement									
LTE Band 2 20MHz QPSK	Company: Samsung Project #: 4788103295 Date: 08-17-17 Test Engineer: JH Park Configuration: EUT / AC Adapter / Ear Phone / Z-Position Mode: TX, LTE BAND 2, 20MHz 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 FCC Part 24</div> </div>										
		f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
		Low Channel (1860MHz)									
		3.7200	-4.5	V	3.0	39.7	1.0	-43.2	-13.0	-30.2	
		5.5800	-3.7	V	3.0	39.9	1.0	-42.6	-13.0	-29.6	
		7.4400	-1.3	V	3.0	39.4	1.0	-39.7	-13.0	-26.7	
		3.7200	-6.4	H	3.0	39.7	1.0	-45.0	-13.0	-32.0	
		5.5800	-9.4	H	3.0	39.9	1.0	-48.3	-13.0	-35.3	
		7.4400	-3.8	H	3.0	39.4	1.0	-42.2	-13.0	-29.2	
	Mid Channel (1880MHz)										
	3.7600	-3.2	V	3.0	39.7	1.0	-41.9	-13.0	-28.9		
	5.6400	-6.0	V	3.0	40.0	1.0	-44.9	-13.0	-31.9		
	7.5200	1.4	V	3.0	39.4	1.0	-37.0	-13.0	-24.0		
	3.7600	-1.3	H	3.0	39.7	1.0	-40.0	-13.0	-27.0		
	5.6400	-8.3	H	3.0	40.0	1.0	-47.2	-13.0	-34.2		
	7.5200	-1.6	H	3.0	39.4	1.0	-40.0	-13.0	-27.0		
	High Channel (1900MHz)										
	3.8000	-0.5	V	3.0	39.7	1.0	-39.2	-13.0	-26.2		
	5.7000	-6.6	V	3.0	40.0	1.0	-45.6	-13.0	-32.6		
	7.6000	0.1	V	3.0	39.4	1.0	-38.2	-13.0	-25.2		
	3.8000	3.5	H	3.0	39.7	1.0	-35.2	-13.0	-22.2		
	5.7000	-12.2	H	3.0	40.0	1.0	-51.2	-13.0	-38.2		
	7.6000	-3.4	H	3.0	39.4	1.0	-41.8	-13.0	-28.8		
	Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.										
LTE Band 2 20MHz 16QAM	Company: Samsung Project #: 4788103295 Date: 08-17-17 Test Engineer: JH Park Configuration: EUT / AC Adapter / Ear Phone / Z-Position Mode: TX, LTE BAND 2, 20MHz 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 FCC Part 24</div> </div>										
		f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
		Low Channel (1860MHz)									
		3.7200	-4.4	V	3.0	39.7	1.0	-43.1	-13.0	-30.1	
		5.5800	-4.7	V	3.0	39.9	1.0	-43.7	-13.0	-30.7	
		7.4400	-3.0	V	3.0	39.4	1.0	-41.5	-13.0	-28.5	
		3.7200	-6.6	H	3.0	39.7	1.0	-45.3	-13.0	-32.3	
		5.5800	-9.3	H	3.0	39.9	1.0	-48.3	-13.0	-35.3	
		7.4400	-4.2	H	3.0	39.4	1.0	-42.6	-13.0	-29.6	
	Mid Channel (1880MHz)										
	3.7600	-3.7	V	3.0	39.7	1.0	-42.4	-13.0	-29.4		
	5.6400	-5.1	V	3.0	40.0	1.0	-44.1	-13.0	-31.1		
	7.5200	0.3	V	3.0	39.4	1.0	-38.1	-13.0	-25.1		
	3.7600	-1.8	H	3.0	39.7	1.0	-40.5	-13.0	-27.5		
	5.6400	-9.6	H	3.0	40.0	1.0	-48.5	-13.0	-35.5		
	7.5200	-2.4	H	3.0	39.4	1.0	-40.8	-13.0	-27.8		
	High Channel (1900MHz)										
	3.8000		V	3.0	39.7	1.0	-38.7	-13.0	-25.7		
	5.7000	-6.8	V	3.0	40.0	1.0	-45.8	-13.0	-32.8		
	7.6000	-0.7	V	3.0	39.4	1.0	-39.0	-13.0	-26.0		
	3.8000	3.3	H	3.0	39.7	1.0	-35.4	-13.0	-22.4		
	5.7000	-12.0	H	3.0	40.0	1.0	-51.0	-13.0	-38.0		
	7.6000	-3.2	H	3.0	39.4	1.0	-41.6	-13.0	-28.6		
	Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.										

		UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement										
LTE Band 2 15MHz QPSK	Company: Samsung											
	Project #: 4788103295											
	Date: 08-17-17											
	Test Engineer: JH Park											
	Configuration: EUT / AC Adapter / Ear Phone / Z-Position											
	Mode: TX, LTE BAND 2, 15MHz BW, QPSK											
	<div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 2px;">Chamber</div> <div style="border: 1px solid black; padding: 2px;">Pre-amplifier</div> <div style="border: 1px solid black; padding: 2px;">Filter</div> <div style="border: 1px solid black; padding: 2px;">Limit</div> </div>											
	<div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 2px;">Chamber 2</div> <div style="border: 1px solid black; padding: 2px;">AFS42</div> <div style="border: 1px solid black; padding: 2px;">Filter 1</div> <div style="border: 1px solid black; padding: 2px;">FCC Part 24</div> </div>											
			f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
			Low Channel (1857.5MHz)									
			3.7150	-7.4	V	3.0	39.7	1.0	-46.1	-13.0	-33.1	
			5.5725	-2.6	V	3.0	39.9	1.0	-41.6	-13.0	-28.6	
			7.4300	1.5	V	3.0	39.4	1.0	-37.0	-13.0	-24.0	
			3.7150	-8.7	H	3.0	39.7	1.0	-47.3	-13.0	-34.3	
			5.5725	-8.5	H	3.0	39.9	1.0	-47.5	-13.0	-34.5	
			7.4300	-1.8	H	3.0	39.4	1.0	-40.3	-13.0	-27.3	
			Mid Channel (1880MHz)									
			3.7600	-2.9	V	3.0	39.7	1.0	-41.5	-13.0	-28.5	
			5.6400	-2.0	V	3.0	40.0	1.0	-41.0	-13.0	-28.0	
			7.5200	2.8	V	3.0	39.4	1.0	-35.5	-13.0	-22.5	
			3.7600	-1.7	H	3.0	39.7	1.0	-40.4	-13.0	-27.4	
			5.6400	-5.8	H	3.0	40.0	1.0	-44.7	-13.0	-31.7	
			7.5200	-0.4	H	3.0	39.4	1.0	-38.8	-13.0	-25.8	
			High Channel (1902.5MHz)									
			3.8050	0.1	V	3.0	39.7	1.0	-38.6	-13.0	-25.6	
		5.7075	-5.5	V	3.0	40.0	1.0	-44.4	-13.0	-31.4		
		7.6100	1.5	V	3.0	39.3	1.0	-36.9	-13.0	-23.9		
		3.8050	3.3	H	3.0	39.7	1.0	-35.4	-13.0	-22.4		
		5.7075	-8.1	H	3.0	40.0	1.0	-47.1	-13.0	-34.1		
		7.6100	-2.0	H	3.0	39.3	1.0	-40.4	-13.0	-27.4		
		Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.										
LTE Band 2 15MHz 16QAM	Company: Samsung											
	Project #: 4788103295											
	Date: 08-17-17											
	Test Engineer: JH Park											
	Configuration: EUT / AC Adapter / Ear Phone / Z-Position											
	Mode: TX, LTE BAND 2, 15MHz BW, 16QAM											
	<div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 2px;">Chamber</div> <div style="border: 1px solid black; padding: 2px;">Pre-amplifier</div> <div style="border: 1px solid black; padding: 2px;">Filter</div> <div style="border: 1px solid black; padding: 2px;">Limit</div> </div>											
	<div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 2px;">Chamber 2</div> <div style="border: 1px solid black; padding: 2px;">AFS42</div> <div style="border: 1px solid black; padding: 2px;">Filter 1</div> <div style="border: 1px solid black; padding: 2px;">FCC Part 24</div> </div>											
			f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
			Low Channel (1857.5MHz)									
			3.7150	-7.4	V	3.0	39.7	1.0	-46.0	-13.0	-33.0	
			5.5725	-2.1	V	3.0	39.9	1.0	-41.1	-13.0	-28.1	
			7.4300	1.5	V	3.0	39.4	1.0	-36.9	-13.0	-23.9	
			3.7150	-9.3	H	3.0	39.7	1.0	-47.9	-13.0	-34.9	
			5.5725	-8.1	H	3.0	39.9	1.0	-47.1	-13.0	-34.1	
			7.4300	-2.4	H	3.0	39.4	1.0	-40.8	-13.0	-27.8	
			Mid Channel (1880MHz)									
			3.7600	-3.2	V	3.0	39.7	1.0	-41.9	-13.0	-28.9	
			5.6400	-2.7	V	3.0	40.0	1.0	-41.7	-13.0	-28.7	
			7.5200	3.1	V	3.0	39.4	1.0	-35.3	-13.0	-22.3	
			3.7600	-1.9	H	3.0	39.7	1.0	-40.6	-13.0	-27.6	
			5.6400	-5.8	H	3.0	40.0	1.0	-44.7	-13.0	-31.7	
			7.5200	-0.8	H	3.0	39.4	1.0	-39.1	-13.0	-26.1	
			High Channel (1902.5MHz)									
			3.8050	-0.5	V	3.0	39.7	1.0	-39.3	-13.0	-26.3	
		5.7075	-5.1	V	3.0	40.0	1.0	-44.0	-13.0	-31.0		
		7.6100	1.6	V	3.0	39.3	1.0	-36.8	-13.0	-23.8		
		3.8050	3.4	H	3.0	39.7	1.0	-35.3	-13.0	-22.3		
		5.7075	-8.2	H	3.0	40.0	1.0	-47.2	-13.0	-34.2		
		7.6100	-1.7	H	3.0	39.3	1.0	-40.1	-13.0	-27.1		
		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 #: 4788103295									
		Date: 08-16-17									
		Test Engineer: YH Lim									
		Configuration: EUT / AC Adapter / Ear Phone / Z-Position									
		Mode: TX, LTE BAND 2, 10MHz BW,QPSK									
		<div style="border: 1px solid black; padding: 2px; display: inline-block;">Chamber</div> Chamber 2		<div style="border: 1px solid black; padding: 2px; display: inline-block;">Pre-amplifier</div> AFS42		<div style="border: 1px solid black; padding: 2px; display: inline-block;">Filter</div> Filter 1		<div style="border: 1px solid black; padding: 2px; display: inline-block;">Limit</div> FCC Part 24			
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes		
Low Channel (1855MHz)											
3.7100	-4.0	V	3.0	39.7	1.0	-42.7	-13.0	-29.7			
5.5650	-0.7	V	3.0	39.9	1.0	-39.6	-13.0	-26.6			
7.4200	2.5	V	3.0	39.4	1.0	-35.9	-13.0	-22.9			
3.7100	-12.5	H	3.0	39.7	1.0	-51.2	-13.0	-38.2			
5.5650	-8.0	H	3.0	39.9	1.0	-47.0	-13.0	-34.0			
7.4200	0.4	H	3.0	39.4	1.0	-38.0	-13.0	-25.0			
Mid Channel (1880MHz)											
3.7600	0.3	V	3.0	39.7	1.0	-38.3	-13.0	-25.3			
5.6400	-2.2	V	3.0	40.0	1.0	-41.2	-13.0	-28.2			
7.5200	3.7	V	3.0	39.4	1.0	-34.7	-13.0	-21.7			
3.7600	-2.8	H	3.0	39.7	1.0	-41.5	-13.0	-28.5			
5.6400	-7.5	H	3.0	40.0	1.0	-46.5	-13.0	-33.5			
7.5200	0.2	H	3.0	39.4	1.0	-38.2	-13.0	-25.2			
High Channel (1905MHz)											
3.8100	6.4	V	3.0	39.7	1.0	-32.3	-13.0	-19.3			
5.7150	-1.7	V	3.0	40.0	1.0	-40.7	-13.0	-27.7			
7.6200	4.4	V	3.0	39.3	1.0	-33.9	-13.0	-20.9			
3.8100	4.3	H	3.0	39.7	1.0	-34.4	-13.0	-21.4			
5.7150	-7.0	H	3.0	40.0	1.0	-45.9	-13.0	-32.9			
7.6200	0.4	H	3.0	39.3	1.0	-37.9	-13.0	-24.9			
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 #: 4788103295									
		Date: 08-16-17									
		Test Engineer: YH Lim									
		Configuration: EUT / AC Adapter / Ear Phone / Z-Position									
		Mode: TX, LTE BAND 2, 10MHz BW,16QAM									
		<div style="border: 1px solid black; padding: 2px; display: inline-block;">Chamber</div> Chamber 2		<div style="border: 1px solid black; padding: 2px; display: inline-block;">Pre-amplifier</div> AFS42		<div style="border: 1px solid black; padding: 2px; display: inline-block;">Filter</div> Filter 1		<div style="border: 1px solid black; padding: 2px; display: inline-block;">Limit</div> FCC Part 24			
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes		
Low Channel (1855MHz)											
3.7100	-4.9	V	3.0	39.7	1.0	-43.5	-13.0	-30.5			
5.5650	-1.5	V	3.0	39.9	1.0	-40.5	-13.0	-27.5			
7.4200	1.9	V	3.0	39.4	1.0	-36.5	-13.0	-23.5			
3.7100	-12.1	H	3.0	39.7	1.0	-50.8	-13.0	-37.8			
5.5650	-7.9	H	3.0	39.9	1.0	-46.9	-13.0	-33.9			
7.4200	-0.2	H	3.0	39.4	1.0	-38.6	-13.0	-25.6			
Mid Channel (1880MHz)											
3.7600	-0.1	V	3.0	39.7	1.0	-38.8	-13.0	-25.8			
5.6400	-2.4	V	3.0	40.0	1.0	-41.3	-13.0	-28.3			
7.5200	3.8	V	3.0	39.4	1.0	-34.6	-13.0	-21.6			
3.7600	-1.9	H	3.0	39.7	1.0	-40.6	-13.0	-27.6			
5.6400	-7.9	H	3.0	40.0	1.0	-46.9	-13.0	-33.9			
7.5200	0.2	H	3.0	39.4	1.0	-38.2	-13.0	-25.2			
High Channel (1905MHz)											
3.8100	6.7	V	3.0	39.7	1.0	-32.0	-13.0	-19.0			
5.7150	-1.7	V	3.0	40.0	1.0	-40.7	-13.0	-27.7			
7.6200	3.6	V	3.0	39.3	1.0	-34.7	-13.0	-21.7			
3.8100	3.9	H	3.0	39.7	1.0	-34.8	-13.0	-21.8			
5.7150	-7.7	H	3.0	40.0	1.0	-46.7	-13.0	-33.7			
7.6200	0.3	H	3.0	39.3	1.0	-38.0	-13.0	-25.0			
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 2 5MHz QPSK	Company:	Samsung										
	Project #:	4788103295										
	Date:	08-16-17										
	Test Engineer:	YH Lim										
	Configuration:	EUT / AC Adapter / Ear Phone / Z-Position										
	Mode:	TX, LTE BAND 2, 5MHz BW, QPSK										
			Chamber		Pre-amplifier		Filter		Limit			
			Chamber 2		AFS42		Filter 1		FCC Part 24			
			f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
			Low Channel (1852.5MHz)									
			3.7050	-7.3	V	3.0	39.7	1.0	-45.9	-13.0	-32.9	
			5.5575	-1.7	V	3.0	39.9	1.0	-40.6	-13.0	-27.6	
			7.4100	4.2	V	3.0	39.4	1.0	-34.3	-13.0	-21.3	
			3.7050	-8.9	H	3.0	39.7	1.0	-47.6	-13.0	-34.6	
			5.5575	-6.7	H	3.0	39.9	1.0	-45.6	-13.0	-32.6	
			7.4100	-0.4	H	3.0	39.4	1.0	-38.8	-13.0	-25.8	
			Mid Channel (1880MHz)									
			3.7600	0.3	V	3.0	39.7	1.0	-38.4	-13.0	-25.4	
			5.6400	-1.9	V	3.0	40.0	1.0	-40.9	-13.0	-27.9	
			7.5200	0.3	V	3.0	39.4	1.0	-38.1	-13.0	-25.1	
		3.7600	-2.6	H	3.0	39.7	1.0	-41.3	-13.0	-28.3		
		5.6400	-7.6	H	3.0	40.0	1.0	-46.5	-13.0	-33.5		
		7.5200	-0.4	H	3.0	39.4	1.0	-38.8	-13.0	-25.8		
		High Channel (1907.5MHz)										
		3.8150	-1.2	V	3.0	39.7	1.0	-39.9	-13.0	-26.9		
		5.7225	-3.0	V	3.0	40.0	1.0	-42.0	-13.0	-29.0		
		7.6300	4.3	V	3.0	39.3	1.0	-34.0	-13.0	-21.0		
		3.8150	-2.7	H	3.0	39.7	1.0	-41.4	-13.0	-28.4		
		5.7225	-8.2	H	3.0	40.0	1.0	-47.2	-13.0	-34.2		
		7.6300	0.3	H	3.0	39.3	1.0	-38.1	-13.0	-25.1		
		Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.										
LTE Band 2 5MHz 16QAM	Company:	Samsung										
	Project #:	4788103295										
	Date:	08-16-17										
	Test Engineer:	YH Lim										
	Configuration:	EUT / AC Adapter / Ear Phone / Z-Position										
	Mode:	TX, LTE BAND 2, 5MHz BW, 16QAM										
			Chamber		Pre-amplifier		Filter		Limit			
			Chamber 2		AFS42		Filter 1		FCC Part 24			
			f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
			Low Channel (1852.5MHz)									
			3.7050	-7.5	V	3.0	39.7	1.0	-46.2	-13.0	-33.2	
			5.5575	-2.1	V	3.0	39.9	1.0	-41.1	-13.0	-28.1	
			7.4100	2.6	V	3.0	39.4	1.0	-35.8	-13.0	-22.8	
			3.7050	-10.3	H	3.0	39.7	1.0	-49.0	-13.0	-36.0	
			5.5575	-8.2	H	3.0	39.9	1.0	-47.1	-13.0	-34.1	
			7.4100	-1.5	H	3.0	39.4	1.0	-40.0	-13.0	-27.0	
			Mid Channel (1880MHz)									
			3.7600	0.2	V	3.0	39.7	1.0	-38.5	-13.0	-25.5	
			5.6400	-1.4	V	3.0	40.0	1.0	-40.4	-13.0	-27.4	
			7.5200	2.1	V	3.0	39.4	1.0	-36.3	-13.0	-23.3	
		3.7600	-3.8	H	3.0	39.7	1.0	-42.5	-13.0	-29.5		
		5.6400	-8.6	H	3.0	40.0	1.0	-47.5	-13.0	-34.5		
		7.5200	-0.8	H	3.0	39.4	1.0	-39.2	-13.0	-26.2		
		High Channel (1907.5MHz)										
		3.8150	-1.4	V	3.0	39.7	1.0	-40.1	-13.0	-27.1		
		5.7225	-3.0	V	3.0	40.0	1.0	-41.9	-13.0	-28.9		
		7.6300	4.4	V	3.0	39.3	1.0	-33.9	-13.0	-20.9		
		3.8150	-3.8	H	3.0	39.7	1.0	-42.5	-13.0	-29.5		
		5.7225	-8.5	H	3.0	40.0	1.0	-47.5	-13.0	-34.5		
		7.6300	0.2	H	3.0	39.3	1.0	-38.2	-13.0	-25.2		
		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 #:		4788103295							
Date:		08-16-17							
Test Engineer:		YH Lim							
Configuration:		EUT / AC Adapter / Ear Phone / Z-Position							
Mode:		TX, LTE BAND 2, 3MHz BW,QPSK							
Chamber		Pre-amplifier		Filter		Limit			
Chamber 2		AFS42		Filter 1		FCC Part 24			
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Channel (1851.5MHz)									
3.7030	-7.8	V	3.0	39.7	1.0	-46.4	-13.0	-33.4	
5.5545	-0.8	V	3.0	39.9	1.0	-39.7	-13.0	-26.7	
7.4060	1.0	V	3.0	39.4	1.0	-37.4	-13.0	-24.4	
3.7030	-10.2	H	3.0	39.7	1.0	-48.9	-13.0	-35.9	
5.5545	-6.9	H	3.0	39.9	1.0	-45.9	-13.0	-32.9	
7.4060	-3.0	H	3.0	39.4	1.0	-41.4	-13.0	-28.4	
Mid Channel (1880MHz)									
3.7600	1.6	V	3.0	39.7	1.0	-37.1	-13.0	-24.1	
5.6400	-3.8	V	3.0	40.0	1.0	-42.8	-13.0	-29.8	
7.5200	-1.5	V	3.0	39.4	1.0	-39.9	-13.0	-26.9	
3.7600	-1.2	H	3.0	39.7	1.0	-39.9	-13.0	-26.9	
5.6400	-7.7	H	3.0	40.0	1.0	-46.7	-13.0	-33.7	
7.5200	-2.5	H	3.0	39.4	1.0	-40.9	-13.0	-27.9	
High Channel (1908.5MHz)									
3.8170	-4.1	V	3.0	39.7	1.0	-42.8	-13.0	-29.8	
5.7255	-4.8	V	3.0	40.0	1.0	-43.8	-13.0	-30.8	
7.6340	1.8	V	3.0	39.3	1.0	-36.6	-13.0	-23.6	
3.8170	-8.2	H	3.0	39.7	1.0	-47.0	-13.0	-34.0	
5.7255	-7.9	H	3.0	40.0	1.0	-46.9	-13.0	-33.9	
7.6340	-1.8	H	3.0	39.3	1.0	-40.2	-13.0	-27.2	
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 #:		4788103295							
Date:		08-16-17							
Test Engineer:		YH Lim							
Configuration:		EUT / AC Adapter / Ear Phone / Z-Position							
Mode:		TX, LTE BAND 2, 3MHz BW,16QAM							
Chamber		Pre-amplifier		Filter		Limit			
Chamber 2		AFS42		Filter 1		FCC Part 24			
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Channel (1851.5MHz)									
3.7030	-7.7	V	3.0	39.7	1.0	-46.3	-13.0	-33.3	
5.5545	-1.0	V	3.0	39.9	1.0	-39.9	-13.0	-26.9	
7.4060	-0.7	V	3.0	39.4	1.0	-39.1	-13.0	-26.1	
3.7030	-9.8	H	3.0	39.7	1.0	-48.5	-13.0	-35.5	
5.5545	-6.8	H	3.0	39.9	1.0	-45.7	-13.0	-32.7	
7.4060	-3.6	H	3.0	39.4	1.0	-42.0	-13.0	-29.0	
Mid Channel (1880MHz)									
3.7600	1.1	V	3.0	39.7	1.0	-37.6	-13.0	-24.6	
5.6400	-3.9	V	3.0	40.0	1.0	-42.9	-13.0	-29.9	
7.5200	-1.5	V	3.0	39.4	1.0	-39.9	-13.0	-26.9	
3.7600	-1.8	H	3.0	39.7	1.0	-40.5	-13.0	-27.5	
5.6400	-7.9	H	3.0	40.0	1.0	-46.8	-13.0	-33.8	
7.5200	-2.3	H	3.0	39.4	1.0	-40.7	-13.0	-27.7	
High Channel (1908.5MHz)									
3.8170	-4.2	V	3.0	39.7	1.0	-42.9	-13.0	-29.9	
5.7255	-4.1	V	3.0	40.0	1.0	-43.1	-13.0	-30.1	
7.6340	2.2	V	3.0	39.3	1.0	-36.2	-13.0	-23.2	
3.8170	-8.3	H	3.0	39.7	1.0	-47.0	-13.0	-34.0	
5.7255	-7.8	H	3.0	40.0	1.0	-46.8	-13.0	-33.8	
7.6340	-2.2	H	3.0	39.3	1.0	-40.6	-13.0	-27.6	
Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.									

UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement									
Company:		Samsung							
Project #:		4788103295							
Date:		08-16-17							
Test Engineer:		YH Lim							
Configuration:		EUT / AC Adapter / Ear Phone / Z-Position							
Mode:		TX, LTE BAND 2, 1.4MHz BW, QPSK							
Chamber		Pre-amplifier		Filter		Limit			
Chamber 2		AFS42		Filter 1		FCC Part 24			
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Channel (1850.7MHz)									
3.7014	-6.6	V	3.0	39.7	1.0	-45.2	-13.0	-32.2	
5.5521	-0.6	V	3.0	39.9	1.0	-39.5	-13.0	-26.5	
7.4028	-1.7	V	3.0	39.4	1.0	-40.1	-13.0	-27.1	
3.7014	-8.9	H	3.0	39.7	1.0	-47.5	-13.0	-34.5	
5.5521	-6.5	H	3.0	39.9	1.0	-45.5	-13.0	-32.5	
7.4028	-3.0	H	3.0	39.4	1.0	-41.4	-13.0	-28.4	
Mid Channel (1880MHz)									
3.7600	1.5	V	3.0	39.7	1.0	-37.1	-13.0	-24.1	
5.6400	-5.8	V	3.0	40.0	1.0	-44.8	-13.0	-31.8	
7.5200	-0.8	V	3.0	39.4	1.0	-39.1	-13.0	-26.1	
3.7600	-1.9	H	3.0	39.7	1.0	-40.6	-13.0	-27.6	
5.6400	-8.6	H	3.0	40.0	1.0	-47.6	-13.0	-34.6	
7.5200	-1.6	H	3.0	39.4	1.0	-40.0	-13.0	-27.0	
High Channel (1909.3MHz)									
3.8186	-4.3	V	3.0	39.7	1.0	-43.0	-13.0	-30.0	
5.7279	-7.8	V	3.0	40.0	1.0	-46.8	-13.0	-33.8	
7.6372	-2.2	V	3.0	39.3	1.0	-40.5	-13.0	-27.5	
3.8186	-5.4	H	3.0	39.7	1.0	-44.1	-13.0	-31.1	
5.7279	-8.4	H	3.0	40.0	1.0	-47.4	-13.0	-34.4	
7.6372	-4.4	H	3.0	39.3	1.0	-42.8	-13.0	-29.8	
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 #:		4788103295							
Date:		08-16-17							
Test Engineer:		YH Lim							
Configuration:		EUT / AC Adapter / Ear Phone / Z-Position							
Mode:		TX, LTE BAND 2, 1.4MHz BW, 16QAM							
Chamber		Pre-amplifier		Filter		Limit			
Chamber 2		AFS42		Filter 1		FCC Part 24			
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Channel (1850.7MHz)									
3.7014	-6.7	V	3.0	39.7	1.0	-45.3	-13.0	-32.3	
5.5521	-0.7	V	3.0	39.9	1.0	-39.6	-13.0	-26.6	
7.4028	-2.9	V	3.0	39.4	1.0	-41.3	-13.0	-28.3	
3.7014	-8.7	H	3.0	39.7	1.0	-47.3	-13.0	-34.3	
5.5521	-6.5	H	3.0	39.9	1.0	-45.5	-13.0	-32.5	
7.4028	-3.2	H	3.0	39.4	1.0	-41.7	-13.0	-28.7	
Mid Channel (1880MHz)									
3.7600	1.0	V	3.0	39.7	1.0	-37.6	-13.0	-24.6	
5.6400	-5.3	V	3.0	40.0	1.0	-44.2	-13.0	-31.2	
7.5200	-0.6	V	3.0	39.4	1.0	-39.0	-13.0	-26.0	
3.7600	-2.3	H	3.0	39.7	1.0	-40.9	-13.0	-27.9	
5.6400	-9.1	H	3.0	40.0	1.0	-48.1	-13.0	-35.1	
7.5200	-1.8	H	3.0	39.4	1.0	-40.1	-13.0	-27.1	
High Channel (1909.3MHz)									
3.8186	-4.4	V	3.0	39.7	1.0	-43.1	-13.0	-30.1	
5.7279	-7.8	V	3.0	40.0	1.0	-46.8	-13.0	-33.8	
7.6372	-2.6	V	3.0	39.3	1.0	-40.9	-13.0	-27.9	
3.8186	-5.9	H	3.0	39.7	1.0	-44.7	-13.0	-31.7	
5.7279	-8.6	H	3.0	40.0	1.0	-47.5	-13.0	-34.5	
7.6372	-4.6	H	3.0	39.3	1.0	-42.9	-13.0	-29.9	
Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.									

LTE Band 13

LTE Band 13 10MHz QPSK	UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement									
	Company: Samsung Project #: 4788103295 Date: 08-31-17 Test Engineer: Chan Park Configuration: EUT / AC Adapter / Earphone, X Position Mode: TX, LTE BAND 13, 10MHz 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	
Mid Channel (782MHz)										
1.5640	-16.1	V	3.0	38.2	1.0	-53.3	-40.0	-13.3		
2.3460	-13.7	V	3.0	38.7	1.0	-51.4	-13.0	-38.4		
3.1280	-12.7	V	3.0	39.3	1.0	-51.0	-13.0	-38.0		
1.5640	-15.7	H	3.0	38.2	1.0	-52.9	-40.0	-12.9		
2.3460	-12.5	H	3.0	38.7	1.0	-50.2	-13.0	-37.2		
3.1280	-11.8	H	3.0	39.3	1.0	-50.2	-13.0	-37.2		
Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.										
LTE Band 13 10MHz 16QAM	UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement									
	Company: Samsung Project #: 4788103295 Date: 08-31-17 Test Engineer: Chan Park Configuration: EUT / AC Adapter / Earphone, X Position Mode: TX, LTE BAND 13, 10MHz 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	
Mid Channel (782MHz)										
1.5640	-16.6	V	3.0	38.2	1.0	-53.8	-40.0	-13.8		
2.3460	-13.4	V	3.0	38.7	1.0	-51.1	-13.0	-38.1		
3.1280	-13.0	V	3.0	39.3	1.0	-51.3	-13.0	-38.3		
1.5640	-16.0	H	3.0	38.2	1.0	-53.1	-40.0	-13.1		
2.3460	-13.0	H	3.0	38.7	1.0	-50.7	-13.0	-37.7		
3.1280	-12.3	H	3.0	39.3	1.0	-50.6	-13.0	-37.6		
Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.										

		UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement										
LTE Band 13 5MHz QPSK		Company: Samsung										
		Project #: 4788103295										
		Date: 08-31-17										
		Test Engineer: Chan Park										
		Configuration: EUT / AC Adapter / Earphone, XPosition										
		Mode: TX, LTE BAND 13, 5MHz BW, QPSK										
		<div style="border: 1px solid black; padding: 2px; display: inline-block;">Chamber</div> Chamber 2		<div style="border: 1px solid black; padding: 2px; display: inline-block;">Pre-amplifier</div> AFS42		<div style="border: 1px solid black; padding: 2px; display: inline-block;">Filter</div> Filter 1		<div style="border: 1px solid black; padding: 2px; display: inline-block;">Limit</div> 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 (779.5MHz)										
		1.5590	-17.0	V	3.0	38.2	1.0	-54.1	-40.0	-14.1		
		2.3385	-14.4	V	3.0	38.7	1.0	-52.1	-13.0	-39.1		
		3.1180	-12.8	V	3.0	39.3	1.0	-51.2	-13.0	-38.2		
		1.5590	-15.2	H	3.0	38.2	1.0	-52.4	-40.0	-12.4		
		2.3385	-13.9	H	3.0	38.7	1.0	-51.6	-13.0	-38.6		
		3.1180	-11.9	H	3.0	39.3	1.0	-50.3	-13.0	-37.3		
		Mid Channel (782MHz)										
		1.5640	-16.6	V	3.0	38.2	1.0	-53.8	-40.0	-13.8		
		2.3460	-13.4	V	3.0	38.7	1.0	-51.1	-13.0	-38.1		
		3.1280	-12.0	V	3.0	39.3	1.0	-50.3	-13.0	-37.3		
		1.5640	-14.0	H	3.0	38.2	1.0	-51.2	-40.0	-11.2		
		2.3460	-12.7	H	3.0	38.7	1.0	-50.4	-13.0	-37.4		
		3.1280	-11.4	H	3.0	39.3	1.0	-49.7	-13.0	-36.7		
		High Channel (784.5MHz)										
		1.5690	-17.1	V	3.0	38.2	1.0	-54.3	-40.0	-14.3		
		2.3535	-14.0	V	3.0	38.7	1.0	-51.7	-13.0	-38.7		
		3.1380	-12.6	V	3.0	39.3	1.0	-51.0	-13.0	-38.0		
		1.5690	-16.1	H	3.0	38.2	1.0	-53.3	-40.0	-13.3		
		2.3535	-13.7	H	3.0	38.7	1.0	-51.4	-13.0	-38.4		
		3.1380	-12.2	H	3.0	39.3	1.0	-50.5	-13.0	-37.5		
		Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.										
LTE Band 13 5MHz 16QAM		UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement										
		Company: Samsung										
		Project #: 4788103295										
		Date: 08-31-17										
		Test Engineer: Chan Park										
		Configuration: EUT / AC Adapter / Earphone, XPosition										
		Mode: TX, LTE BAND 13, 5MHz BW, 16QAM										
		<div style="border: 1px solid black; padding: 2px; display: inline-block;">Chamber</div> Chamber 2		<div style="border: 1px solid black; padding: 2px; display: inline-block;">Pre-amplifier</div> AFS42		<div style="border: 1px solid black; padding: 2px; display: inline-block;">Filter</div> Filter 1		<div style="border: 1px solid black; padding: 2px; display: inline-block;">Limit</div> 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 (779.5MHz)										
		1.5590	-16.8	V	3.0	38.2	1.0	-53.9	-40.0	-13.9		
		2.3385	-14.1	V	3.0	38.7	1.0	-51.8	-13.0	-38.8		
		3.1180	-12.4	V	3.0	39.3	1.0	-50.8	-13.0	-37.8		
		1.5590	-15.6	H	3.0	38.2	1.0	-52.8	-40.0	-12.8		
		2.3385	-13.7	H	3.0	38.7	1.0	-51.4	-13.0	-38.4		
		3.1180	-11.8	H	3.0	39.3	1.0	-50.1	-13.0	-37.1		
		Mid Channel (782MHz)										
		1.5640	-16.9	V	3.0	38.2	1.0	-54.1	-40.0	-14.1		
		2.3460	-13.5	V	3.0	38.7	1.0	-51.2	-13.0	-38.2		
		3.1280	-12.1	V	3.0	39.3	1.0	-50.5	-13.0	-37.5		
		1.5640	-14.2	H	3.0	38.2	1.0	-51.4	-40.0	-11.4		
		2.3460	-13.2	H	3.0	38.7	1.0	-50.9	-13.0	-37.9		
		3.1280	-11.6	H	3.0	39.3	1.0	-49.9	-13.0	-36.9		
		High Channel (784.5MHz)										
		1.5690	-17.3	V	3.0	38.2	1.0	-54.5	-40.0	-14.5		
		2.3535	-14.3	V	3.0	38.7	1.0	-52.0	-13.0	-39.0		
		3.1380	-12.8	V	3.0	39.3	1.0	-51.2	-13.0	-38.2		
		1.5690	-16.5	H	3.0	38.2	1.0	-53.7	-40.0	-13.7		
		2.3535	-14.1	H	3.0	38.7	1.0	-51.8	-13.0	-38.8		
		3.1380	-12.6	H	3.0	39.3	1.0	-51.0	-13.0	-38.0		
		Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.										

LTE Band 7

UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement										
Company:		Samsung								
Project #:		4788103295								
Date:		09-07-17								
Test Engineer:		YH Lim								
Configuration:		EUT / AC Adapter / Ear Phone / X-Position								
Mode:		TX, LTE BAND 7, 20MHz BW, QPSK								
Chamber		Pre-amplifier			Filter		Limit			
Chamber 2		AFS42			Filter 1		FCC Part 27			
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes	
Low Ch. (2510 MHz)										
5.0200	-5.3	V	3.0	39.8	1.0	-44.1	-25.0	-19.1		
7.5300	-7.9	V	3.0	39.4	1.0	-46.3	-25.0	-21.3		
10.0400	-9.1	V	3.0	38.6	1.0	-46.7	-25.0	-21.7		
Mid Ch. (2535 MHz)										
5.0700	-1.7	V	3.0	39.8	1.0	-40.5	-25.0	-15.5		
7.6050	-7.6	V	3.0	39.3	1.0	-45.9	-25.0	-20.9		
10.1400	-9.3	V	3.0	38.6	1.0	-46.8	-25.0	-21.8		
5.0700	-3.6	H	3.0	39.8	1.0	-42.4	-25.0	-17.4		
7.6050	-7.9	H	3.0	39.3	1.0	-46.3	-25.0	-21.3		
10.1400	-9.5	H	3.0	38.6	1.0	-47.0	-25.0	-22.0		
High Ch. (2560 MHz)										
5.1200	-1.0	V	3.0	39.8	1.0	-39.8	-25.0	-14.8		
7.6800	-8.7	V	3.0	39.3	1.0	-47.0	-25.0	-22.0		
10.2400	-9.3	V	3.0	38.6	1.0	-46.8	-25.0	-21.8		
5.1200	-3.1	H	3.0	39.8	1.0	-41.9	-25.0	-16.9		
7.6800	-7.2	H	3.0	39.3	1.0	-45.5	-25.0	-20.5		
10.2400	-9.2	H	3.0	38.6	1.0	-46.7	-25.0	-21.7		
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 #:		4788103295								
Date:		09-07-17								
Test Engineer:		YH Lim								
Configuration:		EUT / AC Adapter / Ear Phone / X-Position								
Mode:		TX, LTE BAND 7, 20MHz BW, 16QAM								
Chamber		Pre-amplifier			Filter		Limit			
Chamber 2		AFS42			Filter 1		FCC Part 27			
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes	
Low Ch. (2510 MHz)										
5.0200	-5.5	V	3.0	39.8	1.0	-44.3	-25.0	-19.3		
7.5300	-7.4	V	3.0	39.4	1.0	-45.8	-25.0	-20.8		
10.0400	-9.4	V	3.0	38.6	1.0	-47.0	-25.0	-22.0		
Mid Ch. (2535 MHz)										
5.0700	-2.2	V	3.0	39.8	1.0	-41.0	-25.0	-16.0		
7.6050	-7.1	V	3.0	39.3	1.0	-45.5	-25.0	-20.5		
10.1400	-9.7	V	3.0	38.6	1.0	-47.3	-25.0	-22.3		
5.0700	-3.3	H	3.0	39.8	1.0	-42.1	-25.0	-17.1		
7.6050	-7.3	H	3.0	39.3	1.0	-45.6	-25.0	-20.6		
10.1400	-9.6	H	3.0	38.6	1.0	-47.1	-25.0	-22.1		
High Ch. (2560 MHz)										
5.1200	-1.1	V	3.0	39.8	1.0	-39.9	-25.0	-14.9		
7.6800	-8.1	V	3.0	39.3	1.0	-46.4	-25.0	-21.4		
10.2400	-9.5	V	3.0	38.6	1.0	-47.1	-25.0	-22.1		
5.1200	-3.7	H	3.0	39.8	1.0	-42.5	-25.0	-17.5		
7.6800	-7.2	H	3.0	39.3	1.0	-45.6	-25.0	-20.6		
10.2400	-9.5	H	3.0	38.6	1.0	-47.0	-25.0	-22.0		
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 7 15MHz QPSK	Company: Samsung		Project#: 4788103295							Date: 09-07-17	
	Test Engineer: YH Lim		Configuration: EUT / AC Adapter / Ear Phone / X-Position							Mode: TX, LTE BAND 7, 15MHz BW, QPSK	
	Chamber		Pre-amplifier		Filter		Limit				
	Chamber 2		AFS42		Filter 1		FCC Part 27				
	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes	
	Low Ch. (2507.5 MHz)										
	5.0150	-5.7	V	3.0	39.8	1.0	-44.5	-25.0	-19.5		
	7.5225	-6.7	V	3.0	39.4	1.0	-45.1	-25.0	-20.1		
	10.0300	-8.4	V	3.0	38.6	1.0	-46.0	-25.0	-21.0		
	5.0150	-8.6	H	3.0	39.8	1.0	-47.3	-25.0	-22.3		
	7.5225	-8.8	H	3.0	39.4	1.0	-47.1	-25.0	-22.1		
	10.0300	-8.4	H	3.0	38.6	1.0	-46.0	-25.0	-21.0		
	Mid Ch. (2535 MHz)										
	5.0700	-1.3	V	3.0	39.8	1.0	-40.1	-25.0	-15.1		
	7.6050	-6.5	V	3.0	39.3	1.0	-44.8	-25.0	-19.8		
	10.1400	-8.8	V	3.0	38.6	1.0	-46.3	-25.0	-21.3		
	5.0700	-3.4	H	3.0	39.8	1.0	-42.1	-25.0	-17.1		
	7.6050	-7.9	H	3.0	39.3	1.0	-46.2	-25.0	-21.2		
	10.1400	-9.4	H	3.0	38.6	1.0	-46.9	-25.0	-21.9		
	High Ch. (2562.5 MHz)										
	5.1250	-1.2	V	3.0	39.8	1.0	-40.1	-25.0	-15.1		
	7.6875	-6.3	V	3.0	39.3	1.0	-44.6	-25.0	-19.6		
	10.2500	-9.2	V	3.0	38.6	1.0	-46.7	-25.0	-21.7		
	5.1250	-3.2	H	3.0	39.8	1.0	-42.0	-25.0	-17.0		
	7.6875	-5.2	H	3.0	39.3	1.0	-43.5	-25.0	-18.5		
10.2500	-8.0	H	3.0	38.6	1.0	-45.6	-25.0	-20.6			
Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.											
LTE Band 7 15MHz 16QAM	UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement										
	Company: Samsung		Project#: 4788103295							Date: 09-07-17	
	Test Engineer: YH Lim		Configuration: EUT / AC Adapter / Ear Phone / X-Position							Mode: TX, LTE BAND 7, 15MHz BW, 16QAM	
	Chamber		Pre-amplifier		Filter		Limit				
	Chamber 2		AFS42		Filter 1		FCC Part 27				
	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes	
	Low Ch. (2507.5 MHz)										
	5.0150	-5.5	V	3.0	39.8	1.0	-44.3	-25.0	-19.3		
	7.5225	-7.9	V	3.0	39.4	1.0	-46.3	-25.0	-21.3		
	10.0300	-7.8	V	3.0	38.6	1.0	-45.4	-25.0	-20.4		
	5.0150	-7.7	H	3.0	39.8	1.0	-46.5	-25.0	-21.5		
	7.5225	-9.3	H	3.0	39.4	1.0	-47.7	-25.0	-22.7		
	10.0300	-9.3	H	3.0	38.6	1.0	-46.9	-25.0	-21.9		
	Mid Ch. (2535 MHz)										
	5.0700	-1.5	V	3.0	39.8	1.0	-40.3	-25.0	-15.3		
	7.6050	-6.8	V	3.0	39.3	1.0	-45.2	-25.0	-20.2		
	10.1400	-9.6	V	3.0	38.6	1.0	-47.1	-25.0	-22.1		
	5.0700	-3.1	H	3.0	39.8	1.0	-41.9	-25.0	-16.9		
	7.6050	-8.2	H	3.0	39.3	1.0	-46.6	-25.0	-21.6		
	10.1400	-9.3	H	3.0	38.6	1.0	-46.9	-25.0	-21.9		
	High Ch. (2562.5 MHz)										
	5.1250	-1.0	V	3.0	39.8	1.0	-39.9	-25.0	-14.9		
	7.6875	-7.4	V	3.0	39.3	1.0	-45.7	-25.0	-20.7		
	10.2500	-9.7	V	3.0	38.6	1.0	-47.2	-25.0	-22.2		
	5.1250	-3.5	H	3.0	39.8	1.0	-42.3	-25.0	-17.3		
7.6875	-5.4	H	3.0	39.3	1.0	-43.7	-25.0	-18.7			
10.2500	-8.9	H	3.0	38.6	1.0	-46.5	-25.0	-21.5			
Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.											

UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement											
LTE Band 7 10MHz QPSK		Company: Samsung		Project#: 4788103295						Date: 09-04-17	
		Test Engineer: JH Park		Configuration: EUT / AC Adapter / Ear Phone / X-Position						Mode: TX, LTE BAND 7, 10MHz BW, QPSK	
		Chamber		Pre-amplifier		Filter		Limit			
		Chamber 2		AFS42		Filter 1		FCC Part 27			
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes		
Low Ch. (2505 MHz)											
5.0100	-6.2	V	3.0	39.8	1.0	-45.0	-25.0	-20.0			
7.5150	-8.1	V	3.0	39.4	1.0	-46.5	-25.0	-21.5			
10.0200	-9.3	V	3.0	38.6	1.0	-46.8	-25.0	-21.8			
5.0100	-7.6	H	3.0	39.8	1.0	-46.3	-25.0	-21.3			
7.5150	-11.2	H	3.0	39.4	1.0	-49.6	-25.0	-24.6			
10.0200	-9.8	H	3.0	38.6	1.0	-47.3	-25.0	-22.3			
Mid Ch. (2535 MHz)											
5.0700	-1.5	V	3.0	39.8	1.0	-40.3	-25.0	-15.3			
7.6050	-6.7	V	3.0	39.3	1.0	-45.0	-25.0	-20.0			
10.1400	-9.6	V	3.0	38.6	1.0	-47.2	-25.0	-22.2			
5.0700	-3.4	H	3.0	39.8	1.0	-42.2	-25.0	-17.2			
7.6050	-7.5	H	3.0	39.3	1.0	-45.9	-25.0	-20.9			
10.1400	-9.8	H	3.0	38.6	1.0	-47.4	-25.0	-22.4			
High Ch. (2565 MHz)											
5.1300	-2.0	V	3.0	39.8	1.0	-40.8	-25.0	-15.8			
7.6950	-5.8	V	3.0	39.3	1.0	-44.1	-25.0	-19.1			
10.2600	-9.0	V	3.0	38.6	1.0	-46.5	-25.0	-21.5			
5.1300	-3.5	H	3.0	39.8	1.0	-42.4	-25.0	-17.4			
7.6950	-5.4	H	3.0	39.3	1.0	-43.7	-25.0	-18.7			
10.2600	-9.1	H	3.0	38.6	1.0	-46.7	-25.0	-21.7			
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 7 10MHz 16QAM		Company: Samsung		Project#: 4788103295						Date: 09-04-17	
		Test Engineer: JH Park		Configuration: EUT / AC Adapter / Ear Phone / X-Position						Mode: TX, LTE BAND 7, 10MHz BW, 16QAM	
		Chamber		Pre-amplifier		Filter		Limit			
		Chamber 2		AFS42		Filter 1		FCC Part 27			
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes		
Low Ch. (2505 MHz)											
5.0100	-6.0	V	3.0	39.8	1.0	-44.7	-25.0	-19.7			
7.5150	-8.2	V	3.0	39.4	1.0	-46.6	-25.0	-21.6			
10.0200	-9.4	V	3.0	38.6	1.0	-47.0	-25.0	-22.0			
5.0100	-7.2	H	3.0	39.8	1.0	-45.9	-25.0	-20.9			
7.5150	-11.5	H	3.0	39.4	1.0	-49.8	-25.0	-24.8			
10.0200	-9.2	H	3.0	38.6	1.0	-46.8	-25.0	-21.8			
Mid Ch. (2535 MHz)											
5.0700	-1.7	V	3.0	39.8	1.0	-40.5	-25.0	-15.5			
7.6050	-7.0	V	3.0	39.3	1.0	-45.3	-25.0	-20.3			
10.1400	-9.1	V	3.0	38.6	1.0	-46.7	-25.0	-21.7			
5.0700	-3.5	H	3.0	39.8	1.0	-42.2	-25.0	-17.2			
7.6050	-7.1	H	3.0	39.3	1.0	-45.4	-25.0	-20.4			
10.1400	-9.8	H	3.0	38.6	1.0	-47.4	-25.0	-22.4			
High Ch. (2565 MHz)											
5.1300	-1.9	V	3.0	39.8	1.0	-40.7	-25.0	-15.7			
7.6950	-6.3	V	3.0	39.3	1.0	-44.6	-25.0	-19.6			
10.2600	-9.3	V	3.0	38.6	1.0	-46.9	-25.0	-21.9			
5.1300	-3.5	H	3.0	39.8	1.0	-42.3	-25.0	-17.3			
7.6950	-5.8	H	3.0	39.3	1.0	-44.1	-25.0	-19.1			
10.2600	-8.0	H	3.0	38.6	1.0	-45.6	-25.0	-20.6			
Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.											

		UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement										
		Company: Samsung										
		Project#: 4788103295										
		Date: 09-04-17										
		Test Engineer: YH Lim										
		Configuration: EUT / AC Adapter / Ear Phone / X-Position										
		Mode: TX, LTE BAND 7, 5MHz BW, QPSK										
		<div style="border: 1px solid black; padding: 2px; display: inline-block;">Chamber</div> Chamber 2		<div style="border: 1px solid black; padding: 2px; display: inline-block;">Pre-amplifier</div> AFS42		<div style="border: 1px solid black; padding: 2px; display: inline-block;">Filter</div> Filter 1		<div style="border: 1px solid black; padding: 2px; display: inline-block;">Limit</div> FCC Part 27				
LTE Band 7 5MHz QPSK		f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes	
	Low Ch. (2502.5 MHz)											
		5.0050	-4.5	V	3.0	39.8	1.0	-43.3	-25.0	-18.3		
		7.5075	-7.7	V	3.0	39.4	1.0	-46.1	-25.0	-21.1		
		10.0100	-9.5	V	3.0	38.6	1.0	-47.1	-25.0	-22.1		
		5.0050	-5.8	H	3.0	39.8	1.0	-44.6	-25.0	-19.6		
		7.5075	-7.5	H	3.0	39.4	1.0	-45.9	-25.0	-20.9		
		10.0100	-9.6	H	3.0	38.6	1.0	-47.2	-25.0	-22.2		
	Mid Ch. (2535 MHz)											
		5.0700	-1.1	V	3.0	39.8	1.0	-39.9	-25.0	-14.9		
		7.6050	-7.9	V	3.0	39.3	1.0	-46.3	-25.0	-21.3		
		10.1400	-9.3	V	3.0	38.6	1.0	-46.8	-25.0	-21.8		
		5.0700	-3.5	H	3.0	39.8	1.0	-42.2	-25.0	-17.2		
		7.6050	-7.1	H	3.0	39.3	1.0	-45.5	-25.0	-20.5		
		10.1400	-9.8	H	3.0	38.6	1.0	-47.4	-25.0	-22.4		
	High Ch. (2567.5 MHz)											
		5.1350	-3.7	V	3.0	39.8	1.0	-42.5	-25.0	-17.5		
		7.7025	-4.5	V	3.0	39.3	1.0	-42.9	-25.0	-17.9		
		10.2700	-9.2	V	3.0	38.6	1.0	-46.8	-25.0	-21.8		
		5.1350	-4.3	H	3.0	39.8	1.0	-43.1	-25.0	-18.1		
		7.7025	-4.0	H	3.0	39.3	1.0	-42.3	-25.0	-17.3		
		10.2700	-9.8	H	3.0	38.6	1.0	-47.3	-25.0	-22.3		
			Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.									
			UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement									
			Company: Samsung									
			Project#: 4788103295									
			Date: 09-04-17									
			Test Engineer: YH Lim									
		Configuration: EUT / AC Adapter / Ear Phone / X-Position										
		Mode: TX, LTE BAND 7, 5MHz BW, 16QAM										
		<div style="border: 1px solid black; padding: 2px; display: inline-block;">Chamber</div> Chamber 2		<div style="border: 1px solid black; padding: 2px; display: inline-block;">Pre-amplifier</div> AFS42		<div style="border: 1px solid black; padding: 2px; display: inline-block;">Filter</div> Filter 1		<div style="border: 1px solid black; padding: 2px; display: inline-block;">Limit</div> FCC Part 27				
LTE Band 7 5MHz 16QAM		f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes	
	Low Ch. (2502.5 MHz)											
		5.0050	-4.5	V	3.0	39.8	1.0	-43.3	-25.0	-18.3		
		7.5075	-8.3	V	3.0	39.4	1.0	-46.7	-25.0	-21.7		
		10.0100	-10.1	V	3.0	38.6	1.0	-47.7	-25.0	-22.7		
		5.0050	-6.1	H	3.0	39.8	1.0	-44.8	-25.0	-19.8		
		7.5075	-6.0	H	3.0	39.4	1.0	-44.4	-25.0	-19.4		
		10.0100	-9.8	H	3.0	38.6	1.0	-47.4	-25.0	-22.4		
	Mid Ch. (2535 MHz)											
		5.0700	-1.0	V	3.0	39.8	1.0	-39.8	-25.0	-14.8		
		7.6050	-8.4	V	3.0	39.3	1.0	-46.7	-25.0	-21.7		
		10.1400	-10.0	V	3.0	38.6	1.0	-47.5	-25.0	-22.5		
		5.0700	-3.3	H	3.0	39.8	1.0	-42.1	-25.0	-17.1		
		7.6050	-7.4	H	3.0	39.3	1.0	-45.8	-25.0	-20.8		
		10.1400	-10.0	H	3.0	38.6	1.0	-47.6	-25.0	-22.6		
	High Ch. (2567.5 MHz)											
		5.1350	-3.6	V	3.0	39.8	1.0	-42.4	-25.0	-17.4		
		7.7025	-4.2	V	3.0	39.3	1.0	-42.5	-25.0	-17.5		
		10.2700	-9.4	V	3.0	38.6	1.0	-47.0	-25.0	-22.0		
		5.1350	-4.6	H	3.0	39.8	1.0	-43.4	-25.0	-18.4		
		7.7025	-3.9	H	3.0	39.3	1.0	-42.2	-25.0	-17.2		
		10.2700	-9.0	H	3.0	38.6	1.0	-46.6	-25.0	-21.6		
			Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.									