

**GSM 1900**

		UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement									
		Company: Samsung		Project #: 4788148881		Date: 09-13-17		Test Engineer: YH Lim		Configuration: EUT / AC Adapter / Earphone, Z Position	
GSM GSM1900 GPRS		Chamber	Pre-amplifier	Filter	Limit						
		Chamber 2	AFS42	Filter 1	Part 24						
		f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
		Low Ch, 1850.2MHz									
		3.7004	-11.9	V	3.0	39.7	1.0	-50.6	-13.0	-37.6	
		5.5506	0.0	V	3.0	39.9	1.0	-39.0	-13.0	-26.0	
		7.4008	-10.0	V	3.0	39.4	1.0	-48.4	-13.0	-35.4	
		3.7004	-13.9	H	3.0	39.7	1.0	-52.5	-13.0	-39.5	
		5.5506	-3.6	H	3.0	39.9	1.0	-42.6	-13.0	-29.6	
		7.4008	-7.6	H	3.0	39.4	1.0	-46.1	-13.0	-33.1	
		Mid Ch, 1880.0MHz									
		3.7600	-10.9	V	3.0	39.7	1.0	-49.6	-13.0	-36.6	
		5.6400	-1.0	V	3.0	40.0	1.0	-40.0	-13.0	-27.0	
		7.5200	-8.7	V	3.0	39.4	1.0	-47.1	-13.0	-34.1	
		3.7600	-10.7	H	3.0	39.7	1.0	-49.4	-13.0	-36.4	
		5.6400	-6.9	H	3.0	40.0	1.0	-45.9	-13.0	-32.9	
		7.5200	-7.8	H	3.0	39.4	1.0	-46.2	-13.0	-33.2	
		High Ch, 1909.8 MHz									
		3.8196	-9.9	V	3.0	39.7	1.0	-48.6	-13.0	-35.6	
		5.7294	-4.8	V	3.0	40.0	1.0	-43.8	-13.0	-30.8	
		7.6392	-7.0	V	3.0	39.3	1.0	-45.3	-13.0	-32.3	
		3.8196	-10.9	H	3.0	39.7	1.0	-49.7	-13.0	-36.7	
		5.7294	-6.3	H	3.0	40.0	1.0	-45.3	-13.0	-32.3	
		7.6392	-7.9	H	3.0	39.3	1.0	-46.2	-13.0	-33.2	
		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 #: 4788148881		Date: 09-13-17		Test Engineer: YH Lim		Configuration: EUT / AC Adapter / Earphone, Z Position	
GSM GSM1900 EGPRS		Chamber	Pre-amplifier	Filter	Limit						
		Chamber 2	AFS42	Filter 1	Part 24						
		f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
		Low Ch, 1850.2MHz									
		3.7004	-12.4	V	3.0	39.7	1.0	-51.1	-13.0	-38.1	
		5.5506	0.3	V	3.0	39.9	1.0	-38.6	-13.0	-25.6	
		7.4008	-10.2	V	3.0	39.4	1.0	-48.6	-13.0	-35.6	
		3.7004	-14.8	H	3.0	39.7	1.0	-53.5	-13.0	-40.5	
		5.5506	-5.0	H	3.0	39.9	1.0	-43.9	-13.0	-30.9	
		7.4008	-8.4	H	3.0	39.4	1.0	-46.8	-13.0	-33.8	
		Mid Ch, 1880.0MHz									
		3.7600	-11.6	V	3.0	39.7	1.0	-50.3	-13.0	-37.3	
		5.6400	-3.0	V	3.0	40.0	1.0	-42.0	-13.0	-29.0	
		7.5200	-10.4	V	3.0	39.4	1.0	-48.8	-13.0	-35.8	
		3.7600	-11.6	H	3.0	39.7	1.0	-50.3	-13.0	-37.3	
		5.6400	-6.3	H	3.0	40.0	1.0	-45.2	-13.0	-32.2	
		7.5200	-8.4	H	3.0	39.4	1.0	-46.7	-13.0	-33.7	
		High Ch, 1909.8 MHz									
		3.8196	-11.1	V	3.0	39.7	1.0	-49.8	-13.0	-36.8	
		5.7294	-6.3	V	3.0	40.0	1.0	-45.3	-13.0	-32.3	
		7.6392	-7.8	V	3.0	39.3	1.0	-46.1	-13.0	-33.1	
		3.8196	-12.6	H	3.0	39.7	1.0	-51.3	-13.0	-38.3	
		5.7294	-7.1	H	3.0	40.0	1.0	-46.1	-13.0	-33.1	
		7.6392	-9.2	H	3.0	39.3	1.0	-47.5	-13.0	-34.5	
		Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.									

**WCDMA Band 5**

		UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement										
WCDMA Band 5 REL99	Company: Samsung Project #: 4788148881 Date: 09-20-17 Test Engineer: YH Lim Configuration: EUT / AC Adapter / Earphone / X Position Mode: Tx, REL99.850MHz		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 Ch, 826.40MHz											
	1.6520	-16.7	V	3.0	38.2	1.0	-54.0	-13.0	-41.0			
	2.4790	-14.2	V	3.0	38.8	1.0	-52.0	-13.0	-39.0			
	3.3056	-12.3	V	3.0	39.4	1.0	-50.7	-13.0	-37.7			
	1.6520	-15.7	H	3.0	38.2	1.0	-53.0	-13.0	-40.0			
	2.4790	-14.1	H	3.0	38.8	1.0	-51.9	-13.0	-38.9			
	3.3056	-13.4	H	3.0	39.4	1.0	-51.8	-13.0	-38.8			
	Mid Ch, 836.6MHz											
	1.6732	-16.5	V	3.0	38.2	1.0	-53.8	-13.0	-40.8			
	2.5098	-15.1	V	3.0	38.8	1.0	-52.9	-13.0	-39.9			
	3.3464	-13.2	V	3.0	39.5	1.0	-51.7	-13.0	-38.7			
	1.6732	-15.2	H	3.0	38.2	1.0	-52.4	-13.0	-39.4			
	2.5098	-14.8	H	3.0	38.8	1.0	-52.6	-13.0	-39.6			
3.3464	-12.7	H	3.0	39.5	1.0	-51.2	-13.0	-38.2				
High Ch, 846.6MHz												
1.6932	-17.0	V	3.0	38.2	1.0	-54.3	-13.0	-41.3				
2.5390	-15.5	V	3.0	38.9	1.0	-53.4	-13.0	-40.4				
3.3860	-13.9	V	3.0	39.5	1.0	-52.4	-13.0	-39.4				
1.6932	-14.7	H	3.0	38.2	1.0	-51.9	-13.0	-38.9				
2.5390	-15.7	H	3.0	38.9	1.0	-53.5	-13.0	-40.5				
3.3860	-13.1	H	3.0	39.5	1.0	-51.6	-13.0	-38.6				
Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.												
WCDMA Band 5 HSDPA	Company: Samsung Project #: 4788148881 Date: 09-20-17 Test Engineer: YH Lim Configuration: EUT / AC Adapter / Earphone / X Position Mode: Tx, HSDPA, 850MHz		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 Ch, 826.40MHz											
	1.6520	-17.1	V	3.0	38.2	1.0	-54.3	-13.0	-41.3			
	2.4790	-14.8	V	3.0	38.8	1.0	-52.6	-13.0	-39.6			
	3.3056	-13.2	V	3.0	39.4	1.0	-51.7	-13.0	-38.7			
	1.6520	-15.9	H	3.0	38.2	1.0	-53.2	-13.0	-40.2			
	2.4790	-15.2	H	3.0	38.8	1.0	-53.0	-13.0	-40.0			
	3.3056	-13.7	H	3.0	39.4	1.0	-52.1	-13.0	-39.1			
	Mid Ch, 836.6MHz											
	1.6732	-16.7	V	3.0	38.2	1.0	-54.0	-13.0	-41.0			
	2.5098	-14.2	V	3.0	38.8	1.0	-52.0	-13.0	-39.0			
	3.3464	-13.0	V	3.0	39.5	1.0	-51.5	-13.0	-38.5			
	1.6732	-15.3	H	3.0	38.2	1.0	-52.5	-13.0	-39.5			
	2.5098	-14.5	H	3.0	38.8	1.0	-52.4	-13.0	-39.4			
3.3464	-12.9	H	3.0	39.5	1.0	-51.3	-13.0	-38.3				
High Ch, 846.6MHz												
1.6932	-16.0	V	3.0	38.2	1.0	-53.2	-13.0	-40.2				
2.5390	-15.5	V	3.0	38.9	1.0	-53.4	-13.0	-40.4				
3.3860	-13.6	V	3.0	39.5	1.0	-52.1	-13.0	-39.1				
1.6932	-14.7	H	3.0	38.2	1.0	-52.0	-13.0	-39.0				
2.5390	-15.7	H	3.0	38.9	1.0	-53.6	-13.0	-40.6				
3.3860	-13.7	H	3.0	39.5	1.0	-52.2	-13.0	-39.2				
Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.												

**WCDMA Band 2**

		UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement									
WCDMA Band 2 REL99		Company: Samsung									
		Project #: 4788148881									
		Date: 09-14-17									
		Test Engineer: JH Park									
		Configuration: EUT / AC Adapter / Earphone / Z Position									
		Mode: Tx, REL99,1900MHz									
		Chamber: Chamber 2		Pre-amplifier: AFS42		Filter: Filter 1		Limit: Part 24			
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes		
Low Ch, 1852.4MHz											
3.7048	-10.8	V	3.0	39.7	1.0	-49.4	-13.0	-36.4			
5.5572	-11.5	V	3.0	39.9	1.0	-50.4	-13.0	-37.4			
7.4096	-8.3	V	3.0	39.4	1.0	-46.7	-13.0	-33.7			
3.7048	-3.4	H	3.0	39.7	1.0	-42.1	-13.0	-29.1			
5.5572	-12.0	H	3.0	39.9	1.0	-50.9	-13.0	-37.9			
7.4096	-1.6	H	3.0	39.4	1.0	-40.0	-13.0	-27.0			
Mid Ch, 1880MHz											
3.7600	-9.5	V	3.0	39.7	1.0	-48.2	-13.0	-35.2			
5.6400	-11.8	V	3.0	40.0	1.0	-50.8	-13.0	-37.8			
7.5200	-1.7	V	3.0	39.4	1.0	-40.1	-13.0	-27.1			
3.7600	-5.7	H	3.0	39.7	1.0	-44.4	-13.0	-31.4			
5.6400	-10.1	H	3.0	40.0	1.0	-49.1	-13.0	-36.1			
7.5200	-2.2	H	3.0	39.4	1.0	-40.6	-13.0	-27.6			
High Ch, 1907.6MHz											
3.8152	-7.6	V	3.0	39.7	1.0	-46.3	-13.0	-33.3			
5.7228	-11.0	V	3.0	40.0	1.0	-50.0	-13.0	-37.0			
7.6304	-9.6	V	3.0	39.3	1.0	-48.0	-13.0	-35.0			
3.8152	-5.2	H	3.0	39.7	1.0	-43.9	-13.0	-30.9			
5.7228	-5.5	H	3.0	40.0	1.0	-44.5	-13.0	-31.5			
7.6304	-3.0	H	3.0	39.3	1.0	-41.4	-13.0	-28.4			
Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.											
WCDMA Band 2 HSDPA		UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement									
		Company: Samsung									
		Project #: 4788148881									
		Date: 09-14-17									
		Test Engineer: JH Park									
		Configuration: EUT / AC Adapter / Earphone / Z Position									
		Mode: Tx, HSDPA,1900MHz									
		Chamber: Chamber 2		Pre-amplifier: AFS42		Filter: Filter 1		Limit: Part 24			
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes		
Low Ch, 1852.4MHz											
3.7048	-9.9	V	3.0	39.7	1.0	-48.6	-13.0	-35.6			
5.5572	-11.2	V	3.0	39.9	1.0	-50.2	-13.0	-37.2			
7.4096	-8.0	V	3.0	39.4	1.0	-46.4	-13.0	-33.4			
3.7048	-1.8	H	3.0	39.7	1.0	-40.5	-13.0	-27.5			
5.5572	-11.5	H	3.0	39.9	1.0	-50.4	-13.0	-37.4			
7.4096	-1.6	H	3.0	39.4	1.0	-40.0	-13.0	-27.0			
Mid Ch, 1880MHz											
3.7600	-10.7	V	3.0	39.7	1.0	-49.4	-13.0	-36.4			
5.6400	-10.9	V	3.0	40.0	1.0	-49.9	-13.0	-36.9			
7.5200	-3.5	V	3.0	39.4	1.0	-41.8	-13.0	-28.8			
3.7600	-4.5	H	3.0	39.7	1.0	-43.2	-13.0	-30.2			
5.6400	-9.4	H	3.0	40.0	1.0	-48.4	-13.0	-35.4			
7.5200	-2.0	H	3.0	39.4	1.0	-40.4	-13.0	-27.4			
High Ch, 1907.6MHz											
3.8152	-9.7	V	3.0	39.7	1.0	-48.4	-13.0	-35.4			
5.7228	-10.6	V	3.0	40.0	1.0	-49.6	-13.0	-36.6			
7.6304	-10.1	V	3.0	39.3	1.0	-48.5	-13.0	-35.5			
3.8152	-5.1	H	3.0	39.7	1.0	-43.9	-13.0	-30.9			
5.7228	-6.8	H	3.0	40.0	1.0	-45.8	-13.0	-32.8			
7.6304	-3.0	H	3.0	39.3	1.0	-41.3	-13.0	-28.3			
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									
Company:		Samsung							
Project #:		4788148881							
Date:		09-25-17							
Test Engineer:		YH Lim							
Configuration:		EUT / AC Adapter / Earphone, X Position							
Mode:		TX, LTE BAND 5, 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
Low Channel (829MHz)									
1.6580	-2.6	V	3.0	38.2	1.0	-39.8	-13.0	-26.8	
2.4870	-14.1	V	3.0	38.8	1.0	-51.9	-13.0	-38.9	
3.3160	-8.7	V	3.0	39.4	1.0	-47.1	-13.0	-34.1	
4.1450	-3.4	V	3.0	39.8	1.0	-42.2	-13.0	-29.2	
4.9740	-10.1	V	3.0	39.8	1.0	-48.9	-13.0	-35.9	
1.6580	-8.6	H	3.0	38.2	1.0	-45.8	-13.0	-32.8	
2.4870	-14.8	H	3.0	38.8	1.0	-52.6	-13.0	-39.6	
3.3160	-10.0	H	3.0	39.4	1.0	-48.4	-13.0	-35.4	
4.1450	-5.5	H	3.0	39.8	1.0	-44.3	-13.0	-31.3	
4.9740	-12.1	H	3.0	39.8	1.0	-50.9	-13.0	-37.9	
Mid Channel (836.5MHz)									
1.6730	-2.6	V	3.0	38.2	1.0	-39.8	-13.0	-26.8	
2.5095	-11.7	V	3.0	38.8	1.0	-49.5	-13.0	-36.5	
3.3460	-9.3	V	3.0	39.5	1.0	-47.7	-13.0	-34.7	
4.1825	-1.5	V	3.0	39.8	1.0	-40.3	-13.0	-27.3	
5.0190	-9.2	V	3.0	39.8	1.0	-48.0	-13.0	-35.0	
1.6730	-14.2	H	3.0	38.2	1.0	-51.5	-13.0	-38.5	
2.5095	-12.9	H	3.0	38.8	1.0	-50.7	-13.0	-37.7	
3.3460	-10.3	H	3.0	39.5	1.0	-48.7	-13.0	-35.7	
4.1825	-6.3	H	3.0	39.8	1.0	-45.1	-13.0	-32.1	
5.0190	-10.6	H	3.0	39.8	1.0	-49.3	-13.0	-36.3	
High Channel (844MHz)									
1.6880	-4.1	V	3.0	38.2	1.0	-41.3	-13.0	-28.3	
2.5320	-13.1	V	3.0	38.9	1.0	-50.9	-13.0	-37.9	
3.3760	-10.0	V	3.0	39.5	1.0	-48.4	-13.0	-35.4	
4.2200	-5.1	V	4.0	39.8	2.0	-40.4	-13.0	-27.4	
5.0640	-10.3	V	5.0	39.8	3.0	-42.7	-13.0	-29.7	
1.6880	-12.1	H	3.0	38.2	1.0	-49.4	-13.0	-36.4	
2.5320	-13.6	H	3.0	38.9	1.0	-51.5	-13.0	-38.5	
3.3760	-11.4	H	3.0	39.5	1.0	-49.8	-13.0	-36.8	
4.2200	-9.8	H	3.0	39.8	1.0	-48.6	-13.0	-35.6	
5.0640	-11.8	H	3.0	39.8	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 5  
 10MHz  
 QPSK

UL Korea, Ltd Suwon Laboratory									
Above 1GHz High Frequency Substitution Measurement									
Company:		Samsung							
Project #:		4788148881							
Date:		09-25-17							
Test Engineer:		YH Lim							
Configuration:		EUT / AC Adapter / Earphone, X Position							
Mode:		TX, LTE BAND 5, 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
Low Channel (829MHz)									
1.6580	-2.6	V	3.0	38.2	1.0	-39.9	-13.0	-26.9	
2.4870	-14.5	V	3.0	38.8	1.0	-52.3	-13.0	-39.3	
3.3160	-8.7	V	3.0	39.4	1.0	-47.1	-13.0	-34.1	
4.1450	-3.3	V	3.0	39.8	1.0	-42.1	-13.0	-29.1	
4.9740	-9.7	V	3.0	39.8	1.0	-48.5	-13.0	-35.5	
1.6580	-8.1	H	3.0	38.2	1.0	-45.3	-13.0	-32.3	
2.4870	-15.6	H	3.0	38.8	1.0	-53.4	-13.0	-40.4	
3.3160	-10.6	H	3.0	39.4	1.0	-49.0	-13.0	-36.0	
4.1450	-6.1	H	3.0	39.8	1.0	-44.9	-13.0	-31.9	
4.9740	-12.3	H	3.0	39.8	1.0	-51.1	-13.0	-38.1	
Mid Channel (836.5MHz)									
1.6730	-2.2	V	3.0	38.2	1.0	-39.4	-13.0	-26.4	
2.5095	-12.0	V	3.0	38.8	1.0	-49.8	-13.0	-36.8	
3.3460	-9.1	V	3.0	39.5	1.0	-47.6	-13.0	-34.6	
4.1825	-1.7	V	3.0	39.8	1.0	-40.5	-13.0	-27.5	
5.0190	-9.2	V	3.0	39.8	1.0	-48.0	-13.0	-35.0	
1.6730	-14.2	H	3.0	38.2	1.0	-51.4	-13.0	-38.4	
2.5095	-12.9	H	3.0	38.8	1.0	-50.8	-13.0	-37.8	
3.3460	-10.4	H	3.0	39.5	1.0	-48.8	-13.0	-35.8	
4.1825	-6.2	H	3.0	39.8	1.0	-45.0	-13.0	-32.0	
5.0190	-10.4	H	3.0	39.8	1.0	-49.2	-13.0	-36.2	
High Channel (844MHz)									
1.6880	-4.8	V	3.0	38.2	1.0	-42.1	-13.0	-29.1	
2.5320	-13.0	V	3.0	38.9	1.0	-50.8	-13.0	-37.8	
3.3760	-10.4	V	3.0	39.5	1.0	-48.8	-13.0	-35.8	
4.2200	-5.2	V	4.0	39.8	2.0	-40.6	-13.0	-27.6	
5.0640	-11.0	V	5.0	39.8	3.0	-43.4	-13.0	-30.4	
1.6880	-12.0	H	3.0	38.2	1.0	-49.3	-13.0	-36.3	
2.5320	-13.9	H	3.0	38.9	1.0	-51.8	-13.0	-38.8	
3.3760	-11.3	H	3.0	39.5	1.0	-49.8	-13.0	-36.8	
4.2200	-10.1	H	3.0	39.8	1.0	-48.9	-13.0	-35.9	
5.0640	-12.3	H	3.0	39.8	1.0	-51.1	-13.0	-38.1	
Rev. 03.03.09									
Note: No other emissions were detected above the system noise floor.									

LTE  
 Band 5  
 10MHz  
 16QAM

UL Korea, Ltd Suwon Laboratory									
Above 1GHz High Frequency Substitution Measurement									
Company:		Samsung							
Project #:		4788148881							
Date:		09-22-17							
Test Engineer:		YH Lim							
Configuration:		EUT / AC Adapter / Earphone, X Position							
Mode:		TX, LTE BAND 5, 5MHz BW, QPSK							
Chamber		Pre-amplifier			Filter		Limit		
Chamber 2		AFS42			Filter 1		Part 22		
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Channel (826.5MHz)									
1.6530	-2.3	V	3.0	38.2	1.0	-39.5	-13.0	-26.5	
2.4795	-15.3	V	3.0	38.8	1.0	-53.1	-13.0	-40.1	
3.3060	-10.1	V	3.0	39.4	1.0	-48.6	-13.0	-35.6	
4.1325	-5.6	V	3.0	39.8	1.0	-44.4	-13.0	-31.4	
4.9590	-9.7	V	3.0	39.8	1.0	-48.5	-13.0	-35.5	
1.6530	-11.2	H	3.0	38.2	1.0	-48.5	-13.0	-35.5	
2.4795	-15.7	H	3.0	38.8	1.0	-53.5	-13.0	-40.5	
3.3060	-12.4	H	3.0	39.4	1.0	-50.9	-13.0	-37.9	
4.1325	-9.4	H	3.0	39.8	1.0	-48.2	-13.0	-35.2	
4.9590	-11.2	H	3.0	39.8	1.0	-50.0	-13.0	-37.0	
Mid Channel (836.5MHz)									
1.6730	-2.4	V	3.0	38.2	1.0	-39.7	-13.0	-26.7	
2.5095	-11.6	V	3.0	38.8	1.0	-49.5	-13.0	-36.5	
3.3460	-9.2	V	3.0	39.5	1.0	-47.7	-13.0	-34.7	
4.1825	-3.8	V	3.0	39.8	1.0	-42.6	-13.0	-29.6	
5.0190	-9.2	V	3.0	39.8	1.0	-48.0	-13.0	-35.0	
1.6730	-14.1	H	3.0	38.2	1.0	-51.4	-13.0	-38.4	
2.5095	-12.5	H	3.0	38.8	1.0	-50.3	-13.0	-37.3	
3.3460	-10.1	H	3.0	39.5	1.0	-48.5	-13.0	-35.5	
4.1825	-6.1	H	3.0	39.8	1.0	-45.0	-13.0	-32.0	
5.0190	-10.6	H	3.0	39.8	1.0	-49.4	-13.0	-36.4	
High Channel (846.5MHz)									
1.6930	-2.4	V	3.0	38.2	1.0	-39.7	-13.0	-26.7	
2.5395	-11.5	V	3.0	38.9	1.0	-49.4	-13.0	-36.4	
3.3860	-9.4	V	3.0	39.5	1.0	-47.9	-13.0	-34.9	
4.2325	-3.4	V	4.0	39.8	2.0	-38.7	-13.0	-25.7	
5.0790	-8.1	V	5.0	39.8	3.0	-40.5	-13.0	-27.5	
1.6930	-10.5	H	3.0	38.2	1.0	-47.8	-13.0	-34.8	
2.5395	-13.9	H	3.0	38.9	1.0	-51.8	-13.0	-38.8	
3.3860	-11.5	H	3.0	39.5	1.0	-50.0	-13.0	-37.0	
4.2325	-6.8	H	3.0	39.8	1.0	-45.6	-13.0	-32.6	
5.0790	-9.8	H	3.0	39.8	1.0	-48.6	-13.0	-35.6	
Rev. 03.03.09									
Note: No other emissions were detected above the system noise floor.									

LTE  
 Band 5  
 5MHz  
 QPSK

UL Korea, Ltd Suwon Laboratory									
Above 1GHz High Frequency Substitution Measurement									
Company:		Samsung							
Project #:		4788148881							
Date:		09-22-17							
Test Engineer:		YH Lim							
Configuration:		EUT / AC Adapter / Earphone, X Position							
Mode:		TX, LTE BAND 5, 5MHz BW, 16QAM							
Chamber		Pre-amplifier		Filter		Limit			
Chamber 2		AFS42		Filter 1		Part 22			
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Channel (826.5MHz)									
1.6530	-2.2	V	3.0	38.2	1.0	-39.4	-13.0	-26.4	
2.4795	-15.4	V	3.0	38.8	1.0	-53.3	-13.0	-40.3	
3.3060	-10.2	V	3.0	39.4	1.0	-48.7	-13.0	-35.7	
4.1325	-5.9	V	3.0	39.8	1.0	-44.7	-13.0	-31.7	
4.9590	-9.6	V	3.0	39.8	1.0	-48.4	-13.0	-35.4	
1.6530	-12.1	H	3.0	38.2	1.0	-49.4	-13.0	-36.4	
2.4795	-16.1	H	3.0	38.8	1.0	-53.9	-13.0	-40.9	
3.3060	-12.5	H	3.0	39.4	1.0	-50.9	-13.0	-37.9	
4.1325	-9.6	H	3.0	39.8	1.0	-48.4	-13.0	-35.4	
4.9590	-11.5	H	3.0	39.8	1.0	-50.3	-13.0	-37.3	
Mid Channel (836.5MHz)									
1.6730	-2.6	V	3.0	38.2	1.0	-39.8	-13.0	-26.8	
2.5095	-11.9	V	3.0	38.8	1.0	-49.7	-13.0	-36.7	
3.3460	-10.2	V	3.0	39.5	1.0	-48.7	-13.0	-35.7	
4.1825	-4.8	V	3.0	39.8	1.0	-43.6	-13.0	-30.6	
5.0190	-9.4	V	3.0	39.8	1.0	-48.2	-11.0	-37.2	
1.6730	-14.4	H	3.0	38.2	1.0	-51.6	-13.0	-38.6	
2.5095	-12.6	H	3.0	38.8	1.0	-50.5	-13.0	-37.5	
3.3460	-10.3	H	3.0	39.5	1.0	-48.7	-13.0	-35.7	
4.1825	-6.3	H	3.0	39.8	1.0	-45.1	-13.0	-32.1	
5.0190	-10.9	H	3.0	39.8	1.0	-49.7	-13.0	-36.7	
High Channel (846.5MHz)									
1.6930	-2.7	V	3.0	38.2	1.0	-39.9	-13.0	-26.9	
2.5395	-12.5	V	3.0	38.9	1.0	-50.4	-13.0	-37.4	
3.3860	-10.1	V	3.0	39.5	1.0	-48.6	-13.0	-35.6	
4.2325	-3.3	V	4.0	39.8	2.0	-38.6	-13.0	-25.6	
5.0790	-9.0	V	5.0	39.8	3.0	-41.3	-13.0	-28.3	
1.6930	-11.3	H	3.0	38.2	1.0	-48.5	-13.0	-35.5	
2.5395	-14.2	H	3.0	38.9	1.0	-52.1	-13.0	-39.1	
3.3860	-12.2	H	3.0	39.5	1.0	-50.7	-13.0	-37.7	
4.2325	-6.8	H	3.0	39.8	1.0	-45.6	-13.0	-32.6	
5.0790	-9.8	H	3.0	39.8	1.0	-48.6	-13.0	-35.6	
Rev. 03.03.09									
Note: No other emissions were detected above the system noise floor.									

LTE  
 Band 5  
 5MHz  
 16QAM

UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement									
Company:		Samsung							
Project #:		4788148881							
Date:		09-22-17							
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
Low Channel (825.5MHz)									
1.6510	-2.6	V	3.0	38.2	1.0	-39.8	-13.0	-26.8	
2.4765	-15.1	V	3.0	38.8	1.0	-52.9	-13.0	-39.9	
3.3020	-11.8	V	3.0	39.4	1.0	-50.2	-13.0	-37.2	
4.1275	-8.2	V	3.0	39.8	1.0	-47.0	-13.0	-34.0	
4.9530	-9.6	V	3.0	39.8	1.0	-48.4	-13.0	-35.4	
1.6510	-11.0	H	3.0	38.2	1.0	-48.2	-13.0	-35.2	
2.4765	-15.8	H	3.0	38.8	1.0	-53.6	-13.0	-40.6	
3.3020	-13.2	H	3.0	39.4	1.0	-51.6	-13.0	-38.6	
4.1275	-9.8	H	3.0	39.8	1.0	-48.7	-13.0	-35.7	
4.9530	-11.1	H	3.0	39.8	1.0	-49.9	-13.0	-36.9	
Mid Channel (836.5MHz)									
1.6730	-3.5	V	3.0	38.2	1.0	-40.7	-13.0	-27.7	
2.5095	-11.7	V	3.0	38.8	1.0	-49.5	-13.0	-36.5	
3.3460	-9.7	V	3.0	39.5	1.0	-48.1	-13.0	-35.1	
4.1825	-3.3	V	3.0	39.8	1.0	-42.1	-13.0	-29.1	
5.0190	-8.6	V	3.0	39.8	1.0	-47.4	-13.0	-34.4	
1.6730	-14.2	H	3.0	38.2	1.0	-51.5	-13.0	-38.5	
2.5095	-13.2	H	3.0	38.8	1.0	-51.1	-13.0	-38.1	
3.3460	-10.7	H	3.0	39.5	1.0	-49.2	-13.0	-36.2	
4.1825	-7.2	H	3.0	39.8	1.0	-46.0	-13.0	-33.0	
5.0190	-10.1	H	3.0	39.8	1.0	-48.9	-13.0	-35.9	
High Channel (847.5MHz)									
1.6950	-4.1	V	3.0	38.2	1.0	-41.4	-13.0	-28.4	
2.5425	-12.6	V	3.0	38.9	1.0	-50.5	-13.0	-37.5	
3.3900	-9.1	V	3.0	39.5	1.0	-47.5	-13.0	-34.5	
4.2375	-3.5	V	3.0	39.8	1.0	-42.3	-13.0	-29.3	
5.0850	-8.8	V	3.0	39.8	1.0	-47.6	-13.0	-34.6	
1.6950	-9.7	H	3.0	38.2	1.0	-47.0	-13.0	-34.0	
2.5425	-13.9	H	3.0	38.9	1.0	-51.8	-13.0	-38.8	
3.3900	-11.2	H	3.0	39.5	1.0	-49.7	-13.0	-36.7	
4.2375	-7.0	H	3.0	39.8	1.0	-45.8	-13.0	-32.8	
5.0850	-9.4	H	3.0	39.8	1.0	-48.1	-13.0	-35.1	
Rev. 03.03.09									
Note: No other emissions were detected above the system noise floor.									

LTE  
Band 5  
3MHz  
QPSK

UL Korea, Ltd Suwon Laboratory									
Above 1GHz High Frequency Substitution Measurement									
Company:		Samsung							
Project #:		4788148881							
Date:		09-22-17							
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
Low Channel (825.5MHz)									
1.6510	-2.5	V	3.0	38.2	1.0	-39.7	-13.0	-26.7	
2.4765	-15.4	V	3.0	38.8	1.0	-53.2	-13.0	-40.2	
3.3020	-11.8	V	3.0	39.4	1.0	-50.2	-13.0	-37.2	
4.1275	-7.7	V	3.0	39.8	1.0	-46.6	-13.0	-33.6	
4.9530	-10.1	V	3.0	39.8	1.0	-48.9	-13.0	-35.9	
1.6510	-11.4	H	3.0	38.2	1.0	-48.7	-13.0	-35.7	
2.4765	-15.8	H	3.0	38.8	1.0	-53.6	-13.0	-40.6	
3.3020	-13.0	H	3.0	39.4	1.0	-51.5	-13.0	-38.5	
4.1275	-10.2	H	3.0	39.8	1.0	-49.0	-13.0	-36.0	
4.9530		H	3.0	39.8	1.0	-38.8	-13.0	-25.8	
Mid Channel (836.5MHz)									
1.6730	-4.1	V	3.0	38.2	1.0	-41.3	-13.0	-28.3	
2.5095	-12.3	V	3.0	38.8	1.0	-50.2	-13.0	-37.2	
3.3460	-9.7	V	3.0	39.5	1.0	-48.2	-13.0	-35.2	
4.1825	-2.9	V	3.0	39.8	1.0	-41.7	-13.0	-28.7	
5.0190	-8.6	V	3.0	39.8	1.0	-47.4	-13.0	-34.4	
1.6730	-14.3	H	3.0	38.2	1.0	-51.5	-13.0	-38.5	
2.5095	-13.7	H	3.0	38.8	1.0	-51.6	-13.0	-38.6	
3.3460	-10.9	H	3.0	39.5	1.0	-49.4	-13.0	-36.4	
4.1825	-7.3	H	3.0	39.8	1.0	-46.1	-13.0	-33.1	
5.0190	-10.8	H	3.0	39.8	1.0	-49.6	-13.0	-36.6	
High Channel (847.5MHz)									
1.6950	-3.2	V	3.0	38.2	1.0	-40.5	-13.0	-27.5	
2.5425	-12.3	V	3.0	38.9	1.0	-50.2	-13.0	-37.2	
3.3900	-9.5	V	4.0	39.5	2.0	-44.5	-13.0	-31.5	
4.2375	-3.4	V	5.0	39.8	3.0	-35.8	-13.0	-22.8	
5.0850	-9.2	V	6.0	39.8	4.0	-39.0	-13.0	-26.0	
1.6950	-10.7	H	3.0	38.2	1.0	-48.0	-13.0	-35.0	
2.5425	-14.1	H	3.0	38.9	1.0	-51.9	-13.0	-38.9	
3.3900	-11.6	H	3.0	39.5	1.0	-50.1	-13.0	-37.1	
4.2375	-6.3	H	3.0	39.8	1.0	-45.1	-13.0	-32.1	
5.0850	-9.8	H	3.0	39.8	1.0	-48.5	-13.0	-35.5	
Rev. 03.03.09									
Note: No other emissions were detected above the system noise floor.									

LTE  
 Band 5  
 3MHz  
 16QAM

UL Korea, Ltd Suwon Laboratory									
Above 1GHz High Frequency Substitution Measurement									
Company:		Samsung							
Project #:		4788148881							
Date:		09-22-17							
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)									
1.6494	-2.6	V	3.0	38.2	1.0	-39.8	-13.0	-26.8	
2.4741	-15.3	V	3.0	38.8	1.0	-53.1	-13.0	-40.1	
3.2988	-12.2	V	3.0	39.4	1.0	-50.6	-13.0	-37.6	
4.1235	-10.2	V	3.0	39.8	1.0	-49.0	-13.0	-36.0	
4.9482	-11.3	V	3.0	39.8	1.0	-50.1	-13.0	-37.1	
1.6494	-10.3	H	3.0	38.2	1.0	-47.5	-13.0	-34.5	
2.4741	-15.8	H	3.0	38.8	1.0	-53.6	-13.0	-40.6	
3.2988	-13.9	H	3.0	39.4	1.0	-52.3	-13.0	-39.3	
4.1235	-11.1	H	3.0	39.8	1.0	-50.0	-13.0	-37.0	
4.9482	-11.2	H	3.0	39.8	1.0	-49.9	-13.0	-36.9	
Mid Channel (836.5MHz)									
1.6730	-2.8	V	3.0	38.2	1.0	-40.0	-13.0	-27.0	
2.5095	-12.5	V	3.0	38.8	1.0	-50.4	-13.0	-37.4	
3.3460	-9.7	V	3.0	39.5	1.0	-48.1	-13.0	-35.1	
4.1825	-2.2	V	3.0	39.8	1.0	-41.0	-13.0	-28.0	
5.0190	-8.9	V	3.0	39.8	1.0	-47.7	-13.0	-34.7	
1.6730	-13.9	H	3.0	38.2	1.0	-51.1	-13.0	-38.1	
2.5095	-13.8	H	3.0	38.8	1.0	-51.7	-13.0	-38.7	
3.3460	-9.7	H	3.0	39.5	1.0	-48.2	-13.0	-35.2	
4.1825	-7.8	H	3.0	39.8	1.0	-46.6	-13.0	-33.6	
5.0190	-10.6	H	3.0	39.8	1.0	-49.4	-13.0	-36.4	
High Channel (848.3MHz)									
1.6966	-5.2	V	3.0	38.2	1.0	-42.5	-13.0	-29.5	
2.5449	-11.6	V	3.0	38.9	1.0	-49.5	-13.0	-36.5	
3.3932	-9.5	V	3.0	39.5	1.0	-47.9	-13.0	-34.9	
4.2415	-4.6	V	4.0	39.8	1.0	-40.9	-13.0	-27.9	
5.0898	-9.9	V	5.0	39.8	1.0	-44.2	-13.0	-31.2	
1.6966	-11.3	H	3.0	38.2	1.0	-48.6	-13.0	-35.6	
2.5449	-12.5	H	3.0	38.9	1.0	-50.4	-13.0	-37.4	
3.3932	-11.8	H	3.0	39.5	1.0	-50.3	-13.0	-37.3	
4.2415	-7.7	H	3.0	39.8	1.0	-46.5	-13.0	-33.5	
5.0898	-11.3	H	3.0	39.8	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 5  
 1.4MHz  
 QPSK

UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement									
Company:		Samsung							
Project #:		4788148881							
Date:		09-22-17							
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
Low Channel (824.7MHz)									
1.6494	-2.9	V	3.0	38.2	1.0	-40.1	-13.0	-27.1	
2.4741	-15.3	V	3.0	38.8	1.0	-53.1	-13.0	-40.1	
3.2988	-13.0	V	3.0	39.4	1.0	-51.5	-13.0	-38.5	
4.1235	-10.0	V	3.0	39.8	1.0	-48.8	-13.0	-35.8	
4.9482	-11.3	V	3.0	39.8	1.0	-50.1	-13.0	-37.1	
1.6494	-10.3	H	3.0	38.2	1.0	-47.5	-13.0	-34.5	
2.4741	-16.2	H	3.0	38.8	1.0	-54.0	-13.0	-41.0	
3.2988	-14.2	H	3.0	39.4	1.0	-52.6	-13.0	-39.6	
4.1235	-11.1	H	3.0	39.8	1.0	-49.9	-13.0	-36.9	
4.9482	-11.4	H	3.0	39.8	1.0	-50.2	-13.0	-37.2	
Mid Channel (836.5MHz)									
1.6730	-4.0	V	3.0	38.2	1.0	-41.2	-13.0	-28.2	
2.5095	-12.7	V	3.0	38.8	1.0	-50.5	-13.0	-37.5	
3.3460	-10.1	V	3.0	39.5	1.0	-48.6	-13.0	-35.6	
4.1825	-2.2	V	3.0	39.8	1.0	-41.0	-13.0	-28.0	
5.0190	-8.3	V	3.0	39.8	1.0	-47.1	-13.0	-34.1	
1.6730	-15.0	H	3.0	38.2	1.0	-52.2	-13.0	-39.2	
2.5095	-14.1	H	3.0	38.8	1.0	-51.9	-13.0	-38.9	
3.3460	-10.3	H	3.0	39.5	1.0	-48.7	-13.0	-35.7	
4.1825	-8.1	H	3.0	39.8	1.0	-46.9	-13.0	-33.9	
5.0190	-10.6	H	3.0	39.8	1.0	-49.4	-13.0	-36.4	
High Channel (848.3MHz)									
1.6966	-4.7	V	3.0	38.2	1.0	-41.9	-13.0	-28.9	
2.5449	-12.7	V	3.0	38.9	1.0	-50.6	-13.0	-37.6	
3.3932	-10.1	V	3.0	39.5	1.0	-48.6	-13.0	-35.6	
4.2415	-4.4	V	4.0	39.8	2.0	-39.7	-13.0	-26.7	
5.0898	-10.2	V	5.0	39.8	3.0	-42.5	-13.0	-29.5	
1.6966	-11.5	H	3.0	38.2	1.0	-48.7	-13.0	-35.7	
2.5449	-13.4	H	3.0	38.9	1.0	-51.3	-13.0	-38.3	
3.3932	-11.9	H	3.0	39.5	1.0	-50.4	-13.0	-37.4	
4.2415	-8.1	H	3.0	39.8	1.0	-46.9	-13.0	-33.9	
5.0898	-11.7	H	3.0	39.8	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 5  
 1.4MHz  
 16QAM

**LTE Band 7**

		UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement									
		Company: Samsung									
		Project #: 4788148881									
		Date: 09-15-17									
		Test Engineer: JH Park									
		Configuration: EUT / AC Adapter / Ear Phone / Z-Position									
		Mode: TX, LTE BAND 7, 20MHz 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		f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band 7		Low Ch, (2510 MHz)									
		5.0200	-7.3	V	3.0	39.8	1.0	-46.1	-25.0	-21.1	
		7.5300	5.4	V	3.0	39.4	1.0	-33.0	-25.0	-8.0	
		10.0400	-0.7	V	3.0	38.6	1.0	-38.3	-25.0	-13.3	
20MHz		5.0200	0.0	H	3.0	39.8	1.0	-38.8	-25.0	-13.8	
		7.5300	4.7	H	3.0	39.4	1.0	-33.6	-25.0	-8.6	
QPSK		10.0400	-8.8	H	3.0	38.6	1.0	-46.4	-25.0	-21.4	
		Mid Ch, (2535 MHz)									
		5.0700	-1.7	V	3.0	39.8	1.0	-40.5	-25.0	-15.5	
		7.6050	0.4	V	3.0	39.3	1.0	-37.9	-25.0	-12.9	
		10.1400	-5.2	V	3.0	38.6	1.0	-42.7	-25.0	-17.7	
		5.0700	3.4	H	3.0	39.8	1.0	-35.4	-25.0	-10.4	
		7.6050	0.6	H	3.0	39.3	1.0	-37.8	-25.0	-12.8	
		10.1400	-9.1	H	3.0	38.6	1.0	-46.7	-25.0	-21.7	
		High Ch, (2560 MHz)									
		5.1200	-5.7	V	3.0	39.8	1.0	-44.5	-25.0	-19.5	
		7.6800	-1.4	V	3.0	39.3	1.0	-39.7	-25.0	-14.7	
		10.2400	-7.2	V	3.0	38.6	1.0	-44.8	-25.0	-19.8	
		5.1200	0.3	H	3.0	39.8	1.0	-38.6	-25.0	-13.6	
		7.6800	-1.3	H	3.0	39.3	1.0	-39.6	-25.0	-14.6	
		10.2400	-8.7	H	3.0	38.6	1.0	-46.2	-25.0	-21.2	
		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 #: 4788148881									
		Date: 09-15-17									
		Test Engineer: JH Park									
		Configuration: EUT / AC Adapter / Ear Phone / Z-Position									
		Mode: TX, LTE BAND 7, 20MHz 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		f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band 7		Low Ch, (2510 MHz)									
		5.0200	-7.2	V	3.0	39.8	1.0	-45.9	-25.0	-20.9	
		7.5300	5.4	V	3.0	39.4	1.0	-33.0	-25.0	-8.0	
		10.0400	-1.0	V	3.0	38.6	1.0	-38.6	-25.0	-13.6	
20MHz		5.0200	0.0	H	3.0	39.8	1.0	-38.7	-25.0	-13.7	
		7.5300	5.9	H	3.0	39.4	1.0	-32.4	-25.0	-7.4	
16QAM		10.0400	-9.3	H	3.0	38.6	1.0	-46.9	-25.0	-21.9	
		Mid Ch, (2535 MHz)									
		5.0700	-1.1	V	3.0	39.8	1.0	-39.8	-25.0	-14.8	
		7.6050	0.6	V	3.0	39.3	1.0	-37.7	-25.0	-12.7	
		10.1400	-4.4	V	3.0	38.6	1.0	-42.0	-25.0	-17.0	
		5.0700	3.2	H	3.0	39.8	1.0	-35.6	-25.0	-10.6	
		7.6050	0.5	H	3.0	39.3	1.0	-37.8	-25.0	-12.8	
		10.1400	-9.6	H	3.0	38.6	1.0	-47.2	-25.0	-22.2	
		High Ch, (2560 MHz)									
		5.1200	-6.3	V	3.0	39.8	1.0	-45.1	-25.0	-20.1	
		7.6800	-2.1	V	3.0	39.3	1.0	-40.4	-25.0	-15.4	
		10.2400	-7.2	V	3.0	38.6	1.0	-44.7	-25.0	-19.7	
		5.1200	0.3	H	3.0	39.8	1.0	-38.6	-25.0	-13.6	
		7.6800	-1.2	H	3.0	39.3	1.0	-39.6	-25.0	-14.6	
		10.2400	-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.									

		UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement									
LTE Band 7 15MHz QPSK	Company: Samsung										
	Project #: 4788148881										
	Date: 09-15-17										
	Test Engineer: JH Park										
	Configuration: EUT / AC Adapter / Ear Phone / Z-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	-5.1	V	3.0	39.8	1.0	-43.9	-25.0	-18.9		
	7.5225	5.7	V	3.0	39.4	1.0	-32.7	-25.0	-7.7		
	10.0300	-0.2	V	3.0	38.6	1.0	-37.7	-25.0	-12.7		
	5.0150	0.2	H	3.0	39.8	1.0	-38.5	-25.0	-13.5		
	7.5225	7.9	H	3.0	39.4	1.0	-30.5	-25.0	-5.5		
	10.0300	-2.2	H	3.0	38.6	1.0	-39.8	-25.0	-14.8		
	Mid Ch, (2535 MHz)										
	5.0700	-0.8	V	3.0	39.8	1.0	-39.6	-25.0	-14.6		
	7.6050	0.9	V	3.0	39.3	1.0	-37.5	-25.0	-12.5		
	10.1400	-4.8	V	3.0	38.6	1.0	-42.3	-25.0	-17.3		
	5.0700	3.7	H	3.0	39.8	1.0	-35.0	-25.0	-10.0		
	7.6050	-0.3	H	3.0	39.3	1.0	-38.6	-25.0	-13.6		
	10.1400	-8.9	H	3.0	38.6	1.0	-46.5	-25.0	-21.5		
	High Ch, (2562.5 MHz)										
	5.1250	-3.5	V	3.0	39.8	1.0	-42.3	-25.0	-17.3		
7.6875	-2.2	V	3.0	39.3	1.0	-40.5	-25.0	-15.5			
10.2500	-7.4	V	3.0	38.6	1.0	-45.0	-25.0	-20.0			
5.1250	2.1	H	3.0	39.8	1.0	-36.8	-25.0	-11.8			
7.6875	-3.4	H	3.0	39.3	1.0	-41.7	-25.0	-16.7			
10.2500	-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.											
LTE Band 7 15MHz 16QAM	UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement										
	Company: Samsung										
	Project #: 4788148881										
	Date: 09-15-17										
	Test Engineer: JH Park										
	Configuration: EUT / AC Adapter / Ear Phone / Z-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	-4.6	V	3.0	39.8	1.0	-43.4	-25.0	-18.4		
	7.5225	5.2	V	3.0	39.4	1.0	-33.2	-25.0	-8.2		
	10.0300	0.9	V	3.0	38.6	1.0	-36.7	-25.0	-11.7		
	5.0150	0.3	H	3.0	39.8	1.0	-38.4	-25.0	-13.4		
	7.5225	8.1	H	3.0	39.4	1.0	-30.3	-25.0	-5.3		
	10.0300	-2.6	H	3.0	38.6	1.0	-40.2	-25.0	-15.2		
	Mid Ch, (2535 MHz)										
	5.0700	-0.4	V	3.0	39.8	1.0	-39.2	-25.0	-14.2		
	7.6050	0.6	V	3.0	39.3	1.0	-37.8	-25.0	-12.8		
	10.1400	-7.4	V	3.0	38.6	1.0	-44.9	-25.0	-19.9		
	5.0700	3.9	H	3.0	39.8	1.0	-34.9	-25.0	-9.9		
	7.6050	-1.5	H	3.0	39.3	1.0	-39.9	-25.0	-14.9		
	10.1400	-9.8	H	3.0	38.6	1.0	-47.4	-25.0	-22.4		
	High Ch, (2562.5 MHz)										
5.1250	-3.6	V	3.0	39.8	1.0	-42.4	-25.0	-17.4			
7.6875	-2.3	V	3.0	39.3	1.0	-40.6	-25.0	-15.6			
10.2500	-7.6	V	3.0	38.6	1.0	-45.2	-25.0	-20.2			
5.1250	1.9	H	3.0	39.8	1.0	-36.9	-25.0	-11.9			
7.6875	-3.1	H	3.0	39.3	1.0	-41.5	-25.0	-16.5			
10.2500	-9.4	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 10MHz QPSK		Company: Samsung											
		Project #: 4788148881											
		Date: 09-15-17											
		Test Engineer: JH Park											
		Configuration: EUT / AC Adapter / Ear Phone / Z-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	-4.5	V	3.0	39.8	1.0	-43.2	-25.0	-18.2	
				7.5150	4.9	V	3.0	39.4	1.0	-33.5	-25.0	-8.5	
				10.0200	-0.9	V	3.0	38.6	1.0	-38.5	-25.0	-13.5	
				5.0100	1.1	H	3.0	39.8	1.0	-37.7	-25.0	-12.7	
				7.5150	-8.1	H	3.0	39.4	1.0	-46.5	-25.0	-21.5	
				10.0200	-2.9	H	3.0	38.6	1.0	-40.5	-25.0	-15.5	
				Mid Ch. (2535 MHz)									
				5.0700	-5.2	V	3.0	39.8	1.0	-44.0	-25.0	-19.0	
				7.6050	-0.1	V	3.0	39.3	1.0	-38.5	-25.0	-13.5	
				10.1400	-5.5	V	3.0	38.6	1.0	-43.0	-25.0	-18.0	
				5.0700	3.3	H	3.0	39.8	1.0	-35.5	-25.0	-10.5	
				7.6050	-1.1	H	3.0	39.3	1.0	-39.4	-25.0	-14.4	
				10.1400	-9.2	H	3.0	38.6	1.0	-46.8	-25.0	-21.8	
				High Ch. (2565 MHz)									
		5.1300	-3.4	V	3.0	39.8	1.0	-42.2	-25.0	-17.2			
		7.6950	-6.9	V	3.0	39.3	1.0	-45.2	-25.0	-20.2			
		10.2600	-8.8	V	3.0	38.6	1.0	-46.4	-25.0	-21.4			
		5.1300	2.6	H	3.0	39.8	1.0	-36.2	-25.0	-11.2			
		7.6950	-4.4	H	3.0	39.3	1.0	-42.7	-25.0	-17.7			
		10.2600	-9.3	H	3.0	38.6	1.0	-46.8	-25.0	-21.8			
		Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.											
LTE Band 7 10MHz 16QAM		Company: Samsung											
		Project #: 4788148881											
		Date: 09-15-17											
		Test Engineer: JH Park											
		Configuration: EUT / AC Adapter / Ear Phone / Z-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	-3.7	V	3.0	39.8	1.0	-42.5	-25.0	-17.5	
				7.5150	6.0	V	3.0	39.4	1.0	-32.3	-25.0	-7.3	
				10.0200	-1.0	V	3.0	38.6	1.0	-38.6	-25.0	-13.6	
				5.0100	1.3	H	3.0	39.8	1.0	-37.4	-25.0	-12.4	
				7.5150	-8.1	H	3.0	39.4	1.0	-46.5	-25.0	-21.5	
				10.0200	-2.6	H	3.0	38.6	1.0	-40.1	-25.0	-15.1	
				Mid Ch. (2535 MHz)									
				5.0700	-4.1	V	3.0	39.8	1.0	-42.9	-25.0	-17.9	
				7.6050	2.2	V	3.0	39.3	1.0	-36.1	-25.0	-11.1	
				10.1400	-3.8	V	3.0	38.6	1.0	-41.4	-25.0	-16.4	
				5.0700	3.5	H	3.0	39.8	1.0	-35.3	-25.0	-10.3	
				7.6050	-0.2	H	3.0	39.3	1.0	-38.5	-25.0	-13.5	
				10.1400	-8.5	H	3.0	38.6	1.0	-46.1	-25.0	-21.1	
				High Ch. (2565 MHz)									
		5.1300	-2.5	V	3.0	39.8	1.0	-41.3	-25.0	-16.3			
		7.6950	-6.3	V	3.0	39.3	1.0	-44.6	-25.0	-19.6			
		10.2600	-8.2	V	3.0	38.6	1.0	-45.8	-25.0	-20.8			
		5.1300	2.5	H	3.0	39.8	1.0	-36.3	-25.0	-11.3			
		7.6950	-4.0	H	3.0	39.3	1.0	-42.3	-25.0	-17.3			
		10.2600	-9.5	H	3.0	38.6	1.0	-47.1	-25.0	-22.1			
		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											
LTE Band 7 5MHz QPSK		Company: Samsung											
		Project#: 4788148881											
		Date: 09-15-17											
		Test Engineer: JH Park											
		Configuration: EUT / AC Adapter / Ear Phone / Z-Position											
		Mode: TX, LTE BAND 7, 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 Ch. (2502.5 MHz)									
				5.0050	-5.9	V	3.0	39.8	1.0	-44.7	-25.0	-19.7	
				7.5075	2.4	V	3.0	39.4	1.0	-36.0	-25.0	-11.0	
				10.0100	-2.8	V	3.0	38.6	1.0	-40.3	-25.0	-15.3	
				Mid Ch. (2535 MHz)									
				5.0700	-1.6	V	3.0	39.8	1.0	-40.3	-25.0	-15.3	
				7.6050	0.6	V	3.0	39.3	1.0	-37.7	-25.0	-12.7	
				10.1400	-5.4	V	3.0	38.6	1.0	-42.9	-25.0	-17.9	
				5.0700	3.5	H	3.0	39.8	1.0	-35.3	-25.0	-10.3	
				7.6050	0.6	H	3.0	39.3	1.0	-37.8	-25.0	-12.8	
				10.1400	-9.0	H	3.0	38.6	1.0	-46.5	-25.0	-21.5	
				High Ch. (2567.5 MHz)									
				5.1350	-1.9	V	3.0	39.8	1.0	-40.7	-25.0	-15.7	
				7.7025	-8.6	V	3.0	39.3	1.0	-46.9	-25.0	-21.9	
				10.2700	-9.5	V	3.0	38.6	1.0	-47.0	-25.0	-22.0	
				5.1350	2.8	H	3.0	39.8	1.0	-36.0	-25.0	-11.0	
		7.7025	-2.1	H	3.0	39.3	1.0	-40.4	-25.0	-15.4			
		10.2700	-9.1	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.											
LTE Band 7 5MHz 16QAM		Company: Samsung											
		Project#: 4788148881											
		Date: 09-15-17											
		Test Engineer: JH 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 Ch. (2502.5 MHz)									
				5.0050	-4.6	V	3.0	39.8	1.0	-43.4	-25.0	-18.4	
				7.5075	2.9	V	3.0	39.4	1.0	-35.5	-25.0	-10.5	
				10.0100	-2.5	V	3.0	38.6	1.0	-40.1	-25.0	-15.1	
				Mid Ch. (2535 MHz)									
				5.0700	-0.6	V	3.0	39.8	1.0	-39.4	-25.0	-14.4	
				7.6050	0.1	V	3.0	39.3	1.0	-38.3	-25.0	-13.3	
				10.1400	-4.9	V	3.0	38.6	1.0	-42.5	-25.0	-17.5	
				5.0700	3.8	H	3.0	39.8	1.0	-35.0	-25.0	-10.0	
				7.6050	0.1	H	3.0	39.3	1.0	-38.3	-25.0	-13.3	
				10.1400	-9.5	H	3.0	38.6	1.0	-47.1	-25.0	-22.1	
				High Ch. (2567.5 MHz)									
				5.1350	-1.7	V	3.0	39.8	1.0	-40.5	-25.0	-15.5	
				7.7025	-7.8	V	3.0	39.3	1.0	-46.1	-25.0	-21.1	
				10.2700	-8.7	V	3.0	38.6	1.0	-46.3	-25.0	-21.3	
				5.1350	3.1	H	3.0	39.8	1.0	-35.8	-25.0	-10.8	
		7.7025	-2.5	H	3.0	39.3	1.0	-40.8	-25.0	-15.8			
		10.2700	-9.5	H	3.0	38.6	1.0	-47.1	-25.0	-22.1			
		Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.											

**LTE Band 7(with Protective cover)**

		UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement										
		Company: Samsung										
		Project #: 4788148881										
		Date: 10-12-17										
		Test Engineer: JH Park										
		Configuration: EUT / AC Adapter / Ear Phone / Z-Position										
		Mode: TX, LTE BAND 7, 20MHz 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 20MHz 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, (2510 MHz)											
		5.0200	-3.0	V	3.0	39.8	1.0	-41.8	-25.0	-16.8		
		7.5300	2.1	V	3.0	39.4	1.0	-36.3	-25.0	-11.3		
		10.0400	-0.5	V	3.0	38.6	1.0	-38.0	-25.0	-13.0		
		5.0200	-0.9	H	3.0	39.8	1.0	-39.7	-25.0	-14.7		
		7.5300	5.4	H	3.0	39.4	1.0	-33.0	-25.0	-8.0		
		10.0400	-6.1	H	3.0	38.6	1.0	-43.7	-25.0	-18.7		
	Mid Ch, (2535 MHz)											
		5.0700	-0.6	V	3.0	39.8	1.0	-39.4	-25.0	-14.4		
		7.6050	0.9	V	3.0	39.3	1.0	-37.5	-25.0	-12.5		
		10.1400	-3.7	V	3.0	38.6	1.0	-41.2	-25.0	-16.2		
		5.0700	2.8	H	3.0	39.8	1.0	-36.0	-25.0	-11.0		
		7.6050	4.7	H	3.0	39.3	1.0	-33.6	-25.0	-8.6		
		10.1400	-5.5	H	3.0	38.6	1.0	-43.1	-25.0	-18.1		
	High Ch, (2560 MHz)											
		5.1200	-1.4	V	3.0	39.8	1.0	-40.2	-25.0	-15.2		
		7.6800	-4.9	V	3.0	39.3	1.0	-43.2	-25.0	-18.2		
		10.2400	-5.0	V	3.0	38.6	1.0	-42.6	-25.0	-17.6		
		5.1200	2.7	H	3.0	39.8	1.0	-36.1	-25.0	-11.1		
		7.6800	-1.8	H	3.0	39.3	1.0	-40.1	-25.0	-15.1		
		10.2400	-9.3	H	3.0	38.6	1.0	-46.9	-25.0	-21.9		
			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 #: 4788148881									
			Date: 10-12-17									
			Test Engineer: JH Park									
		Configuration: EUT / AC Adapter / Ear Phone / Z-Position										
		Mode: TX, LTE BAND 7, 20MHz 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 20MHz 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, (2510 MHz)											
		5.0200	-2.7	V	3.0	39.8	1.0	-41.4	-25.0	-16.4		
		7.5300	2.4	V	3.0	39.4	1.0	-36.0	-25.0	-11.0		
		10.0400	-0.7	V	3.0	38.6	1.0	-38.3	-25.0	-13.3		
		5.0200	-0.8	H	3.0	39.8	1.0	-39.5	-25.0	-14.5		
		7.5300	4.9	H	3.0	39.4	1.0	-33.5	-25.0	-8.5		
		10.0400	-5.9	H	3.0	38.6	1.0	-43.5	-25.0	-18.5		
	Mid Ch, (2535 MHz)											
		5.0700	-0.2	V	3.0	39.8	1.0	-39.0	-25.0	-14.0		
		7.6050	0.0	V	3.0	39.3	1.0	-38.4	-25.0	-13.4		
		10.1400	-5.8	V	3.0	38.6	1.0	-43.4	-25.0	-18.4		
		5.0700	2.9	H	3.0	39.8	1.0	-35.9	-25.0	-10.9		
		7.6050	3.7	H	3.0	39.3	1.0	-34.7	-25.0	-9.7		
		10.1400	-6.1	H	3.0	38.6	1.0	-43.7	-25.0	-18.7		
	High Ch, (2560 MHz)											
		5.1200	-1.2	V	3.0	39.8	1.0	-40.0	-25.0	-15.0		
		7.6800	-4.7	V	3.0	39.3	1.0	-43.0	-25.0	-18.0		
		10.2400	-4.6	V	3.0	38.6	1.0	-42.1	-25.0	-17.1		
		5.1200	2.7	H	3.0	39.8	1.0	-36.1	-25.0	-11.1		
		7.6800	-2.5	H	3.0	39.3	1.0	-40.8	-25.0	-15.8		
		10.2400	-9.5	H	3.0	38.6	1.0	-47.1	-25.0	-22.1		
			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 #: 4788148881									
		Date: 10-12-17									
		Test Engineer: JH Park									
		Configuration: EUT / AC Adapter / Ear Phone / Z-Position									
		Mode: TX, LTE BAND 7, 15MHz 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		f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band 7		Low Ch, (2507.5 MHz)									
		5.0150	-3.9	V	3.0	39.8	1.0	-42.7	-25.0	-17.7	
		7.5225	-0.1	V	3.0	39.4	1.0	-38.5	-25.0	-13.5	
		10.0300	-1.2	V	3.0	38.6	1.0	-38.8	-25.0	-13.8	
15MHz		5.0150	2.0	H	3.0	39.8	1.0	-36.8	-25.0	-11.8	
		7.5225	7.3	H	3.0	39.4	1.0	-31.1	-25.0	-6.1	
QPSK		10.0300	-5.8	H	3.0	38.6	1.0	-43.4	-25.0	-18.4	
		Mid Ch, (2535 MHz)									
		5.0700	0.0	V	3.0	39.8	1.0	-38.8	-25.0	-13.8	
		7.6050	0.6	V	3.0	39.3	1.0	-37.8	-25.0	-12.8	
		10.1400	-3.2	V	3.0	38.6	1.0	-40.7	-25.0	-15.7	
		5.0700	3.2	H	3.0	39.8	1.0	-35.6	-25.0	-10.6	
		7.6050	5.5	H	3.0	39.3	1.0	-32.8	-25.0	-7.8	
		10.1400	-3.7	H	3.0	38.6	1.0	-41.3	-25.0	-16.3	
		High Ch, (2562.5 MHz)									
		5.1250	-2.7	V	3.0	39.8	1.0	-41.5	-25.0	-16.5	
		7.6875	-3.6	V	3.0	39.3	1.0	-41.9	-25.0	-16.9	
		10.2500	-6.0	V	3.0	38.6	1.0	-43.5	-25.0	-18.5	
		5.1250	2.8	H	3.0	39.8	1.0	-36.0	-25.0	-11.0	
		7.6875	-0.4	H	3.0	39.3	1.0	-38.7	-25.0	-13.7	
		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									
		Company: Samsung									
		Project #: 4788148881									
		Date: 10-12-17									
		Test Engineer: JH Park									
		Configuration: EUT / AC Adapter / Ear Phone / Z-Position									
		Mode: TX, LTE BAND 7, 15MHz 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		f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band 7		Low Ch, (2507.5 MHz)									
		5.0150	-3.0	V	3.0	39.8	1.0	-41.8	-25.0	-16.8	
		7.5225	0.9	V	3.0	39.4	1.0	-37.5	-25.0	-12.5	
		10.0300	-1.6	V	3.0	38.6	1.0	-39.1	-25.0	-14.1	
15MHz		5.0150	2.1	H	3.0	39.8	1.0	-36.7	-25.0	-11.7	
		7.5225	6.9	H	3.0	39.4	1.0	-31.5	-25.0	-6.5	
16QAM		10.0300	-6.0	H	3.0	38.6	1.0	-43.6	-25.0	-18.6	
		Mid Ch, (2535 MHz)									
		5.0700	0.8	V	3.0	39.8	1.0	-38.0	-25.0	-13.0	
		7.6050	0.9	V	3.0	39.3	1.0	-37.4	-25.0	-12.4	
		10.1400	-3.4	V	3.0	38.6	1.0	-41.0	-25.0	-16.0	
		5.0700	3.4	H	3.0	39.8	1.0	-35.4	-25.0	-10.4	
		7.6050	5.8	H	3.0	39.3	1.0	-32.5	-25.0	-7.5	
		10.1400	-5.1	H	3.0	38.6	1.0	-42.6	-25.0	-17.6	
		High Ch, (2562.5 MHz)									
		5.1250	-2.1	V	3.0	39.8	1.0	-40.9	-25.0	-15.9	
		7.6875	-4.6	V	3.0	39.3	1.0	-42.9	-25.0	-17.9	
		10.2500	-7.2	V	3.0	38.6	1.0	-44.7	-25.0	-19.7	
		5.1250	3.4	H	3.0	39.8	1.0	-35.4	-25.0	-10.4	
		7.6875	-0.8	H	3.0	39.3	1.0	-39.1	-25.0	-14.1	
		10.2500	-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									
LTE Band 7 10MHz QPSK	Company: Samsung										
	Project #: 4788148881										
	Date: 10-12-17										
	Test Engineer: JH Park										
	Configuration: EUT / AC Adapter / Ear Phone / Z-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	-2.6	V	3.0	39.8	1.0	-41.4	-25.0	-16.4		
	7.5150	5.1	V	3.0	39.4	1.0	-33.3	-25.0	-8.3		
	10.0200	-0.1	V	3.0	38.6	1.0	-37.6	-25.0	-12.6		
	5.0100	0.9	H	3.0	39.8	1.0	-37.9	-25.0	-12.9		
	7.5150	8.5	H	3.0	39.4	1.0	-29.9	-25.0	-4.9		
	10.0200	-3.2	H	3.0	38.6	1.0	-40.8	-25.0	-15.8		
	Mid Ch, (2535 MHz)										
	5.0700	-0.8	V	3.0	39.8	1.0	-39.6	-25.0	-14.6		
	7.6050	2.7	V	3.0	39.3	1.0	-35.7	-25.0	-10.7		
	10.1400	-3.1	V	3.0	38.6	1.0	-40.7	-25.0	-15.7		
	5.0700	1.9	H	3.0	39.8	1.0	-36.9	-25.0	-11.9		
	7.6050	6.2	H	3.0	39.3	1.0	-32.1	-25.0	-7.1		
	10.1400	-4.6	H	3.0	38.6	1.0	-42.2	-25.0	-17.2		
	High Ch, (2565 MHz)										
5.1300	-1.4	V	3.0	39.8	1.0	-40.2	-25.0	-15.2			
7.6950	-1.1	V	3.0	39.3	1.0	-39.4	-25.0	-14.4			
10.2600	-4.9	V	3.0	38.6	1.0	-42.5	-25.0	-17.5			
5.1300	4.1	H	3.0	39.8	1.0	-34.7	-25.0	-9.7			
7.6950	1.6	H	3.0	39.3	1.0	-36.7	-25.0	-11.7			
10.2600	-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.											
LTE Band 7 10MHz 16QAM	Company: Samsung										
	Project #: 4788148881										
	Date: 10-12-17										
	Test Engineer: JH Park										
	Configuration: EUT / AC Adapter / Ear Phone / Z-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	-2.2	V	3.0	39.8	1.0	-41.0	-25.0	-16.0		
	7.5150	4.8	V	3.0	39.4	1.0	-33.6	-25.0	-8.6		
	10.0200	-0.4	V	3.0	38.6	1.0	-38.0	-25.0	-13.0		
	5.0100	1.3	H	3.0	39.8	1.0	-37.5	-25.0	-12.5		
	7.5150	8.0	H	3.0	39.4	1.0	-30.4	-25.0	-5.4		
	10.0200	-3.6	H	3.0	38.6	1.0	-41.1	-25.0	-16.1		
	Mid Ch, (2535 MHz)										
	5.0700	-0.9	V	3.0	39.8	1.0	-39.7	-25.0	-14.7		
	7.6050	2.2	V	3.0	39.3	1.0	-36.2	-25.0	-11.2		
	10.1400	-3.5	V	3.0	38.6	1.0	-41.0	-25.0	-16.0		
	5.0700	2.7	H	3.0	39.8	1.0	-36.1	-25.0	-11.1		
	7.6050	6.2	H	3.0	39.3	1.0	-32.1	-25.0	-7.1		
	10.1400	-4.6	H	3.0	38.6	1.0	-42.1	-25.0	-17.1		
	High Ch, (2565 MHz)										
5.1300	-1.0	V	3.0	39.8	1.0	-39.8	-25.0	-14.8			
7.6950	-2.1	V	3.0	39.3	1.0	-40.4	-25.0	-15.4			
10.2600	-6.3	V	3.0	38.6	1.0	-43.8	-25.0	-18.8			
5.1300	4.6	H	3.0	39.8	1.0	-34.2	-25.0	-9.2			
7.6950	1.5	H	3.0	39.3	1.0	-36.8	-25.0	-11.8			
10.2600	-9.2	H	3.0	38.6	1.0	-46.8	-25.0	-21.8			
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 #: 4788148881									
		Date: 10-11-17									
		Test Engineer: YH Lim									
		Configuration: EUT / AC Adapter / Ear Phone / Z-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		f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band 7		Low Ch, (2502.5 MHz)									
		5.0050	-1.4	V	3.0	39.8	1.0	-40.2	-25.0	-15.2	
		7.5075	7.2	V	3.0	39.4	1.0	-31.2	-25.0	-6.2	
		10.0100	-3.1	V	3.0	38.6	1.0	-40.7	-25.0	-15.7	
5MHz		Mid Ch, (2535 MHz)									
		5.0050	0.4	H	3.0	39.8	1.0	-38.3	-25.0	-13.3	
		7.5075	9.4	H	3.0	39.4	1.0	-29.0	-25.0	-4.0	
QPSK		10.0100	-5.5	H	3.0	38.6	1.0	-43.1	-25.0	-18.1	
		High Ch, (2567.5 MHz)									
		5.1350	-3.4	V	3.0	39.8	1.0	-42.2	-25.0	-17.2	
		7.7025	0.5	V	3.0	39.3	1.0	-37.8	-25.0	-12.8	
		10.2700	-6.1	V	3.0	38.6	1.0	-43.6	-25.0	-18.6	
		5.1350	3.9	H	3.0	39.8	1.0	-34.9	-25.0	-9.9	
		7.7025	0.0	H	3.0	39.3	1.0	-38.3	-25.0	-13.3	
		10.2700	-7.4	H	3.0	38.6	1.0	-44.9	-25.0	-19.9	
		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 #: 4788148881									
		Date: 10-11-17									
		Test Engineer: YH Lim									
		Configuration: EUT / AC Adapter / Ear Phone / Z-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		f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band 7		Low Ch, (2502.5 MHz)									
		5.0050	-2.5	V	3.0	39.8	1.0	-41.3	-25.0	-16.3	
		7.5075	7.0	V	3.0	39.4	1.0	-31.4	-25.0	-6.4	
		10.0100	-1.7	V	3.0	38.6	1.0	-39.3	-25.0	-14.3	
5MHz		Mid Ch, (2535 MHz)									
		5.0050	0.5	H	3.0	39.8	1.0	-38.2	-25.0	-13.2	
		7.5075	9.4	H	3.0	39.4	1.0	-29.0	-25.0	-4.0	
16QAM		10.0100	-6.1	H	3.0	38.6	1.0	-43.7	-25.0	-18.7	
		High Ch, (2567.5 MHz)									
		5.1350	-3.1	V	3.0	39.8	1.0	-41.9	-25.0	-16.9	
		7.7025	0.3	V	3.0	39.3	1.0	-38.1	-25.0	-13.1	
		10.2700	-6.5	V	3.0	38.6	1.0	-44.1	-25.0	-19.1	
		5.1350	3.9	H	3.0	39.8	1.0	-34.9	-25.0	-9.9	
		7.7025	0.0	H	3.0	39.3	1.0	-38.3	-25.0	-13.3	
		10.2700	-8.5	H	3.0	38.6	1.0	-46.1	-25.0	-21.1	
		Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.									

**LTE Band 41**

UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement										
Company:		Samsung								
Project #:		4788148881								
Date:		09-18-17								
Test Engineer:		JH Park								
Configuration:		EUT / AC Adapter / Ear Phone / Z-Position								
Mode:		TX, LTE BAND 41, 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, (2565 MHz)										
5.1300	-3.7	V	3.0	39.8	1.0	-42.5	-25.0	-17.5		
7.6950	-0.3	V	3.0	39.3	1.0	-38.6	-25.0	-13.6		
10.2600	-9.0	V	3.0	38.6	1.0	-46.5	-25.0	-21.5		
5.1300	2.1	H	3.0	39.8	1.0	-36.7	-25.0	-11.7		
7.6950	-0.8	H	3.0	39.3	1.0	-39.1	-25.0	-14.1		
10.2600	-8.6	H	3.0	38.6	1.0	-46.2	-25.0	-21.2		
Mid Ch, (2605 MHz)										
5.2100	-5.2	V	3.0	39.8	1.0	-44.1	-25.0	-19.1		
7.8150	-5.4	V	3.0	39.3	1.0	-43.6	-25.0	-18.6		
10.4200	-7.1	V	3.0	38.5	1.0	-44.6	-25.0	-19.6		
5.2100	0.7	H	3.0	39.8	1.0	-38.1	-25.0	-13.1		
7.8150	-2.4	H	3.0	39.3	1.0	-40.7	-25.0	-15.7		
10.4200	-9.8	H	3.0	38.5	1.0	-47.3	-25.0	-22.3		
High Ch, (2645 MHz)										
5.2900	-5.7	V	3.0	39.9	1.0	-44.6	-25.0	-19.6		
7.9350	-4.6	V	3.0	39.2	1.0	-42.8	-25.0	-17.8		
10.5800	-3.9	V	3.0	38.5	1.0	-41.4	-25.0	-16.4		
5.2900	1.1	H	3.0	39.9	1.0	-37.8	-25.0	-12.8		
7.9350	0.3	H	3.0	39.2	1.0	-37.9	-25.0	-12.9		
10.5800	-9.1	H	3.0	38.5	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 #:		4788148881								
Date:		09-18-17								
Test Engineer:		JH Park								
Configuration:		EUT / AC Adapter / Ear Phone / Z-Position								
Mode:		TX, LTE BAND 41, 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, (2565 MHz)										
5.1300	-3.1	V	3.0	39.8	1.0	-41.9	-25.0	-16.9		
7.6950	-2.0	V	3.0	39.3	1.0	-40.3	-25.0	-15.3		
10.2600	-9.0	V	3.0	38.6	1.0	-46.6	-25.0	-21.6		
5.1300	1.8	H	3.0	39.8	1.0	-37.0	-25.0	-12.0		
7.6950	-1.3	H	3.0	39.3	1.0	-39.6	-25.0	-14.6		
10.2600	-9.3	H	3.0	38.6	1.0	-46.8	-25.0	-21.8		
Mid Ch, (2605 MHz)										
5.2100	-4.7	V	3.0	39.8	1.0	-43.5	-25.0	-18.5		
7.8150	-5.0	V	3.0	39.3	1.0	-43.3	-25.0	-18.3		
10.4200	-8.9	V	3.0	38.5	1.0	-46.4	-25.0	-21.4		
5.2100	0.4	H	3.0	39.8	1.0	-38.4	-25.0	-13.4		
7.8150	-2.7	H	3.0	39.3	1.0	-40.9	-25.0	-15.9		
10.4200	-9.5	H	3.0	38.5	1.0	-47.1	-25.0	-22.1		
High Ch, (2645 MHz)										
5.2900	-5.5	V	3.0	39.9	1.0	-44.4	-25.0	-19.4		
7.9350	-4.4	V	3.0	39.2	1.0	-42.6	-25.0	-17.6		
10.5800	-3.3	V	3.0	38.5	1.0	-40.8	-25.0	-15.8		
5.2900	1.2	H	3.0	39.9	1.0	-37.6	-25.0	-12.6		
7.9350	0.5	H	3.0	39.2	1.0	-37.7	-25.0	-12.7		
10.5800	-9.3	H	3.0	38.5	1.0	-46.8	-25.0	-21.8		
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 #: 4788148881 Date: 09-18-17 Test Engineer: JH Park Configuration: EUT / AC Adapter / Ear Phone / Z-Position Mode: TX, LTE BAND 41, 15MHz BW,QPSK									
		Chamber Chamber 2		Pre-amplifier AFS42		Filter Filter 1		Limit FCC Part 27			
LTE		f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band 41		Low Ch, (2562.5 MHz)									
		5.1250	-3.6	V	3.0	39.8	1.0	-42.4	-25.0	-17.4	
		7.6875	-0.2	V	3.0	39.3	1.0	-38.5	-25.0	-13.5	
		10.2500	-8.7	V	3.0	38.6	1.0	-46.2	-25.0	-21.2	
15MHz		5.1250	2.2	H	3.0	39.8	1.0	-36.6	-25.0	-11.6	
		7.6875	1.9	H	3.0	39.3	1.0	-36.4	-25.0	-11.4	
QPSK		10.2500	-9.2	H	3.0	38.6	1.0	-46.7	-25.0	-21.7	
		Mid Ch, (2605 MHz)									
		5.2100	-6.4	V	3.0	39.8	1.0	-45.2	-25.0	-20.2	
		7.8150	-1.8	V	3.0	39.3	1.0	-40.1	-25.0	-15.1	
		10.4200	-5.5	V	3.0	38.5	1.0	-43.0	-25.0	-18.0	
		5.2100	2.4	H	3.0	39.8	1.0	-36.4	-25.0	-11.4	
		7.8150	-1.9	H	3.0	39.3	1.0	-40.2	-25.0	-15.2	
		10.4200	-9.4	H	3.0	38.5	1.0	-47.0	-25.0	-22.0	
		High Ch, (2647.5 MHz)									
		5.2950	-5.9	V	3.0	39.9	1.0	-44.8	-25.0	-19.8	
		7.9425	-4.6	V	3.0	39.2	1.0	-42.8	-25.0	-17.8	
		10.5900	-3.6	V	3.0	38.5	1.0	-41.1	-25.0	-16.1	
		5.2950	2.4	H	3.0	39.9	1.0	-36.5	-25.0	-11.5	
		7.9425	-2.8	H	3.0	39.2	1.0	-41.0	-25.0	-16.0	
		10.5900	-9.1	H	3.0	38.5	1.0	-46.6	-25.0	-21.6	
		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 #: 4788148881 Date: 09-18-17 Test Engineer: JH Park Configuration: EUT / AC Adapter / Ear Phone / Z-Position Mode: TX, LTE BAND 41, 15MHz BW,16QAM									
		Chamber Chamber 2		Pre-amplifier AFS42		Filter Filter 1		Limit FCC Part 27			
LTE		f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band 41		Low Ch, (2562.5 MHz)									
		5.1250	-2.2	V	3.0	39.8	1.0	-41.0	-25.0	-16.0	
		7.6875	0.2	V	3.0	39.3	1.0	-38.1	-25.0	-13.1	
		10.2500	-8.7	V	3.0	38.6	1.0	-46.2	-25.0	-21.2	
15MHz		5.1250	2.5	H	3.0	39.8	1.0	-36.3	-25.0	-11.3	
		7.6875	1.6	H	3.0	39.3	1.0	-36.7	-25.0	-11.7	
16QAM		10.2500	-8.9	H	3.0	38.6	1.0	-46.5	-25.0	-21.5	
		Mid Ch, (2605 MHz)									
		5.2100	-6.3	V	3.0	39.8	1.0	-45.1	-25.0	-20.1	
		7.8150	-2.5	V	3.0	39.3	1.0	-40.7	-25.0	-15.7	
		10.4200	-5.6	V	3.0	38.5	1.0	-43.1	-25.0	-18.1	
		5.2100	2.1	H	3.0	39.8	1.0	-36.7	-25.0	-11.7	
		7.8150	-2.0	H	3.0	39.3	1.0	-40.3	-25.0	-15.3	
		10.4200	-9.1	H	3.0	38.5	1.0	-46.6	-25.0	-21.6	
		High Ch, (2647.5 MHz)									
		5.2950	-5.7	V	3.0	39.9	1.0	-44.5	-25.0	-19.5	
		7.9425	-4.6	V	3.0	39.2	1.0	-42.8	-25.0	-17.8	
		10.5900	-4.3	V	3.0	38.5	1.0	-41.8	-25.0	-16.8	
		5.2950	1.9	H	3.0	39.9	1.0	-36.9	-25.0	-11.9	
		7.9425	-2.4	H	3.0	39.2	1.0	-40.6	-25.0	-15.6	
		10.5900	-8.9	H	3.0	38.5	1.0	-46.4	-25.0	-21.4	
		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 #: 4788148881 Date: 09-18-17 Test Engineer: JH Park Configuration: EUT / AC Adapter / Ear Phone / Z-Position Mode: TX, LTE BAND 41, 10MHz BW, QPSK									
		Chamber Chamber 2		Pre-amplifier AFS42		Filter Filter 1		Limit FCC Part 27			
LTE		f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band 41		Low Ch, (2560 MHz)									
		5.1200	-4.5	V	3.0	39.8	1.0	-43.3	-25.0	-18.3	
		7.6800	-1.4	V	3.0	39.3	1.0	-39.7	-25.0	-14.7	
		10.2400	-3.8	V	3.0	38.6	1.0	-41.4	-25.0	-16.4	
10MHz		5.1200	0.0	H	3.0	39.8	1.0	-38.9	-25.0	-13.9	
		7.6800	-0.9	H	3.0	39.3	1.0	-39.2	-25.0	-14.2	
		10.2400	-8.2	H	3.0	38.6	1.0	-45.8	-25.0	-20.8	
QPSK		Mid Ch, (2605 MHz)									
		5.2100	-7.0	V	3.0	39.8	1.0	-45.8	-25.0	-20.8	
		7.8150	-2.5	V	3.0	39.3	1.0	-40.7	-25.0	-15.7	
		10.4200	-5.6	V	3.0	38.5	1.0	-43.2	-25.0	-18.2	
		5.2100	0.2	H	3.0	39.8	1.0	-38.7	-25.0	-13.7	
		7.8150	-4.2	H	3.0	39.3	1.0	-42.5	-25.0	-17.5	
		10.4200	-8.4	H	3.0	38.5	1.0	-46.0	-25.0	-21.0	
		High Ch, (2650 MHz)									
		5.3000	-5.3	V	3.0	39.9	1.0	-44.1	-25.0	-19.1	
		7.9500	-3.2	V	3.0	39.2	1.0	-41.4	-25.0	-16.4	
		10.6000	-5.0	V	3.0	38.5	1.0	-42.5	-25.0	-17.5	
		5.3000	2.0	H	3.0	39.9	1.0	-36.8	-25.0	-11.8	
		7.9500	0.0	H	3.0	39.2	1.0	-38.2	-25.0	-13.2	
		10.6000	-8.6	H	3.0	38.5	1.0	-46.1	-25.0	-21.1	
		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 #: 4788148881 Date: 09-18-17 Test Engineer: JH Park Configuration: EUT / AC Adapter / Ear Phone / Z-Position Mode: TX, LTE BAND 41, 10MHz BW, 16QAM									
		Chamber Chamber 2		Pre-amplifier AFS42		Filter Filter 1		Limit FCC Part 27			
LTE		f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band 41		Low Ch, (2560 MHz)									
		5.1200	-4.6	V	3.0	39.8	1.0	-43.4	-25.0	-18.4	
		7.6800	-2.6	V	3.0	39.3	1.0	-40.9	-25.0	-15.9	
		10.2400	-5.4	V	3.0	38.6	1.0	-43.0	-25.0	-18.0	
10MHz		5.1200	-0.2	H	3.0	39.8	1.0	-39.0	-25.0	-14.0	
		7.6800	-1.2	H	3.0	39.3	1.0	-39.6	-25.0	-14.6	
		10.2400	-8.2	H	3.0	38.6	1.0	-45.8	-25.0	-20.8	
16QAM		Mid Ch, (2605 MHz)									
		5.2100	-6.8	V	3.0	39.8	1.0	-45.7	-25.0	-20.7	
		7.8150	-1.7	V	3.0	39.3	1.0	-40.0	-25.0	-15.0	
		10.4200	-6.2	V	3.0	38.5	1.0	-43.7	-25.0	-18.7	
		5.2100	0.5	H	3.0	39.8	1.0	-38.3	-25.0	-13.3	
		7.8150	-3.8	H	3.0	39.3	1.0	-42.0	-25.0	-17.0	
		10.4200	-9.4	H	3.0	38.5	1.0	-47.0	-25.0	-22.0	
		High Ch, (2650 MHz)									
		5.3000	-5.2	V	3.0	39.9	1.0	-44.1	-25.0	-19.1	
		7.9500	-4.1	V	3.0	39.2	1.0	-42.3	-25.0	-17.3	
		10.6000	-4.8	V	3.0	38.5	1.0	-42.3	-25.0	-17.3	
		5.3000	2.7	H	3.0	39.9	1.0	-36.2	-25.0	-11.2	
		7.9500	-0.1	H	3.0	39.2	1.0	-38.3	-25.0	-13.3	
		10.6000	-8.1	H	3.0	38.5	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									
LTE Band 41 5MHz QPSK	Company: Samsung Project #: 4788148881 Date: 09-18-17 Test Engineer: JH Park Configuration: EUT / AC Adapter / Ear Phone / Z-Position Mode: TX, LTE BAND 41, 5MHz 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 27</div> </div>										
		<b>f GHz</b>	<b>SG reading (dBm)</b>	<b>Ant. Pol. (H/V)</b>	<b>Distance (m)</b>	<b>Preamp (dB)</b>	<b>Filter (dB)</b>	<b>ERP (dBm)</b>	<b>Limit (dBm)</b>	<b>Delta (dB)</b>	<b>Notes</b>
		Low Ch, (2557.5 MHz)									
		5.1150	-5.3	V	3.0	39.8	1.0	-44.1	-25.0	-19.1	
		7.6725	-2.0	V	3.0	39.3	1.0	-40.3	-25.0	-15.3	
		10.2300	-8.6	V	3.0	38.6	1.0	-46.1	-25.0	-21.1	
		5.1150	-0.1	H	3.0	39.8	1.0	-38.9	-25.0	-13.9	
		7.6725	1.5	H	3.0	39.3	1.0	-36.8	-25.0	-11.8	
		10.2300	-9.5	H	3.0	38.6	1.0	-47.1	-25.0	-22.1	
		Mid Ch, (2605 MHz)									
		5.2100	-5.2	V	3.0	39.8	1.0	-44.0	-25.0	-19.0	
		7.8150	-3.6	V	3.0	39.3	1.0	-41.8	-25.0	-16.8	
		10.4200	-6.9	V	3.0	38.5	1.0	-44.4	-25.0	-19.4	
		5.2100	1.0	H	3.0	39.8	1.0	-37.9	-25.0	-12.9	
		7.8150	-2.4	H	3.0	39.3	1.0	-40.7	-25.0	-15.7	
		10.4200	-8.8	H	3.0	38.5	1.0	-46.3	-25.0	-21.3	
		High Ch, (2652.5 MHz)									
		5.3050	-4.5	V	3.0	39.9	1.0	-43.4	-25.0	-18.4	
		7.9575	-3.2	V	3.0	39.2	1.0	-41.4	-25.0	-16.4	
		10.6100	-4.9	V	3.0	38.5	1.0	-42.5	-25.0	-17.5	
		5.3050	1.6	H	3.0	39.9	1.0	-37.3	-25.0	-12.3	
		7.9575	-0.5	H	3.0	39.2	1.0	-38.7	-25.0	-13.7	
		10.6100	-8.4	H	3.0	38.5	1.0	-46.0	-25.0	-21.0	
	Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.										
LTE Band 41 5MHz 16QAM	Company: Samsung Project #: 4788148881 Date: 09-18-17 Test Engineer: JH Park Configuration: EUT / AC Adapter / Ear Phone / Z-Position Mode: TX, LTE BAND 41, 5MHz 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 27</div> </div>										
		<b>f GHz</b>	<b>SG reading (dBm)</b>	<b>Ant. Pol. (H/V)</b>	<b>Distance (m)</b>	<b>Preamp (dB)</b>	<b>Filter (dB)</b>	<b>ERP (dBm)</b>	<b>Limit (dBm)</b>	<b>Delta (dB)</b>	<b>Notes</b>
		Low Ch, (2557.5 MHz)									
		5.1150	-4.7	V	3.0	39.8	1.0	-43.5	-25.0	-18.5	
		7.6725	-3.1	V	3.0	39.3	1.0	-41.4	-25.0	-16.4	
		10.2300	-9.4	V	3.0	38.6	1.0	-47.0	-25.0	-22.0	
		5.1150	-0.3	H	3.0	39.8	1.0	-39.1	-25.0	-14.1	
		7.6725	1.6	H	3.0	39.3	1.0	-36.7	-25.0	-11.7	
		10.2300	-9.1	H	3.0	38.6	1.0	-46.7	-25.0	-21.7	
		Mid Ch, (2605 MHz)									
		5.2100	-5.4	V	3.0	39.8	1.0	-44.2	-25.0	-19.2	
		7.8150	-3.5	V	3.0	39.3	1.0	-41.8	-25.0	-16.8	
		10.4200	-7.5	V	3.0	38.5	1.0	-45.0	-25.0	-20.0	
		5.2100	1.1	H	3.0	39.8	1.0	-37.7	-25.0	-12.7	
		7.8150	-1.3	H	3.0	39.3	1.0	-39.5	-25.0	-14.5	
		10.4200	-8.7	H	3.0	38.5	1.0	-46.2	-25.0	-21.2	
		High Ch, (2652.5 MHz)									
		5.3050	-4.6	V	3.0	39.9	1.0	-43.5	-25.0	-18.5	
		7.9575	-3.5	V	3.0	39.2	1.0	-41.7	-25.0	-16.7	
		10.6100	-5.4	V	3.0	38.5	1.0	-42.9	-25.0	-17.9	
		5.3050	1.1	H	3.0	39.9	1.0	-37.8	-25.0	-12.8	
		7.9575	-0.9	H	3.0	39.2	1.0	-39.1	-25.0	-14.1	
		10.6100	-8.0	H	3.0	38.5	1.0	-45.5	-25.0	-20.5	
	Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.										

**LTE Band 41 (with Protective cover)**

		UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement										
LTE Band 41 20MHz QPSK		Company: Samsung										
		Project #: 4788148881										
		Date: 10-11-17										
		Test Engineer: YH Lim										
		Configuration: EUT / AC Adapter / Ear Phone / Z-Position										
		Mode: TX, LTE BAND 41, 20MHz 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 Ch, (2565 MHz)										
		5.1300	-3.1	V	3.0	39.8	1.0	-41.9	-25.0	-16.9		
		7.6950	1.2	V	3.0	39.3	1.0	-37.1	-25.0	-12.1		
		10.2600	-3.3	V	3.0	38.6	1.0	-40.9	-25.0	-15.9		
		5.1300	4.1	H	3.0	39.8	1.0	-34.7	-25.0	-9.7		
		7.6950	-1.8	H	3.0	39.3	1.0	-40.1	-25.0	-15.1		
		10.2600	-6.0	H	3.0	38.6	1.0	-43.6	-25.0	-18.6		
		Mid Ch, (2605 MHz)										
		5.2100	-4.3	V	3.0	39.8	1.0	-43.2	-25.0	-18.2		
		7.8150	-3.4	V	3.0	39.3	1.0	-41.7	-25.0	-16.7		
		10.4200	-6.4	V	3.0	38.5	1.0	-43.9	-25.0	-18.9		
		5.2100	2.9	H	3.0	39.8	1.0	-35.9	-25.0	-10.9		
		7.8150	-3.1	H	3.0	39.3	1.0	-41.4	-25.0	-16.4		
		10.4200	-8.0	H	3.0	38.5	1.0	-45.5	-25.0	-20.5		
		High Ch, (2645 MHz)										
		5.2900	-5.9	V	3.0	39.9	1.0	-44.8	-25.0	-19.8		
		7.9350	-0.8	V	3.0	39.2	1.0	-39.0	-25.0	-14.0		
		10.5800	-3.9	V	3.0	38.5	1.0	-41.4	-25.0	-16.4		
		5.2900	1.7	H	3.0	39.9	1.0	-37.2	-25.0	-12.2		
		7.9350	-2.5	H	3.0	39.2	1.0	-40.7	-25.0	-15.7		
		10.5800	-6.7	H	3.0	38.5	1.0	-44.2	-25.0	-19.2		
		Rev. 03.03.09										
		Note: No other emissions were detected above the system noise floor.										
LTE Band 41 20MHz 16QAM		UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement										
		Company: Samsung										
		Project #: 4788148881										
		Date: 10-11-17										
		Test Engineer: YH Lim										
		Configuration: EUT / AC Adapter / Ear Phone / Z-Position										
		Mode: TX, LTE BAND 41, 20MHz 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 Ch, (2565 MHz)										
		5.1300	-3.0	V	3.0	39.8	1.0	-41.8	-25.0	-16.8		
		7.6950	0.9	V	3.0	39.3	1.0	-37.4	-25.0	-12.4		
		10.2600	-3.9	V	3.0	38.6	1.0	-41.4	-25.0	-16.4		
		5.1300	4.0	H	3.0	39.8	1.0	-34.8	-25.0	-9.8		
		7.6950	-2.3	H	3.0	39.3	1.0	-40.6	-25.0	-15.6		
		10.2600	-6.6	H	3.0	38.6	1.0	-44.1	-25.0	-19.1		
		Mid Ch, (2605 MHz)										
		5.2100	-4.2	V	3.0	39.8	1.0	-43.0	-25.0	-18.0		
		7.8150	-3.9	V	3.0	39.3	1.0	-42.1	-25.0	-17.1		
		10.4200	-7.7	V	3.0	38.5	1.0	-45.2	-25.0	-20.2		
		5.2100	3.0	H	3.0	39.8	1.0	-35.8	-25.0	-10.8		
		7.8150	-3.7	H	3.0	39.3	1.0	-41.9	-25.0	-16.9		
		10.4200	-7.8	H	3.0	38.5	1.0	-45.4	-25.0	-20.4		
		High Ch, (2645 MHz)										
		5.2900	-6.2	V	3.0	39.9	1.0	-45.0	-25.0	-20.0		
		7.9350	-0.3	V	3.0	39.2	1.0	-38.5	-25.0	-13.5		
		10.5800	-3.5	V	3.0	38.5	1.0	-41.0	-25.0	-16.0		
		5.2900	1.9	H	3.0	39.9	1.0	-36.9	-25.0	-11.9		
		7.9350	-2.9	H	3.0	39.2	1.0	-41.1	-25.0	-16.1		
		10.5800	-7.4	H	3.0	38.5	1.0	-44.9	-25.0	-19.9		
		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 41 15MHz QPSK	Company: Samsung Project #: 4788148881 Date: 10-11-17 Test Engineer: YH Lim Configuration: EUT / AC Adapter / Ear Phone / Z-Position Mode: TX, LTE BAND 41, 15MHz BW,QPSK																																																																																																																																																																																																																														
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		<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>ERP (dBm)</th> <th>Limit (dBm)</th> <th>Delta (dB)</th> <th>Notes</th> </tr> </thead> <tbody> <tr> <td colspan="10">Low Ch, (2562.5 MHz)</td> </tr> <tr><td>5.1250</td><td>-3.3</td><td>V</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-42.1</td><td>-25.0</td><td>-17.1</td><td></td></tr> <tr><td>7.6875</td><td>3.1</td><td>V</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-35.2</td><td>-25.0</td><td>-10.2</td><td></td></tr> <tr><td>10.2500</td><td>-4.4</td><td>V</td><td>3.0</td><td>38.6</td><td>1.0</td><td>-42.0</td><td>-25.0</td><td>-17.0</td><td></td></tr> <tr><td>5.1250</td><td>4.9</td><td>H</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-33.9</td><td>-25.0</td><td>-8.9</td><td></td></tr> <tr><td>7.6875</td><td>-0.5</td><td>H</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-38.9</td><td>-25.0</td><td>-13.9</td><td></td></tr> <tr><td>10.2500</td><td>-6.8</td><td>H</td><td>3.0</td><td>38.6</td><td>1.0</td><td>-44.3</td><td>-25.0</td><td>-19.3</td><td></td></tr> <tr> <td colspan="10">Mid Ch, (2605 MHz)</td> </tr> <tr><td>5.2100</td><td>-3.4</td><td>V</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-42.2</td><td>-25.0</td><td>-17.2</td><td></td></tr> <tr><td>7.8150</td><td>-4.5</td><td>V</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-42.7</td><td>-25.0</td><td>-17.7</td><td></td></tr> <tr><td>10.4200</td><td>-5.5</td><td>V</td><td>3.0</td><td>38.5</td><td>1.0</td><td>-43.1</td><td>-25.0</td><td>-18.1</td><td></td></tr> <tr><td>5.2100</td><td>3.1</td><td>H</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-35.7</td><td>-25.0</td><td>-10.7</td><td></td></tr> <tr><td>7.8150</td><td>-3.0</td><td>H</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-41.3</td><td>-25.0</td><td>-16.3</td><td></td></tr> <tr><td>10.4200</td><td>-7.7</td><td>H</td><td>3.0</td><td>38.5</td><td>1.0</td><td>-45.3</td><td>-25.0</td><td>-20.3</td><td></td></tr> <tr> <td colspan="10">High Ch, (2647.5 MHz)</td> </tr> <tr><td>5.2950</td><td>-5.4</td><td>V</td><td>3.0</td><td>39.9</td><td>1.0</td><td>-44.3</td><td>-25.0</td><td>-19.3</td><td></td></tr> <tr><td>7.9425</td><td>-0.1</td><td>V</td><td>3.0</td><td>39.2</td><td>1.0</td><td>-38.3</td><td>-25.0</td><td>-13.3</td><td></td></tr> <tr><td>10.5900</td><td>-4.6</td><td>V</td><td>3.0</td><td>38.5</td><td>1.0</td><td>-42.1</td><td>-25.0</td><td>-17.1</td><td></td></tr> <tr><td>5.2950</td><td>2.4</td><td>H</td><td>3.0</td><td>39.9</td><td>1.0</td><td>-36.5</td><td>-25.0</td><td>-11.5</td><td></td></tr> <tr><td>7.9425</td><td>-1.5</td><td>H</td><td>3.0</td><td>39.2</td><td>1.0</td><td>-39.7</td><td>-25.0</td><td>-14.7</td><td></td></tr> <tr><td>10.5900</td><td>-7.9</td><td>H</td><td>3.0</td><td>38.5</td><td>1.0</td><td>-45.4</td><td>-25.0</td><td>-20.4</td><td></td></tr> </tbody> </table>	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes	Low Ch, (2562.5 MHz)										5.1250	-3.3	V	3.0	39.8	1.0	-42.1	-25.0	-17.1		7.6875	3.1	V	3.0	39.3	1.0	-35.2	-25.0	-10.2		10.2500	-4.4	V	3.0	38.6	1.0	-42.0	-25.0	-17.0		5.1250	4.9	H	3.0	39.8	1.0	-33.9	-25.0	-8.9		7.6875	-0.5	H	3.0	39.3	1.0	-38.9	-25.0	-13.9		10.2500	-6.8	H	3.0	38.6	1.0	-44.3	-25.0	-19.3		Mid Ch, (2605 MHz)										5.2100	-3.4	V	3.0	39.8	1.0	-42.2	-25.0	-17.2		7.8150	-4.5	V	3.0	39.3	1.0	-42.7	-25.0	-17.7		10.4200	-5.5	V	3.0	38.5	1.0	-43.1	-25.0	-18.1		5.2100	3.1	H	3.0	39.8	1.0	-35.7	-25.0	-10.7		7.8150	-3.0	H	3.0	39.3	1.0	-41.3	-25.0	-16.3		10.4200	-7.7	H	3.0	38.5	1.0	-45.3	-25.0	-20.3		High Ch, (2647.5 MHz)										5.2950	-5.4	V	3.0	39.9	1.0	-44.3	-25.0	-19.3		7.9425	-0.1	V	3.0	39.2	1.0	-38.3	-25.0	-13.3		10.5900	-4.6	V	3.0	38.5	1.0	-42.1	-25.0	-17.1		5.2950	2.4	H	3.0	39.9	1.0	-36.5	-25.0	-11.5		7.9425	-1.5	H	3.0	39.2	1.0	-39.7	-25.0	-14.7		10.5900	-7.9	H	3.0	38.5	1.0	-45.4	-25.0	-20.4		
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	7.8150	-4.5	V	3.0	39.3	1.0	-42.7	-25.0	-17.7																																																																																																																																																																																																																						
	10.4200	-5.5	V	3.0	38.5	1.0	-43.1	-25.0	-18.1																																																																																																																																																																																																																						
	5.2100	3.1	H	3.0	39.8	1.0	-35.7	-25.0	-10.7																																																																																																																																																																																																																						
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		UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement									
LTE Band 41 10MHz QPSK	Company:	Samsung									
	Project #:	4788148881									
	Date:	10-11-17									
	Test Engineer:	YH Lim									
	Configuration:	EUT / AC Adapter / Ear Phone / Z-Position									
	Mode:	TX, LTE BAND 41, 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, (2560 MHz)									
		5.1200	-4.7	V	3.0	39.8	1.0	-43.5	-25.0	-18.5	
		7.6800	3.8	V	3.0	39.3	1.0	-34.5	-25.0	-9.5	
		10.2400	-3.7	V	3.0	38.6	1.0	-41.3	-25.0	-16.3	
		5.1200	4.1	H	3.0	39.8	1.0	-34.7	-25.0	-9.7	
		7.6800	1.9	H	3.0	39.3	1.0	-36.4	-25.0	-11.4	
		10.2400	-7.0	H	3.0	38.6	1.0	-44.5	-25.0	-19.5	
		Mid Ch, (2605 MHz)									
		5.2100	-5.0	V	3.0	39.8	1.0	-43.8	-25.0	-18.8	
		7.8150	-3.7	V	3.0	39.3	1.0	-42.0	-25.0	-17.0	
		10.4200	-5.8	V	3.0	38.5	1.0	-43.4	-25.0	-18.4	
		5.2100	3.7	H	3.0	39.8	1.0	-35.1	-25.0	-10.1	
		7.8150	-2.4	H	3.0	39.3	1.0	-40.6	-25.0	-15.6	
		10.4200	-7.9	H	3.0	38.5	1.0	-45.5	-25.0	-20.5	
		High Ch, (2650 MHz)									
	5.3000	-3.7	V	3.0	39.9	1.0	-42.5	-25.0	-17.5		
	7.9500	-2.5	V	3.0	39.2	1.0	-40.7	-25.0	-15.7		
	10.6000	-2.8	V	3.0	38.5	1.0	-40.3	-25.0	-15.3		
	5.3000	5.6	H	3.0	39.9	1.0	-33.3	-25.0	-8.3		
	7.9500	-3.8	H	3.0	39.2	1.0	-42.0	-25.0	-17.0		
	10.6000	-7.6	H	3.0	38.5	1.0	-45.1	-25.0	-20.1		
		Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.									
LTE Band 41 10MHz 16QAM	UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement										
	Company:	Samsung									
	Project #:	4788148881									
	Date:	10-11-17									
	Test Engineer:	YH Lim									
	Configuration:	EUT / AC Adapter / Ear Phone / Z-Position									
	Mode:	TX, LTE BAND 41, 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, (2560 MHz)									
		5.1200	-5.2	V	3.0	39.8	1.0	-44.0	-25.0	-19.0	
		7.6800	3.2	V	3.0	39.3	1.0	-35.1	-25.0	-10.1	
		10.2400	-3.7	V	3.0	38.6	1.0	-41.3	-25.0	-16.3	
		5.1200	3.9	H	3.0	39.8	1.0	-34.9	-25.0	-9.9	
		7.6800	1.1	H	3.0	39.3	1.0	-37.2	-25.0	-12.2	
		10.2400	-7.2	H	3.0	38.6	1.0	-44.8	-25.0	-19.8	
		Mid Ch, (2605 MHz)									
		5.2100	-4.9	V	3.0	39.8	1.0	-43.7	-25.0	-18.7	
		7.8150	-3.9	V	3.0	39.3	1.0	-42.1	-25.0	-17.1	
		10.4200	-5.2	V	3.0	38.5	1.0	-42.7	-25.0	-17.7	
		5.2100	4.1	H	3.0	39.8	1.0	-34.7	-25.0	-9.7	
		7.8150	-2.7	H	3.0	39.3	1.0	-40.9	-25.0	-15.9	
		10.4200	-7.5	H	3.0	38.5	1.0	-45.1	-25.0	-20.1	
	High Ch, (2650 MHz)										
	5.3000	-4.2	V	3.0	39.9	1.0	-43.1	-25.0	-18.1		
	7.9500	-2.9	V	3.0	39.2	1.0	-41.1	-25.0	-16.1		
	10.6000	-3.3	V	3.0	38.5	1.0	-40.8	-25.0	-15.8		
	5.3000	5.2	H	3.0	39.9	1.0	-33.6	-25.0	-8.6		
	7.9500	-4.3	H	3.0	39.2	1.0	-42.5	-25.0	-17.5		
	10.6000	-8.3	H	3.0	38.5	1.0	-45.8	-25.0	-20.8		
		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									
LTE Band 41 5MHz QPSK	Company: Samsung Project #: 4788148881 Date: 10-11-17 Test Engineer: YH Lim Configuration: EUT / AC Adapter / Ear Phone / Z-Position Mode: TX, LTE BAND 41, 5MHz 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 27</div> </div>										
		<b>f GHz</b>	<b>SG reading (dBm)</b>	<b>Ant. Pol. (H/V)</b>	<b>Distance (m)</b>	<b>Preamp (dB)</b>	<b>Filter (dB)</b>	<b>ERP (dBm)</b>	<b>Limit (dBm)</b>	<b>Delta (dB)</b>	<b>Notes</b>
		Low Ch, (2557.5 MHz)									
		5.1150	-3.1	V	3.0	39.8	1.0	-41.9	-25.0	-16.9	
		7.6725	2.0	V	3.0	39.3	1.0	-36.3	-25.0	-11.3	
		10.2300	-4.8	V	3.0	38.6	1.0	-42.4	-25.0	-17.4	
		5.1150	4.6	H	3.0	39.8	1.0	-34.2	-25.0	-9.2	
		7.6725	2.4	H	3.0	39.3	1.0	-35.9	-25.0	-10.9	
		10.2300		H	3.0	38.6	1.0	-37.6	-25.0	-12.6	
		Mid Ch, (2605 MHz)									
		5.2100	-5.0	V	3.0	39.8	1.0	-43.9	-25.0	-18.9	
		7.8150	-3.0	V	3.0	39.3	1.0	-41.3	-25.0	-16.3	
		10.4200	-4.7	V	3.0	38.5	1.0	-42.2	-25.0	-17.2	
		5.2100	4.6	H	3.0	39.8	1.0	-34.2	-25.0	-9.2	
		7.8150	-2.8	H	3.0	39.3	1.0	-41.0	-25.0	-16.0	
		10.4200	-7.9	H	3.0	38.5	1.0	-45.5	-25.0	-20.5	
		High Ch, (2652.5 MHz)									
		5.3050	-3.2	V	3.0	39.9	1.0	-42.0	-25.0	-17.0	
		7.9575	-1.7	V	3.0	39.2	1.0	-39.9	-25.0	-14.9	
		10.6100	-2.7	V	3.0	38.5	1.0	-40.2	-25.0	-15.2	
		5.3050	6.0	H	3.0	39.9	1.0	-32.9	-25.0	-7.9	
		7.9575	-1.9	H	3.0	39.2	1.0	-40.1	-25.0	-15.1	
		10.6100	-7.5	H	3.0	38.5	1.0	-45.0	-25.0	-20.0	
	Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.										
LTE Band 41 5MHz 16QAM	Company: Samsung Project #: 4788148881 Date: 10-11-17 Test Engineer: YH Lim Configuration: EUT / AC Adapter / Ear Phone / Z-Position Mode: TX, LTE BAND 41, 5MHz 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 27</div> </div>										
		<b>f GHz</b>	<b>SG reading (dBm)</b>	<b>Ant. Pol. (H/V)</b>	<b>Distance (m)</b>	<b>Preamp (dB)</b>	<b>Filter (dB)</b>	<b>ERP (dBm)</b>	<b>Limit (dBm)</b>	<b>Delta (dB)</b>	<b>Notes</b>
		Low Ch, (2557.5 MHz)									
		5.1150	-3.3	V	3.0	39.8	1.0	-42.1	-25.0	-17.1	
		7.6725	1.8	V	3.0	39.3	1.0	-36.5	-25.0	-11.5	
		10.2300	-5.9	V	3.0	38.6	1.0	-43.5	-25.0	-18.5	
		5.1150	4.4	H	3.0	39.8	1.0	-34.4	-25.0	-9.4	
		7.6725	2.6	H	3.0	39.3	1.0	-35.7	-25.0	-10.7	
		10.2300	-7.6	H	3.0	38.6	1.0	-45.2	-25.0	-20.2	
		Mid Ch, (2605 MHz)									
		5.2100	-4.3	V	3.0	39.8	1.0	-43.1	-25.0	-18.1	
		7.8150	-3.5	V	3.0	39.3	1.0	-41.8	-25.0	-16.8	
		10.4200	-4.8	V	3.0	38.5	1.0	-42.3	-25.0	-17.3	
		5.2100	4.2	H	3.0	39.8	1.0	-34.7	-25.0	-9.7	
		7.8150	-3.0	H	3.0	39.3	1.0	-41.3	-25.0	-16.3	
		10.4200	-8.3	H	3.0	38.5	1.0	-45.8	-25.0	-20.8	
		High Ch, (2652.5 MHz)									
		5.3050	-3.0	V	3.0	39.9	1.0	-41.9	-25.0	-16.9	
		7.9575	-2.4	V	3.0	39.2	1.0	-40.6	-25.0	-15.6	
		10.6100	-2.2	V	3.0	38.5	1.0	-39.8	-25.0	-14.8	
		5.3050	6.0	H	3.0	39.9	1.0	-32.9	-25.0	-7.9	
		7.9575	-1.6	H	3.0	39.2	1.0	-39.8	-25.0	-14.8	
		10.6100	-8.2	H	3.0	38.5	1.0	-45.7	-25.0	-20.7	
	Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.										