

GSM 1900

GSM

GSM1900

GPRS

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

Mode:

GPRS 1900 MHz

Chamber

Chamber 2

Pre-amplifier

AFS42

Filter

Filter 1

Limit

Part 24

f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1850.2MHz									
3.7004	-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.

GSM

GSM1900

EGPRS

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

Mode:

EGPRS 1900 MHz

Chamber

Chamber 2

Pre-amplifier

AFS42

Filter

Filter 1

Limit

Part 24

f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1850.2MHz									
3.7004	-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

WCDMA
Band 5
REL99

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

Company: Samsung
Project #: 4788148881
Date: 09-20-17
Test Engineer: YH Lim
Configuration: EUT / AC Adapter / Earphone / X Position
Mode: Tx, REL99,850MHz

Chamber

Pre-amplifier

Filter

Limit

Chamber 2

AFS42

Filter 1

Part 22

f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 826.40MHz									
1.6520	-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

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

Company: Samsung
Project #: 4788148881
Date: 09-20-17
Test Engineer: YH Lim
Configuration: EUT / AC Adapter / Earphone / X Position
Mode: Tx, HSDPA,850MHz

Chamber

Pre-amplifier

Filter

Limit

Chamber 2

AFS42

Filter 1

Part 22

f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 826.40MHz									
1.6520	-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.

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 Chamber 2		Pre-amplifier AFS42		Filter Filter 1		Limit Part 22			
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Channel (829MHz)									
1.6580	-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.									

UL Korea, Ltd Suwon Laboratory											
Above 1GHz High Frequency Substitution Measurement											
Company: Project #: Date: Test Engineer: Configuration: Mode:		Samsung 4788148881 09-25-17 YH Lim EUT / AC Adapter / Earphone, X Position TX, LTE BAND 5, 10MHz BW, 16QAM									
Chamber		Pre-amplifier		Filter		Limit					
Chamber 2		AFS42		Filter 1		Part 22					
LTE Band 5 10MHz 16QAM	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.										

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 Chamber 2		Pre-amplifier AFS42		Filter Filter 1		Limit Part 22			
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Channel (826.5MHz)									
1.6530	-2.3	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

Page 124 of 150

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 Chamber 2		Pre-amplifier AFS42		Filter Filter 1		Limit Part 22			
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Channel (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

Page 126 of 150

Page 127 of 150

Page 128 of 150

LTE Band 7

LTE Band 7 20MHz QPSK	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									
	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, (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	
	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	
	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.									

LTE Band 7 20MHz 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, 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, (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	
	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	
	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.									

LTE Band 7 15MHz QPSK	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, QPSK																																																																																																																																																																																																																																														
	Chamber		Pre-amplifier		Filter		Limit																																																																																																																																																																																																																																								
	Chamber 2		AFS42		Filter 1		FCC Part 27																																																																																																																																																																																																																																								
<table><tr><th>f GHz</th><th>SGreading (dBm)</th><th>Ant. Pol. (H/V)</th><th>Distance (m)</th><th>Preamp (dB)</th><th>Filter (dB)</th><th>ERP (dBm)</th><th>Limit (dBm)</th><th>Delta (dB)</th><th>Notes</th></tr><tr><td colspan="10">Low Ch, (2507.5 MHz)</td></tr><tr><td>5.0150</td><td>-5.1</td><td>V</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-43.9</td><td>-25.0</td><td>-18.9</td><td></td></tr><tr><td>7.5225</td><td>5.7</td><td>V</td><td>3.0</td><td>39.4</td><td>1.0</td><td>-32.7</td><td>-25.0</td><td>-7.7</td><td></td></tr><tr><td>10.0300</td><td>-0.2</td><td>V</td><td>3.0</td><td>38.6</td><td>1.0</td><td>-37.7</td><td>-25.0</td><td>-12.7</td><td></td></tr><tr><td>5.0150</td><td>0.2</td><td>H</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-38.5</td><td>-25.0</td><td>-13.5</td><td></td></tr><tr><td>7.5225</td><td>7.9</td><td>H</td><td>3.0</td><td>39.4</td><td>1.0</td><td>-30.5</td><td>-25.0</td><td>-5.5</td><td></td></tr><tr><td>10.0300</td><td>-2.2</td><td>H</td><td>3.0</td><td>38.6</td><td>1.0</td><td>-39.8</td><td>-25.0</td><td>-14.8</td><td></td></tr><tr><td colspan="10">Mid Ch, (2535 MHz)</td></tr><tr><td>5.0700</td><td>-0.8</td><td>V</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-39.6</td><td>-25.0</td><td>-14.6</td><td></td></tr><tr><td>7.6050</td><td>0.9</td><td>V</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-37.5</td><td>-25.0</td><td>-12.5</td><td></td></tr><tr><td>10.1400</td><td>-4.8</td><td>V</td><td>3.0</td><td>38.6</td><td>1.0</td><td>-42.3</td><td>-25.0</td><td>-17.3</td><td></td></tr><tr><td>5.0700</td><td>3.7</td><td>H</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-35.0</td><td>-25.0</td><td>-10.0</td><td></td></tr><tr><td>7.6050</td><td>-0.3</td><td>H</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-38.6</td><td>-25.0</td><td>-13.6</td><td></td></tr><tr><td>10.1400</td><td>-8.9</td><td>H</td><td>3.0</td><td>38.6</td><td>1.0</td><td>-46.5</td><td>-25.0</td><td>-21.5</td><td></td></tr><tr><td colspan="10">High Ch, (2562.5 MHz)</td></tr><tr><td>5.1250</td><td>-3.5</td><td>V</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-42.3</td><td>-25.0</td><td>-17.3</td><td></td></tr><tr><td>7.6875</td><td>-2.2</td><td>V</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-40.5</td><td>-25.0</td><td>-15.5</td><td></td></tr><tr><td>10.2500</td><td>-7.4</td><td>V</td><td>3.0</td><td>38.6</td><td>1.0</td><td>-45.0</td><td>-25.0</td><td>-20.0</td><td></td></tr><tr><td>5.1250</td><td>2.1</td><td>H</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-36.8</td><td>-25.0</td><td>-11.8</td><td></td></tr><tr><td>7.6875</td><td>-3.4</td><td>H</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-41.7</td><td>-25.0</td><td>-16.7</td><td></td></tr><tr><td>10.2500</td><td>-9.2</td><td>H</td><td>3.0</td><td>38.6</td><td>1.0</td><td>-46.7</td><td>-25.0</td><td>-21.7</td><td></td></tr><tr><td colspan="10">Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.</td></tr></table>										f GHz	SGreading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes	Low 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.									
f GHz	SGreading (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																																																																																																																																																																																																																																								
<table><tr><th>f GHz</th><th>SGreading (dBm)</th><th>Ant. Pol. (H/V)</th><th>Distance (m)</th><th>Preamp (dB)</th><th>Filter (dB)</th><th>ERP (dBm)</th><th>Limit (dBm)</th><th>Delta (dB)</th><th>Notes</th></tr><tr><td colspan="10">Low Ch, (2507.5 MHz)</td></tr><tr><td>5.0150</td><td>-4.6</td><td>V</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-43.4</td><td>-25.0</td><td>-18.4</td><td></td></tr><tr><td>7.5225</td><td>5.2</td><td>V</td><td>3.0</td><td>39.4</td><td>1.0</td><td>-33.2</td><td>-25.0</td><td>-8.2</td><td></td></tr><tr><td>10.0300</td><td>0.9</td><td>V</td><td>3.0</td><td>38.6</td><td>1.0</td><td>-36.7</td><td>-25.0</td><td>-11.7</td><td></td></tr><tr><td>5.0150</td><td>0.3</td><td>H</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-38.4</td><td>-25.0</td><td>-13.4</td><td></td></tr><tr><td>7.5225</td><td>8.1</td><td>H</td><td>3.0</td><td>39.4</td><td>1.0</td><td>-30.3</td><td>-25.0</td><td>-5.3</td><td></td></tr><tr><td>10.0300</td><td>-2.6</td><td>H</td><td>3.0</td><td>38.6</td><td>1.0</td><td>-40.2</td><td>-25.0</td><td>-15.2</td><td></td></tr><tr><td colspan="10">Mid Ch, (2535 MHz)</td></tr><tr><td>5.0700</td><td>-0.4</td><td>V</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-39.2</td><td>-25.0</td><td>-14.2</td><td></td></tr><tr><td>7.6050</td><td>0.6</td><td>V</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-37.8</td><td>-25.0</td><td>-12.8</td><td></td></tr><tr><td>10.1400</td><td>-7.4</td><td>V</td><td>3.0</td><td>38.6</td><td>1.0</td><td>-44.9</td><td>-25.0</td><td>-19.9</td><td></td></tr><tr><td>5.0700</td><td>3.9</td><td>H</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-34.9</td><td>-25.0</td><td>-9.9</td><td></td></tr><tr><td>7.6050</td><td>-1.5</td><td>H</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-39.9</td><td>-25.0</td><td>-14.9</td><td></td></tr><tr><td>10.1400</td><td>-9.8</td><td>H</td><td>3.0</td><td>38.6</td><td>1.0</td><td>-47.4</td><td>-25.0</td><td>-22.4</td><td></td></tr><tr><td colspan="10">High Ch, (2562.5 MHz)</td></tr><tr><td>5.1250</td><td>-3.6</td><td>V</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-42.4</td><td>-25.0</td><td>-17.4</td><td></td></tr><tr><td>7.6875</td><td>-2.3</td><td>V</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-40.6</td><td>-25.0</td><td>-15.6</td><td></td></tr><tr><td>10.2500</td><td>-7.6</td><td>V</td><td>3.0</td><td>38.6</td><td>1.0</td><td>-45.2</td><td>-25.0</td><td>-20.2</td><td></td></tr><tr><td>5.1250</td><td>1.9</td><td>H</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-36.9</td><td>-25.0</td><td>-11.9</td><td></td></tr><tr><td>7.6875</td><td>-3.1</td><td>H</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-41.5</td><td>-25.0</td><td>-16.5</td><td></td></tr><tr><td>10.2500</td><td>-9.4</td><td>H</td><td>3.0</td><td>38.6</td><td>1.0</td><td>-47.0</td><td>-25.0</td><td>-22.0</td><td></td></tr><tr><td colspan="10">Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.</td></tr></table>										f GHz	SGreading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes	Low 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.									
f GHz	SGreading (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.																																																																																																																																																																																																																																															

LTE Band 7 10MHz QPSK	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, 10MHz BW, QPSK																																																																																																																																																																																																																																																								
	Chamber		Pre-amplifier		Filter		Limit																																																																																																																																																																																																																																																		
	Chamber 2		AFS42		Filter 1		FCC Part 27																																																																																																																																																																																																																																																		
<table><tr><th>f GHz</th><th>SGreading (dBm)</th><th>Ant. Pol. (H/V)</th><th>Distance (m)</th><th>Preamp (dB)</th><th>Filter (dB)</th><th>ERP (dBm)</th><th>Limit (dBm)</th><th>Delta (dB)</th><th>Notes</th></tr><tr><td colspan="10">Low Ch. (2505 MHz)</td></tr><tr><td>5.0100</td><td>-4.5</td><td>V</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-43.2</td><td>-25.0</td><td>-18.2</td><td></td></tr><tr><td>7.5150</td><td>4.9</td><td>V</td><td>3.0</td><td>39.4</td><td>1.0</td><td>-33.5</td><td>-25.0</td><td>-8.5</td><td></td></tr><tr><td>10.0200</td><td>-0.9</td><td>V</td><td>3.0</td><td>38.6</td><td>1.0</td><td>-38.5</td><td>-25.0</td><td>-13.5</td><td></td></tr><tr><td>5.0100</td><td>1.1</td><td>H</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-37.7</td><td>-25.0</td><td>-12.7</td><td></td></tr><tr><td>7.5150</td><td>-8.1</td><td>H</td><td>3.0</td><td>39.4</td><td>1.0</td><td>-46.5</td><td>-25.0</td><td>-21.5</td><td></td></tr><tr><td>10.0200</td><td>-2.9</td><td>H</td><td>3.0</td><td>38.6</td><td>1.0</td><td>-40.5</td><td>-25.0</td><td>-15.5</td><td></td></tr><tr><td colspan="10">Mid Ch. (2535 MHz)</td></tr><tr><td>5.0700</td><td>-5.2</td><td>V</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-44.0</td><td>-25.0</td><td>-19.0</td><td></td></tr><tr><td>7.6050</td><td>-0.1</td><td>V</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-38.5</td><td>-25.0</td><td>-13.5</td><td></td></tr><tr><td>10.1400</td><td>-5.5</td><td>V</td><td>3.0</td><td>38.6</td><td>1.0</td><td>-43.0</td><td>-25.0</td><td>-18.0</td><td></td></tr><tr><td>5.0700</td><td>3.3</td><td>H</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-35.5</td><td>-25.0</td><td>-10.5</td><td></td></tr><tr><td>7.6050</td><td>-1.1</td><td>H</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-39.4</td><td>-25.0</td><td>-14.4</td><td></td></tr><tr><td>10.1400</td><td>-9.2</td><td>H</td><td>3.0</td><td>38.6</td><td>1.0</td><td>-46.8</td><td>-25.0</td><td>-21.8</td><td></td></tr><tr><td colspan="10">High Ch. (2565 MHz)</td></tr><tr><td>5.1300</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>7.6950</td><td>-6.9</td><td>V</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-45.2</td><td>-25.0</td><td>-20.2</td><td></td></tr><tr><td>10.2600</td><td>-8.8</td><td>V</td><td>3.0</td><td>38.6</td><td>1.0</td><td>-46.4</td><td>-25.0</td><td>-21.4</td><td></td></tr><tr><td>5.1300</td><td>2.6</td><td>H</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-36.2</td><td>-25.0</td><td>-11.2</td><td></td></tr><tr><td>7.6950</td><td>-4.4</td><td>H</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>10.2600</td><td>-9.3</td><td>H</td><td>3.0</td><td>38.6</td><td>1.0</td><td>-46.8</td><td>-25.0</td><td>-21.8</td><td></td></tr><tr><td colspan="10">Rev. 03.03.09</td></tr><tr><td colspan="10">Note: No other emissions were detected above the system noise floor.</td></tr></table>										f GHz	SGreading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes	Low 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.									
f GHz	SGreading (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	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, 10MHz BW, 16QAM																																																																																																																																																																																																																																																								
	Chamber		Pre-amplifier		Filter		Limit																																																																																																																																																																																																																																																		
	Chamber 2		AFS42		Filter 1		FCC Part 27																																																																																																																																																																																																																																																		
<table><tr><th>f GHz</th><th>SGreading (dBm)</th><th>Ant. Pol. (H/V)</th><th>Distance (m)</th><th>Preamp (dB)</th><th>Filter (dB)</th><th>ERP (dBm)</th><th>Limit (dBm)</th><th>Delta (dB)</th><th>Notes</th></tr><tr><td colspan="10">Low Ch. (2505 MHz)</td></tr><tr><td>5.0100</td><td>-3.7</td><td>V</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-42.5</td><td>-25.0</td><td>-17.5</td><td></td></tr><tr><td>7.5150</td><td>6.0</td><td>V</td><td>3.0</td><td>39.4</td><td>1.0</td><td>-32.3</td><td>-25.0</td><td>-7.3</td><td></td></tr><tr><td>10.0200</td><td>-1.0</td><td>V</td><td>3.0</td><td>38.6</td><td>1.0</td><td>-38.6</td><td>-25.0</td><td>-13.6</td><td></td></tr><tr><td>5.0100</td><td>1.3</td><td>H</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-37.4</td><td>-25.0</td><td>-12.4</td><td></td></tr><tr><td>7.5150</td><td>-8.1</td><td>H</td><td>3.0</td><td>39.4</td><td>1.0</td><td>-46.5</td><td>-25.0</td><td>-21.5</td><td></td></tr><tr><td>10.0200</td><td>-2.6</td><td>H</td><td>3.0</td><td>38.6</td><td>1.0</td><td>-40.1</td><td>-25.0</td><td>-15.1</td><td></td></tr><tr><td colspan="10">Mid Ch. (2535 MHz)</td></tr><tr><td>5.0700</td><td>-4.1</td><td>V</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-42.9</td><td>-25.0</td><td>-17.9</td><td></td></tr><tr><td>7.6050</td><td>2.2</td><td>V</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-36.1</td><td>-25.0</td><td>-11.1</td><td></td></tr><tr><td>10.1400</td><td>-3.8</td><td>V</td><td>3.0</td><td>38.6</td><td>1.0</td><td>-41.4</td><td>-25.0</td><td>-16.4</td><td></td></tr><tr><td>5.0700</td><td>3.5</td><td>H</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-35.3</td><td>-25.0</td><td>-10.3</td><td></td></tr><tr><td>7.6050</td><td>-0.2</td><td>H</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-38.5</td><td>-25.0</td><td>-13.5</td><td></td></tr><tr><td>10.1400</td><td>-8.5</td><td>H</td><td>3.0</td><td>38.6</td><td>1.0</td><td>-46.1</td><td>-25.0</td><td>-21.1</td><td></td></tr><tr><td colspan="10">High Ch. (2565 MHz)</td></tr><tr><td>5.1300</td><td>-2.5</td><td>V</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-41.3</td><td>-25.0</td><td>-16.3</td><td></td></tr><tr><td>7.6950</td><td>-6.3</td><td>V</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-44.6</td><td>-25.0</td><td>-19.6</td><td></td></tr><tr><td>10.2600</td><td>-8.2</td><td>V</td><td>3.0</td><td>38.6</td><td>1.0</td><td>-45.8</td><td>-25.0</td><td>-20.8</td><td></td></tr><tr><td>5.1300</td><td>2.5</td><td>H</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-36.3</td><td>-25.0</td><td>-11.3</td><td></td></tr><tr><td>7.6950</td><td>-4.0</td><td>H</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-42.3</td><td>-25.0</td><td>-17.3</td><td></td></tr><tr><td>10.2600</td><td>-9.5</td><td>H</td><td>3.0</td><td>38.6</td><td>1.0</td><td>-47.1</td><td>-25.0</td><td>-22.1</td><td></td></tr><tr><td colspan="10">Rev. 03.03.09</td></tr><tr><td colspan="10">Note: No other emissions were detected above the system noise floor.</td></tr></table>										f GHz	SGreading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes	Low 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.									
f GHz	SGreading (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.																																																																																																																																																																																																																																																									

LTE Band 7 5MHz QPSK	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, 5MHz BW, QPSK																																																																																																																																																																																																																																				
	Chamber		Pre-amplifier		Filter		Limit																																																																																																																																																																																																																														
	Chamber 2		AFS42		Filter 1		FCC Part 27																																																																																																																																																																																																																														
<table><tr><th>f GHz</th><th>SG reading (dBm)</th><th>Ant. Pol. (H/V)</th><th>Distance (m)</th><th>Preamp (dB)</th><th>Filter (dB)</th><th>ERP (dBm)</th><th>Limit (dBm)</th><th>Delta (dB)</th><th>Notes</th></tr><tr><td colspan="10">Low Ch. (2502.5 MHz)</td></tr><tr><td>5.0050</td><td>-5.9</td><td>V</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-44.7</td><td>-25.0</td><td>-19.7</td><td></td></tr><tr><td>7.5075</td><td>2.4</td><td>V</td><td>3.0</td><td>39.4</td><td>1.0</td><td>-36.0</td><td>-25.0</td><td>-11.0</td><td></td></tr><tr><td>10.0100</td><td>-2.8</td><td>V</td><td>3.0</td><td>38.6</td><td>1.0</td><td>-40.3</td><td>-25.0</td><td>-15.3</td><td></td></tr><tr><td>5.0050</td><td>1.1</td><td>H</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-37.6</td><td>-25.0</td><td>-12.6</td><td></td></tr><tr><td>7.5075</td><td>8.1</td><td>H</td><td>3.0</td><td>39.4</td><td>1.0</td><td>-30.3</td><td>-25.0</td><td>-5.3</td><td></td></tr><tr><td>10.0100</td><td>-4.5</td><td>H</td><td>3.0</td><td>38.6</td><td>1.0</td><td>-42.1</td><td>-25.0</td><td>-17.1</td><td></td></tr><tr><td colspan="10">Mid Ch. (2535 MHz)</td></tr><tr><td>5.0700</td><td>-1.6</td><td>V</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-40.3</td><td>-25.0</td><td>-15.3</td><td></td></tr><tr><td>7.6050</td><td>0.6</td><td>V</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-37.7</td><td>-25.0</td><td>-12.7</td><td></td></tr><tr><td>10.1400</td><td>-5.4</td><td>V</td><td>3.0</td><td>38.6</td><td>1.0</td><td>-42.9</td><td>-25.0</td><td>-17.9</td><td></td></tr><tr><td>5.0700</td><td>3.5</td><td>H</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-35.3</td><td>-25.0</td><td>-10.3</td><td></td></tr><tr><td>7.6050</td><td>0.6</td><td>H</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-37.8</td><td>-25.0</td><td>-12.8</td><td></td></tr><tr><td>10.1400</td><td>-9.0</td><td>H</td><td>3.0</td><td>38.6</td><td>1.0</td><td>-46.5</td><td>-25.0</td><td>-21.5</td><td></td></tr><tr><td colspan="10">High Ch. (2567.5 MHz)</td></tr><tr><td>5.1350</td><td>-1.9</td><td>V</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-40.7</td><td>-25.0</td><td>-15.7</td><td></td></tr><tr><td>7.7025</td><td>-8.6</td><td>V</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-46.9</td><td>-25.0</td><td>-21.9</td><td></td></tr><tr><td>10.2700</td><td>-9.5</td><td>V</td><td>3.0</td><td>38.6</td><td>1.0</td><td>-47.0</td><td>-25.0</td><td>-22.0</td><td></td></tr><tr><td>5.1350</td><td>2.8</td><td>H</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-36.0</td><td>-25.0</td><td>-11.0</td><td></td></tr><tr><td>7.7025</td><td>-2.1</td><td>H</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-40.4</td><td>-25.0</td><td>-15.4</td><td></td></tr><tr><td>10.2700</td><td>-9.1</td><td>H</td><td>3.0</td><td>38.6</td><td>1.0</td><td>-46.6</td><td>-25.0</td><td>-21.6</td><td></td></tr></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. (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		5.0050	1.1	H	3.0	39.8	1.0	-37.6	-25.0	-12.6		7.5075	8.1	H	3.0	39.4	1.0	-30.3	-25.0	-5.3		10.0100	-4.5	H	3.0	38.6	1.0	-42.1	-25.0	-17.1		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	
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																																																																																																																																																																																																																													
5.0050	1.1	H	3.0	39.8	1.0	-37.6	-25.0	-12.6																																																																																																																																																																																																																													
7.5075	8.1	H	3.0	39.4	1.0	-30.3	-25.0	-5.3																																																																																																																																																																																																																													
10.0100	-4.5	H	3.0	38.6	1.0	-42.1	-25.0	-17.1																																																																																																																																																																																																																													
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	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, 5MHz BW, 16QAM																																																																																																																																																																																																																																				
	Chamber		Pre-amplifier		Filter		Limit																																																																																																																																																																																																																														
	Chamber 2		AFS42		Filter 1		FCC Part 27																																																																																																																																																																																																																														
<table><tr><th>f GHz</th><th>SG reading (dBm)</th><th>Ant. Pol. (H/V)</th><th>Distance (m)</th><th>Preamp (dB)</th><th>Filter (dB)</th><th>ERP (dBm)</th><th>Limit (dBm)</th><th>Delta (dB)</th><th>Notes</th></tr><tr><td colspan="10">Low Ch. (2502.5 MHz)</td></tr><tr><td>5.0050</td><td>-4.6</td><td>V</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-43.4</td><td>-25.0</td><td>-18.4</td><td></td></tr><tr><td>7.5075</td><td>2.9</td><td>V</td><td>3.0</td><td>39.4</td><td>1.0</td><td>-35.5</td><td>-25.0</td><td>-10.5</td><td></td></tr><tr><td>10.0100</td><td>-2.5</td><td>V</td><td>3.0</td><td>38.6</td><td>1.0</td><td>-40.1</td><td>-25.0</td><td>-15.1</td><td></td></tr><tr><td>5.0050</td><td>1.4</td><td>H</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-37.4</td><td>-25.0</td><td>-12.4</td><td></td></tr><tr><td>7.5075</td><td>8.2</td><td>H</td><td>3.0</td><td>39.4</td><td>1.0</td><td>-30.2</td><td>-25.0</td><td>-5.2</td><td></td></tr><tr><td>10.0100</td><td>-5.4</td><td>H</td><td>3.0</td><td>38.6</td><td>1.0</td><td>-42.9</td><td>-25.0</td><td>-17.9</td><td></td></tr><tr><td colspan="10">Mid Ch. (2535 MHz)</td></tr><tr><td>5.0700</td><td>-0.6</td><td>V</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-39.4</td><td>-25.0</td><td>-14.4</td><td></td></tr><tr><td>7.6050</td><td>0.1</td><td>V</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-38.3</td><td>-25.0</td><td>-13.3</td><td></td></tr><tr><td>10.1400</td><td>-4.9</td><td>V</td><td>3.0</td><td>38.6</td><td>1.0</td><td>-42.5</td><td>-25.0</td><td>-17.5</td><td></td></tr><tr><td>5.0700</td><td>3.8</td><td>H</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-35.0</td><td>-25.0</td><td>-10.0</td><td></td></tr><tr><td>7.6050</td><td>0.1</td><td>H</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-38.3</td><td>-25.0</td><td>-13.3</td><td></td></tr><tr><td>10.1400</td><td>-9.5</td><td>H</td><td>3.0</td><td>38.6</td><td>1.0</td><td>-47.1</td><td>-25.0</td><td>-22.1</td><td></td></tr><tr><td colspan="10">High Ch. (2567.5 MHz)</td></tr><tr><td>5.1350</td><td>-1.7</td><td>V</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-40.5</td><td>-25.0</td><td>-15.5</td><td></td></tr><tr><td>7.7025</td><td>-7.8</td><td>V</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-46.1</td><td>-25.0</td><td>-21.1</td><td></td></tr><tr><td>10.2700</td><td>-8.7</td><td>V</td><td>3.0</td><td>38.6</td><td>1.0</td><td>-46.3</td><td>-25.0</td><td>-21.3</td><td></td></tr><tr><td>5.1350</td><td>3.1</td><td>H</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-35.8</td><td>-25.0</td><td>-10.8</td><td></td></tr><tr><td>7.7025</td><td>-2.5</td><td>H</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-40.8</td><td>-25.0</td><td>-15.8</td><td></td></tr><tr><td>10.2700</td><td>-9.5</td><td>H</td><td>3.0</td><td>38.6</td><td>1.0</td><td>-47.1</td><td>-25.0</td><td>-22.1</td><td></td></tr></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. (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		5.0050	1.4	H	3.0	39.8	1.0	-37.4	-25.0	-12.4		7.5075	8.2	H	3.0	39.4	1.0	-30.2	-25.0	-5.2		10.0100	-5.4	H	3.0	38.6	1.0	-42.9	-25.0	-17.9		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	
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																																																																																																																																																																																																																													
5.0050	1.4	H	3.0	39.8	1.0	-37.4	-25.0	-12.4																																																																																																																																																																																																																													
7.5075	8.2	H	3.0	39.4	1.0	-30.2	-25.0	-5.2																																																																																																																																																																																																																													
10.0100	-5.4	H	3.0	38.6	1.0	-42.9	-25.0	-17.9																																																																																																																																																																																																																													
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)

LTE Band 7 20MHz QPSK	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									
	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	-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.									
LTE Band 7 20MHz 16QAM	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									
	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	-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.									

LTE Band 7 15MHz QPSK	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																																																																																																																																																																																																																																				
	Chamber		Pre-amplifier		Filter		Limit																																																																																																																																																																																																																														
	Chamber 2		AFS42		Filter 1		FCC Part 27																																																																																																																																																																																																																														
<table><tr><th>f GHz</th><th>SG reading (dBm)</th><th>Ant. Pol. (H/V)</th><th>Distance (m)</th><th>Preamp (dB)</th><th>Filter (dB)</th><th>ERP (dBm)</th><th>Limit (dBm)</th><th>Delta (dB)</th><th>Notes</th></tr><tr><td colspan="10">Low Ch, (2507.5 MHz)</td></tr><tr><td>5.0150</td><td>-3.9</td><td>V</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-42.7</td><td>-25.0</td><td>-17.7</td><td></td></tr><tr><td>7.5225</td><td>-0.1</td><td>V</td><td>3.0</td><td>39.4</td><td>1.0</td><td>-38.5</td><td>-25.0</td><td>-13.5</td><td></td></tr><tr><td>10.0300</td><td>-1.2</td><td>V</td><td>3.0</td><td>38.6</td><td>1.0</td><td>-38.8</td><td>-25.0</td><td>-13.8</td><td></td></tr><tr><td>5.0150</td><td>2.0</td><td>H</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-36.8</td><td>-25.0</td><td>-11.8</td><td></td></tr><tr><td>7.5225</td><td>7.3</td><td>H</td><td>3.0</td><td>39.4</td><td>1.0</td><td>-31.1</td><td>-25.0</td><td>-6.1</td><td></td></tr><tr><td>10.0300</td><td>-5.8</td><td>H</td><td>3.0</td><td>38.6</td><td>1.0</td><td>-43.4</td><td>-25.0</td><td>-18.4</td><td></td></tr><tr><td colspan="10">Mid Ch, (2535 MHz)</td></tr><tr><td>5.0700</td><td>0.0</td><td>V</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-38.8</td><td>-25.0</td><td>-13.8</td><td></td></tr><tr><td>7.6050</td><td>0.6</td><td>V</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-37.8</td><td>-25.0</td><td>-12.8</td><td></td></tr><tr><td>10.1400</td><td>-3.2</td><td>V</td><td>3.0</td><td>38.6</td><td>1.0</td><td>-40.7</td><td>-25.0</td><td>-15.7</td><td></td></tr><tr><td>5.0700</td><td>3.2</td><td>H</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-35.6</td><td>-25.0</td><td>-10.6</td><td></td></tr><tr><td>7.6050</td><td>5.5</td><td>H</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-32.8</td><td>-25.0</td><td>-7.8</td><td></td></tr><tr><td>10.1400</td><td>-3.7</td><td>H</td><td>3.0</td><td>38.6</td><td>1.0</td><td>-41.3</td><td>-25.0</td><td>-16.3</td><td></td></tr><tr><td colspan="10">High Ch, (2562.5 MHz)</td></tr><tr><td>5.1250</td><td>-2.7</td><td>V</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-41.5</td><td>-25.0</td><td>-16.5</td><td></td></tr><tr><td>7.6875</td><td>-3.6</td><td>V</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-41.9</td><td>-25.0</td><td>-16.9</td><td></td></tr><tr><td>10.2500</td><td>-6.0</td><td>V</td><td>3.0</td><td>38.6</td><td>1.0</td><td>-43.5</td><td>-25.0</td><td>-18.5</td><td></td></tr><tr><td>5.1250</td><td>2.8</td><td>H</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-36.0</td><td>-25.0</td><td>-11.0</td><td></td></tr><tr><td>7.6875</td><td>-0.4</td><td>H</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-38.7</td><td>-25.0</td><td>-13.7</td><td></td></tr><tr><td>10.2500</td><td>-8.9</td><td>H</td><td>3.0</td><td>38.6</td><td>1.0</td><td>-46.5</td><td>-25.0</td><td>-21.5</td><td></td></tr></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, (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		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		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	
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	-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																																																																																																																																																																																																																													
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																																																																																																																																																																																																																													
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.																																																																																																																																																																																																																																					

LTE Band 7 15MHz 16QAM	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																																																																																																																																																																																																																																				
	Chamber		Pre-amplifier		Filter		Limit																																																																																																																																																																																																																														
	Chamber 2		AFS42		Filter 1		FCC Part 27																																																																																																																																																																																																																														
<table><tr><th>f GHz</th><th>SG reading (dBm)</th><th>Ant. Pol. (H/V)</th><th>Distance (m)</th><th>Preamp (dB)</th><th>Filter (dB)</th><th>ERP (dBm)</th><th>Limit (dBm)</th><th>Delta (dB)</th><th>Notes</th></tr><tr><td colspan="10">Low Ch, (2507.5 MHz)</td></tr><tr><td>5.0150</td><td>-3.0</td><td>V</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-41.8</td><td>-25.0</td><td>-16.8</td><td></td></tr><tr><td>7.5225</td><td>0.9</td><td>V</td><td>3.0</td><td>39.4</td><td>1.0</td><td>-37.5</td><td>-25.0</td><td>-12.5</td><td></td></tr><tr><td>10.0300</td><td>-1.6</td><td>V</td><td>3.0</td><td>38.6</td><td>1.0</td><td>-39.1</td><td>-25.0</td><td>-14.1</td><td></td></tr><tr><td>5.0150</td><td>2.1</td><td>H</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-36.7</td><td>-25.0</td><td>-11.7</td><td></td></tr><tr><td>7.5225</td><td>6.9</td><td>H</td><td>3.0</td><td>39.4</td><td>1.0</td><td>-31.5</td><td>-25.0</td><td>-6.5</td><td></td></tr><tr><td>10.0300</td><td>-6.0</td><td>H</td><td>3.0</td><td>38.6</td><td>1.0</td><td>-43.6</td><td>-25.0</td><td>-18.6</td><td></td></tr><tr><td colspan="10">Mid Ch, (2535 MHz)</td></tr><tr><td>5.0700</td><td>0.8</td><td>V</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-38.0</td><td>-25.0</td><td>-13.0</td><td></td></tr><tr><td>7.6050</td><td>0.9</td><td>V</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-37.4</td><td>-25.0</td><td>-12.4</td><td></td></tr><tr><td>10.1400</td><td>-3.4</td><td>V</td><td>3.0</td><td>38.6</td><td>1.0</td><td>-41.0</td><td>-25.0</td><td>-16.0</td><td></td></tr><tr><td>5.0700</td><td>3.4</td><td>H</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-35.4</td><td>-25.0</td><td>-10.4</td><td></td></tr><tr><td>7.6050</td><td>5.8</td><td>H</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-32.5</td><td>-25.0</td><td>-7.5</td><td></td></tr><tr><td>10.1400</td><td>-5.1</td><td>H</td><td>3.0</td><td>38.6</td><td>1.0</td><td>-42.6</td><td>-25.0</td><td>-17.6</td><td></td></tr><tr><td colspan="10">High Ch, (2562.5 MHz)</td></tr><tr><td>5.1250</td><td>-2.1</td><td>V</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-40.9</td><td>-25.0</td><td>-15.9</td><td></td></tr><tr><td>7.6875</td><td>-4.6</td><td>V</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-42.9</td><td>-25.0</td><td>-17.9</td><td></td></tr><tr><td>10.2500</td><td>-7.2</td><td>V</td><td>3.0</td><td>38.6</td><td>1.0</td><td>-44.7</td><td>-25.0</td><td>-19.7</td><td></td></tr><tr><td>5.1250</td><td>3.4</td><td>H</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-35.4</td><td>-25.0</td><td>-10.4</td><td></td></tr><tr><td>7.6875</td><td>-0.8</td><td>H</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-39.1</td><td>-25.0</td><td>-14.1</td><td></td></tr><tr><td>10.2500</td><td>-9.2</td><td>H</td><td>3.0</td><td>38.6</td><td>1.0</td><td>-46.7</td><td>-25.0</td><td>-21.7</td><td></td></tr></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, (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		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		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	
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	-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																																																																																																																																																																																																																													
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																																																																																																																																																																																																																													
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.																																																																																																																																																																																																																																					

LTE Band 7 10MHz QPSK	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, 10MHz BW, QPSK																																																																																																																																																																																																																																				
	Chamber		Pre-amplifier		Filter		Limit																																																																																																																																																																																																																														
	Chamber 2		AFS42		Filter 1		FCC Part 27																																																																																																																																																																																																																														
<table><tr><th>f GHz</th><th>SG reading (dBm)</th><th>Ant. Pol. (H/V)</th><th>Distance (m)</th><th>Preamp (dB)</th><th>Filter (dB)</th><th>ERP (dBm)</th><th>Limit (dBm)</th><th>Delta (dB)</th><th>Notes</th></tr><tr><td colspan="10">Low Ch, (2505 MHz)</td></tr><tr><td>5.0100</td><td>-2.6</td><td>V</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-41.4</td><td>-25.0</td><td>-16.4</td><td></td></tr><tr><td>7.5150</td><td>5.1</td><td>V</td><td>3.0</td><td>39.4</td><td>1.0</td><td>-33.3</td><td>-25.0</td><td>-8.3</td><td></td></tr><tr><td>10.0200</td><td>-0.1</td><td>V</td><td>3.0</td><td>38.6</td><td>1.0</td><td>-37.6</td><td>-25.0</td><td>-12.6</td><td></td></tr><tr><td>5.0100</td><td>0.9</td><td>H</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-37.9</td><td>-25.0</td><td>-12.9</td><td></td></tr><tr><td>7.5150</td><td>8.5</td><td>H</td><td>3.0</td><td>39.4</td><td>1.0</td><td>-29.9</td><td>-25.0</td><td>-4.9</td><td></td></tr><tr><td>10.0200</td><td>-3.2</td><td>H</td><td>3.0</td><td>38.6</td><td>1.0</td><td>-40.8</td><td>-25.0</td><td>-15.8</td><td></td></tr><tr><td colspan="10">Mid Ch, (2535 MHz)</td></tr><tr><td>5.0700</td><td>-0.8</td><td>V</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-39.6</td><td>-25.0</td><td>-14.6</td><td></td></tr><tr><td>7.6050</td><td>2.7</td><td>V</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-35.7</td><td>-25.0</td><td>-10.7</td><td></td></tr><tr><td>10.1400</td><td>-3.1</td><td>V</td><td>3.0</td><td>38.6</td><td>1.0</td><td>-40.7</td><td>-25.0</td><td>-15.7</td><td></td></tr><tr><td>5.0700</td><td>1.9</td><td>H</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-36.9</td><td>-25.0</td><td>-11.9</td><td></td></tr><tr><td>7.6050</td><td>6.2</td><td>H</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-32.1</td><td>-25.0</td><td>-7.1</td><td></td></tr><tr><td>10.1400</td><td>-4.6</td><td>H</td><td>3.0</td><td>38.6</td><td>1.0</td><td>-42.2</td><td>-25.0</td><td>-17.2</td><td></td></tr><tr><td colspan="10">High Ch, (2565 MHz)</td></tr><tr><td>5.1300</td><td>-1.4</td><td>V</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-40.2</td><td>-25.0</td><td>-15.2</td><td></td></tr><tr><td>7.6950</td><td>-1.1</td><td>V</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-39.4</td><td>-25.0</td><td>-14.4</td><td></td></tr><tr><td>10.2600</td><td>-4.9</td><td>V</td><td>3.0</td><td>38.6</td><td>1.0</td><td>-42.5</td><td>-25.0</td><td>-17.5</td><td></td></tr><tr><td>5.1300</td><td>4.1</td><td>H</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-34.7</td><td>-25.0</td><td>-9.7</td><td></td></tr><tr><td>7.6950</td><td>1.6</td><td>H</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-36.7</td><td>-25.0</td><td>-11.7</td><td></td></tr><tr><td>10.2600</td><td>-9.0</td><td>H</td><td>3.0</td><td>38.6</td><td>1.0</td><td>-46.6</td><td>-25.0</td><td>-21.6</td><td></td></tr></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, (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	
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	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, 10MHz BW, 16QAM																																																																																																																																																																																																																																				
	Chamber		Pre-amplifier		Filter		Limit																																																																																																																																																																																																																														
	Chamber 2		AFS42		Filter 1		FCC Part 27																																																																																																																																																																																																																														
<table><tr><th>f GHz</th><th>SG reading (dBm)</th><th>Ant. Pol. (H/V)</th><th>Distance (m)</th><th>Preamp (dB)</th><th>Filter (dB)</th><th>ERP (dBm)</th><th>Limit (dBm)</th><th>Delta (dB)</th><th>Notes</th></tr><tr><td colspan="10">Low Ch, (2505 MHz)</td></tr><tr><td>5.0100</td><td>-2.2</td><td>V</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-41.0</td><td>-25.0</td><td>-16.0</td><td></td></tr><tr><td>7.5150</td><td>4.8</td><td>V</td><td>3.0</td><td>39.4</td><td>1.0</td><td>-33.6</td><td>-25.0</td><td>-8.6</td><td></td></tr><tr><td>10.0200</td><td>-0.4</td><td>V</td><td>3.0</td><td>38.6</td><td>1.0</td><td>-38.0</td><td>-25.0</td><td>-13.0</td><td></td></tr><tr><td>5.0100</td><td>1.3</td><td>H</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-37.5</td><td>-25.0</td><td>-12.5</td><td></td></tr><tr><td>7.5150</td><td>8.0</td><td>H</td><td>3.0</td><td>39.4</td><td>1.0</td><td>-30.4</td><td>-25.0</td><td>-5.4</td><td></td></tr><tr><td>10.0200</td><td>-3.6</td><td>H</td><td>3.0</td><td>38.6</td><td>1.0</td><td>-41.1</td><td>-25.0</td><td>-16.1</td><td></td></tr><tr><td colspan="10">Mid Ch, (2535 MHz)</td></tr><tr><td>5.0700</td><td>-0.9</td><td>V</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-39.7</td><td>-25.0</td><td>-14.7</td><td></td></tr><tr><td>7.6050</td><td>2.2</td><td>V</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-36.2</td><td>-25.0</td><td>-11.2</td><td></td></tr><tr><td>10.1400</td><td>-3.5</td><td>V</td><td>3.0</td><td>38.6</td><td>1.0</td><td>-41.0</td><td>-25.0</td><td>-16.0</td><td></td></tr><tr><td>5.0700</td><td>2.7</td><td>H</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-36.1</td><td>-25.0</td><td>-11.1</td><td></td></tr><tr><td>7.6050</td><td>6.2</td><td>H</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-32.1</td><td>-25.0</td><td>-7.1</td><td></td></tr><tr><td>10.1400</td><td>-4.6</td><td>H</td><td>3.0</td><td>38.6</td><td>1.0</td><td>-42.1</td><td>-25.0</td><td>-17.1</td><td></td></tr><tr><td colspan="10">High Ch, (2565 MHz)</td></tr><tr><td>5.1300</td><td>-1.0</td><td>V</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-39.8</td><td>-25.0</td><td>-14.8</td><td></td></tr><tr><td>7.6950</td><td>-2.1</td><td>V</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-40.4</td><td>-25.0</td><td>-15.4</td><td></td></tr><tr><td>10.2600</td><td>-6.3</td><td>V</td><td>3.0</td><td>38.6</td><td>1.0</td><td>-43.8</td><td>-25.0</td><td>-18.8</td><td></td></tr><tr><td>5.1300</td><td>4.6</td><td>H</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-34.2</td><td>-25.0</td><td>-9.2</td><td></td></tr><tr><td>7.6950</td><td>1.5</td><td>H</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-36.8</td><td>-25.0</td><td>-11.8</td><td></td></tr><tr><td>10.2600</td><td>-9.2</td><td>H</td><td>3.0</td><td>38.6</td><td>1.0</td><td>-46.8</td><td>-25.0</td><td>-21.8</td><td></td></tr></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, (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	
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.																																																																																																																																																																																																																																					

LTE Band 7 5MHz QPSK	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																																																																																																																																																																																																																																				
	Chamber		Pre-amplifier		Filter		Limit																																																																																																																																																																																																																														
	Chamber 2		AFS42		Filter 1		FCC Part 27																																																																																																																																																																																																																														
<table><tr><th>f GHz</th><th>SG reading (dBm)</th><th>Ant. Pol. (H/V)</th><th>Distance (m)</th><th>Preamp (dB)</th><th>Filter (dB)</th><th>ERP (dBm)</th><th>Limit (dBm)</th><th>Delta (dB)</th><th>Notes</th></tr><tr><td colspan="10">Low Ch, (2502.5 MHz)</td></tr><tr><td>5.0050</td><td>-1.4</td><td>V</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-40.2</td><td>-25.0</td><td>-15.2</td><td></td></tr><tr><td>7.5075</td><td>7.2</td><td>V</td><td>3.0</td><td>39.4</td><td>1.0</td><td>-31.2</td><td>-25.0</td><td>-6.2</td><td></td></tr><tr><td>10.0100</td><td>-3.1</td><td>V</td><td>3.0</td><td>38.6</td><td>1.0</td><td>-40.7</td><td>-25.0</td><td>-15.7</td><td></td></tr><tr><td>5.0050</td><td>0.4</td><td>H</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-38.3</td><td>-25.0</td><td>-13.3</td><td></td></tr><tr><td>7.5075</td><td>9.4</td><td>H</td><td>3.0</td><td>39.4</td><td>1.0</td><td>-29.0</td><td>-25.0</td><td>-4.0</td><td></td></tr><tr><td>10.0100</td><td>-5.5</td><td>H</td><td>3.0</td><td>38.6</td><td>1.0</td><td>-43.1</td><td>-25.0</td><td>-18.1</td><td></td></tr><tr><td colspan="10">Mid Ch, (2535 MHz)</td></tr><tr><td>5.0700</td><td>-0.6</td><td>V</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-39.4</td><td>-25.0</td><td>-14.4</td><td></td></tr><tr><td>7.6050</td><td>2.4</td><td>V</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-36.0</td><td>-25.0</td><td>-11.0</td><td></td></tr><tr><td>10.1400</td><td>-4.1</td><td>V</td><td>3.0</td><td>38.6</td><td>1.0</td><td>-41.6</td><td>-25.0</td><td>-16.6</td><td></td></tr><tr><td>5.0700</td><td>1.7</td><td>H</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-37.1</td><td>-25.0</td><td>-12.1</td><td></td></tr><tr><td>7.6050</td><td>5.3</td><td>H</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-33.1</td><td>-25.0</td><td>-8.1</td><td></td></tr><tr><td>10.1400</td><td>-5.9</td><td>H</td><td>3.0</td><td>38.6</td><td>1.0</td><td>-43.4</td><td>-25.0</td><td>-18.4</td><td></td></tr><tr><td colspan="10">High Ch, (2567.5 MHz)</td></tr><tr><td>5.1350</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>7.7025</td><td>0.5</td><td>V</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-37.8</td><td>-25.0</td><td>-12.8</td><td></td></tr><tr><td>10.2700</td><td>-6.1</td><td>V</td><td>3.0</td><td>38.6</td><td>1.0</td><td>-43.6</td><td>-25.0</td><td>-18.6</td><td></td></tr><tr><td>5.1350</td><td>3.9</td><td>H</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-34.9</td><td>-25.0</td><td>-9.9</td><td></td></tr><tr><td>7.7025</td><td>0.0</td><td>H</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-38.3</td><td>-25.0</td><td>-13.3</td><td></td></tr><tr><td>10.2700</td><td>-7.4</td><td>H</td><td>3.0</td><td>38.6</td><td>1.0</td><td>-44.9</td><td>-25.0</td><td>-19.9</td><td></td></tr></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, (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		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		10.0100	-5.5	H	3.0	38.6	1.0	-43.1	-25.0	-18.1		Mid Ch, (2535 MHz)										5.0700	-0.6	V	3.0	39.8	1.0	-39.4	-25.0	-14.4		7.6050	2.4	V	3.0	39.3	1.0	-36.0	-25.0	-11.0		10.1400	-4.1	V	3.0	38.6	1.0	-41.6	-25.0	-16.6		5.0700	1.7	H	3.0	39.8	1.0	-37.1	-25.0	-12.1		7.6050	5.3	H	3.0	39.3	1.0	-33.1	-25.0	-8.1		10.1400	-5.9	H	3.0	38.6	1.0	-43.4	-25.0	-18.4		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	
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	-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																																																																																																																																																																																																																													
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																																																																																																																																																																																																																													
10.0100	-5.5	H	3.0	38.6	1.0	-43.1	-25.0	-18.1																																																																																																																																																																																																																													
Mid Ch, (2535 MHz)																																																																																																																																																																																																																																					
5.0700	-0.6	V	3.0	39.8	1.0	-39.4	-25.0	-14.4																																																																																																																																																																																																																													
7.6050	2.4	V	3.0	39.3	1.0	-36.0	-25.0	-11.0																																																																																																																																																																																																																													
10.1400	-4.1	V	3.0	38.6	1.0	-41.6	-25.0	-16.6																																																																																																																																																																																																																													
5.0700	1.7	H	3.0	39.8	1.0	-37.1	-25.0	-12.1																																																																																																																																																																																																																													
7.6050	5.3	H	3.0	39.3	1.0	-33.1	-25.0	-8.1																																																																																																																																																																																																																													
10.1400	-5.9	H	3.0	38.6	1.0	-43.4	-25.0	-18.4																																																																																																																																																																																																																													
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.																																																																																																																																																																																																																																					
LTE Band 7 5MHz 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 7, 5MHz BW, 16QAM																																																																																																																																																																																																																																				
	Chamber		Pre-amplifier		Filter		Limit																																																																																																																																																																																																																														
	Chamber 2		AFS42		Filter 1		FCC Part 27																																																																																																																																																																																																																														
<table><tr><th>f GHz</th><th>SG reading (dBm)</th><th>Ant. Pol. (H/V)</th><th>Distance (m)</th><th>Preamp (dB)</th><th>Filter (dB)</th><th>ERP (dBm)</th><th>Limit (dBm)</th><th>Delta (dB)</th><th>Notes</th></tr><tr><td colspan="10">Low Ch, (2502.5 MHz)</td></tr><tr><td>5.0050</td><td>-2.5</td><td>V</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-41.3</td><td>-25.0</td><td>-16.3</td><td></td></tr><tr><td>7.5075</td><td>7.0</td><td>V</td><td>3.0</td><td>39.4</td><td>1.0</td><td>-31.4</td><td>-25.0</td><td>-6.4</td><td></td></tr><tr><td>10.0100</td><td>-1.7</td><td>V</td><td>3.0</td><td>38.6</td><td>1.0</td><td>-39.3</td><td>-25.0</td><td>-14.3</td><td></td></tr><tr><td>5.0050</td><td>0.5</td><td>H</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-38.2</td><td>-25.0</td><td>-13.2</td><td></td></tr><tr><td>7.5075</td><td>9.4</td><td>H</td><td>3.0</td><td>39.4</td><td>1.0</td><td>-29.0</td><td>-25.0</td><td>-4.0</td><td></td></tr><tr><td>10.0100</td><td>-6.1</td><td>H</td><td>3.0</td><td>38.6</td><td>1.0</td><td>-43.7</td><td>-25.0</td><td>-18.7</td><td></td></tr><tr><td colspan="10">Mid Ch, (2535 MHz)</td></tr><tr><td>5.0700</td><td>-0.9</td><td>V</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-39.7</td><td>-25.0</td><td>-14.7</td><td></td></tr><tr><td>7.6050</td><td>3.1</td><td>V</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-35.3</td><td>-25.0</td><td>-10.3</td><td></td></tr><tr><td>10.1400</td><td>-4.3</td><td>V</td><td>3.0</td><td>38.6</td><td>1.0</td><td>-41.9</td><td>-25.0</td><td>-16.9</td><td></td></tr><tr><td>5.0700</td><td>1.6</td><td>H</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-37.2</td><td>-25.0</td><td>-12.2</td><td></td></tr><tr><td>7.6050</td><td>4.9</td><td>H</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-33.5</td><td>-25.0</td><td>-8.5</td><td></td></tr><tr><td>10.1400</td><td>-6.3</td><td>H</td><td>3.0</td><td>38.6</td><td>1.0</td><td>-43.9</td><td>-25.0</td><td>-18.9</td><td></td></tr><tr><td colspan="10">High Ch, (2567.5 MHz)</td></tr><tr><td>5.1350</td><td>-3.1</td><td>V</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-41.9</td><td>-25.0</td><td>-16.9</td><td></td></tr><tr><td>7.7025</td><td>0.3</td><td>V</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-38.1</td><td>-25.0</td><td>-13.1</td><td></td></tr><tr><td>10.2700</td><td>-6.5</td><td>V</td><td>3.0</td><td>38.6</td><td>1.0</td><td>-44.1</td><td>-25.0</td><td>-19.1</td><td></td></tr><tr><td>5.1350</td><td>3.9</td><td>H</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-34.9</td><td>-25.0</td><td>-9.9</td><td></td></tr><tr><td>7.7025</td><td>0.0</td><td>H</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-38.3</td><td>-25.0</td><td>-13.3</td><td></td></tr><tr><td>10.2700</td><td>-8.5</td><td>H</td><td>3.0</td><td>38.6</td><td>1.0</td><td>-46.1</td><td>-25.0</td><td>-21.1</td><td></td></tr></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, (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		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		10.0100	-6.1	H	3.0	38.6	1.0	-43.7	-25.0	-18.7		Mid Ch, (2535 MHz)										5.0700	-0.9	V	3.0	39.8	1.0	-39.7	-25.0	-14.7		7.6050	3.1	V	3.0	39.3	1.0	-35.3	-25.0	-10.3		10.1400	-4.3	V	3.0	38.6	1.0	-41.9	-25.0	-16.9		5.0700	1.6	H	3.0	39.8	1.0	-37.2	-25.0	-12.2		7.6050	4.9	H	3.0	39.3	1.0	-33.5	-25.0	-8.5		10.1400	-6.3	H	3.0	38.6	1.0	-43.9	-25.0	-18.9		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	
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	-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																																																																																																																																																																																																																													
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																																																																																																																																																																																																																													
10.0100	-6.1	H	3.0	38.6	1.0	-43.7	-25.0	-18.7																																																																																																																																																																																																																													
Mid Ch, (2535 MHz)																																																																																																																																																																																																																																					
5.0700	-0.9	V	3.0	39.8	1.0	-39.7	-25.0	-14.7																																																																																																																																																																																																																													
7.6050	3.1	V	3.0	39.3	1.0	-35.3	-25.0	-10.3																																																																																																																																																																																																																													
10.1400	-4.3	V	3.0	38.6	1.0	-41.9	-25.0	-16.9																																																																																																																																																																																																																													
5.0700	1.6	H	3.0	39.8	1.0	-37.2	-25.0	-12.2																																																																																																																																																																																																																													
7.6050	4.9	H	3.0	39.3	1.0	-33.5	-25.0	-8.5																																																																																																																																																																																																																													
10.1400	-6.3	H	3.0	38.6	1.0	-43.9	-25.0	-18.9																																																																																																																																																																																																																													
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

LTE Band 41 20MHz QPSK	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.									
LTE Band 41 20MHz 16QAM	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.									

LTE Band 41 15MHz QPSK	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		Pre-amplifier		Filter		Limit																																																																																																																																																																																																																														
	Chamber 2		AFS42		Filter 1		FCC Part 27																																																																																																																																																																																																																														
<table><tr><th>f GHz</th><th>SG reading (dBm)</th><th>Ant. Pol. (H/V)</th><th>Distance (m)</th><th>Preamp (dB)</th><th>Filter (dB)</th><th>ERP (dBm)</th><th>Limit (dBm)</th><th>Delta (dB)</th><th>Notes</th></tr><tr><td colspan="10">Low Ch, (2562.5 MHz)</td></tr><tr><td>5.1250</td><td>-3.6</td><td>V</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-42.4</td><td>-25.0</td><td>-17.4</td><td></td></tr><tr><td>7.6875</td><td>-0.2</td><td>V</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-38.5</td><td>-25.0</td><td>-13.5</td><td></td></tr><tr><td>10.2500</td><td>-8.7</td><td>V</td><td>3.0</td><td>38.6</td><td>1.0</td><td>-46.2</td><td>-25.0</td><td>-21.2</td><td></td></tr><tr><td>5.1250</td><td>2.2</td><td>H</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-36.6</td><td>-25.0</td><td>-11.6</td><td></td></tr><tr><td>7.6875</td><td>1.9</td><td>H</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-36.4</td><td>-25.0</td><td>-11.4</td><td></td></tr><tr><td>10.2500</td><td>-9.2</td><td>H</td><td>3.0</td><td>38.6</td><td>1.0</td><td>-46.7</td><td>-25.0</td><td>-21.7</td><td></td></tr><tr><td colspan="10">Mid Ch, (2605 MHz)</td></tr><tr><td>5.2100</td><td>-6.4</td><td>V</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-45.2</td><td>-25.0</td><td>-20.2</td><td></td></tr><tr><td>7.8150</td><td>-1.8</td><td>V</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-40.1</td><td>-25.0</td><td>-15.1</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>-43.0</td><td>-25.0</td><td>-18.0</td><td></td></tr><tr><td>5.2100</td><td>2.4</td><td>H</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-36.4</td><td>-25.0</td><td>-11.4</td><td></td></tr><tr><td>7.8150</td><td>-1.9</td><td>H</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-40.2</td><td>-25.0</td><td>-15.2</td><td></td></tr><tr><td>10.4200</td><td>-9.4</td><td>H</td><td>3.0</td><td>38.5</td><td>1.0</td><td>-47.0</td><td>-25.0</td><td>-22.0</td><td></td></tr><tr><td colspan="10">High Ch, (2647.5 MHz)</td></tr><tr><td>5.2950</td><td>-5.9</td><td>V</td><td>3.0</td><td>39.9</td><td>1.0</td><td>-44.8</td><td>-25.0</td><td>-19.8</td><td></td></tr><tr><td>7.9425</td><td>-4.6</td><td>V</td><td>3.0</td><td>39.2</td><td>1.0</td><td>-42.8</td><td>-25.0</td><td>-17.8</td><td></td></tr><tr><td>10.5900</td><td>-3.6</td><td>V</td><td>3.0</td><td>38.5</td><td>1.0</td><td>-41.1</td><td>-25.0</td><td>-16.1</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>-2.8</td><td>H</td><td>3.0</td><td>39.2</td><td>1.0</td><td>-41.0</td><td>-25.0</td><td>-16.0</td><td></td></tr><tr><td>10.5900</td><td>-9.1</td><td>H</td><td>3.0</td><td>38.5</td><td>1.0</td><td>-46.6</td><td>-25.0</td><td>-21.6</td><td></td></tr></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	-3.6	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		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		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	
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	-3.6	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																																																																																																																																																																																																																													
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																																																																																																																																																																																																																													
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.																																																																																																																																																																																																																																					
LTE Band 41 15MHz 16QAM	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		Pre-amplifier		Filter		Limit																																																																																																																																																																																																																														
	Chamber 2		AFS42		Filter 1		FCC Part 27																																																																																																																																																																																																																														
<table><tr><th>f GHz</th><th>SG reading (dBm)</th><th>Ant. Pol. (H/V)</th><th>Distance (m)</th><th>Preamp (dB)</th><th>Filter (dB)</th><th>ERP (dBm)</th><th>Limit (dBm)</th><th>Delta (dB)</th><th>Notes</th></tr><tr><td colspan="10">Low Ch, (2562.5 MHz)</td></tr><tr><td>5.1250</td><td>-2.2</td><td>V</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-41.0</td><td>-25.0</td><td>-16.0</td><td></td></tr><tr><td>7.6875</td><td>0.2</td><td>V</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-38.1</td><td>-25.0</td><td>-13.1</td><td></td></tr><tr><td>10.2500</td><td>-8.7</td><td>V</td><td>3.0</td><td>38.6</td><td>1.0</td><td>-46.2</td><td>-25.0</td><td>-21.2</td><td></td></tr><tr><td>5.1250</td><td>2.5</td><td>H</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-36.3</td><td>-25.0</td><td>-11.3</td><td></td></tr><tr><td>7.6875</td><td>1.6</td><td>H</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-36.7</td><td>-25.0</td><td>-11.7</td><td></td></tr><tr><td>10.2500</td><td>-8.9</td><td>H</td><td>3.0</td><td>38.6</td><td>1.0</td><td>-46.5</td><td>-25.0</td><td>-21.5</td><td></td></tr><tr><td colspan="10">Mid Ch, (2605 MHz)</td></tr><tr><td>5.2100</td><td>-6.3</td><td>V</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-45.1</td><td>-25.0</td><td>-20.1</td><td></td></tr><tr><td>7.8150</td><td>-2.5</td><td>V</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-40.7</td><td>-25.0</td><td>-15.7</td><td></td></tr><tr><td>10.4200</td><td>-5.6</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>2.1</td><td>H</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-36.7</td><td>-25.0</td><td>-11.7</td><td></td></tr><tr><td>7.8150</td><td>-2.0</td><td>H</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-40.3</td><td>-25.0</td><td>-15.3</td><td></td></tr><tr><td>10.4200</td><td>-9.1</td><td>H</td><td>3.0</td><td>38.5</td><td>1.0</td><td>-46.6</td><td>-25.0</td><td>-21.6</td><td></td></tr><tr><td colspan="10">High Ch, (2647.5 MHz)</td></tr><tr><td>5.2950</td><td>-5.7</td><td>V</td><td>3.0</td><td>39.9</td><td>1.0</td><td>-44.5</td><td>-25.0</td><td>-19.5</td><td></td></tr><tr><td>7.9425</td><td>-4.6</td><td>V</td><td>3.0</td><td>39.2</td><td>1.0</td><td>-42.8</td><td>-25.0</td><td>-17.8</td><td></td></tr><tr><td>10.5900</td><td>-4.3</td><td>V</td><td>3.0</td><td>38.5</td><td>1.0</td><td>-41.8</td><td>-25.0</td><td>-16.8</td><td></td></tr><tr><td>5.2950</td><td>1.9</td><td>H</td><td>3.0</td><td>39.9</td><td>1.0</td><td>-36.9</td><td>-25.0</td><td>-11.9</td><td></td></tr><tr><td>7.9425</td><td>-2.4</td><td>H</td><td>3.0</td><td>39.2</td><td>1.0</td><td>-40.6</td><td>-25.0</td><td>-15.6</td><td></td></tr><tr><td>10.5900</td><td>-8.9</td><td>H</td><td>3.0</td><td>38.5</td><td>1.0</td><td>-46.4</td><td>-25.0</td><td>-21.4</td><td></td></tr></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	-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		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		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	
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	-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																																																																																																																																																																																																																													
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																																																																																																																																																																																																																													
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.																																																																																																																																																																																																																																					

LTE Band 41 10MHz QPSK	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		Pre-amplifier		Filter		Limit																																																																																																																																																																																																																																																		
	Chamber 2		AFS42		Filter 1		FCC Part 27																																																																																																																																																																																																																																																		
<table><tr><th>f GHz</th><th>SGreading (dBm)</th><th>Ant. Pol. (H/V)</th><th>Distance (m)</th><th>Preamp (dB)</th><th>Filter (dB)</th><th>ERP (dBm)</th><th>Limit (dBm)</th><th>Delta (dB)</th><th>Notes</th></tr><tr><td colspan="10">Low Ch, (2560 MHz)</td></tr><tr><td>5.1200</td><td>-4.5</td><td>V</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-43.3</td><td>-25.0</td><td>-18.3</td><td></td></tr><tr><td>7.6800</td><td>-1.4</td><td>V</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-39.7</td><td>-25.0</td><td>-14.7</td><td></td></tr><tr><td>10.2400</td><td>-3.8</td><td>V</td><td>3.0</td><td>38.6</td><td>1.0</td><td>-41.4</td><td>-25.0</td><td>-16.4</td><td></td></tr><tr><td>5.1200</td><td>0.0</td><td>H</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-38.9</td><td>-25.0</td><td>-13.9</td><td></td></tr><tr><td>7.6800</td><td>-0.9</td><td>H</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-39.2</td><td>-25.0</td><td>-14.2</td><td></td></tr><tr><td>10.2400</td><td>-8.2</td><td>H</td><td>3.0</td><td>38.6</td><td>1.0</td><td>-45.8</td><td>-25.0</td><td>-20.8</td><td></td></tr><tr><td colspan="10">Mid Ch, (2605 MHz)</td></tr><tr><td>5.2100</td><td>-7.0</td><td>V</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-45.8</td><td>-25.0</td><td>-20.8</td><td></td></tr><tr><td>7.8150</td><td>-2.5</td><td>V</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-40.7</td><td>-25.0</td><td>-15.7</td><td></td></tr><tr><td>10.4200</td><td>-5.6</td><td>V</td><td>3.0</td><td>38.5</td><td>1.0</td><td>-43.2</td><td>-25.0</td><td>-18.2</td><td></td></tr><tr><td>5.2100</td><td>0.2</td><td>H</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-38.7</td><td>-25.0</td><td>-13.7</td><td></td></tr><tr><td>7.8150</td><td>-4.2</td><td>H</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-42.5</td><td>-25.0</td><td>-17.5</td><td></td></tr><tr><td>10.4200</td><td>-8.4</td><td>H</td><td>3.0</td><td>38.5</td><td>1.0</td><td>-46.0</td><td>-25.0</td><td>-21.0</td><td></td></tr><tr><td colspan="10">High Ch, (2650 MHz)</td></tr><tr><td>5.3000</td><td>-5.3</td><td>V</td><td>3.0</td><td>39.9</td><td>1.0</td><td>-44.1</td><td>-25.0</td><td>-19.1</td><td></td></tr><tr><td>7.9500</td><td>-3.2</td><td>V</td><td>3.0</td><td>39.2</td><td>1.0</td><td>-41.4</td><td>-25.0</td><td>-16.4</td><td></td></tr><tr><td>10.6000</td><td>-5.0</td><td>V</td><td>3.0</td><td>38.5</td><td>1.0</td><td>-42.5</td><td>-25.0</td><td>-17.5</td><td></td></tr><tr><td>5.3000</td><td>2.0</td><td>H</td><td>3.0</td><td>39.9</td><td>1.0</td><td>-36.8</td><td>-25.0</td><td>-11.8</td><td></td></tr><tr><td>7.9500</td><td>0.0</td><td>H</td><td>3.0</td><td>39.2</td><td>1.0</td><td>-38.2</td><td>-25.0</td><td>-13.2</td><td></td></tr><tr><td>10.6000</td><td>-8.6</td><td>H</td><td>3.0</td><td>38.5</td><td>1.0</td><td>-46.1</td><td>-25.0</td><td>-21.1</td><td></td></tr><tr><td colspan="10">Rev. 03.03.09</td></tr><tr><td colspan="10">Note: No other emissions were detected above the system noise floor.</td></tr></table>										f GHz	SGreading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes	Low 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		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		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.									
f GHz	SGreading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes																																																																																																																																																																																																																																																
Low Ch, (2560 MHz)																																																																																																																																																																																																																																																									
5.1200	-4.5	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																																																																																																																																																																																																																																																	
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																																																																																																																																																																																																																																																	
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.																																																																																																																																																																																																																																																									
LTE Band 41 10MHz 16QAM	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		Pre-amplifier		Filter		Limit																																																																																																																																																																																																																																																		
	Chamber 2		AFS42		Filter 1		FCC Part 27																																																																																																																																																																																																																																																		
<table><tr><th>f GHz</th><th>SGreading (dBm)</th><th>Ant. Pol. (H/V)</th><th>Distance (m)</th><th>Preamp (dB)</th><th>Filter (dB)</th><th>ERP (dBm)</th><th>Limit (dBm)</th><th>Delta (dB)</th><th>Notes</th></tr><tr><td colspan="10">Low Ch, (2560 MHz)</td></tr><tr><td>5.1200</td><td>-4.6</td><td>V</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-43.4</td><td>-25.0</td><td>-18.4</td><td></td></tr><tr><td>7.6800</td><td>-2.6</td><td>V</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-40.9</td><td>-25.0</td><td>-15.9</td><td></td></tr><tr><td>10.2400</td><td>-5.4</td><td>V</td><td>3.0</td><td>38.6</td><td>1.0</td><td>-43.0</td><td>-25.0</td><td>-18.0</td><td></td></tr><tr><td>5.1200</td><td>-0.2</td><td>H</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-39.0</td><td>-25.0</td><td>-14.0</td><td></td></tr><tr><td>7.6800</td><td>-1.2</td><td>H</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-39.6</td><td>-25.0</td><td>-14.6</td><td></td></tr><tr><td>10.2400</td><td>-8.2</td><td>H</td><td>3.0</td><td>38.6</td><td>1.0</td><td>-45.8</td><td>-25.0</td><td>-20.8</td><td></td></tr><tr><td colspan="10">Mid Ch, (2605 MHz)</td></tr><tr><td>5.2100</td><td>-6.8</td><td>V</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-45.7</td><td>-25.0</td><td>-20.7</td><td></td></tr><tr><td>7.8150</td><td>-1.7</td><td>V</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-40.0</td><td>-25.0</td><td>-15.0</td><td></td></tr><tr><td>10.4200</td><td>-6.2</td><td>V</td><td>3.0</td><td>38.5</td><td>1.0</td><td>-43.7</td><td>-25.0</td><td>-18.7</td><td></td></tr><tr><td>5.2100</td><td>0.5</td><td>H</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-38.3</td><td>-25.0</td><td>-13.3</td><td></td></tr><tr><td>7.8150</td><td>-3.8</td><td>H</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-42.0</td><td>-25.0</td><td>-17.0</td><td></td></tr><tr><td>10.4200</td><td>-9.4</td><td>H</td><td>3.0</td><td>38.5</td><td>1.0</td><td>-47.0</td><td>-25.0</td><td>-22.0</td><td></td></tr><tr><td colspan="10">High Ch, (2650 MHz)</td></tr><tr><td>5.3000</td><td>-5.2</td><td>V</td><td>3.0</td><td>39.9</td><td>1.0</td><td>-44.1</td><td>-25.0</td><td>-19.1</td><td></td></tr><tr><td>7.9500</td><td>-4.1</td><td>V</td><td>3.0</td><td>39.2</td><td>1.0</td><td>-42.3</td><td>-25.0</td><td>-17.3</td><td></td></tr><tr><td>10.6000</td><td>-4.8</td><td>V</td><td>3.0</td><td>38.5</td><td>1.0</td><td>-42.3</td><td>-25.0</td><td>-17.3</td><td></td></tr><tr><td>5.3000</td><td>2.7</td><td>H</td><td>3.0</td><td>39.9</td><td>1.0</td><td>-36.2</td><td>-25.0</td><td>-11.2</td><td></td></tr><tr><td>7.9500</td><td>-0.1</td><td>H</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>10.6000</td><td>-8.1</td><td>H</td><td>3.0</td><td>38.5</td><td>1.0</td><td>-45.6</td><td>-25.0</td><td>-20.6</td><td></td></tr><tr><td colspan="10">Rev. 03.03.09</td></tr><tr><td colspan="10">Note: No other emissions were detected above the system noise floor.</td></tr></table>										f GHz	SGreading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes	Low 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		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		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.									
f GHz	SGreading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes																																																																																																																																																																																																																																																
Low Ch, (2560 MHz)																																																																																																																																																																																																																																																									
5.1200	-4.6	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																																																																																																																																																																																																																																																	
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																																																																																																																																																																																																																																																	
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.																																																																																																																																																																																																																																																									

LTE Band 41 5MHz QPSK	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, 5MHz BW, QPSK																																																																																																																																																																																																																																				
	Chamber		Pre-amplifer		Filter		Limit																																																																																																																																																																																																																														
	Chamber 2		AFS42		Filter 1		FCC Part 27																																																																																																																																																																																																																														
<table><tr><th>f GHz</th><th>SG reading (dBm)</th><th>Ant. Pol. (H/V)</th><th>Distance (m)</th><th>Preamp (dB)</th><th>Filter (dB)</th><th>ERP (dBm)</th><th>Limit (dBm)</th><th>Delta (dB)</th><th>Notes</th></tr><tr><td colspan="10">Low Ch, (2557.5 MHz)</td></tr><tr><td>5.1150</td><td>-5.3</td><td>V</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-44.1</td><td>-25.0</td><td>-19.1</td><td></td></tr><tr><td>7.6725</td><td>-2.0</td><td>V</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-40.3</td><td>-25.0</td><td>-15.3</td><td></td></tr><tr><td>10.2300</td><td>-8.6</td><td>V</td><td>3.0</td><td>38.6</td><td>1.0</td><td>-46.1</td><td>-25.0</td><td>-21.1</td><td></td></tr><tr><td>5.1150</td><td>-0.1</td><td>H</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-38.9</td><td>-25.0</td><td>-13.9</td><td></td></tr><tr><td>7.6725</td><td>1.5</td><td>H</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-36.8</td><td>-25.0</td><td>-11.8</td><td></td></tr><tr><td>10.2300</td><td>-9.5</td><td>H</td><td>3.0</td><td>38.6</td><td>1.0</td><td>-47.1</td><td>-25.0</td><td>-22.1</td><td></td></tr><tr><td colspan="10">Mid Ch, (2605 MHz)</td></tr><tr><td>5.2100</td><td>-5.2</td><td>V</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-44.0</td><td>-25.0</td><td>-19.0</td><td></td></tr><tr><td>7.8150</td><td>-3.6</td><td>V</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-41.8</td><td>-25.0</td><td>-16.8</td><td></td></tr><tr><td>10.4200</td><td>-6.9</td><td>V</td><td>3.0</td><td>38.5</td><td>1.0</td><td>-44.4</td><td>-25.0</td><td>-19.4</td><td></td></tr><tr><td>5.2100</td><td>1.0</td><td>H</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-37.9</td><td>-25.0</td><td>-12.9</td><td></td></tr><tr><td>7.8150</td><td>-2.4</td><td>H</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-40.7</td><td>-25.0</td><td>-15.7</td><td></td></tr><tr><td>10.4200</td><td>-8.8</td><td>H</td><td>3.0</td><td>38.5</td><td>1.0</td><td>-46.3</td><td>-25.0</td><td>-21.3</td><td></td></tr><tr><td colspan="10">High Ch, (2652.5 MHz)</td></tr><tr><td>5.3050</td><td>-4.5</td><td>V</td><td>3.0</td><td>39.9</td><td>1.0</td><td>-43.4</td><td>-25.0</td><td>-18.4</td><td></td></tr><tr><td>7.9575</td><td>-3.2</td><td>V</td><td>3.0</td><td>39.2</td><td>1.0</td><td>-41.4</td><td>-25.0</td><td>-16.4</td><td></td></tr><tr><td>10.6100</td><td>-4.9</td><td>V</td><td>3.0</td><td>38.5</td><td>1.0</td><td>-42.5</td><td>-25.0</td><td>-17.5</td><td></td></tr><tr><td>5.3050</td><td>1.6</td><td>H</td><td>3.0</td><td>39.9</td><td>1.0</td><td>-37.3</td><td>-25.0</td><td>-12.3</td><td></td></tr><tr><td>7.9575</td><td>-0.5</td><td>H</td><td>3.0</td><td>39.2</td><td>1.0</td><td>-38.7</td><td>-25.0</td><td>-13.7</td><td></td></tr><tr><td>10.6100</td><td>-8.4</td><td>H</td><td>3.0</td><td>38.5</td><td>1.0</td><td>-46.0</td><td>-25.0</td><td>-21.0</td><td></td></tr></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, (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	
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes																																																																																																																																																																																																																												
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	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, 5MHz BW, 16QAM																																																																																																																																																																																																																																				
	Chamber		Pre-amplifer		Filter		Limit																																																																																																																																																																																																																														
	Chamber 2		AFS42		Filter 1		FCC Part 27																																																																																																																																																																																																																														
<table><tr><th>f GHz</th><th>SG reading (dBm)</th><th>Ant. Pol. (H/V)</th><th>Distance (m)</th><th>Preamp (dB)</th><th>Filter (dB)</th><th>ERP (dBm)</th><th>Limit (dBm)</th><th>Delta (dB)</th><th>Notes</th></tr><tr><td colspan="10">Low Ch, (2557.5 MHz)</td></tr><tr><td>5.1150</td><td>-4.7</td><td>V</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-43.5</td><td>-25.0</td><td>-18.5</td><td></td></tr><tr><td>7.6725</td><td>-3.1</td><td>V</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-41.4</td><td>-25.0</td><td>-16.4</td><td></td></tr><tr><td>10.2300</td><td>-9.4</td><td>V</td><td>3.0</td><td>38.6</td><td>1.0</td><td>-47.0</td><td>-25.0</td><td>-22.0</td><td></td></tr><tr><td>5.1150</td><td>-0.3</td><td>H</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-39.1</td><td>-25.0</td><td>-14.1</td><td></td></tr><tr><td>7.6725</td><td>1.6</td><td>H</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-36.7</td><td>-25.0</td><td>-11.7</td><td></td></tr><tr><td>10.2300</td><td>-9.1</td><td>H</td><td>3.0</td><td>38.6</td><td>1.0</td><td>-46.7</td><td>-25.0</td><td>-21.7</td><td></td></tr><tr><td colspan="10">Mid Ch, (2605 MHz)</td></tr><tr><td>5.2100</td><td>-5.4</td><td>V</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-44.2</td><td>-25.0</td><td>-19.2</td><td></td></tr><tr><td>7.8150</td><td>-3.5</td><td>V</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-41.8</td><td>-25.0</td><td>-16.8</td><td></td></tr><tr><td>10.4200</td><td>-7.5</td><td>V</td><td>3.0</td><td>38.5</td><td>1.0</td><td>-45.0</td><td>-25.0</td><td>-20.0</td><td></td></tr><tr><td>5.2100</td><td>1.1</td><td>H</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-37.7</td><td>-25.0</td><td>-12.7</td><td></td></tr><tr><td>7.8150</td><td>-1.3</td><td>H</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-39.5</td><td>-25.0</td><td>-14.5</td><td></td></tr><tr><td>10.4200</td><td>-8.7</td><td>H</td><td>3.0</td><td>38.5</td><td>1.0</td><td>-46.2</td><td>-25.0</td><td>-21.2</td><td></td></tr><tr><td colspan="10">High Ch, (2652.5 MHz)</td></tr><tr><td>5.3050</td><td>-4.6</td><td>V</td><td>3.0</td><td>39.9</td><td>1.0</td><td>-43.5</td><td>-25.0</td><td>-18.5</td><td></td></tr><tr><td>7.9575</td><td>-3.5</td><td>V</td><td>3.0</td><td>39.2</td><td>1.0</td><td>-41.7</td><td>-25.0</td><td>-16.7</td><td></td></tr><tr><td>10.6100</td><td>-5.4</td><td>V</td><td>3.0</td><td>38.5</td><td>1.0</td><td>-42.9</td><td>-25.0</td><td>-17.9</td><td></td></tr><tr><td>5.3050</td><td>1.1</td><td>H</td><td>3.0</td><td>39.9</td><td>1.0</td><td>-37.8</td><td>-25.0</td><td>-12.8</td><td></td></tr><tr><td>7.9575</td><td>-0.9</td><td>H</td><td>3.0</td><td>39.2</td><td>1.0</td><td>-39.1</td><td>-25.0</td><td>-14.1</td><td></td></tr><tr><td>10.6100</td><td>-8.0</td><td>H</td><td>3.0</td><td>38.5</td><td>1.0</td><td>-45.5</td><td>-25.0</td><td>-20.5</td><td></td></tr></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, (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	
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes																																																																																																																																																																																																																												
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)

LTE Band 41 20MHz QPSK	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, QPSK																																																																																																																																																																																																																																				
	Chamber		Pre-amplifier		Filter		Limit																																																																																																																																																																																																																														
	Chamber 2		AFS42		Filter 1		FCC Part 27																																																																																																																																																																																																																														
<table><tr><th>f GHz</th><th>SG reading (dBm)</th><th>Ant. Pol. (H/V)</th><th>Distance (m)</th><th>Preamp (dB)</th><th>Filter (dB)</th><th>ERP (dBm)</th><th>Limit (dBm)</th><th>Delta (dB)</th><th>Notes</th></tr><tr><td colspan="10">Low Ch, (2565 MHz)</td></tr><tr><td>5.1300</td><td>-3.1</td><td>V</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-41.9</td><td>-25.0</td><td>-16.9</td><td></td></tr><tr><td>7.6950</td><td>1.2</td><td>V</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-37.1</td><td>-25.0</td><td>-12.1</td><td></td></tr><tr><td>10.2600</td><td>-3.3</td><td>V</td><td>3.0</td><td>38.6</td><td>1.0</td><td>-40.9</td><td>-25.0</td><td>-15.9</td><td></td></tr><tr><td>5.1300</td><td>4.1</td><td>H</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-34.7</td><td>-25.0</td><td>-9.7</td><td></td></tr><tr><td>7.6950</td><td>-1.8</td><td>H</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-40.1</td><td>-25.0</td><td>-15.1</td><td></td></tr><tr><td>10.2600</td><td>-6.0</td><td>H</td><td>3.0</td><td>38.6</td><td>1.0</td><td>-43.6</td><td>-25.0</td><td>-18.6</td><td></td></tr><tr><td colspan="10">Mid Ch, (2605 MHz)</td></tr><tr><td>5.2100</td><td>-4.3</td><td>V</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-43.2</td><td>-25.0</td><td>-18.2</td><td></td></tr><tr><td>7.8150</td><td>-3.4</td><td>V</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-41.7</td><td>-25.0</td><td>-16.7</td><td></td></tr><tr><td>10.4200</td><td>-6.4</td><td>V</td><td>3.0</td><td>38.5</td><td>1.0</td><td>-43.9</td><td>-25.0</td><td>-18.9</td><td></td></tr><tr><td>5.2100</td><td>2.9</td><td>H</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-35.9</td><td>-25.0</td><td>-10.9</td><td></td></tr><tr><td>7.8150</td><td>-3.1</td><td>H</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-41.4</td><td>-25.0</td><td>-16.4</td><td></td></tr><tr><td>10.4200</td><td>-8.0</td><td>H</td><td>3.0</td><td>38.5</td><td>1.0</td><td>-45.5</td><td>-25.0</td><td>-20.5</td><td></td></tr><tr><td colspan="10">High Ch, (2645 MHz)</td></tr><tr><td>5.2900</td><td>-5.9</td><td>V</td><td>3.0</td><td>39.9</td><td>1.0</td><td>-44.8</td><td>-25.0</td><td>-19.8</td><td></td></tr><tr><td>7.9350</td><td>-0.8</td><td>V</td><td>3.0</td><td>39.2</td><td>1.0</td><td>-39.0</td><td>-25.0</td><td>-14.0</td><td></td></tr><tr><td>10.5800</td><td>-3.9</td><td>V</td><td>3.0</td><td>38.5</td><td>1.0</td><td>-41.4</td><td>-25.0</td><td>-16.4</td><td></td></tr><tr><td>5.2900</td><td>1.7</td><td>H</td><td>3.0</td><td>39.9</td><td>1.0</td><td>-37.2</td><td>-25.0</td><td>-12.2</td><td></td></tr><tr><td>7.9350</td><td>-2.5</td><td>H</td><td>3.0</td><td>39.2</td><td>1.0</td><td>-40.7</td><td>-25.0</td><td>-15.7</td><td></td></tr><tr><td>10.5800</td><td>-6.7</td><td>H</td><td>3.0</td><td>38.5</td><td>1.0</td><td>-44.2</td><td>-25.0</td><td>-19.2</td><td></td></tr></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, (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	
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		Pre-amplifier		Filter		Limit																																																																																																																																																																																																																														
	Chamber 2		AFS42		Filter 1		FCC Part 27																																																																																																																																																																																																																														
<table><tr><th>f GHz</th><th>SG reading (dBm)</th><th>Ant. Pol. (H/V)</th><th>Distance (m)</th><th>Preamp (dB)</th><th>Filter (dB)</th><th>ERP (dBm)</th><th>Limit (dBm)</th><th>Delta (dB)</th><th>Notes</th></tr><tr><td colspan="10">Low Ch, (2565 MHz)</td></tr><tr><td>5.1300</td><td>-3.0</td><td>V</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-41.8</td><td>-25.0</td><td>-16.8</td><td></td></tr><tr><td>7.6950</td><td>0.9</td><td>V</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-37.4</td><td>-25.0</td><td>-12.4</td><td></td></tr><tr><td>10.2600</td><td>-3.9</td><td>V</td><td>3.0</td><td>38.6</td><td>1.0</td><td>-41.4</td><td>-25.0</td><td>-16.4</td><td></td></tr><tr><td>5.1300</td><td>4.0</td><td>H</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-34.8</td><td>-25.0</td><td>-9.8</td><td></td></tr><tr><td>7.6950</td><td>-2.3</td><td>H</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-40.6</td><td>-25.0</td><td>-15.6</td><td></td></tr><tr><td>10.2600</td><td>-6.6</td><td>H</td><td>3.0</td><td>38.6</td><td>1.0</td><td>-44.1</td><td>-25.0</td><td>-19.1</td><td></td></tr><tr><td colspan="10">Mid Ch, (2605 MHz)</td></tr><tr><td>5.2100</td><td>-4.2</td><td>V</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-43.0</td><td>-25.0</td><td>-18.0</td><td></td></tr><tr><td>7.8150</td><td>-3.9</td><td>V</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-42.1</td><td>-25.0</td><td>-17.1</td><td></td></tr><tr><td>10.4200</td><td>-7.7</td><td>V</td><td>3.0</td><td>38.5</td><td>1.0</td><td>-45.2</td><td>-25.0</td><td>-20.2</td><td></td></tr><tr><td>5.2100</td><td>3.0</td><td>H</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-35.8</td><td>-25.0</td><td>-10.8</td><td></td></tr><tr><td>7.8150</td><td>-3.7</td><td>H</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-41.9</td><td>-25.0</td><td>-16.9</td><td></td></tr><tr><td>10.4200</td><td>-7.8</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><tr><td colspan="10">High Ch, (2645 MHz)</td></tr><tr><td>5.2900</td><td>-6.2</td><td>V</td><td>3.0</td><td>39.9</td><td>1.0</td><td>-45.0</td><td>-25.0</td><td>-20.0</td><td></td></tr><tr><td>7.9350</td><td>-0.3</td><td>V</td><td>3.0</td><td>39.2</td><td>1.0</td><td>-38.5</td><td>-25.0</td><td>-13.5</td><td></td></tr><tr><td>10.5800</td><td>-3.5</td><td>V</td><td>3.0</td><td>38.5</td><td>1.0</td><td>-41.0</td><td>-25.0</td><td>-16.0</td><td></td></tr><tr><td>5.2900</td><td>1.9</td><td>H</td><td>3.0</td><td>39.9</td><td>1.0</td><td>-36.9</td><td>-25.0</td><td>-11.9</td><td></td></tr><tr><td>7.9350</td><td>-2.9</td><td>H</td><td>3.0</td><td>39.2</td><td>1.0</td><td>-41.1</td><td>-25.0</td><td>-16.1</td><td></td></tr><tr><td>10.5800</td><td>-7.4</td><td>H</td><td>3.0</td><td>38.5</td><td>1.0</td><td>-44.9</td><td>-25.0</td><td>-19.9</td><td></td></tr></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, (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	
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.																																																																																																																																																																																																																																					

LTE Band 41 15MHz QPSK	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, 15MHz BW,QPSK																																																																																																																																																																																																																																				
	Chamber		Pre-amplifier		Filter		Limit																																																																																																																																																																																																																														
	Chamber 2		AFS42		Filter 1		FCC Part 27																																																																																																																																																																																																																														
<table><tr><th>f GHz</th><th>SG reading (dBm)</th><th>Ant. Pol. (H/V)</th><th>Distance (m)</th><th>Preamp (dB)</th><th>Filter (dB)</th><th>ERP (dBm)</th><th>Limit (dBm)</th><th>Delta (dB)</th><th>Notes</th></tr><tr><td colspan="10">Low 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></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	
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																																																																																																																																																																																																																													
Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.																																																																																																																																																																																																																																					

LTE Band 41 15MHz 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, 15MHz BW,16QAM																																																																																																																																																																																																																																				
	Chamber		Pre-amplifier		Filter		Limit																																																																																																																																																																																																																														
	Chamber 2		AFS42		Filter 1		FCC Part 27																																																																																																																																																																																																																														
<table><tr><th>f GHz</th><th>SG reading (dBm)</th><th>Ant. Pol. (H/V)</th><th>Distance (m)</th><th>Preamp (dB)</th><th>Filter (dB)</th><th>ERP (dBm)</th><th>Limit (dBm)</th><th>Delta (dB)</th><th>Notes</th></tr><tr><td colspan="10">Low Ch, (2562.5 MHz)</td></tr><tr><td>5.1250</td><td>-2.5</td><td>V</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-41.3</td><td>-25.0</td><td>-16.3</td><td></td></tr><tr><td>7.6875</td><td>2.8</td><td>V</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-35.5</td><td>-25.0</td><td>-10.5</td><td></td></tr><tr><td>10.2500</td><td>-3.5</td><td>V</td><td>3.0</td><td>38.6</td><td>1.0</td><td>-41.1</td><td>-25.0</td><td>-16.1</td><td></td></tr><tr><td>5.1250</td><td>4.3</td><td>H</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-34.5</td><td>-25.0</td><td>-9.5</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>-38.8</td><td>-25.0</td><td>-13.8</td><td></td></tr><tr><td>10.2500</td><td>-6.4</td><td>H</td><td>3.0</td><td>38.6</td><td>1.0</td><td>-43.9</td><td>-25.0</td><td>-18.9</td><td></td></tr><tr><td colspan="10">Mid Ch, (2605 MHz)</td></tr><tr><td>5.2100</td><td>-4.0</td><td>V</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-42.9</td><td>-25.0</td><td>-17.9</td><td></td></tr><tr><td>7.8150</td><td>-4.6</td><td>V</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-42.8</td><td>-25.0</td><td>-17.8</td><td></td></tr><tr><td>10.4200</td><td>-5.4</td><td>V</td><td>3.0</td><td>38.5</td><td>1.0</td><td>-43.0</td><td>-25.0</td><td>-18.0</td><td></td></tr><tr><td>5.2100</td><td>3.6</td><td>H</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-35.2</td><td>-25.0</td><td>-10.2</td><td></td></tr><tr><td>7.8150</td><td>-3.2</td><td>H</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-41.5</td><td>-25.0</td><td>-16.5</td><td></td></tr><tr><td>10.4200</td><td>-8.4</td><td>H</td><td>3.0</td><td>38.5</td><td>1.0</td><td>-45.9</td><td>-25.0</td><td>-20.9</td><td></td></tr><tr><td colspan="10">High Ch, (2647.5 MHz)</td></tr><tr><td>5.2950</td><td>-5.5</td><td>V</td><td>3.0</td><td>39.9</td><td>1.0</td><td>-44.4</td><td>-25.0</td><td>-19.4</td><td></td></tr><tr><td>7.9425</td><td>-0.5</td><td>V</td><td>3.0</td><td>39.2</td><td>1.0</td><td>-38.7</td><td>-25.0</td><td>-13.7</td><td></td></tr><tr><td>10.5900</td><td>-4.3</td><td>V</td><td>3.0</td><td>38.5</td><td>1.0</td><td>-41.9</td><td>-25.0</td><td>-16.9</td><td></td></tr><tr><td>5.2950</td><td>2.5</td><td>H</td><td>3.0</td><td>39.9</td><td>1.0</td><td>-36.4</td><td>-25.0</td><td>-11.4</td><td></td></tr><tr><td>7.9425</td><td>-1.4</td><td>H</td><td>3.0</td><td>39.2</td><td>1.0</td><td>-39.6</td><td>-25.0</td><td>-14.6</td><td></td></tr><tr><td>10.5900</td><td>-8.1</td><td>H</td><td>3.0</td><td>38.5</td><td>1.0</td><td>-45.7</td><td>-25.0</td><td>-20.7</td><td></td></tr></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	-2.5	V	3.0	39.8	1.0	-41.3	-25.0	-16.3		7.6875	2.8	V	3.0	39.3	1.0	-35.5	-25.0	-10.5		10.2500	-3.5	V	3.0	38.6	1.0	-41.1	-25.0	-16.1		5.1250	4.3	H	3.0	39.8	1.0	-34.5	-25.0	-9.5		7.6875	-0.5	H	3.0	39.3	1.0	-38.8	-25.0	-13.8		10.2500	-6.4	H	3.0	38.6	1.0	-43.9	-25.0	-18.9		Mid Ch, (2605 MHz)										5.2100	-4.0	V	3.0	39.8	1.0	-42.9	-25.0	-17.9		7.8150	-4.6	V	3.0	39.3	1.0	-42.8	-25.0	-17.8		10.4200	-5.4	V	3.0	38.5	1.0	-43.0	-25.0	-18.0		5.2100	3.6	H	3.0	39.8	1.0	-35.2	-25.0	-10.2		7.8150	-3.2	H	3.0	39.3	1.0	-41.5	-25.0	-16.5		10.4200	-8.4	H	3.0	38.5	1.0	-45.9	-25.0	-20.9		High Ch, (2647.5 MHz)										5.2950	-5.5	V	3.0	39.9	1.0	-44.4	-25.0	-19.4		7.9425	-0.5	V	3.0	39.2	1.0	-38.7	-25.0	-13.7		10.5900	-4.3	V	3.0	38.5	1.0	-41.9	-25.0	-16.9		5.2950	2.5	H	3.0	39.9	1.0	-36.4	-25.0	-11.4		7.9425	-1.4	H	3.0	39.2	1.0	-39.6	-25.0	-14.6		10.5900	-8.1	H	3.0	38.5	1.0	-45.7	-25.0	-20.7	
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	-2.5	V	3.0	39.8	1.0	-41.3	-25.0	-16.3																																																																																																																																																																																																																													
7.6875	2.8	V	3.0	39.3	1.0	-35.5	-25.0	-10.5																																																																																																																																																																																																																													
10.2500	-3.5	V	3.0	38.6	1.0	-41.1	-25.0	-16.1																																																																																																																																																																																																																													
5.1250	4.3	H	3.0	39.8	1.0	-34.5	-25.0	-9.5																																																																																																																																																																																																																													
7.6875	-0.5	H	3.0	39.3	1.0	-38.8	-25.0	-13.8																																																																																																																																																																																																																													
10.2500	-6.4	H	3.0	38.6	1.0	-43.9	-25.0	-18.9																																																																																																																																																																																																																													
Mid Ch, (2605 MHz)																																																																																																																																																																																																																																					
5.2100	-4.0	V	3.0	39.8	1.0	-42.9	-25.0	-17.9																																																																																																																																																																																																																													
7.8150	-4.6	V	3.0	39.3	1.0	-42.8	-25.0	-17.8																																																																																																																																																																																																																													
10.4200	-5.4	V	3.0	38.5	1.0	-43.0	-25.0	-18.0																																																																																																																																																																																																																													
5.2100	3.6	H	3.0	39.8	1.0	-35.2	-25.0	-10.2																																																																																																																																																																																																																													
7.8150	-3.2	H	3.0	39.3	1.0	-41.5	-25.0	-16.5																																																																																																																																																																																																																													
10.4200	-8.4	H	3.0	38.5	1.0	-45.9	-25.0	-20.9																																																																																																																																																																																																																													
High Ch, (2647.5 MHz)																																																																																																																																																																																																																																					
5.2950	-5.5	V	3.0	39.9	1.0	-44.4	-25.0	-19.4																																																																																																																																																																																																																													
7.9425	-0.5	V	3.0	39.2	1.0	-38.7	-25.0	-13.7																																																																																																																																																																																																																													
10.5900	-4.3	V	3.0	38.5	1.0	-41.9	-25.0	-16.9																																																																																																																																																																																																																													
5.2950	2.5	H	3.0	39.9	1.0	-36.4	-25.0	-11.4																																																																																																																																																																																																																													
7.9425	-1.4	H	3.0	39.2	1.0	-39.6	-25.0	-14.6																																																																																																																																																																																																																													
10.5900	-8.1	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.																																																																																																																																																																																																																																					

LTE Band 41 10MHz QPSK	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, QPSK									
	Chamber		Pre-amplifier		Filter		Limit			
	Chamber 2		AFS42		Filter 1		FCC Part 27			
	f GHz	SGreading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low 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	SGreading (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.										

LTE Band 41 5MHz QPSK	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, 5MHz BW, QPSK																																																																																																																																																																																																																																				
	Chamber		Pre-amplifier		Filter		Limit																																																																																																																																																																																																																														
	Chamber 2		AFS42		Filter 1		FCC Part 27																																																																																																																																																																																																																														
<table><tr><th>f GHz</th><th>SG reading (dBm)</th><th>Ant. Pol. (H/V)</th><th>Distance (m)</th><th>Preamp (dB)</th><th>Filter (dB)</th><th>ERP (dBm)</th><th>Limit (dBm)</th><th>Delta (dB)</th><th>Notes</th></tr><tr><td colspan="10">Low Ch, (2557.5 MHz)</td></tr><tr><td>5.1150</td><td>-3.1</td><td>V</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-41.9</td><td>-25.0</td><td>-16.9</td><td></td></tr><tr><td>7.6725</td><td>2.0</td><td>V</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-36.3</td><td>-25.0</td><td>-11.3</td><td></td></tr><tr><td>10.2300</td><td>-4.8</td><td>V</td><td>3.0</td><td>38.6</td><td>1.0</td><td>-42.4</td><td>-25.0</td><td>-17.4</td><td></td></tr><tr><td>5.1150</td><td>4.6</td><td>H</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-34.2</td><td>-25.0</td><td>-9.2</td><td></td></tr><tr><td>7.6725</td><td>2.4</td><td>H</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-35.9</td><td>-25.0</td><td>-10.9</td><td></td></tr><tr><td>10.2300</td><td></td><td>H</td><td>3.0</td><td>38.6</td><td>1.0</td><td>-37.6</td><td>-25.0</td><td>-12.6</td><td></td></tr><tr><td colspan="10">Mid Ch, (2605 MHz)</td></tr><tr><td>5.2100</td><td>-5.0</td><td>V</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-43.9</td><td>-25.0</td><td>-18.9</td><td></td></tr><tr><td>7.8150</td><td>-3.0</td><td>V</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>-4.7</td><td>V</td><td>3.0</td><td>38.5</td><td>1.0</td><td>-42.2</td><td>-25.0</td><td>-17.2</td><td></td></tr><tr><td>5.2100</td><td>4.6</td><td>H</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-34.2</td><td>-25.0</td><td>-9.2</td><td></td></tr><tr><td>7.8150</td><td>-2.8</td><td>H</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-41.0</td><td>-25.0</td><td>-16.0</td><td></td></tr><tr><td>10.4200</td><td>-7.9</td><td>H</td><td>3.0</td><td>38.5</td><td>1.0</td><td>-45.5</td><td>-25.0</td><td>-20.5</td><td></td></tr><tr><td colspan="10">High Ch, (2652.5 MHz)</td></tr><tr><td>5.3050</td><td>-3.2</td><td>V</td><td>3.0</td><td>39.9</td><td>1.0</td><td>-42.0</td><td>-25.0</td><td>-17.0</td><td></td></tr><tr><td>7.9575</td><td>-1.7</td><td>V</td><td>3.0</td><td>39.2</td><td>1.0</td><td>-39.9</td><td>-25.0</td><td>-14.9</td><td></td></tr><tr><td>10.6100</td><td>-2.7</td><td>V</td><td>3.0</td><td>38.5</td><td>1.0</td><td>-40.2</td><td>-25.0</td><td>-15.2</td><td></td></tr><tr><td>5.3050</td><td>6.0</td><td>H</td><td>3.0</td><td>39.9</td><td>1.0</td><td>-32.9</td><td>-25.0</td><td>-7.9</td><td></td></tr><tr><td>7.9575</td><td>-1.9</td><td>H</td><td>3.0</td><td>39.2</td><td>1.0</td><td>-40.1</td><td>-25.0</td><td>-15.1</td><td></td></tr><tr><td>10.6100</td><td>-7.5</td><td>H</td><td>3.0</td><td>38.5</td><td>1.0</td><td>-45.0</td><td>-25.0</td><td>-20.0</td><td></td></tr></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, (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	
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes																																																																																																																																																																																																																												
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	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, 5MHz BW, 16QAM																																																																																																																																																																																																																																				
	Chamber		Pre-amplifier		Filter		Limit																																																																																																																																																																																																																														
	Chamber 2		AFS42		Filter 1		FCC Part 27																																																																																																																																																																																																																														
<table><tr><th>f GHz</th><th>SG reading (dBm)</th><th>Ant. Pol. (H/V)</th><th>Distance (m)</th><th>Preamp (dB)</th><th>Filter (dB)</th><th>ERP (dBm)</th><th>Limit (dBm)</th><th>Delta (dB)</th><th>Notes</th></tr><tr><td colspan="10">Low Ch, (2557.5 MHz)</td></tr><tr><td>5.1150</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>7.6725</td><td>1.8</td><td>V</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-36.5</td><td>-25.0</td><td>-11.5</td><td></td></tr><tr><td>10.2300</td><td>-5.9</td><td>V</td><td>3.0</td><td>38.6</td><td>1.0</td><td>-43.5</td><td>-25.0</td><td>-18.5</td><td></td></tr><tr><td>5.1150</td><td>4.4</td><td>H</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-34.4</td><td>-25.0</td><td>-9.4</td><td></td></tr><tr><td>7.6725</td><td>2.6</td><td>H</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-35.7</td><td>-25.0</td><td>-10.7</td><td></td></tr><tr><td>10.2300</td><td>-7.6</td><td>H</td><td>3.0</td><td>38.6</td><td>1.0</td><td>-45.2</td><td>-25.0</td><td>-20.2</td><td></td></tr><tr><td colspan="10">Mid Ch, (2605 MHz)</td></tr><tr><td>5.2100</td><td>-4.3</td><td>V</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-43.1</td><td>-25.0</td><td>-18.1</td><td></td></tr><tr><td>7.8150</td><td>-3.5</td><td>V</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-41.8</td><td>-25.0</td><td>-16.8</td><td></td></tr><tr><td>10.4200</td><td>-4.8</td><td>V</td><td>3.0</td><td>38.5</td><td>1.0</td><td>-42.3</td><td>-25.0</td><td>-17.3</td><td></td></tr><tr><td>5.2100</td><td>4.2</td><td>H</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-34.7</td><td>-25.0</td><td>-9.7</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>-8.3</td><td>H</td><td>3.0</td><td>38.5</td><td>1.0</td><td>-45.8</td><td>-25.0</td><td>-20.8</td><td></td></tr><tr><td colspan="10">High Ch, (2652.5 MHz)</td></tr><tr><td>5.3050</td><td>-3.0</td><td>V</td><td>3.0</td><td>39.9</td><td>1.0</td><td>-41.9</td><td>-25.0</td><td>-16.9</td><td></td></tr><tr><td>7.9575</td><td>-2.4</td><td>V</td><td>3.0</td><td>39.2</td><td>1.0</td><td>-40.6</td><td>-25.0</td><td>-15.6</td><td></td></tr><tr><td>10.6100</td><td>-2.2</td><td>V</td><td>3.0</td><td>38.5</td><td>1.0</td><td>-39.8</td><td>-25.0</td><td>-14.8</td><td></td></tr><tr><td>5.3050</td><td>6.0</td><td>H</td><td>3.0</td><td>39.9</td><td>1.0</td><td>-32.9</td><td>-25.0</td><td>-7.9</td><td></td></tr><tr><td>7.9575</td><td>-1.6</td><td>H</td><td>3.0</td><td>39.2</td><td>1.0</td><td>-39.8</td><td>-25.0</td><td>-14.8</td><td></td></tr><tr><td>10.6100</td><td>-8.2</td><td>H</td><td>3.0</td><td>38.5</td><td>1.0</td><td>-45.7</td><td>-25.0</td><td>-20.7</td><td></td></tr></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, (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	
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes																																																																																																																																																																																																																												
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.																																																																																																																																																																																																																																					