

LTE Band 5

LTE Band 5 10MHz QPSK	UL Verification Services, Inc. High Frequency Substitution Measurement								
	Company: Samsung								
	Project #: 4788269334								
	Date: 2017-12-18								
	Test Engineer: 45585								
	Configuration: EUT								
	Location: Chamber 2								
	Mode: LTE_QPSK Band 5 Fundamentals, 10MHz Bandwidth								
	Test Equipment: Receiving: VULB9163-749, and Chamber 2 SMA Cables Substitution: Dipole 3121_DB4, 3m N-type Cable								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch								
	829.00	14.72	V	1.0	-1.5	12.31	38.5	-26.2	
	829.00	19.33	H	1.0	-1.5	16.92	38.5	-21.6	
	Mid Ch								
	836.50	14.08	V	1.0	-1.4	11.70	38.5	-26.8	
836.50	19.68	H	1.0	-1.4	17.30	38.5	-21.2		
High Ch									
844.00	13.29	V	1.0	-1.4	10.94	38.5	-27.6		
844.00	20.13	H	1.0	-1.4	17.77	38.5	-20.7		
UL Verification Services, Inc. High Frequency Substitution Measurement									
Company: Samsung									
Project #: 4788269334									
Date: 2017-12-18									
Test Engineer: 45585									
Configuration: EUT									
Location: Chamber 2									
Mode: LTE_16QAM Band 5 Fundamentals, 10MHz Bandwidth									
Test Equipment: Receiving: VULB9163-749, and Chamber 2 SMA Cables Substitution: Dipole 3121_DB4, 3m N-type Cable									
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	
Low Ch									
829.00	14.72	V	1.0	-1.5	12.31	38.5	-26.2		
829.00	19.34	H	1.0	-1.5	16.93	38.5	-21.6		
Mid Ch									
836.50	14.07	V	1.0	-1.4	11.69	38.5	-26.8		
836.50	19.67	H	1.0	-1.4	17.29	38.5	-21.2		
High Ch									
844.00	13.33	V	1.0	-1.4	10.98	38.5	-27.5		
844.00	20.14	H	1.0	-1.4	17.78	38.5	-20.7		

LTE Band 5 5MHz QPSK	UL Verification Services, Inc. High Frequency Substitution Measurement								
	Company: Samsung Project #: 4788269334 Date: 2017-12-18 Test Engineer: 45585 Configuration: EUT Location: Chamber 2 Mode: LTE_QPSK Band 5 Fundamentals, 5MHz Bandwidth								
	Test Equipment: Receiving: VULB9163-749, and Chamber 2 SMA Cables Substitution: Dipole 3121_DB4, 3m N-type Cable								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch								
	826.50	16.41	V	1.0	-1.5	13.99	38.5	-24.5	
	826.50	20.77	H	1.0	-1.5	18.35	38.5	-20.1	
	Mid Ch								
	836.50	14.33	V	1.0	-1.4	11.95	38.5	-26.6	
	836.50	21.42	H	1.0	-1.4	19.04	38.5	-19.5	
High Ch									
846.50	12.96	V	1.0	-1.4	10.61	38.5	-27.9		
846.50	21.37	H	1.0	-1.4	19.02	38.5	-19.5		
LTE Band 5 5MHz 16QAM	UL Verification Services, Inc. High Frequency Substitution Measurement								
	Company: Samsung Project #: 4788269334 Date: 2017-12-18 Test Engineer: 45585 Configuration: EUT Location: Chamber 2 Mode: LTE_16QAM Band 5 Fundamentals, 5MHz Bandwidth								
	Test Equipment: Receiving: VULB9163-749, and Chamber 2 SMA Cables Substitution: Dipole 3121_DB4, 3m N-type Cable								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch								
	826.50	16.35	V	1.0	-1.5	13.93	38.5	-24.6	
	826.50	20.71	H	1.0	-1.5	18.29	38.5	-20.2	
	Mid Ch								
	836.50	14.34	V	1.0	-1.4	11.96	38.5	-26.5	
	836.50	21.43	H	1.0	-1.4	19.05	38.5	-19.5	
High Ch									
846.50	13.43	V	1.0	-1.4	11.08	38.5	-27.4		
846.50	21.36	H	1.0	-1.4	19.01	38.5	-19.5		

LTE Band 5 3MHz QPSK	UL Verification Services, Inc. High Frequency Substitution Measurement								
	Company: Samsung Project #: 4788269334 Date: 2017-12-18 Test Engineer: 45585 Configuration: EUT Location: Chamber 2 Mode: LTE_QPSK Band 5 Fundamentals, 3MHz Bandwidth								
	Test Equipment: Receiving: VULB9163-749, and Chamber 2 SMA Cables Substitution: Dipole 3121_DB4, 3m N-type Cable								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch								
	825.50	15.95	V	1.0	-1.5	13.53	38.5	-25.0	
	825.50	20.81	H	1.0	-1.5	18.39	38.5	-20.1	
	Mid Ch								
	836.50	15.58	V	1.0	-1.4	13.20	38.5	-25.3	
	836.50	21.16	H	1.0	-1.4	18.78	38.5	-19.7	
High Ch									
847.50	15.22	V	1.0	-1.4	12.88	38.5	-25.6		
847.50	21.27	H	1.0	-1.4	18.92	38.5	-19.6		
LTE Band 5 3MHz 16QAM	UL Verification Services, Inc. High Frequency Substitution Measurement								
	Company: Samsung Project #: 4788269334 Date: 2017-12-18 Test Engineer: 45585 Configuration: EUT Location: Chamber 2 Mode: LTE_16QAM Band 5 Fundamentals, 3MHz Bandwidth								
	Test Equipment: Receiving: VULB9163-749, and Chamber 2 SMA Cables Substitution: Dipole 3121_DB4, 3m N-type Cable								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch								
	825.50	15.94	V	1.0	-1.5	13.52	38.5	-25.0	
	825.50	20.75	H	1.0	-1.5	18.33	38.5	-20.2	
	Mid Ch								
	836.50	15.53	V	1.0	-1.4	13.15	38.5	-25.4	
	836.50	21.09	H	1.0	-1.4	18.71	38.5	-19.8	
High Ch									
847.50	15.08	V	1.0	-1.4	12.74	38.5	-25.8		
847.50	21.20	H	1.0	-1.4	18.85	38.5	-19.6		

LTE Band 5 1.4MHz QPSK	UL Verification Services, Inc. High Frequency Substitution Measurement																																																																																																	
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10.2. FIELD STRENGTH OF SPURIOUS RADIATION

RULE PART(S)

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

LIMIT

Part 22.917(a) & Part 24.238(a) & Part 27.53(g) - The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log (P)$ dB.

TEST PROCEDURE

ANSI / TIA / EIA 603E Clause 2.2.12; ESU40 setting reference to 971168 D01 v03

For peak power measurement with a ESU40:

- a) Set the RBW = 100 KHz for emission below 1GHz and 1MHz for emissions above 1GHz
- b) Set VBW $\geq 3 \times$ RBW;
- c) Set span ≥ 1.5 times the OBW;
- d) Sweep time = auto couple;
- e) Detector = peak (RMS for average measurement);
- f) Ensure that the number of measurement points \geq span/RBW;
- g) Trace mode = max hold;

RESULTS

10.2.1. SPURIOUS RADIATION PLOTS

GSM 1900

		UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement									
		Company: Samsung		Project #: 4788269334		Date: 01-03-18		Test Engineer: 45585		Configuration: EUT / AC Adapter / Earphone / X Position	
GSM GSM1900 GPRS		Chamber	Pre-amplifier	Filter	Limit						
		Chamber 2	AFS42	Filter 1	Part 24						
		f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
		Low Ch, 1850.2MHz									
		3.7004	-12.6	V	3.0	39.7	1.0	-51.2	-13.0	-38.2	
		5.5506	-10.6	V	3.0	39.9	1.0	-49.5	-13.0	-36.5	
		7.4008	-10.3	V	3.0	39.4	1.0	-48.7	-13.0	-35.7	
		3.7000	-12.6	H	3.0	39.7	1.0	-51.2	-13.0	-38.2	
		5.5500	-10.7	H	3.0	39.9	1.0	-49.6	-13.0	-36.6	
		7.4000	-9.7	H	3.0	39.4	1.0	-48.1	-13.0	-35.1	
		Mid Ch, 1880.0MHz									
		3.7600	-13.6	V	3.0	39.7	1.0	-52.3	-13.0	-39.3	
		5.6400	-8.9	V	3.0	40.0	1.0	-47.8	-13.0	-34.8	
		7.5200	-8.8	V	3.0	39.4	1.0	-47.1	-13.0	-34.1	
		3.7600	-11.4	H	3.0	39.7	1.0	-50.1	-13.0	-37.1	
		5.6400	-10.3	H	3.0	40.0	1.0	-49.3	-13.0	-36.3	
		7.5200	-9.1	H	3.0	39.4	1.0	-47.5	-13.0	-34.5	
		High Ch, 1909.8 MHz									
		3.8196	-12.6	V	3.0	39.7	1.0	-51.3	-13.0	-38.3	
		5.7294	-9.6	V	3.0	40.0	1.0	-48.6	-13.0	-35.6	
		7.6392	-9.8	V	3.0	39.3	1.0	-48.2	-13.0	-35.2	
		3.8196	-12.3	H	3.0	39.7	1.0	-51.0	-13.0	-38.0	
		5.7294	-9.4	H	3.0	40.0	1.0	-48.3	-13.0	-35.3	
		7.6392	-9.5	H	3.0	39.3	1.0	-47.8	-13.0	-34.8	
		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 #: 4788269334		Date: 01-03-18		Test Engineer: 45585		Configuration: EUT / AC Adapter / Earphone / X Position	
		Chamber	Pre-amplifier	Filter	Limit						
		Chamber 2	AFS42	Filter 1	Part 24						
		f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
		Low Ch, 1850.2MHz									
		3.7004	-13.7	V	3.0	39.7	1.0	-52.4	-13.0	-39.4	
		5.5506	-10.1	V	3.0	39.9	1.0	-49.1	-13.0	-36.1	
		7.4008	-10.3	V	3.0	39.4	1.0	-48.7	-13.0	-35.7	
		3.7000	-13.6	H	3.0	39.7	1.0	-52.2	-13.0	-39.2	
		5.5500	-10.5	H	3.0	39.9	1.0	-49.4	-13.0	-36.4	
		7.4000	-10.1	H	3.0	39.4	1.0	-48.6	-13.0	-35.6	
		Mid Ch, 1880.0MHz									
		3.7600	-13.5	V	3.0	39.7	1.0	-52.1	-13.0	-39.1	
		5.6400	-10.7	V	3.0	40.0	1.0	-49.7	-13.0	-36.7	
		7.5200	-8.8	V	3.0	39.4	1.0	-47.1	-13.0	-34.1	
		3.7600	-12.4	H	3.0	39.7	1.0	-51.1	-13.0	-38.1	
		5.6400	-10.3	H	3.0	40.0	1.0	-49.3	-13.0	-36.3	
		7.5200	-8.8	H	3.0	39.4	1.0	-47.2	-13.0	-34.2	
		High Ch, 1909.8 MHz									
		3.8196	-12.8	V	3.0	39.7	1.0	-51.5	-13.0	-38.5	
		5.7294	-10.9	V	3.0	40.0	1.0	-49.9	-13.0	-36.9	
		7.6392	-9.9	V	3.0	39.3	1.0	-48.2	-13.0	-35.2	
		3.8196	-12.5	H	3.0	39.7	1.0	-51.2	-13.0	-38.2	
		5.7294	-11.5	H	3.0	40.0	1.0	-50.4	-13.0	-37.4	
		7.6392	-9.1	H	3.0	39.3	1.0	-47.5	-13.0	-34.5	
		Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.									

WCDMA Band 5

		UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement									
WCDMA	Band 5 REL99	Company: Samsung									
		Project #: 4788269334									
		Date: 01-03-18									
		Test Engineer: 45585									
		Configuration: EUT / AC Adapter / Earphone / X Position									
		Mode: Tx, REL99,850MHz									
		Chamber: Chamber 2		Pre-amplifier: AFS42		Filter: Filter 1		Limit: Part 22			
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes		
Low Ch, 826.40MHz											
1.6520	-12.9	V	3.0	38.2	1.0	-50.1	-13.0	-37.1			
2.4790	-14.2	V	3.0	38.8	1.0	-52.0	-13.0	-39.0			
3.3056	-14.3	V	3.0	39.4	1.0	-52.7	-13.0	-39.7			
1.6520	-11.6	H	3.0	38.2	1.0	-48.8	-13.0	-35.8			
2.4790	-13.3	H	3.0	38.8	1.0	-51.1	-13.0	-38.1			
3.3056	-14.4	H	3.0	39.4	1.0	-52.8	-13.0	-39.8			
Mid Ch, 836.6MHz											
1.6732	-13.3	V	3.0	38.2	1.0	-50.5	-13.0	-37.5			
2.5098	-13.7	V	3.0	38.8	1.0	-51.6	-13.0	-38.6			
3.3464	-14.7	V	3.0	39.5	1.0	-53.1	-13.0	-40.1			
1.6732	-11.8	H	3.0	38.2	1.0	-49.1	-13.0	-36.1			
2.5098	-13.9	H	3.0	38.8	1.0	-51.8	-13.0	-38.8			
3.3464	-13.9	H	3.0	39.5	1.0	-52.3	-13.0	-39.3			
High Ch, 846.6MHz											
1.6932	-11.8	V	3.0	38.2	1.0	-49.1	-13.0	-36.1			
2.5390	-14.3	V	3.0	38.9	1.0	-52.2	-13.0	-39.2			
3.3860	-14.1	V	3.0	39.5	1.0	-52.6	-13.0	-39.6			
1.6932	-11.9	H	3.0	38.2	1.0	-49.1	-13.0	-36.1			
2.5390	-13.4	H	3.0	38.9	1.0	-51.2	-13.0	-38.2			
3.3860	-14.0	H	3.0	39.5	1.0	-52.5	-13.0	-39.5			
Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.											
WCDMA	Band 5 HSDPA	UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement									
		Company: Samsung									
		Project #: 4788269334									
		Date: 01-03-18									
		Test Engineer: 45585									
		Configuration: EUT / AC Adapter / Earphone / X Position									
		Mode: Tx, HSDPA,850MHz									
		Chamber: Chamber 2		Pre-amplifier: AFS42		Filter: Filter 1		Limit: Part 22			
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes		
Low Ch, 826.40MHz											
1.6520	-12.4	V	3.0	38.2	1.0	-49.7	-13.0	-36.7			
2.4790	-14.4	V	3.0	38.8	1.0	-52.2	-13.0	-39.2			
3.3056	-14.0	V	3.0	39.4	1.0	-52.5	-13.0	-39.5			
1.6520	-10.8	H	3.0	38.2	1.0	-48.1	-13.0	-35.1			
2.4790	-12.7	H	3.0	38.8	1.0	-50.5	-13.0	-37.5			
3.3056	-14.2	H	3.0	39.4	1.0	-52.6	-13.0	-39.6			
Mid Ch, 836.6MHz											
1.6732	-13.2	V	3.0	38.2	1.0	-50.4	-13.0	-37.4			
2.5098	-13.7	V	3.0	38.8	1.0	-51.5	-13.0	-38.5			
3.3464	-13.5	V	3.0	39.5	1.0	-52.0	-13.0	-39.0			
1.6732	-11.9	H	3.0	38.2	1.0	-49.1	-13.0	-36.1			
2.5098	-13.1	H	3.0	38.8	1.0	-50.9	-13.0	-37.9			
3.3464	-14.2	H	3.0	39.5	1.0	-52.6	-13.0	-39.6			
High Ch, 846.6MHz											
1.6932	-11.4	V	3.0	38.2	1.0	-48.7	-13.0	-35.7			
2.5390	-15.0	V	3.0	38.9	1.0	-52.8	-13.0	-39.8			
3.3860	-13.4	V	3.0	39.5	1.0	-51.9	-13.0	-38.9			
1.6932	-12.1	H	3.0	38.2	1.0	-49.3	-13.0	-36.3			
2.5390	-13.4	H	3.0	38.9	1.0	-51.2	-13.0	-38.2			
3.3860	-13.6	H	3.0	39.5	1.0	-52.1	-13.0	-39.1			
Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.											

WCDMA Band 2

		UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement									
WCDMA	Band 2 REL99	Company: Samsung									
		Project #: 4788269334									
		Date: 01-02-18									
		Test Engineer: 47989									
		Configuration: EUT / AC Adapter / Earphone / X Position									
		Mode: Tx, REL99,1900MHz									
		Chamber: Chamber 2		Pre-amplifier: AFS42		Filter: Filter 1		Limit: Part 24			
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes		
Low Ch, 1852.4MHz											
3.7048	-4.8	V	3.0	39.7	1.0	-43.4	-13.0	-30.4			
5.5572	-12.4	V	3.0	39.9	1.0	-51.3	-13.0	-38.3			
7.4096	-9.8	V	3.0	39.4	1.0	-48.3	-13.0	-35.3			
3.7048	-5.3	H	3.0	39.7	1.0	-44.0	-13.0	-31.0			
5.5572	-11.6	H	3.0	39.9	1.0	-50.5	-13.0	-37.5			
7.4096	-9.3	H	3.0	39.4	1.0	-47.7	-13.0	-34.7			
Mid Ch, 1880MHz											
3.7600	-8.7	V	3.0	39.7	1.0	-47.4	-13.0	-34.4			
5.6400	-12.9	V	3.0	40.0	1.0	-51.9	-13.0	-38.9			
7.5200	-9.1	V	3.0	39.4	1.0	-47.5	-13.0	-34.5			
3.7600	-11.3	H	3.0	39.7	1.0	-50.0	-13.0	-37.0			
5.6400	-12.8	H	3.0	40.0	1.0	-51.7	-13.0	-38.7			
7.5200	-8.8	H	3.0	39.4	1.0	-47.2	-13.0	-34.2			
High Ch, 1907.6MHz											
3.8152	-7.9	V	3.0	39.7	1.0	-46.6	-13.0	-33.6			
5.7228	-12.6	V	3.0	40.0	1.0	-51.6	-13.0	-38.6			
7.6304	-8.1	V	3.0	39.3	1.0	-46.4	-13.0	-33.4			
3.8152	-11.9	H	3.0	39.7	1.0	-50.6	-13.0	-37.6			
5.7228	-12.7	H	3.0	40.0	1.0	-51.7	-13.0	-38.7			
7.6304	-8.9	H	3.0	39.3	1.0	-47.2	-13.0	-34.2			
Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.											
WCDMA	Band 2 HSDPA	Company: Samsung									
		Project #: 4788269334									
		Date: 01-02-18									
		Test Engineer: 47989									
		Configuration: EUT / AC Adapter / Earphone / X Position									
		Mode: Tx, HSDPA,1900MHz									
		Chamber: Chamber 2		Pre-amplifier: AFS42		Filter: Filter 1		Limit: Part 24			
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes		
Low Ch, 1852.4MHz											
3.7048	-4.5	V	3.0	39.7	1.0	-43.1	-13.0	-30.1			
5.5572	-13.0	V	3.0	39.9	1.0	-52.0	-13.0	-39.0			
7.4096	-10.1	V	3.0	39.4	1.0	-48.6	-13.0	-35.6			
3.7048	-5.4	H	3.0	39.7	1.0	-44.0	-13.0	-31.0			
5.5572	-11.6	H	3.0	39.9	1.0	-50.6	-13.0	-37.6			
7.4096	-9.4	H	3.0	39.4	1.0	-47.8	-13.0	-34.8			
Mid Ch, 1880MHz											
3.7600	-7.3	V	3.0	39.7	1.0	-46.0	-13.0	-33.0			
5.6400	-13.0	V	3.0	40.0	1.0	-51.9	-13.0	-38.9			
7.5200	-9.1	V	3.0	39.4	1.0	-47.5	-13.0	-34.5			
3.7600	-10.1	H	3.0	39.7	1.0	-48.8	-13.0	-35.8			
5.6400	-11.9	H	3.0	40.0	1.0	-50.9	-13.0	-37.9			
7.5200	-9.1	H	3.0	39.4	1.0	-47.5	-13.0	-34.5			
High Ch, 1907.6MHz											
3.8152	-7.9	V	3.0	39.7	1.0	-46.6	-13.0	-33.6			
5.7228	-13.3	V	3.0	40.0	1.0	-52.3	-13.0	-39.3			
7.6304	-8.5	V	3.0	39.3	1.0	-46.8	-13.0	-33.8			
3.8152	-12.1	H	3.0	39.7	1.0	-50.8	-13.0	-37.8			
5.7228	-12.7	H	3.0	40.0	1.0	-51.7	-13.0	-38.7			
7.6304	-9.7	H	3.0	39.3	1.0	-48.0	-13.0	-35.0			
Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.											

LTE Band 17

		UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement										
LTE Band 17 10MHz QPSK	Company: Samsung		Project #: 4788269334								Date: 12-28-17	
	Test Engineer: 47989		Configuration: EUT / AC Adapter / Earphone, X Position								Mode: TX, LTE BAND 17, 10MHz BW, QPSK	
	Chamber		Pre-amplifier		Filter		Limit					
	Chamber 2		AFS42		Filter 1		FCC Part 27					
	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes		
	Low Channel (709MHz)											
	1.4180	-10.5	V	3.0	38.1	1.0	-47.6	-13.0	-34.6			
	2.1270	-14.9	V	3.0	38.5	1.0	-52.4	-13.0	-39.4			
	2.8360	-14.0	V	3.0	39.1	1.0	-52.1	-13.0	-39.1			
	1.4180	-8.6	H	3.0	38.1	1.0	-45.7	-13.0	-32.7			
2.1270	-16.1	H	3.0	38.5	1.0	-53.6	-13.0	-40.6				
2.8360	-13.7	H	3.0	39.1	1.0	-51.9	-13.0	-38.9				
Mid Channel (710MHz)												
1.4200	-11.8	V	3.0	38.1	1.0	-48.9	-13.0	-35.9				
2.1300	-15.2	V	3.0	38.5	1.0	-52.7	-13.0	-39.7				
2.8400	-14.5	V	3.0	39.1	1.0	-52.6	-13.0	-39.6				
1.4200	-10.3	H	3.0	38.1	1.0	-47.4	-13.0	-34.4				
2.1300	-15.9	H	3.0	38.5	1.0	-53.4	-13.0	-40.4				
2.8400	-13.1	H	3.0	39.1	1.0	-51.2	-13.0	-38.2				
High Channel (711MHz)												
1.4220	-12.5	V	3.0	38.1	1.0	-49.7	-13.0	-36.7				
2.1330	-15.3	V	3.0	38.5	1.0	-52.8	-13.0	-39.8				
2.8440	-13.3	V	3.0	39.1	1.0	-51.4	-13.0	-38.4				
1.4220	-11.3	H	3.0	38.1	1.0	-48.4	-13.0	-35.4				
2.1330	-16.3	H	3.0	38.5	1.0	-53.8	-13.0	-40.8				
2.8440	-12.8	H	3.0	39.1	1.0	-50.9	-13.0	-37.9				
Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.												
LTE Band 17 10MHz 16QAM	Company: Samsung		Project #: 4788269334								Date: 12-28-17	
	Test Engineer: 47989		Configuration: EUT / AC Adapter / Earphone, X Position								Mode: TX, LTE BAND 17, 10MHz BW, 16QAM	
	Chamber		Pre-amplifier		Filter		Limit					
	Chamber 2		AFS42		Filter 1		FCC Part 27					
	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes		
	Low Channel (709MHz)											
	1.4180	-10.5	V	3.0	38.1	1.0	-47.6	-13.0	-34.6			
	2.1270	-15.3	V	3.0	38.5	1.0	-52.8	-13.0	-39.8			
	2.8360	-14.4	V	3.0	39.1	1.0	-52.5	-13.0	-39.5			
	1.4180	-9.5	H	3.0	38.1	1.0	-46.6	-13.0	-33.6			
2.1270	-15.9	H	3.0	38.5	1.0	-53.4	-13.0	-40.4				
2.8360	-13.7	H	3.0	39.1	1.0	-51.8	-13.0	-38.8				
Mid Channel (710MHz)												
1.4200	-12.9	V	3.0	38.1	1.0	-50.0	-13.0	-37.0				
2.1300	-16.0	V	3.0	38.5	1.0	-53.5	-13.0	-40.5				
2.8400	-14.9	V	3.0	39.1	1.0	-53.0	-13.0	-40.0				
1.4200	-10.5	H	3.0	38.1	1.0	-47.6	-13.0	-34.6				
2.1300	-15.7	H	3.0	38.5	1.0	-53.2	-13.0	-40.2				
2.8400	-12.8	H	3.0	39.1	1.0	-50.9	-13.0	-37.9				
High Channel (711MHz)												
1.4220	-12.6	V	3.0	38.1	1.0	-49.7	-13.0	-36.7				
2.1330	-15.9	V	3.0	38.5	1.0	-53.4	-13.0	-40.4				
2.8440	-13.3	V	3.0	39.1	1.0	-51.4	-13.0	-38.4				
1.4220	-11.5	H	3.0	38.1	1.0	-48.6	-13.0	-35.6				
2.1330	-16.2	H	3.0	38.5	1.0	-53.7	-13.0	-40.7				
2.8440	-12.7	H	3.0	39.1	1.0	-50.8	-13.0	-37.8				
Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.												

		UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement										
LTE Band 17 5MHz QPSK	Company:	Samsung										
	Project #:	4788269334										
	Date:	12-28-17										
	Test Engineer:	47989										
	Configuration:	EUT / AC Adapter / Earphone, XPosition										
	Mode:	TX, LTE BAND 17, 5MHz BW, QPSK										
			Chamber	Pre-amplifier	Filter	Limit						
			Chamber 2	AFS42	Filter 1	FCC Part 27						
			f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
			Low Channel (706.5MHz)									
		1.4130	-11.3	V	3.0	38.1	1.0	-48.5	-13.0	-35.5		
		2.1195	-16.0	V	3.0	38.5	1.0	-53.5	-13.0	-40.5		
		2.8260	-16.0	V	3.0	39.1	1.0	-54.1	-13.0	-41.1		
		1.4130	-9.0	H	3.0	38.1	1.0	-46.1	-13.0	-33.1		
		2.1195	-16.5	H	3.0	38.5	1.0	-54.0	-13.0	-41.0		
		2.8260	-15.7	H	3.0	39.1	1.0	-53.8	-13.0	-40.8		
		Mid Channel (710MHz)										
		1.4200	-11.0	V	3.0	38.1	1.0	-48.1	-13.0	-35.1		
		2.1300	-14.5	V	3.0	38.5	1.0	-52.0	-13.0	-39.0		
		2.8400	-12.6	V	3.0	39.1	1.0	-50.8	-13.0	-37.8		
		1.4200	-10.5	H	3.0	38.1	1.0	-47.6	-13.0	-34.6		
		2.1300	-15.5	H	3.0	38.5	1.0	-53.0	-13.0	-40.0		
		2.8400	-12.3	H	3.0	39.1	1.0	-50.4	-13.0	-37.4		
		High Channel (713.5MHz)										
		1.4270	-12.2	V	3.0	38.1	1.0	-49.3	-13.0	-36.3		
		2.1405	-16.0	V	3.0	38.5	1.0	-53.5	-13.0	-40.5		
		2.8540	-14.4	V	3.0	39.1	1.0	-52.6	-13.0	-39.6		
		1.4270	-10.1	H	3.0	38.1	1.0	-47.2	-13.0	-34.2		
		2.1405	-15.8	H	3.0	38.5	1.0	-53.3	-13.0	-40.3		
		2.8540	-13.6	H	3.0	39.1	1.0	-51.8	-13.0	-38.8		
		Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.										
LTE Band 17 5MHz 16QAM	Company:	Samsung										
	Project #:	4788269334										
	Date:	12-28-17										
	Test Engineer:	47989										
	Configuration:	EUT / AC Adapter / Earphone, XPosition										
	Mode:	TX, LTE BAND 17, 5MHz BW, 16QAM										
			Chamber	Pre-amplifier	Filter	Limit						
			Chamber 2	AFS42	Filter 1	FCC Part 27						
			f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
			Low Channel (706.5MHz)									
		1.4130	-11.7	V	3.0	38.1	1.0	-48.8	-13.0	-35.8		
		2.1195	-16.1	V	3.0	38.5	1.0	-53.6	-13.0	-40.6		
		2.8260	-15.6	V	3.0	39.1	1.0	-53.7	-13.0	-40.7		
		1.4130	-9.6	H	3.0	38.1	1.0	-46.7	-13.0	-33.7		
		2.1195	-17.1	H	3.0	38.5	1.0	-54.6	-13.0	-41.6		
		2.8260	-15.6	H	3.0	39.1	1.0	-53.7	-13.0	-40.7		
		Mid Channel (710MHz)										
		1.4200	-11.5	V	3.0	38.1	1.0	-48.6	-13.0	-35.6		
		2.1300	-14.5	V	3.0	38.5	1.0	-52.0	-13.0	-39.0		
		2.8400	-13.2	V	3.0	39.1	1.0	-51.3	-13.0	-38.3		
		1.4200	-10.0	H	3.0	38.1	1.0	-47.2	-13.0	-34.2		
		2.1300	-15.7	H	3.0	38.5	1.0	-53.3	-13.0	-40.3		
		2.8400	-13.0	H	3.0	39.1	1.0	-51.1	-13.0	-38.1		
		High Channel (713.5MHz)										
		1.4270	-11.8	V	3.0	38.1	1.0	-48.9	-13.0	-35.9		
		2.1405	-16.6	V	3.0	38.5	1.0	-54.1	-13.0	-41.1		
		2.8540	-14.8	V	3.0	39.1	1.0	-52.9	-13.0	-39.9		
		1.4270	-10.4	H	3.0	38.1	1.0	-47.5	-13.0	-34.5		
		2.1405	-15.3	H	3.0	38.5	1.0	-52.8	-13.0	-39.8		
		2.8540	-14.0	H	3.0	39.1	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																																																																																																																																																																																																																																						
LTE Band 5 10MHz QPSK	Company:		Samsung																																																																																																																																																																																																																																					
	Project #:		4788269334																																																																																																																																																																																																																																					
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1.6880	-9.4	V	3.0	38.2	1.0	-46.6	-13.0	-33.6																																																																																																																																																																																																																																
2.5320	-8.2	V	3.0	38.9	1.0	-46.0	-13.0	-33.0																																																																																																																																																																																																																																
3.3760	-14.4	V	3.0	39.5	1.0	-52.9	-13.0	-39.9																																																																																																																																																																																																																																
1.6880	-3.9	H	3.0	38.2	1.0	-41.1	-13.0	-28.1																																																																																																																																																																																																																																
2.5320	-6.9	H	3.0	38.9	1.0	-44.8	-13.0	-31.8																																																																																																																																																																																																																																
3.3760	-14.5	H	3.0	39.5	1.0	-53.0	-13.0	-40.0																																																																																																																																																																																																																																
		Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.																																																																																																																																																																																																																																						

		UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement										
LTE Band 5 5MHz QPSK	Company:	Samsung										
	Project #:	4788269334										
	Date:	12-27-17										
	Test Engineer:	45585										
	Configuration:	EUT / AC Adapter / Earphone, XPosition										
	Mode:	TX, LTE BAND 5, 5MHz BW, QPSK										
			Chamber		Pre-amplifier		Filter		Limit			
			Chamber 2		AFS42		Filter 1		Part 22			
			f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
			Low Channel (826.5MHz)									
			1.6530	-4.3	V	3.0	38.2	1.0	-41.6	-13.0	-28.6	
			2.4790	-12.2	V	3.0	38.8	1.0	-50.0	-13.0	-37.0	
			3.3060	-13.6	V	3.0	39.4	1.0	-52.0	-13.0	-39.0	
			1.6530	-3.3	H	3.0	38.2	1.0	-40.5	-13.0	-27.5	
			2.4790	-7.2	H	3.0	38.8	1.0	-45.0	-13.0	-32.0	
			3.3060	-14.4	H	3.0	39.4	1.0	-52.8	-13.0	-39.8	
			Mid Channel (836.5MHz)									
			1.6730	-7.6	V	3.0	38.2	1.0	-44.8	-13.0	-31.8	
			2.5090	-6.7	V	3.0	38.8	1.0	-44.5	-13.0	-31.5	
			3.3460	-14.5	V	3.0	39.5	1.0	-53.0	-13.0	-40.0	
			1.6730	-3.9	H	3.0	38.2	1.0	-41.2	-13.0	-28.2	
			2.5090	-1.3	H	3.0	38.8	1.0	-39.2	-13.0	-26.2	
			3.3460	-14.5	H	3.0	39.5	1.0	-52.9	-13.0	-39.9	
			High Channel (846.5MHz)									
			1.6930	-10.3	V	3.0	38.2	1.0	-47.6	-13.0	-34.6	
		2.5390	-10.7	V	3.0	38.9	1.0	-48.6	-13.0	-35.6		
		3.3860	-14.0	V	3.0	39.5	1.0	-52.4	-13.0	-39.4		
		1.6930	-7.1	H	3.0	38.2	1.0	-44.3	-13.0	-31.3		
		2.5390	-5.6	H	3.0	38.9	1.0	-43.5	-13.0	-30.5		
		3.3860	-14.3	H	3.0	39.5	1.0	-52.8	-13.0	-39.8		
		Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.										
LTE Band 5 5MHz 16QAM	UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement											
	Company:	Samsung										
	Project #:	4788269334										
	Date:	12-27-17										
	Test Engineer:	45585										
	Configuration:	EUT / AC Adapter / Earphone, XPosition										
	Mode:	TX, LTE BAND 5, 5MHz BW, 16QAM										
			Chamber		Pre-amplifier		Filter		Limit			
			Chamber 2		AFS42		Filter 1		Part 22			
			f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
			Low Channel (826.5MHz)									
			1.6530	-4.0	V	3.0	38.2	1.0	-41.3	-13.0	-28.3	
			2.4790	-12.5	V	3.0	38.8	1.0	-50.3	-13.0	-37.3	
			3.3060	-14.2	V	3.0	39.4	1.0	-52.6	-13.0	-39.6	
			1.6530	-3.0	H	3.0	38.2	1.0	-40.2	-13.0	-27.2	
			2.4790	-7.5	H	3.0	38.8	1.0	-45.3	-13.0	-32.3	
			3.3060	-13.9	H	3.0	39.4	1.0	-52.3	-13.0	-39.3	
			Mid Channel (836.5MHz)									
			1.6730	-7.5	V	3.0	38.2	1.0	-44.7	-13.0	-31.7	
			2.5090	-6.7	V	3.0	38.8	1.0	-44.5	-13.0	-31.5	
			3.3460	-14.1	V	3.0	39.5	1.0	-52.6	-13.0	-39.6	
			1.6730	-3.8	H	3.0	38.2	1.0	-41.1	-13.0	-28.1	
			2.5090	-1.1	H	3.0	38.8	1.0	-39.0	-13.0	-26.0	
			3.3460	-14.7	H	3.0	39.5	1.0	-53.1	-13.0	-40.1	
			High Channel (846.5MHz)									
		1.6930	-10.2	V	3.0	38.2	1.0	-47.4	-13.0	-34.4		
		2.5390	-10.4	V	3.0	38.9	1.0	-48.3	-13.0	-35.3		
		3.3860	-14.2	V	3.0	39.5	1.0	-52.6	-13.0	-39.6		
		1.6930	-6.9	H	3.0	38.2	1.0	-44.1	-13.0	-31.1		
		2.5390	-5.2	H	3.0	38.9	1.0	-43.1	-13.0	-30.1		
		3.3860	-13.9	H	3.0	39.5	1.0	-52.4	-13.0	-39.4		
		Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.										

		UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement										
LTE Band 5 3MHz QPSK	Company:	Samsung										
	Project #:	4788269334										
	Date:	12-27-17										
	Test Engineer:	45585										
	Configuration:	EUT / AC Adapter / Earphone, X Position										
	Mode:	TX, LTE BAND 5, 3MHz BW, QPSK										
			Chamber	Pre-amplifier	Filter	Limit						
			Chamber 2	AFS42	Filter 1	Part 22						
			f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
			Low Channel (825.5MHz)									
			1.6510	-3.9	V	3.0	38.2	1.0	-41.1	-13.0	-28.1	
			2.4765	-10.8	V	3.0	38.8	1.0	-48.6	-13.0	-35.6	
			3.3020	-14.6	V	3.0	39.4	1.0	-53.0	-13.0	-40.0	
			1.6510	-3.8	H	3.0	38.2	1.0	-41.0	-13.0	-28.0	
			2.4765	-7.8	H	3.0	38.8	1.0	-45.6	-13.0	-32.6	
		3.3020	-14.2	H	3.0	39.4	1.0	-52.6	-13.0	-39.6		
		Mid Channel (836.5MHz)										
		1.6730	-3.5	V	3.0	38.2	1.0	-40.7	-13.0	-27.7		
		2.5090	-6.6	V	3.0	38.8	1.0	-44.4	-13.0	-31.4		
		3.3460	-14.8	V	3.0	39.5	1.0	-53.3	-13.0	-40.3		
		1.6730	-4.0	H	3.0	38.2	1.0	-41.3	-13.0	-28.3		
		2.5090	-5.7	H	3.0	38.8	1.0	-43.5	-13.0	-30.5		
		3.3460	-14.8	H	3.0	39.5	1.0	-53.3	-13.0	-40.3		
		High Channel (847.5MHz)										
		1.6950	-8.4	V	3.0	38.2	1.0	-45.6	-13.0	-32.6		
		2.5425	-11.1	V	3.0	38.9	1.0	-48.9	-13.0	-35.9		
		3.3900	-14.1	V	3.0	39.5	1.0	-52.6	-13.0	-39.6		
		1.6950	-4.3	H	3.0	38.2	1.0	-41.6	-13.0	-28.6		
		2.5425	-5.9	H	3.0	38.9	1.0	-43.7	-13.0	-30.7		
		3.3900	-13.4	H	3.0	39.5	1.0	-51.9	-13.0	-38.9		
		Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.										
LTE Band 5 3MHz 16QAM	Company:	Samsung										
	Project #:	4788269334										
	Date:	12-27-17										
	Test Engineer:	45585										
	Configuration:	EUT / AC Adapter / Earphone, X Position										
	Mode:	TX, LTE BAND 5, 3MHz BW, 16QAM										
			Chamber	Pre-amplifier	Filter	Limit						
			Chamber 2	AFS42	Filter 1	Part 22						
			f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
			Low Channel (825.5MHz)									
			1.6510	-3.8	V	3.0	38.2	1.0	-41.0	-13.0	-28.0	
			2.4765	-11.3	V	3.0	38.8	1.0	-49.1	-13.0	-36.1	
			3.3020	-14.2	V	3.0	39.4	1.0	-52.6	-13.0	-39.6	
			1.6510	-3.4	H	3.0	38.2	1.0	-40.6	-13.0	-27.6	
			2.4765	-7.7	H	3.0	38.8	1.0	-45.5	-13.0	-32.5	
		3.3020	-14.3	H	3.0	39.4	1.0	-52.7	-13.0	-39.7		
		Mid Channel (836.5MHz)										
		1.6730	-3.1	V	3.0	38.2	1.0	-40.4	-13.0	-27.4		
		2.5090	-6.2	V	3.0	38.8	1.0	-44.1	-13.0	-31.1		
		3.3460	-15.0	V	3.0	39.5	1.0	-53.5	-13.0	-40.5		
		1.6730	-3.5	H	3.0	38.2	1.0	-40.7	-13.0	-27.7		
		2.5090	-5.4	H	3.0	38.8	1.0	-43.3	-13.0	-30.3		
		3.3460	-14.1	H	3.0	39.5	1.0	-52.5	-13.0	-39.5		
		High Channel (847.5MHz)										
		1.6950	-8.5	V	3.0	38.2	1.0	-45.7	-13.0	-32.7		
		2.5425	-10.3	V	3.0	38.9	1.0	-48.1	-13.0	-35.1		
		3.3900	-14.2	V	3.0	39.5	1.0	-52.7	-13.0	-39.7		
		1.6950	-3.1	H	3.0	38.2	1.0	-40.4	-13.0	-27.4		
		2.5425	-5.1	H	3.0	38.9	1.0	-43.0	-13.0	-30.0		
		3.3900	-14.0	H	3.0	39.5	1.0	-52.5	-13.0	-39.5		
		Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.										

		UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement									
LTE Band 5 1.4MHz QPSK	Company: Samsung										
	Project #: 4788269334										
	Date: 12-27-17										
	Test Engineer: 45585										
	Configuration: EUT / AC Adapter / Earphone, XPosition										
	Mode: TX, LTE BAND 5, 1.4MHz BW,QPSK										
	Chamber		Pre-amplifier		Filter		Limit				
	Chamber 2		AFS42		Filter 1		Part 22				
	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	
	Low Channel (824.7MHz)										
	1.6494	-3.6	V	3.0	38.2	1.0	-40.8	-13.0	-27.8		
	2.4741	-12.6	V	3.0	38.8	1.0	-50.4	-13.0	-37.4		
	3.2988	-14.8	V	3.0	39.4	1.0	-53.2	-13.0	-40.2		
	1.6494	-2.2	H	3.0	38.2	1.0	-39.4	-13.0	-26.4		
	2.4741	-7.9	H	3.0	38.8	1.0	-45.7	-13.0	-32.7		
3.2988	-14.1	H	3.0	39.4	1.0	-52.5	-13.0	-39.5			
Mid Channel (836.5MHz)											
1.6730	-4.7	V	3.0	38.2	1.0	-42.0	-13.0	-29.0			
2.5090	-10.9	V	3.0	38.8	1.0	-48.8	-13.0	-35.8			
3.3460	-14.6	V	3.0	39.5	1.0	-53.1	-13.0	-40.1			
1.6730	-4.1	H	3.0	38.2	1.0	-41.3	-13.0	-28.3			
2.5090	-5.9	H	3.0	38.8	1.0	-43.8	-13.0	-30.8			
3.3460	-14.2	H	3.0	39.5	1.0	-52.6	-13.0	-39.6			
High Channel (848.3MHz)											
1.6966	-5.6	V	3.0	38.2	1.0	-42.9	-13.0	-29.9			
2.5449	-10.6	V	3.0	38.9	1.0	-48.5	-13.0	-35.5			
3.3932	-13.3	V	3.0	39.5	1.0	-51.8	-13.0	-38.8			
1.6966	-3.0	H	3.0	38.2	1.0	-40.2	-13.0	-27.2			
2.5449	-5.9	H	3.0	38.9	1.0	-43.8	-13.0	-30.8			
3.3932	-13.5	H	3.0	39.5	1.0	-52.0	-13.0	-39.0			
Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.											
LTE Band 5 1.4MHz 16QAM	UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement										
	Company: Samsung										
	Project #: 4788269334										
	Date: 12-27-17										
	Test Engineer: 45585										
	Configuration: EUT / AC Adapter / Earphone, XPosition										
	Mode: TX, LTE BAND 5, 1.4MHz BW,16QAM										
	Chamber		Pre-amplifier		Filter		Limit				
	Chamber 2		AFS42		Filter 1		Part 22				
	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	
	Low Channel (824.7MHz)										
	1.6494	-3.8	V	3.0	38.2	1.0	-41.0	-13.0	-28.0		
	2.4741	-12.4	V	3.0	38.8	1.0	-50.2	-13.0	-37.2		
	3.2988	-14.5	V	3.0	39.4	1.0	-52.9	-13.0	-39.9		
	1.6494	-2.4	H	3.0	38.2	1.0	-39.6	-13.0	-26.6		
2.4741	-8.6	H	3.0	38.8	1.0	-46.5	-13.0	-33.5			
3.2988	-14.4	H	3.0	39.4	1.0	-52.8	-13.0	-39.8			
Mid Channel (836.5MHz)											
1.6730	-4.4	V	3.0	38.2	1.0	-41.7	-13.0	-28.7			
2.5090	-10.5	V	3.0	38.8	1.0	-48.3	-13.0	-35.3			
3.3460	-14.7	V	3.0	39.5	1.0	-53.2	-13.0	-40.2			
1.6730	-3.6	H	3.0	38.2	1.0	-40.8	-13.0	-27.8			
2.5090	-5.7	H	3.0	38.8	1.0	-43.6	-13.0	-30.6			
3.3460	-14.4	H	3.0	39.5	1.0	-52.9	-13.0	-39.9			
High Channel (848.3MHz)											
1.6966	-6.2	V	3.0	38.2	1.0	-43.4	-13.0	-30.4			
2.5449	-10.2	V	3.0	38.9	1.0	-48.1	-13.0	-35.1			
3.3932	-14.3	V	3.0	39.5	1.0	-52.8	-13.0	-39.8			
1.6966	-2.9	H	3.0	38.2	1.0	-40.2	-13.0	-27.2			
2.5449	-7.2	H	3.0	38.9	1.0	-45.1	-13.0	-32.1			
3.3932	-14.0	H	3.0	39.5	1.0	-52.5	-13.0	-39.5			
Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.											