

WCDMA Band 5

WCDMA Band 5 REL99		High Frequency Substitution Measurement UL Korea, Ltd. Suwon Laboratory Chamber 2							
		f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Margin (dB)
		Company: Samsung Project #: 15K22477 Date: 12-15-15 Test Engineer: Steven.kim Configuration: EUT ONLY, Z Position Mode: Rel_99_850 MHz Test Equipment: Receiving: VULB9163-749, and 3m Chamber N-type Cable (Setup this one for testing EUT) Substitution: Dipole S/N: 00164753, 3m SMA Cable Warehouse.							
		Low Ch							
		826.40	21.62	V	1.1	-1.5	19.01	38.5	-19.4
		826.40	4.38	H	1.1	-1.5	1.77	38.5	-36.7
		Mid Ch							
		836.60	20.65	V	1.1	-1.4	18.16	38.5	-20.3
		836.60	5.23	H	1.1	-1.4	2.74	38.5	-35.7
		High Ch							
		846.60	19.11	V	1.1	-1.3	16.73	38.5	-21.7
		846.60	6.75	H	1.1	-1.3	4.37	38.5	-34.1
		Rev. 3.17.11							

WCDMA Band 5 HSDPA		High Frequency Substitution Measurement UL Korea, Ltd. Suwon Laboratory Chamber 2							
		f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Margin (dB)
		Company: Samsung Project #: 15K22477 Date: 12-15-15 Test Engineer: Steven.kim Configuration: EUT ONLY, Z Position Mode: HSDPA_850 MHz Test Equipment: Receiving: VULB9163-749, and 3m Chamber N-type Cable (Setup this one for testing EUT) Substitution: Dipole S/N: 00164753, 3m SMA Cable Warehouse.							
		Low Ch							
		826.40	20.86	V	1.1	-1.5	18.25	38.5	-20.2
		826.40	3.71	H	1.1	-1.5	1.10	38.5	-37.4
		Mid Ch							
		836.60	19.70	V	1.1	-1.4	17.21	38.5	-21.2
		836.60	4.09	H	1.1	-1.4	1.60	38.5	-36.9
		High Ch							
		846.60	18.26	V	1.1	-1.3	15.88	38.5	-22.6
		846.60	5.84	H	1.1	-1.3	3.46	38.5	-35.0
		Rev. 3.17.11							

WCDMA Band 2

		High Frequency Substitution Measurement UL Korea, Ltd. Suwon Laboratory Chamber 2								
		f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes
WCDMA Band 2 REL99	Company: Samsung Project #: 15K22477 Date: 12-14-15 Test Engineer: Steven.kim Configuration: EUT ONLY, X Position Mode: REL99_1900 MHz Test Equipment: Receiving: 3117[00168724] and Chamber 1 SMA Cables Substitution: 3115[00161451] Substitution, 3m SMA Cable Warehouse									
	Low Ch									
	1852.40	11.31	V	1.60	8.79	18.50	33.0	-14.5		
	1852.40	15.81	H	1.60	8.79	23.00	33.0	-10.0		
	Mid Ch									
	1880.00	9.68	V	1.62	8.62	16.68	33.0	-16.3		
	1880.00	15.84	H	1.62	8.62	22.84	33.0	-10.2		
	High Ch									
	1907.60	7.01	V	1.63	8.45	13.83	33.0	-19.2		
	1907.60	16.29	H	1.63	8.45	23.11	33.0	-9.9		
	Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm									
	WCDMA Band 2 HSDPA	Company: Samsung Project #: 15K22477 Date: 12-14-15 Test Engineer: Steven.kim Configuration: EUT ONLY, X Position Mode: HSDPA_1900 MHz Test Equipment: Receiving: 3117[00168724] and Chamber 1 SMA Cables Substitution: 3115[00161451] Substitution, 3m SMA Cable Warehouse								
		Low Ch								
		1852.40	12.04	V	1.60	8.79	19.23	33.0	-13.8	
1852.40		15.64	H	1.60	8.79	22.83	33.0	-10.2		
Mid Ch										
1880.00		8.91	V	1.62	8.62	15.91	33.0	-17.1		
1880.00		14.94	H	1.62	8.62	21.94	33.0	-11.1		
High Ch										
1907.60		6.32	V	1.63	8.45	13.14	33.0	-19.9		
1907.60		15.59	H	1.63	8.45	22.41	33.0	-10.6		
Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm										

11.2. FIELD STRENGTH OF SPURIOUS RADIATION

RULE PART(S)

FCC: §2.1053, §22.917, §24.238

LIMIT

Part 22.917(a) & Part 24.238(a) 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

For Cellular equipment - Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater. In the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 100 kHz or 1 percent of emission bandwidth, as specified). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

For PCS equipment - Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 1 MHz or 1 percent of emission bandwidth, as specified). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

RESULTS

11.2.1. SPURIOUS RADIATION PLOTS

GSM 1900

GSM GSM1900 GPRS	UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement																																																																																																																																																																																																																																						
	Company: Samsung Project #: 15K22477 Date: 12-21-15 Test Engineer: Steven Kim Configuration: EUT / AC Adapter / Earphone, XPosition Mode: GPRS 1900																																																																																																																																																																																																																																						
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	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>f GHz</th> <th>SG reading (dBm)</th> <th>Ant. Pol. (H/V)</th> <th>Distance (m)</th> <th>Preamp (dB)</th> <th>Filter (dB)</th> <th>EIRP (dBm)</th> <th>Limit (dBm)</th> <th>Delta (dB)</th> <th>Notes</th> </tr> </thead> <tbody> <tr><td colspan="10">Low Ch, 1850.2MHz</td></tr> <tr><td>3.7004</td><td>-6.8</td><td>V</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-46.3</td><td>-13.0</td><td>-33.3</td><td></td></tr> <tr><td>5.5506</td><td>-8.0</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-47.8</td><td>-13.0</td><td>-34.8</td><td></td></tr> <tr><td>7.4008</td><td>5.6</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-34.2</td><td>-13.0</td><td>-21.2</td><td></td></tr> <tr><td>3.7000</td><td>-7.2</td><td>H</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-46.7</td><td>-13.0</td><td>-33.7</td><td></td></tr> <tr><td>5.5500</td><td>-8.4</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-48.2</td><td>-13.0</td><td>-35.2</td><td></td></tr> <tr><td>7.4000</td><td>4.3</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-35.5</td><td>-13.0</td><td>-22.5</td><td></td></tr> <tr><td colspan="10">Mid Ch, 1880.0MHz</td></tr> <tr><td>3.7600</td><td>-5.3</td><td>V</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-44.9</td><td>-13.0</td><td>-31.9</td><td></td></tr> <tr><td>5.6400</td><td>-6.5</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-46.3</td><td>-13.0</td><td>-33.3</td><td></td></tr> <tr><td>7.5200</td><td>8.2</td><td>V</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-31.5</td><td>-13.0</td><td>-18.5</td><td></td></tr> <tr><td>3.7600</td><td>-5.2</td><td>H</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-44.8</td><td>-13.0</td><td>-31.8</td><td></td></tr> <tr><td>5.6400</td><td>-8.7</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-48.5</td><td>-13.0</td><td>-35.5</td><td></td></tr> <tr><td>7.5200</td><td>7.9</td><td>H</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-31.8</td><td>-13.0</td><td>-18.8</td><td></td></tr> <tr><td colspan="10">High Ch, 1909.8 MHz</td></tr> <tr><td>3.8196</td><td>-7.6</td><td>V</td><td>3.0</td><td>40.6</td><td>1.0</td><td>-47.2</td><td>-13.0</td><td>-34.2</td><td></td></tr> <tr><td>5.7294</td><td>-3.8</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-43.6</td><td>-13.0</td><td>-30.6</td><td></td></tr> <tr><td>7.6392</td><td>5.7</td><td>V</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-33.9</td><td>-13.0</td><td>-20.9</td><td></td></tr> <tr><td>3.8196</td><td>-5.7</td><td>H</td><td>3.0</td><td>40.6</td><td>1.0</td><td>-45.3</td><td>-13.0</td><td>-32.3</td><td></td></tr> <tr><td>5.7294</td><td>-6.0</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-45.8</td><td>-13.0</td><td>-32.8</td><td></td></tr> <tr><td>7.6392</td><td>0.5</td><td>H</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-39.1</td><td>-13.0</td><td>-26.1</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> </tbody> </table>	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	Low Ch, 1850.2MHz										3.7004	-6.8	V	3.0	40.5	1.0	-46.3	-13.0	-33.3		5.5506	-8.0	V	3.0	40.8	1.0	-47.8	-13.0	-34.8		7.4008	5.6	V	3.0	40.8	1.0	-34.2	-13.0	-21.2		3.7000	-7.2	H	3.0	40.5	1.0	-46.7	-13.0	-33.7		5.5500	-8.4	H	3.0	40.8	1.0	-48.2	-13.0	-35.2		7.4000	4.3	H	3.0	40.8	1.0	-35.5	-13.0	-22.5		Mid Ch, 1880.0MHz										3.7600	-5.3	V	3.0	40.5	1.0	-44.9	-13.0	-31.9		5.6400	-6.5	V	3.0	40.8	1.0	-46.3	-13.0	-33.3		7.5200	8.2	V	3.0	40.7	1.0	-31.5	-13.0	-18.5		3.7600	-5.2	H	3.0	40.5	1.0	-44.8	-13.0	-31.8		5.6400	-8.7	H	3.0	40.8	1.0	-48.5	-13.0	-35.5		7.5200	7.9	H	3.0	40.7	1.0	-31.8	-13.0	-18.8		High Ch, 1909.8 MHz										3.8196	-7.6	V	3.0	40.6	1.0	-47.2	-13.0	-34.2		5.7294	-3.8	V	3.0	40.8	1.0	-43.6	-13.0	-30.6		7.6392	5.7	V	3.0	40.7	1.0	-33.9	-13.0	-20.9		3.8196	-5.7	H	3.0	40.6	1.0	-45.3	-13.0	-32.3		5.7294	-6.0	H	3.0	40.8	1.0	-45.8	-13.0	-32.8		7.6392	0.5	H	3.0	40.7	1.0	-39.1	-13.0	-26.1		Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.									
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7.4000	4.3	H	3.0	40.8	1.0	-35.5	-13.0	-22.5																																																																																																																																																																																																																															
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7.5200	8.2	V	3.0	40.7	1.0	-31.5	-13.0	-18.5																																																																																																																																																																																																																															
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WCDMA Band 5

		UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement									
WCDMA Band 5 REL99	Company:	Samsung									
	Project #:	15K22477									
	Date:	12-15-15									
	Test Engineer:	Steven.kim									
	Configuration:	EUT / AC Adapter / Ear Phone / Z-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)	Pre amp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	
	Low Ch, 826.40MHz										
1.6520	-18.7	V	3.0	39.1	1.0	-56.8	-13.0	-43.8			
2.4790	-17.9	V	3.0	39.5	1.0	-56.4	-13.0	-43.4			
3.3056	-13.3	V	3.0	40.1	1.0	-52.4	-13.0	-39.4			
1.6520	-17.1	H	3.0	39.1	1.0	-55.2	-13.0	-42.2			
2.4790	-18.4	H	3.0	39.5	1.0	-56.9	-13.0	-43.9			
3.3056	-14.0	H	3.0	40.1	1.0	-53.1	-13.0	-40.1			
Mid Ch, 836.6MHz											
1.6732	-18.9	V	3.0	39.1	1.0	-57.0	-13.0	-44.0			
2.5098	-17.6	V	3.0	39.5	1.0	-56.2	-13.0	-43.2			
3.3464	-13.8	V	3.0	40.1	1.0	-53.0	-13.0	-40.0			
1.6732	-17.8	H	3.0	39.1	1.0	-55.9	-13.0	-42.9			
2.5098	-18.1	H	3.0	39.5	1.0	-56.6	-13.0	-43.6			
3.3464	-14.4	H	3.0	40.1	1.0	-53.5	-13.0	-40.5			
High Ch, 846.6MHz											
1.6932	-17.9	V	3.0	39.1	1.0	-56.0	-13.0	-43.0			
2.5390	-18.0	V	3.0	39.6	1.0	-56.5	-13.0	-43.5			
3.3860	-15.4	V	3.0	40.2	1.0	-54.5	-13.0	-41.5			
1.6932	-16.6	H	3.0	39.1	1.0	-54.8	-13.0	-41.8			
2.5390	-18.3	H	3.0	39.6	1.0	-56.8	-13.0	-43.8			
3.3860	-15.4	H	3.0	40.2	1.0	-54.6	-13.0	-41.6			
Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.											

		UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement									
WCDMA Band 5 HSDPA	Company:	Samsung									
	Project #:	15K22477									
	Date:	12-15-15									
	Test Engineer:	Steven.kim									
	Configuration:	EUT / AC Adapter / Ear Phone / Z-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)	Pre amp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	
	Low Ch, 826.40MHz										
1.6520	-19.9	V	3.0	39.1	1.0	-58.0	-13.0	-45.0			
2.4790	-18.1	V	3.0	39.5	1.0	-56.7	-13.0	-43.7			
3.3056	-13.4	V	3.0	40.1	1.0	-52.5	-13.0	-39.5			
1.6520	-18.4	H	3.0	39.1	1.0	-56.5	-13.0	-43.5			
2.4790	-18.1	H	3.0	39.5	1.0	-56.6	-13.0	-43.6			
3.3056	-14.7	H	3.0	40.1	1.0	-53.8	-13.0	-40.8			
Mid Ch, 836.6MHz											
1.6732	-19.3	V	3.0	39.1	1.0	-57.4	-13.0	-44.4			
2.5098	-18.4	V	3.0	39.5	1.0	-56.9	-13.0	-43.9			
3.3464	-14.8	V	3.0	40.1	1.0	-54.0	-13.0	-41.0			
1.6732	-19.2	H	3.0	39.1	1.0	-57.3	-13.0	-44.3			
2.5098	-18.7	H	3.0	39.5	1.0	-57.3	-13.0	-44.3			
3.3464	-15.4	H	3.0	40.1	1.0	-54.6	-13.0	-41.6			
High Ch, 846.6MHz											
1.6932	-18.7	V	3.0	39.1	1.0	-56.8	-13.0	-43.8			
2.5390	-18.2	V	3.0	39.6	1.0	-56.7	-13.0	-43.7			
3.3860	-16.0	V	3.0	40.2	1.0	-55.2	-13.0	-42.2			
1.6932	-18.3	H	3.0	39.1	1.0	-56.4	-13.0	-43.4			
2.5390	-18.5	H	3.0	39.6	1.0	-57.1	-13.0	-44.1			
3.3860	-16.8	H	3.0	40.2	1.0	-55.9	-13.0	-42.9			
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																																																																																																																																																																																																																																							
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	Test Engineer: Steven Kim																																																																																																																																																																																																																																							
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3.7600	-6.6	H	3.0	40.5	1.0	-46.1	-13.0	-33.1																																																																																																																																																																																																																																
5.6400	-10.0	H	3.0	40.8	1.0	-49.8	-13.0	-36.8																																																																																																																																																																																																																																
7.5200	-6.0	H	3.0	40.7	1.0	-45.8	-13.0	-32.8																																																																																																																																																																																																																																
High Ch, 1907.6MHz																																																																																																																																																																																																																																								
3.8152	-4.9	V	3.0	40.6	1.0	-44.5	-13.0	-31.5																																																																																																																																																																																																																																
5.7228	-10.5	V	3.0	40.8	1.0	-50.3	-13.0	-37.3																																																																																																																																																																																																																																
7.6304	-3.4	V	3.0	40.7	1.0	-43.1	-13.0	-30.1																																																																																																																																																																																																																																
3.8152	-7.9	H	3.0	40.6	1.0	-47.5	-13.0	-34.5																																																																																																																																																																																																																																
5.7228	-10.5	H	3.0	40.8	1.0	-50.3	-13.0	-37.3																																																																																																																																																																																																																																
7.6304	-6.1	H	3.0	40.7	1.0	-45.8	-13.0	-32.8																																																																																																																																																																																																																																
		Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.																																																																																																																																																																																																																																						