

**11.1.2. ERP/EIRP DATA**

**GSM 850**

		High Frequency Substitution Measurement UL Korea, Ltd. Suwon Laboratory Chamber 2								
		Company: Samsung Project #: 16K22741 Date: 02-13-16 Test Engineer: Steven Kim Configuration: EUT ONLY, Y Position Mode: GPRS 850 MHz  <u>Test Equipment:</u> Receiving: VULB9163-749, and 3m Chamber N-type Cable (Setup this one for testing EUT) Substitution: Dipole S/N: 00164753, 3m SMA Cable Warehouse.								
		f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Margin (dB)	Notes
GSM GSM850 GPRS	Low Ch									
		824.20	28.22	V	1.1	-1.6	25.60	38.5	-12.9	
		824.20	24.95	H	1.1	-1.6	22.33	38.5	-16.1	
	Mid Ch									
		836.60	28.70	V	1.1	-1.4	26.21	38.5	-12.2	
		836.60	25.86	H	1.1	-1.4	23.37	38.5	-15.1	
	High Ch									
		848.80	28.49	V	1.1	-1.3	26.13	38.5	-12.3	
		848.80	25.36	H	1.1	-1.3	23.00	38.5	-15.5	
			Rev. 3.17.11 Note: For Band 13/17 ERP limit is 34.77dBm; For Band 26 limit is 50dBm							
		High Frequency Substitution Measurement UL Korea, Ltd. Suwon Laboratory Chamber 2								
		Company: Samsung Project #: 16K22741 Date: 02-13-16 Test Engineer: Steven Kim Configuration: EUT ONLY, Y Position Mode: EGPRS 850 MHz  <u>Test Equipment:</u> Receiving: VULB9163-749, and 3m Chamber N-type Cable (Setup this one for testing EUT) Substitution: Dipole S/N: 00164753, 3m SMA Cable Warehouse.								
		f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Margin (dB)	Notes
GSM GSM850 EGPRS	Low Ch									
		824.20	21.85	V	1.1	-1.6	19.23	38.5	-19.2	
		824.20	20.04	H	1.1	-1.6	17.42	38.5	-21.0	
	Mid Ch									
		836.60	23.52	V	1.1	-1.4	21.03	38.5	-17.4	
		836.60	20.12	H	1.1	-1.4	17.63	38.5	-20.8	
	High Ch									
		848.80	24.72	V	1.1	-1.3	22.36	38.5	-16.1	
		848.80	21.46	H	1.1	-1.3	19.10	38.5	-19.4	
			Rev. 3.17.11 Note: For Band 13/17 ERP limit is 34.77dBm; For Band 26 limit is 50dBm							

**GSM 1900**

GSM GSM1900 GPRS		High Frequency Substitution Measurement UL Korea, Ltd. Suwon Laboratory Chamber 2										
		f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes		
GSM GSM1900 EGPRS		Company: Samsung Project #: 16K22741 Date: 02-13-16 Test Engineer: Steven Kim Configuration: EUT ONLY, X Position Mode: GPRS 1900MHz  <u>Test Equipment:</u> Receiving: 3117[00168724] and Chamber 1 SMA Cables Substitution: 3115[00161451] Substitution, 3m SMA Cable Warehouse										
		Low Ch										
		1850.20	16.8	V	1.60	8.80	23.98	33.0	-9.0			
		1850.20	23.0	H	1.60	8.80	30.22	33.0	-2.8			
		Mid Ch										
		1880.00	9.6	V	1.62	8.62	16.55	33.0	-16.4			
		1880.00	23.3	H	1.62	8.62	30.26	33.0	-2.7			
		High Ch										
		1909.80	8.9	V	1.63	8.44	15.71	33.0	-17.3			
		1909.80	22.7	H	1.63	8.44	29.54	33.0	-3.5			
		Rev. 3.17.11										
		GSM GSM1900 EGPRS		Company: Samsung Project #: 16K22741 Date: 02-13-16 Test Engineer: Steven Kim Configuration: EUT ONLY, X Position Mode: EGPRS 1900MHz  <u>Test Equipment:</u> Receiving: 3117[00168724] and Chamber 1 SMA Cables Substitution: 3115[00161451] Substitution, 3m SMA Cable Warehouse								
				Low Ch								
				1850.20	14.7	V	1.60	8.80	21.94	33.0	-11.1	
1850.20	20.7			H	1.60	8.80	27.87	33.0	-5.1			
Mid Ch												
1880.00	6.4			V	1.62	8.62	13.43	33.0	-19.6			
1880.00	20.2			H	1.62	8.62	27.23	33.0	-5.8			
High Ch												
1909.80	6.3			V	1.63	8.44	13.14	33.0	-19.9			
1909.80	19.7			H	1.63	8.44	26.51	33.0	-6.5			
Rev. 3.17.11												

**WCDMA Band 5**

WCDMA Band 5 REL99	<p align="center"><b>High Frequency Substitution Measurement</b>  <b>UL Korea, Ltd. Suwon Laboratory Chamber 2</b></p> <p><b>Company:</b> Samsung  <b>Project #:</b> 16K22741  <b>Date:</b> 02-13-16  <b>Test Engineer:</b> Steven Kim  <b>Configuration:</b> EUT ONLY, Y Position  <b>Mode:</b> Rel 99_850 MHz</p> <p><b>Test Equipment:</b>  <b>Receiving:</b> VULB9163-749, and 3m Chamber N-type Cable (Setup this one for testing EUT)  <b>Substitution:</b> Dipole S/N: 00164753, 3m SMA Cable Warehouse.</p> <table border="1"> <thead> <tr> <th>f MHz</th> <th>SG reading (dBm)</th> <th>Ant. Pol. (H/V)</th> <th>Cable Loss (dB)</th> <th>Antenna Gain (dBd)</th> <th>ERP (dBm)</th> <th>Limit (dBm)</th> <th>Margin (dB)</th> <th>Notes</th> </tr> </thead> <tbody> <tr> <td colspan="9">Low Ch</td> </tr> <tr> <td>826.40</td> <td>17.95</td> <td>V</td> <td>1.1</td> <td>-1.5</td> <td>15.34</td> <td>38.5</td> <td>-23.1</td> <td></td> </tr> <tr> <td>826.40</td> <td>14.41</td> <td>H</td> <td>1.1</td> <td>-1.5</td> <td>11.80</td> <td>38.5</td> <td>-26.7</td> <td></td> </tr> <tr> <td colspan="9">Mid Ch</td> </tr> <tr> <td>836.60</td> <td>17.69</td> <td>V</td> <td>1.1</td> <td>-1.4</td> <td>15.20</td> <td>38.5</td> <td>-23.3</td> <td></td> </tr> <tr> <td>836.60</td> <td>14.15</td> <td>H</td> <td>1.1</td> <td>-1.4</td> <td>11.66</td> <td>38.5</td> <td>-26.8</td> <td></td> </tr> <tr> <td colspan="9">High Ch</td> </tr> <tr> <td>846.60</td> <td>18.01</td> <td>V</td> <td>1.1</td> <td>-1.3</td> <td>15.63</td> <td>38.5</td> <td>-22.8</td> <td></td> </tr> <tr> <td>846.60</td> <td>14.56</td> <td>H</td> <td>1.1</td> <td>-1.3</td> <td>12.18</td> <td>38.5</td> <td>-26.3</td> <td></td> </tr> </tbody> </table> <p>Rev. 3.17.11</p>								f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Margin (dB)	Notes	Low Ch									826.40	17.95	V	1.1	-1.5	15.34	38.5	-23.1		826.40	14.41	H	1.1	-1.5	11.80	38.5	-26.7		Mid Ch									836.60	17.69	V	1.1	-1.4	15.20	38.5	-23.3		836.60	14.15	H	1.1	-1.4	11.66	38.5	-26.8		High Ch									846.60	18.01	V	1.1	-1.3	15.63	38.5	-22.8		846.60	14.56	H	1.1	-1.3	12.18	38.5	-26.3	
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WCDMA Band 5 HSDPA	<p align="center"><b>High Frequency Substitution Measurement</b>  <b>UL Korea, Ltd. Suwon Laboratory Chamber 2</b></p> <p><b>Company:</b> Samsung  <b>Project #:</b> 16K22741  <b>Date:</b> 02-13-16  <b>Test Engineer:</b> Steven Kim  <b>Configuration:</b> EUT ONLY, Y Position  <b>Mode:</b> HSDPA_850 MHz</p> <p><b>Test Equipment:</b>  <b>Receiving:</b> VULB9163-749, and 3m Chamber N-type Cable (Setup this one for testing EUT)  <b>Substitution:</b> Dipole S/N: 00164753, 3m SMA Cable Warehouse.</p> <table border="1"> <thead> <tr> <th>f MHz</th> <th>SG reading (dBm)</th> <th>Ant. Pol. (H/V)</th> <th>Cable Loss (dB)</th> <th>Antenna Gain (dBd)</th> <th>ERP (dBm)</th> <th>Limit (dBm)</th> <th>Margin (dB)</th> <th>Notes</th> </tr> </thead> <tbody> <tr> <td colspan="9">Low Ch</td> </tr> <tr> <td>826.40</td> <td>14.83</td> <td>V</td> <td>1.1</td> <td>-1.5</td> <td>12.22</td> <td>38.5</td> <td>-26.2</td> <td></td> </tr> <tr> <td>826.40</td> <td>11.47</td> <td>H</td> <td>1.1</td> <td>-1.5</td> <td>8.86</td> <td>38.5</td> <td>-29.6</td> <td></td> </tr> <tr> <td colspan="9">Mid Ch</td> </tr> <tr> <td>836.60</td> <td>16.08</td> <td>V</td> <td>1.1</td> <td>-1.4</td> <td>13.59</td> <td>38.5</td> <td>-24.9</td> <td></td> </tr> <tr> <td>836.60</td> <td>12.81</td> <td>H</td> <td>1.1</td> <td>-1.4</td> <td>10.32</td> <td>38.5</td> <td>-28.1</td> <td></td> </tr> <tr> <td colspan="9">High Ch</td> </tr> <tr> <td>846.60</td> <td>17.88</td> <td>V</td> <td>1.1</td> <td>-1.3</td> <td>15.50</td> <td>38.5</td> <td>-23.0</td> <td></td> </tr> <tr> <td>846.60</td> <td>15.81</td> <td>H</td> <td>1.1</td> <td>-1.3</td> <td>13.43</td> <td>38.5</td> <td>-25.0</td> <td></td> </tr> </tbody> </table> <p>Rev. 3.17.11</p>								f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Margin (dB)	Notes	Low Ch									826.40	14.83	V	1.1	-1.5	12.22	38.5	-26.2		826.40	11.47	H	1.1	-1.5	8.86	38.5	-29.6		Mid Ch									836.60	16.08	V	1.1	-1.4	13.59	38.5	-24.9		836.60	12.81	H	1.1	-1.4	10.32	38.5	-28.1		High Ch									846.60	17.88	V	1.1	-1.3	15.50	38.5	-23.0		846.60	15.81	H	1.1	-1.3	13.43	38.5	-25.0	
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Margin (dB)	Notes																																																																																										
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826.40	11.47	H	1.1	-1.5	8.86	38.5	-29.6																																																																																											
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836.60	16.08	V	1.1	-1.4	13.59	38.5	-24.9																																																																																											
836.60	12.81	H	1.1	-1.4	10.32	38.5	-28.1																																																																																											
High Ch																																																																																																		
846.60	17.88	V	1.1	-1.3	15.50	38.5	-23.0																																																																																											
846.60	15.81	H	1.1	-1.3	13.43	38.5	-25.0																																																																																											

**WCDMA Band 2**

WCDMA Band 2 REL99		High Frequency Substitution Measurement UL Korea, Ltd. Suwon Laboratory Chamber 2							
		Company: Samsung Project #: 16K22741 Date: 02-13-16 Test Engineer: Steven.Kim Configuration: EUT ONLY, X Position Mode: REL99_1900 MHz  <u>Test Equipment:</u> Receiving: 3117[00168724] and Chamber 1 SMA Cables Substitution: 3115[00161451] Substitution, 3m SMA Cable Warehouse							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes	
Low Ch									
1852.40	1.65	V	1.60	8.79	8.84	33.0	-24.2		
1852.40	14.12	H	1.60	8.79	21.31	33.0	-11.7		
Mid Ch									
1880.00	0.46	V	1.62	8.62	7.46	33.0	-25.5		
1880.00	13.93	H	1.62	8.62	20.93	33.0	-12.1		
High Ch									
1907.60	1.64	V	1.63	8.45	8.46	33.0	-24.5		
1907.60	14.68	H	1.63	8.45	21.50	33.0	-11.5		
Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm									
WCDMA Band 2 HSDPA		High Frequency Substitution Measurement UL Korea, Ltd. Suwon Laboratory Chamber 2							
		Company: Samsung Project #: 16K22741 Date: 02-13-16 Test Engineer: Steven.Kim Configuration: EUT ONLY, X Position Mode: HSDPA_1900 MHz  <u>Test Equipment:</u> Receiving: 3117[00168724] and Chamber 1 SMA Cables Substitution: 3115[00161451] Substitution, 3m SMA Cable Warehouse							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes	
Low Ch									
1852.40	0.33	V	1.60	8.79	7.52	33.0	-25.5		
1852.40	12.88	H	1.60	8.79	20.07	33.0	-12.9		
Mid Ch									
1880.00	5.30	V	1.62	8.62	12.30	33.0	-20.7		
1880.00	14.20	H	1.62	8.62	21.20	33.0	-11.8		
High Ch									
1907.60	3.58	V	1.63	8.45	10.40	33.0	-22.6		
1907.60	14.65	H	1.63	8.45	21.47	33.0	-11.5		
Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm									

**LTE Band 5**

		High Frequency Substitution Measurement UL Korea, Ltd. Suwon Laboratory Chamber 2								
LTE Band 5 10MHz QPSK	Company:		Samsung							
	Project #:		16K22741							
	Date:		02-13-16							
	Test Engineer:		Steven.Kim							
	Configuration:		EUT ONLY, Y Position							
	Mode:		TX, LTE BAND 5, 10MHz BW,QPSK							
	<b>Test Equipment:</b>									
	Receiving:		VULB9163-749, and 3m Chamber N-type Cable (Setup this one for testing EUT)							
	Substitution:		Dipole S/N: 00164753, 3m SMA Cable Warehouse.							
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Margin (dB)	Notes	
	Low Ch									
	829.00	17.12	V	1.1	-1.5	14.54	38.5	-23.9		
	829.00	13.74	H	1.1	-1.5	11.16	38.5	-27.3		
	Mid Ch									
	836.50	16.10	V	1.1	-1.4	13.61	38.5	-24.8		
836.50	12.68	H	1.1	-1.4	10.19	38.5	-28.3			
High Ch										
844.00	16.80	V	1.1	-1.3	14.41	38.5	-24.0			
844.00	12.11	H	1.1	-1.3	9.69	38.5	-28.8			
Rev. 3.17.11 Note: For Band 13/17 ERP limit is 34.77dBm; For Band 26 limit is 50dBm										
		High Frequency Substitution Measurement UL Korea, Ltd. Suwon Laboratory Chamber 2								
LTE Band 5 10MHz 16QAM	Company:		Samsung							
	Project #:		16K22741							
	Date:		02-13-16							
	Test Engineer:		Steven.Kim							
	Configuration:		EUT ONLY, Y Position							
	Mode:		LTE5 10MHz FUND 16QAM							
	<b>Test Equipment:</b>									
	Receiving:		VULB9163-749, and 3m Chamber N-type Cable (Setup this one for testing EUT)							
	Substitution:		Dipole S/N: 00164753, 3m SMA Cable Warehouse.							
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Margin (dB)	Notes	
	Low Ch									
	829.00	16.45	V	1.1	-1.5	13.87	38.5	-24.6		
	829.00	13.07	H	1.1	-1.5	10.49	38.5	-28.0		
	Mid Ch									
	836.50	15.39	V	1.1	-1.4	12.88	38.5	-25.6		
836.50	11.95	H	1.1	-1.4	9.44	38.5	-29.0			
High Ch										
844.00	16.01	V	1.1	-1.3	13.59	38.5	-24.9			
844.00	11.31	H	1.1	-1.3	8.89	38.5	-29.6			
Rev. 3.17.11 Note: For Band 13/17 ERP limit is 34.77dBm; For Band 26 limit is 50dBm										

		High Frequency Substitution Measurement UL Korea, Ltd. Suwon Laboratory Chamber 2									
LTE Band 5 5MHz QPSK	Company:		Samsung								
	Project #:		16K22741								
	Date:		02-13-16								
	Test Engineer:		Steven.Kim								
	Configuration:		EUT ONLY, Y Position								
	Mode:		LTE5 5MHz FUND QPSK								
	<b>Test Equipment:</b>		Receiving: VULB9163-749, and 3m Chamber N-type Cable (Setup this one for testing EUT) Substitution: Dipole S/N: 00164753, 3m SMA Cable Warehouse.								
			<b>f</b>	<b>SG reading</b>	<b>Ant. Pol.</b>	<b>Cable Loss</b>	<b>Antenna Gain</b>	<b>ERP</b>	<b>Limit</b>	<b>Margin</b>	<b>Notes</b>
			<b>MHz</b>	<b>(dBm)</b>	<b>(H/V)</b>	<b>(dB)</b>	<b>(dBd)</b>	<b>(dBm)</b>	<b>(dBm)</b>	<b>(dB)</b>	
			Low Ch								
		826.50	16.42	V	1.1	-1.5	13.82	38.5	-24.6		
		826.50	13.50	H	1.1	-1.5	10.90	38.5	-27.6		
		Mid Ch									
		836.50	15.80	V	1.1	-1.4	13.31	38.5	-25.1		
		836.50	13.72	H	1.1	-1.4	11.23	38.5	-27.2		
		High Ch									
		846.50	16.09	V	1.6	-1.3	13.21	38.5	-25.2		
		846.50	14.58	H	1.6	-1.3	11.70	38.5	-26.7		
		Rev. 3.17.11 Note: For Band 13/17 ERP limit is 34.77dBm; For Band 26 limit is 50dBm									
		High Frequency Substitution Measurement UL Korea, Ltd. Suwon Laboratory Chamber 2									
LTE Band 5 5MHz 16QAM	Company:		Samsung								
	Project #:		16K22741								
	Date:		02-13-16								
	Test Engineer:		Steven.Kim								
	Configuration:		EUT ONLY, Y Position								
	Mode:		LTE5 5MHz FUND 16QAM								
	<b>Test Equipment:</b>		Receiving: VULB9163-749, and 3m Chamber N-type Cable (Setup this one for testing EUT) Substitution: Dipole S/N: 00164753, 3m SMA Cable Warehouse.								
			<b>f</b>	<b>SG reading</b>	<b>Ant. Pol.</b>	<b>Cable Loss</b>	<b>Antenna Gain</b>	<b>ERP</b>	<b>Limit</b>	<b>Margin</b>	<b>Notes</b>
			<b>MHz</b>	<b>(dBm)</b>	<b>(H/V)</b>	<b>(dB)</b>	<b>(dBd)</b>	<b>(dBm)</b>	<b>(dBm)</b>	<b>(dB)</b>	
			Low Ch								
		826.50	15.49	V	1.1	-1.5	12.89	38.5	-25.6		
		826.50	12.66	H	1.1	-1.5	10.06	38.5	-28.4		
		Mid Ch									
		836.50	15.00	V	1.1	-1.4	12.51	38.5	-25.9		
		836.50	12.62	H	1.1	-1.4	10.13	38.5	-28.3		
		High Ch									
		846.50	15.48	V	1.1	-1.3	13.10	38.5	-25.4		
		846.50	13.79	H	1.1	-1.3	11.41	38.5	-27.0		
		Rev. 3.17.11 Note: For Band 13/17 ERP limit is 34.77dBm; For Band 26 limit is 50dBm									

		High Frequency Substitution Measurement UL Korea, Ltd. Suwon Laboratory Chamber 2								
LTE Band 5 3MHz QPSK	Company:		Samsung							
	Project #:		16K22741							
	Date:		02-16-16							
	Test Engineer:		Steven Kim							
	Configuration:		EUT ONLY, Y Position							
	Mode:		LTE5 3MHz FUND QPSK							
	<b>Test Equipment:</b>									
	Receiving:		VULB9163-749, and 3m Chamber N-type Cable (Setup this one for testing EUT)							
	Substitution:		Dipole S/N: 00164753, 3m SMA Cable Warehouse.							
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Margin (dB)	Notes	
	Low Ch									
	825.50	17.01	V	1.1	-1.5	14.41	38.5	-24.0		
	825.50	11.58	H	1.1	-1.5	8.98	38.5	-29.5		
Mid Ch										
836.50	15.65	V	1.1	-1.4	13.16	38.5	-25.3			
836.50	11.80	H	1.1	-1.4	9.31	38.5	-29.1			
High Ch										
847.50	16.09	V	1.6	-1.3	13.21	38.5	-25.2			
847.50	13.28	H	1.6	-1.3	10.40	38.5	-28.0			
Rev. 3.17.11 Note: For Band 13/17 ERP limit is 34.77dBm; For Band 26 limit is 50dBm										
		High Frequency Substitution Measurement UL Korea, Ltd. Suwon Laboratory Chamber 2								
Company:		Samsung								
Project #:		16K22741								
Date:		02-16-16								
Test Engineer:		Steven Kim								
Configuration:		EUT ONLY, Y Position								
Mode:		LTE5 3MHz FUND 16QAM								
<b>Test Equipment:</b>										
Receiving:		VULB9163-749, and 3m Chamber N-type Cable (Setup this one for testing EUT)								
Substitution:		Dipole S/N: 00164753, 3m SMA Cable Warehouse.								
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Margin (dB)	Notes		
Low Ch										
825.50	16.26	V	1.1	-1.5	13.66	38.5	-24.8			
825.50	10.83	H	1.1	-1.5	8.23	38.5	-30.2			
Mid Ch										
836.50	14.89	V	1.1	-1.4	12.40	38.5	-26.1			
836.50	11.02	H	1.1	-1.4	8.53	38.5	-29.9			
High Ch										
847.50	15.27	V	1.1	-1.3	12.89	38.5	-25.6			
847.50	12.49	H	1.1	-1.3	10.11	38.5	-28.3			
Rev. 3.17.11 Note: For Band 13/17 ERP limit is 34.77dBm; For Band 26 limit is 50dBm										
LTE Band 5 3MHz 16QAM										

		<b>High Frequency Substitution Measurement UL Korea, Ltd. Suwon Laboratory Chamber 2</b>							
LTE Band 5 1.4MHz QPSK	<b>Company:</b> Samsung <b>Project #:</b> 16K22741 <b>Date:</b> 02-16-16 <b>Test Engineer:</b> Steven Kim <b>Configuration:</b> EUT ONLY, Y Position <b>Mode:</b> LTE5 1.4MHz FUND QPSK								
	<b>Test Equipment:</b> Receiving: VULB9163-749, and 3m Chamber N-type Cable (Setup this one for testing EUT) Substitution: Dipole S/N: 00164753, 3m SMA Cable Warehouse.								
	f	SG reading	Ant. Pol.	Cable Loss	Antenna Gain	ERP	Limit	Margin	Notes
	MHz	(dBm)	(H/V)	(dB)	(dBd)	(dBm)	(dBm)	(dB)	
	Low Ch								
	824.70	15.04	V	1.1	-1.5	12.44	38.5	-26.0	
	824.70	10.80	H	1.1	-1.5	8.20	38.5	-30.3	
	Mid Ch								
	836.50	14.17	V	1.1	-1.4	11.68	38.5	-26.8	
	836.50	11.08	H	1.1	-1.4	8.59	38.5	-29.9	
	High Ch								
	848.30	14.25	V	1.6	-1.3	11.37	38.5	-27.1	
	848.30	12.61	H	1.6	-1.3	9.73	38.5	-28.7	
	Rev. 3.17.11 Note: For Band 13/17 ERP limit is 34.77dBm; For Band 26 limit is 50dBm								
LTE Band 5 1.4MHz 16QAM	<b>Company:</b> Samsung <b>Project #:</b> 16K22741 <b>Date:</b> 02-16-16 <b>Test Engineer:</b> Steven Kim <b>Configuration:</b> EUT ONLY, Y Position <b>Mode:</b> LTE5 1.4MHz FUND 16QAM								
	<b>Test Equipment:</b> Receiving: VULB9163-749, and 3m Chamber N-type Cable (Setup this one for testing EUT) Substitution: Dipole S/N: 00164753, 3m SMA Cable Warehouse.								
	f	SG reading	Ant. Pol.	Cable Loss	Antenna Gain	ERP	Limit	Margin	Notes
	MHz	(dBm)	(H/V)	(dB)	(dBd)	(dBm)	(dBm)	(dB)	
	Low Ch								
	824.70	14.12	V	1.1	-1.5	11.52	38.5	-26.9	
	824.70	9.80	H	1.1	-1.5	7.20	38.5	-31.3	
	Mid Ch								
	836.50	13.14	V	1.1	-1.4	10.65	38.5	-27.8	
	836.50	9.93	H	1.1	-1.4	7.44	38.5	-31.0	
	High Ch								
	848.30	13.32	V	1.1	-1.3	10.94	38.5	-27.5	
	848.30	11.74	H	1.1	-1.3	9.36	38.5	-29.1	
	Rev. 3.17.11 Note: For Band 13/17 ERP limit is 34.77dBm; For Band 26 limit is 50dBm								

## 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 850

		UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement										
GSM GSM850 GPRS	Company:	Samsung										
	Project #:	16K22741										
	Date:	02-15-16										
	Test Engineer:	Steven Kim										
	Configuration:	EUT / AC Adapter / Earphone, Y Position										
	Mode:	GPRS 850 MHz										
			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, 824.2MHz									
		1.6484	5.6	V	3.0	39.1	1.0	-32.5	-13.0	-19.5		
		2.4726	3.5	V	3.0	39.5	1.0	-35.0	-13.0	-22.0		
		3.2968	-16.8	V	3.0	40.1	1.0	-55.9	-13.0	-42.9		
		1.6484	0.6	H	3.0	39.1	1.0	-37.5	-13.0	-24.5		
		2.4726	3.8	H	3.0	39.5	1.0	-34.8	-13.0	-21.8		
		3.2968	-15.5	H	3.0	40.1	1.0	-54.6	-13.0	-41.6		
		Mid Ch, 836.6MHz										
		1.6730	9.8	V	3.0	39.1	1.0	-28.3	-13.0	-15.3		
		2.5098	3.9	V	3.0	39.5	1.0	-34.6	-13.0	-21.6		
		3.3464	-16.8	V	3.0	40.1	1.0	-55.9	-13.0	-42.9		
		1.6730	1.3	H	3.0	39.1	1.0	-36.8	-13.0	-23.8		
		2.5098	8.5	H	3.0	39.5	1.0	-30.0	-13.0	-17.0		
		3.3464	-16.1	H	3.0	40.1	1.0	-55.2	-13.0	-42.2		
		High Ch, 848.8MHz										
		1.6976	3.5	V	3.0	39.1	1.0	-34.6	-13.0	-21.6		
		2.5466	8.4	V	3.0	39.6	1.0	-30.1	-13.0	-17.1		
		3.3952	-16.4	V	3.0	40.2	1.0	-55.6	-13.0	-42.6		
		1.6976	0.1	H	3.0	39.1	1.0	-38.0	-13.0	-25.0		
		2.5466	3.5	H	3.0	39.6	1.0	-35.0	-13.0	-22.0		
		3.3952	-16.2	H	3.0	40.2	1.0	-55.4	-13.0	-42.4		
		Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.										
GSM GSM850 EGPRS	UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement											
	Company:	Samsung										
	Project #:	16K22741										
	Date:	02-15-16										
	Test Engineer:	Steven Kim										
	Configuration:	EUT / AC Adapter / Earphone, Y Position										
	Mode:	EGPRS 850 MHz										
			Chamber	Pre-amplifier	Filter	Limit						
			Chamber 1	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, 824.2MHz										
		1.6484	-2.8	V	3.0	39.1	1.0	-40.9	-13.0	-27.9		
		2.4726	-7.4	V	3.0	39.5	1.0	-45.9	-13.0	-32.9		
		3.2968	-17.5	V	3.0	40.1	1.0	-56.6	-13.0	-43.6		
		1.6484	-8.8	H	3.0	39.1	1.0	-46.9	-13.0	-33.9		
		2.4726	-7.5	H	3.0	39.5	1.0	-46.0	-13.0	-33.0		
		3.2968	-17.3	H	3.0	40.1	1.0	-56.4	-13.0	-43.4		
		Mid Ch, 836.6MHz										
		1.6730	-2.8	V	3.0	39.1	1.0	-40.9	-13.0	-27.9		
		2.5098	-6.7	V	3.0	39.5	1.0	-45.3	-13.0	-32.3		
		3.3464	-17.2	V	3.0	40.1	1.0	-56.4	-13.0	-43.4		
		1.6730	-12.8	H	3.0	39.1	1.0	-50.9	-13.0	-37.9		
		2.5098	0.4	H	3.0	39.5	1.0	-38.1	-13.0	-25.1		
		3.3464	-17.5	H	3.0	40.1	1.0	-56.7	-13.0	-43.7		
		High Ch, 848.8MHz										
		1.6976	-11.5	V	3.0	39.1	1.0	-49.7	-13.0	-36.7		
		2.5466	0.2	V	3.0	39.6	1.0	-38.4	-13.0	-25.4		
		3.3952	-17.2	V	3.0	40.2	1.0	-56.4	-13.0	-43.4		
		1.6976	-11.8	H	3.0	39.1	1.0	-49.9	-13.0	-36.9		
		2.5466	-0.5	H	3.0	39.6	1.0	-39.1	-13.0	-26.1		
		3.3952	-17.6	H	3.0	40.2	1.0	-56.7	-13.0	-43.7		
		Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.										

**GSM 1900**

		UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement																																																																																																																																																																																																																																					
GSM GSM1900 GPRS	Company: Samsung Project #: 16K22741 Date: 02-13-16 Test Engineer: Steven Kim Configuration: EUT / AC Adapter / Earphone, XPosition Mode: GPRS 1900	Chamber: Chamber 2		Pre-amplifier: AFS42		Filter: Filter 1		Limit: Part 24																																																																																																																																																																																																																															
		<table border="1"> <thead> <tr> <th>f GHz</th> <th>SG reading (dBm)</th> <th>Ant. Pol. (H/V)</th> <th>Distance (m)</th> <th>Preamp (dB)</th> <th>Filter (dB)</th> <th>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>-9.7</td> <td>V</td> <td>3.0</td> <td>40.5</td> <td>1.0</td> <td>-49.2</td> <td>-13.0</td> <td>-36.2</td> <td></td> </tr> <tr> <td>5.5506</td> <td>-6.0</td> <td>V</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>7.4008</td> <td>-6.8</td> <td>V</td> <td>3.0</td> <td>40.8</td> <td>1.0</td> <td>-46.6</td> <td>-13.0</td> <td>-33.6</td> <td></td> </tr> <tr> <td>3.7000</td> <td>-10.3</td> <td>H</td> <td>3.0</td> <td>40.5</td> <td>1.0</td> <td>-49.8</td> <td>-13.0</td> <td>-36.8</td> <td></td> </tr> <tr> <td>5.5506</td> <td>-3.3</td> <td>H</td> <td>3.0</td> <td>40.8</td> <td>1.0</td> <td>-43.1</td> <td>-13.0</td> <td>-30.1</td> <td></td> </tr> <tr> <td>7.4008</td> <td>-9.7</td> <td>H</td> <td>3.0</td> <td>40.8</td> <td>1.0</td> <td>-49.4</td> <td>-13.0</td> <td>-36.4</td> <td></td> </tr> <tr> <td colspan="10">Mid Ch, 1880.0MHz</td> </tr> <tr> <td>3.7600</td> <td>-8.1</td> <td>V</td> <td>3.0</td> <td>40.5</td> <td>1.0</td> <td>-47.6</td> <td>-13.0</td> <td>-34.6</td> <td></td> </tr> <tr> <td>5.6400</td> <td>-0.6</td> <td>V</td> <td>3.0</td> <td>40.8</td> <td>1.0</td> <td>-40.4</td> <td>-13.0</td> <td>-27.4</td> <td></td> </tr> <tr> <td>7.5200</td> <td>-4.6</td> <td>V</td> <td>3.0</td> <td>40.7</td> <td>1.0</td> <td>-44.3</td> <td>-13.0</td> <td>-31.3</td> <td></td> </tr> <tr> <td>3.7600</td> <td>-7.7</td> <td>H</td> <td>3.0</td> <td>40.5</td> <td>1.0</td> <td>-47.2</td> <td>-13.0</td> <td>-34.2</td> <td></td> </tr> <tr> <td>5.6400</td> <td>2.3</td> <td>H</td> <td>3.0</td> <td>40.8</td> <td>1.0</td> <td>-37.5</td> <td>-13.0</td> <td>-24.5</td> <td></td> </tr> <tr> <td>7.5200</td> <td>-7.2</td> <td>H</td> <td>3.0</td> <td>40.7</td> <td>1.0</td> <td>-46.9</td> <td>-13.0</td> <td>-33.9</td> <td></td> </tr> <tr> <td colspan="10">High Ch, 1909.8 MHz</td> </tr> <tr> <td>3.8196</td> <td>-5.5</td> <td>V</td> <td>3.0</td> <td>40.6</td> <td>1.0</td> <td>-45.1</td> <td>-13.0</td> <td>-32.1</td> <td></td> </tr> <tr> <td>5.7294</td> <td>1.5</td> <td>V</td> <td>3.0</td> <td>40.8</td> <td>1.0</td> <td>-38.3</td> <td>-13.0</td> <td>-25.3</td> <td></td> </tr> <tr> <td>7.6392</td> <td>-4.8</td> <td>V</td> <td>3.0</td> <td>40.7</td> <td>1.0</td> <td>-44.5</td> <td>-13.0</td> <td>-31.5</td> <td></td> </tr> <tr> <td>3.8196</td> <td>-5.6</td> <td>H</td> <td>3.0</td> <td>40.6</td> <td>1.0</td> <td>-45.2</td> <td>-13.0</td> <td>-32.2</td> <td></td> </tr> <tr> <td>5.7294</td> <td>4.5</td> <td>H</td> <td>3.0</td> <td>40.8</td> <td>1.0</td> <td>-35.3</td> <td>-13.0</td> <td>-22.3</td> <td></td> </tr> <tr> <td>7.6392</td> <td>-6.6</td> <td>H</td> <td>3.0</td> <td>40.7</td> <td>1.0</td> <td>-46.3</td> <td>-13.0</td> <td>-33.3</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	-9.7	V	3.0	40.5	1.0	-49.2	-13.0	-36.2		5.5506	-6.0	V	3.0	40.8	1.0	-45.8	-13.0	-32.8		7.4008	-6.8	V	3.0	40.8	1.0	-46.6	-13.0	-33.6		3.7000	-10.3	H	3.0	40.5	1.0	-49.8	-13.0	-36.8		5.5506	-3.3	H	3.0	40.8	1.0	-43.1	-13.0	-30.1		7.4008	-9.7	H	3.0	40.8	1.0	-49.4	-13.0	-36.4		Mid Ch, 1880.0MHz										3.7600	-8.1	V	3.0	40.5	1.0	-47.6	-13.0	-34.6		5.6400	-0.6	V	3.0	40.8	1.0	-40.4	-13.0	-27.4		7.5200	-4.6	V	3.0	40.7	1.0	-44.3	-13.0	-31.3		3.7600	-7.7	H	3.0	40.5	1.0	-47.2	-13.0	-34.2		5.6400	2.3	H	3.0	40.8	1.0	-37.5	-13.0	-24.5		7.5200	-7.2	H	3.0	40.7	1.0	-46.9	-13.0	-33.9		High Ch, 1909.8 MHz										3.8196	-5.5	V	3.0	40.6	1.0	-45.1	-13.0	-32.1		5.7294	1.5	V	3.0	40.8	1.0	-38.3	-13.0	-25.3		7.6392	-4.8	V	3.0	40.7	1.0	-44.5	-13.0	-31.5		3.8196	-5.6	H	3.0	40.6	1.0	-45.2	-13.0	-32.2		5.7294	4.5	H	3.0	40.8	1.0	-35.3	-13.0	-22.3		7.6392	-6.6	H	3.0	40.7	1.0	-46.3	-13.0	-33.3		Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.								
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7.5200	-4.6	V	3.0	40.7	1.0	-44.3	-13.0	-31.3																																																																																																																																																																																																																															
3.7600	-7.7	H	3.0	40.5	1.0	-47.2	-13.0	-34.2																																																																																																																																																																																																																															
5.6400	2.3	H	3.0	40.8	1.0	-37.5	-13.0	-24.5																																																																																																																																																																																																																															
7.5200	-7.2	H	3.0	40.7	1.0	-46.9	-13.0	-33.9																																																																																																																																																																																																																															
High Ch, 1909.8 MHz																																																																																																																																																																																																																																							
3.8196	-5.5	V	3.0	40.6	1.0	-45.1	-13.0	-32.1																																																																																																																																																																																																																															
5.7294	1.5	V	3.0	40.8	1.0	-38.3	-13.0	-25.3																																																																																																																																																																																																																															
7.6392	-4.8	V	3.0	40.7	1.0	-44.5	-13.0	-31.5																																																																																																																																																																																																																															
3.8196	-5.6	H	3.0	40.6	1.0	-45.2	-13.0	-32.2																																																																																																																																																																																																																															
5.7294	4.5	H	3.0	40.8	1.0	-35.3	-13.0	-22.3																																																																																																																																																																																																																															
7.6392	-6.6	H	3.0	40.7	1.0	-46.3	-13.0	-33.3																																																																																																																																																																																																																															
Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.																																																																																																																																																																																																																																							
GSM GSM1900 EGPRS	Company: Samsung Project #: 16K22741 Date: 02-13-16 Test Engineer: Steven Kim Configuration: EUT / AC Adapter / Earphone, XPosition Mode: EGPRS 1900 MHz	Chamber: Chamber 2		Pre-amplifier: AFS42		Filter: Filter 1		Limit: Part 24																																																																																																																																																																																																																															
	<table border="1"> <thead> <tr> <th>f GHz</th> <th>SG reading (dBm)</th> <th>Ant. Pol. (H/V)</th> <th>Distance (m)</th> <th>Preamp (dB)</th> <th>Filter (dB)</th> <th>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>-15.6</td> <td>V</td> <td>3.0</td> <td>40.5</td> <td>1.0</td> <td>-55.1</td> <td>-13.0</td> <td>-42.1</td> <td></td> </tr> <tr> <td>5.5506</td> <td>-11.8</td> <td>V</td> <td>3.0</td> <td>40.8</td> <td>1.0</td> <td>-51.6</td> <td>-13.0</td> <td>-38.6</td> <td></td> </tr> <tr> <td>7.4008</td> <td>-11.4</td> <td>V</td> <td>3.0</td> <td>40.8</td> <td>1.0</td> <td>-51.2</td> <td>-13.0</td> <td>-38.2</td> <td></td> </tr> <tr> <td>3.7000</td> <td>-16.1</td> <td>H</td> <td>3.0</td> <td>40.5</td> <td>1.0</td> <td>-55.5</td> <td>-13.0</td> <td>-42.5</td> <td></td> </tr> <tr> <td>5.5500</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>7.4000</td> <td>-10.4</td> <td>H</td> <td>3.0</td> <td>40.8</td> <td>1.0</td> <td>-50.2</td> <td>-13.0</td> <td>-37.2</td> <td></td> </tr> <tr> <td colspan="10">Mid Ch, 1880.0MHz</td> </tr> <tr> <td>3.7600</td> <td>-13.9</td> <td>V</td> <td>3.0</td> <td>40.5</td> <td>1.0</td> <td>-53.4</td> <td>-13.0</td> <td>-40.4</td> <td></td> </tr> <tr> <td>5.6400</td> <td>-10.5</td> <td>V</td> <td>3.0</td> <td>40.8</td> <td>1.0</td> <td>-50.3</td> <td>-13.0</td> <td>-37.3</td> <td></td> </tr> <tr> <td>7.5200</td> <td>-10.4</td> <td>V</td> <td>3.0</td> <td>40.7</td> <td>1.0</td> <td>-50.2</td> <td>-13.0</td> <td>-37.2</td> <td></td> </tr> <tr> <td>3.7600</td> <td>-15.1</td> <td>H</td> <td>3.0</td> <td>40.5</td> <td>1.0</td> <td>-54.6</td> <td>-13.0</td> <td>-41.6</td> <td></td> </tr> <tr> <td>5.6400</td> <td>-4.9</td> <td>H</td> <td>3.0</td> <td>40.8</td> <td>1.0</td> <td>-44.7</td> <td>-13.0</td> <td>-31.7</td> <td></td> </tr> <tr> <td>7.5200</td> <td>-10.6</td> <td>H</td> <td>3.0</td> <td>40.7</td> <td>1.0</td> <td>-50.3</td> <td>-13.0</td> <td>-37.3</td> <td></td> </tr> <tr> <td colspan="10">High Ch, 1909.8 MHz</td> </tr> <tr> <td>3.8196</td> <td>-13.7</td> <td>V</td> <td>3.0</td> <td>40.6</td> <td>1.0</td> <td>-53.3</td> <td>-13.0</td> <td>-40.3</td> <td></td> </tr> <tr> <td>5.7294</td> <td>-7.3</td> <td>V</td> <td>3.0</td> <td>40.8</td> <td>1.0</td> <td>-47.1</td> <td>-13.0</td> <td>-34.1</td> <td></td> </tr> <tr> <td>7.6392</td> <td>-10.3</td> <td>V</td> <td>3.0</td> <td>40.7</td> <td>1.0</td> <td>-49.9</td> <td>-13.0</td> <td>-36.9</td> <td></td> </tr> <tr> <td>3.8196</td> <td>-13.0</td> <td>H</td> <td>3.0</td> <td>40.6</td> <td>1.0</td> <td>-52.6</td> <td>-13.0</td> <td>-39.6</td> <td></td> </tr> <tr> <td>5.7294</td> <td>-5.3</td> <td>H</td> <td>3.0</td> <td>40.8</td> <td>1.0</td> <td>-45.1</td> <td>-13.0</td> <td>-32.1</td> <td></td> </tr> <tr> <td>7.6392</td> <td>-10.5</td> <td>H</td> <td>3.0</td> <td>40.7</td> <td>1.0</td> <td>-50.1</td> <td>-13.0</td> <td>-37.1</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	-15.6	V	3.0	40.5	1.0	-55.1	-13.0	-42.1		5.5506	-11.8	V	3.0	40.8	1.0	-51.6	-13.0	-38.6		7.4008	-11.4	V	3.0	40.8	1.0	-51.2	-13.0	-38.2		3.7000	-16.1	H	3.0	40.5	1.0	-55.5	-13.0	-42.5		5.5500	-8.7	H	3.0	40.8	1.0	-48.5	-13.0	-35.5		7.4000	-10.4	H	3.0	40.8	1.0	-50.2	-13.0	-37.2		Mid Ch, 1880.0MHz										3.7600	-13.9	V	3.0	40.5	1.0	-53.4	-13.0	-40.4		5.6400	-10.5	V	3.0	40.8	1.0	-50.3	-13.0	-37.3		7.5200	-10.4	V	3.0	40.7	1.0	-50.2	-13.0	-37.2		3.7600	-15.1	H	3.0	40.5	1.0	-54.6	-13.0	-41.6		5.6400	-4.9	H	3.0	40.8	1.0	-44.7	-13.0	-31.7		7.5200	-10.6	H	3.0	40.7	1.0	-50.3	-13.0	-37.3		High Ch, 1909.8 MHz										3.8196	-13.7	V	3.0	40.6	1.0	-53.3	-13.0	-40.3		5.7294	-7.3	V	3.0	40.8	1.0	-47.1	-13.0	-34.1		7.6392	-10.3	V	3.0	40.7	1.0	-49.9	-13.0	-36.9		3.8196	-13.0	H	3.0	40.6	1.0	-52.6	-13.0	-39.6		5.7294	-5.3	H	3.0	40.8	1.0	-45.1	-13.0	-32.1		7.6392	-10.5	H	3.0	40.7	1.0	-50.1	-13.0	-37.1		Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.									
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5.5506	-11.8	V	3.0	40.8	1.0	-51.6	-13.0	-38.6																																																																																																																																																																																																																															
7.4008	-11.4	V	3.0	40.8	1.0	-51.2	-13.0	-38.2																																																																																																																																																																																																																															
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7.4000	-10.4	H	3.0	40.8	1.0	-50.2	-13.0	-37.2																																																																																																																																																																																																																															
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7.5200	-10.4	V	3.0	40.7	1.0	-50.2	-13.0	-37.2																																																																																																																																																																																																																															
3.7600	-15.1	H	3.0	40.5	1.0	-54.6	-13.0	-41.6																																																																																																																																																																																																																															
5.6400	-4.9	H	3.0	40.8	1.0	-44.7	-13.0	-31.7																																																																																																																																																																																																																															
7.5200	-10.6	H	3.0	40.7	1.0	-50.3	-13.0	-37.3																																																																																																																																																																																																																															
High Ch, 1909.8 MHz																																																																																																																																																																																																																																							
3.8196	-13.7	V	3.0	40.6	1.0	-53.3	-13.0	-40.3																																																																																																																																																																																																																															
5.7294	-7.3	V	3.0	40.8	1.0	-47.1	-13.0	-34.1																																																																																																																																																																																																																															
7.6392	-10.3	V	3.0	40.7	1.0	-49.9	-13.0	-36.9																																																																																																																																																																																																																															
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5.7294	-5.3	H	3.0	40.8	1.0	-45.1	-13.0	-32.1																																																																																																																																																																																																																															
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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 #: 16K22741 Date: 02-16-16 Test Engineer: Steven Kim Configuration: EUT / AC Adapter / Earphone, Y Position Mode: Tx, REL99,850MHz										
	<div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 2px;">Chamber Chamber 2</div> <div style="border: 1px solid black; padding: 2px;">Pre-amplifier AFS42</div> <div style="border: 1px solid black; padding: 2px;">Filter Filter 1</div> <div style="border: 1px solid black; padding: 2px;">Limit Part 22</div> </div>										
		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	-16.9	V	3.0	39.1	1.0	-55.0	-13.0	-42.0	
		2.4790	-17.2	V	3.0	39.5	1.0	-55.7	-13.0	-42.7	
		3.3056	-15.6	V	3.0	40.1	1.0	-54.7	-13.0	-41.7	
		1.6520	-19.9	H	3.0	39.1	1.0	-58.0	-13.0	-45.0	
		2.4790	-17.6	H	3.0	39.5	1.0	-56.1	-13.0	-43.1	
		3.3056	-15.9	H	3.0	40.1	1.0	-55.0	-13.0	-42.0	
		Mid Ch, 836.6MHz									
		1.6732	-16.4	V	3.0	39.1	1.0	-54.5	-13.0	-41.5	
		2.5098	-17.2	V	3.0	39.5	1.0	-55.7	-13.0	-42.7	
		3.3464	-15.5	V	3.0	40.1	1.0	-54.6	-13.0	-41.6	
		1.6732	-18.3	H	3.0	39.1	1.0	-56.5	-13.0	-43.5	
		2.5098	-17.4	H	3.0	39.5	1.0	-55.9	-13.0	-42.9	
		3.3464	-15.7	H	3.0	40.1	1.0	-54.9	-13.0	-41.9	
		High Ch, 846.6MHz									
		1.6932	-11.2	V	3.0	39.1	1.0	-49.3	-13.0	-36.3	
		2.5390	-17.2	V	3.0	39.6	1.0	-55.8	-13.0	-42.8	
		3.3860	-15.1	V	3.0	40.2	1.0	-54.3	-13.0	-41.3	
		1.6932	-14.5	H	3.0	39.1	1.0	-52.6	-13.0	-39.6	
		2.5390	-17.6	H	3.0	39.6	1.0	-56.2	-13.0	-43.2	
		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.										
WCDMA Band 5 HSDPA	Company: Samsung Project #: 16K22741 Date: 02-16-16 Test Engineer: Steven Kim Configuration: EUT / AC Adapter / Earphone, Y Position Mode: Tx, HSDPA,850MHz										
	<div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 2px;">Chamber Chamber 2</div> <div style="border: 1px solid black; padding: 2px;">Pre-amplifier AFS42</div> <div style="border: 1px solid black; padding: 2px;">Filter Filter 1</div> <div style="border: 1px solid black; padding: 2px;">Limit Part 22</div> </div>										
		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	-14.7	V	3.0	39.1	1.0	-52.8	-13.0	-39.8	
		2.4790	-17.3	V	3.0	39.5	1.0	-55.8	-13.0	-42.8	
		3.3056	-15.7	V	3.0	40.1	1.0	-54.8	-13.0	-41.8	
		1.6520	-19.9	H	3.0	39.1	1.0	-58.0	-13.0	-45.0	
		2.4790	-17.7	H	3.0	39.5	1.0	-56.2	-13.0	-43.2	
		3.3056	-16.0	H	3.0	40.1	1.0	-55.1	-13.0	-42.1	
		Mid Ch, 836.6MHz									
		1.6732	-17.5	V	3.0	39.1	1.0	-55.6	-13.0	-42.6	
		2.5098	-17.1	V	3.0	39.5	1.0	-55.6	-13.0	-42.6	
		3.3464	-15.5	V	3.0	40.1	1.0	-54.7	-13.0	-41.7	
		1.6732	-19.3	H	3.0	39.1	1.0	-57.4	-13.0	-44.4	
		2.5098	-17.5	H	3.0	39.5	1.0	-56.0	-13.0	-43.0	
		3.3464	-15.8	H	3.0	40.1	1.0	-54.9	-13.0	-41.9	
		High Ch, 846.6MHz									
		1.6932	-11.2	V	3.0	39.1	1.0	-49.3	-13.0	-36.3	
		2.5390	-17.3	V	3.0	39.6	1.0	-55.8	-13.0	-42.8	
		3.3860	-15.2	V	3.0	40.2	1.0	-54.4	-13.0	-41.4	
		1.6932	-15.6	H	3.0	39.1	1.0	-53.7	-13.0	-40.7	
		2.5390	-17.6	H	3.0	39.6	1.0	-56.2	-13.0	-43.2	
		3.3860	-15.6	H	3.0	40.2	1.0	-54.7	-13.0	-41.7	
	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 #: 16K22741 Date: 02-16-16 Test Engineer: Steven Kim Configuration: EUT / AC Adapter / Earphone / X Position Mode: Tx, REL99,1900MHz	<table border="1"> <tr> <th>Chamber</th> <th>Pre-amplifier</th> <th>Filter</th> <th>Limit</th> </tr> <tr> <td>Chamber 2</td> <td>AFS42</td> <td>Filter 1</td> <td>Part 24</td> </tr> </table>									Chamber	Pre-amplifier	Filter	Limit	Chamber 2	AFS42	Filter 1	Part 24																																																																																																																																																																																																											
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3.8152	-12.5	V	3.0	40.6	1.0	-52.1	-13.0	-39.1																																																																																																																																																																																																																					
5.7228	-10.7	V	3.0	40.8	1.0	-50.5	-13.0	-37.5																																																																																																																																																																																																																					
7.6304	-8.3	V	3.0	40.7	1.0	-48.0	-13.0	-35.0																																																																																																																																																																																																																					
3.8152	-12.3	H	3.0	40.6	1.0	-51.9	-13.0	-38.9																																																																																																																																																																																																																					
5.7228	-9.6	H	3.0	40.8	1.0	-49.4	-13.0	-36.4																																																																																																																																																																																																																					
7.6304	-8.3	H	3.0	40.7	1.0	-47.9	-13.0	-34.9																																																																																																																																																																																																																					
Rev. 03.03.09		Note: No other emissions were detected above the system noise floor.																																																																																																																																																																																																																											