

WCDMA Band 5

WCDMA Band 5 REL99	High Frequency Substitution Measurement UL Korea, Ltd. Suwon Laboratory Chamber 2 Company: Samsung Project #: 16K23301 Date: 04-19-16 Test Engineer: Steven Kim Configuration: EUT ONLY, X Position Mode: Rel 99_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. <table> <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> <tr><td>Low Ch</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>826.40</td><td>15.92</td><td>V</td><td>1.1</td><td>-1.5</td><td>13.31</td><td>38.5</td><td>-25.1</td><td></td></tr> <tr><td>826.40</td><td>20.23</td><td>H</td><td>1.1</td><td>-1.5</td><td>17.62</td><td>38.5</td><td>-20.8</td><td></td></tr> <tr><td>Mid Ch</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>836.60</td><td>14.21</td><td>V</td><td>1.1</td><td>-1.4</td><td>11.72</td><td>38.5</td><td>-26.7</td><td></td></tr> <tr><td>836.60</td><td>20.67</td><td>H</td><td>1.1</td><td>-1.4</td><td>18.18</td><td>38.5</td><td>-20.3</td><td></td></tr> <tr><td>High Ch</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>846.60</td><td>13.05</td><td>V</td><td>1.1</td><td>-1.3</td><td>10.67</td><td>38.5</td><td>-27.8</td><td></td></tr> <tr><td>846.60</td><td>21.15</td><td>H</td><td>1.1</td><td>-1.3</td><td>18.77</td><td>38.5</td><td>-19.7</td><td></td></tr> </table> Rev. 3.17.11								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	15.92	V	1.1	-1.5	13.31	38.5	-25.1		826.40	20.23	H	1.1	-1.5	17.62	38.5	-20.8		Mid Ch									836.60	14.21	V	1.1	-1.4	11.72	38.5	-26.7		836.60	20.67	H	1.1	-1.4	18.18	38.5	-20.3		High Ch									846.60	13.05	V	1.1	-1.3	10.67	38.5	-27.8		846.60	21.15	H	1.1	-1.3	18.77	38.5	-19.7	
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836.60	14.21	V	1.1	-1.4	11.72	38.5	-26.7																																																																																											
836.60	20.67	H	1.1	-1.4	18.18	38.5	-20.3																																																																																											
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WCDMA Band 5 HSDPA	High Frequency Substitution Measurement UL Korea, Ltd. Suwon Laboratory Chamber 2 Company: Samsung Project #: 16K23301 Date: 04-19-16 Test Engineer: Steven Kim Configuration: EUT ONLY, X Position Mode: HSDPA_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. <table> <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> <tr><td>Low Ch</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>826.40</td><td>12.61</td><td>V</td><td>1.1</td><td>-1.5</td><td>10.00</td><td>38.5</td><td>-28.5</td><td></td></tr> <tr><td>826.40</td><td>17.62</td><td>H</td><td>1.1</td><td>-1.5</td><td>15.01</td><td>38.5</td><td>-23.4</td><td></td></tr> <tr><td>Mid Ch</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>836.60</td><td>9.59</td><td>V</td><td>1.1</td><td>-1.4</td><td>7.10</td><td>38.5</td><td>-31.4</td><td></td></tr> <tr><td>836.60</td><td>18.73</td><td>H</td><td>1.1</td><td>-1.4</td><td>16.24</td><td>38.5</td><td>-22.2</td><td></td></tr> <tr><td>High Ch</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>846.60</td><td>8.81</td><td>V</td><td>1.1</td><td>-1.3</td><td>6.43</td><td>38.5</td><td>-32.0</td><td></td></tr> <tr><td>846.60</td><td>21.22</td><td>H</td><td>1.1</td><td>-1.3</td><td>18.84</td><td>38.5</td><td>-19.6</td><td></td></tr> </table> Rev. 3.17.11								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	12.61	V	1.1	-1.5	10.00	38.5	-28.5		826.40	17.62	H	1.1	-1.5	15.01	38.5	-23.4		Mid Ch									836.60	9.59	V	1.1	-1.4	7.10	38.5	-31.4		836.60	18.73	H	1.1	-1.4	16.24	38.5	-22.2		High Ch									846.60	8.81	V	1.1	-1.3	6.43	38.5	-32.0		846.60	21.22	H	1.1	-1.3	18.84	38.5	-19.6	
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LTE Band 41

LTE Band 41 20MHz QPSK	High Frequency Substitution Measurement UL Korea, Ltd. Suwon Laboratory Chamber 2																																																																																																	
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LTE Band 41 15MHz QPSK	High Frequency Substitution Measurement UL Korea, Ltd. Suwon Laboratory Chamber 2								
	Company: Samsung Project #: 16K23301 Date: 04-23-16 Test Engineer: Steven Kim Configuration: EUT / X-Position Mode: LTE Band 41, QPSK, 15MHz								
	Test Equipment: Receiving: 3117[00168724] and Chamber 1 SMA Cables Substitution: 3115[00161451] Substitution, 3m SMA Cable Warehouse								
	f	SG reading	Ant. Pol.	Cable Loss	Antenna Gain	EIRP	Limit	Margin	Notes
	MHz	(dBm)	(H/V)	(dB)	(dBi)	(dBm)	(dBm)	(dB)	
	Low Ch								
	2562.50	13.77	V	1.9	9.1	21.03	33.0	-12.0	
	2562.50	10.32	H	1.9	9.1	17.58	33.0	-15.4	
	Mid Ch								
	2605.00	14.36	V	1.9	10.4	22.85	33.0	-10.2	
	2605.00	11.50	H	1.9	10.4	19.99	33.0	-13.0	
	High Ch								
	2647.50	12.51	V	1.9	10.3	20.95	33.0	-12.0	
	2647.50	11.43	H	1.9	10.3	19.87	33.0	-13.1	
	Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm								
LTE Band 41 15MHz 16QAM	High Frequency Substitution Measurement UL Korea, Ltd. Suwon Laboratory Chamber 2								
	Company: Samsung Project #: 16K23301 Date: 04-23-16 Test Engineer: Steven Kim Configuration: EUT / X-Position Mode: LTE Band 41, 16QAM, 15MHz								
	Test Equipment: Receiving: 3117[00168724] and Chamber 1 SMA Cables Substitution: 3115[00161451] Substitution, 3m SMA Cable Warehouse								
	f	SG reading	Ant. Pol.	Cable Loss	Antenna Gain	EIRP	Limit	Margin	Notes
	MHz	(dBm)	(H/V)	(dB)	(dBi)	(dBm)	(dBm)	(dB)	
	Low Ch								
	2562.50	12.77	V	1.9	9.1	20.03	33.0	-13.0	
	2562.50	9.43	H	1.9	9.1	16.69	33.0	-16.3	
	Mid Ch								
	2605.00	13.53	V	1.9	10.4	22.02	33.0	-11.0	
	2605.00	10.61	H	1.9	10.4	19.10	33.0	-13.9	
	High Ch								
	2647.50	11.57	V	1.9	10.3	20.01	33.0	-13.0	
	2647.50	10.38	H	1.9	10.3	18.82	33.0	-14.2	
	Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm								

LTE Band 41 10MHz QPSK	High Frequency Substitution Measurement UL Korea, Ltd. Suwon Laboratory Chamber 2 Company: Samsung Project #: 16K23301 Date: 04-23-16 Test Engineer: Steven Kim Configuration: EUT / X-Position Mode: LTE Band 41, QPSK, 10MHz Test Equipment: Receiving: 3117[00168724] and Chamber 1 SMA Cables Substitution: 3115[00161451] Substitution, 3m SMA Cable Warehouse								
	f	SG reading	Ant. Pol.	Cable Loss	Antenna Gain	EIRP	Limit	Margin	Notes
	MHz	(dBm)	(H/V)	(dB)	(dBi)	(dBm)	(dBm)	(dB)	
	Low Ch								
	2560.00	13.84	V	1.9	9.1	21.10	33.0	-11.9	
	2560.00	10.86	H	1.9	9.1	18.12	33.0	-14.9	
	Mid Ch								
	2605.00	14.77	V	1.9	10.4	23.26	33.0	-9.7	
	2605.00	11.53	H	1.9	10.4	20.02	33.0	-13.0	
	High Ch								
	2650.00	12.98	V	1.9	10.3	21.42	33.0	-11.6	
	2650.00	11.03	H	1.9	10.3	19.47	33.0	-13.5	
	Rev. 3.17.11								
	Note: For Band 4 EIRP limit is 30dBm								
LTE Band 41 10MHz 16QAM	High Frequency Substitution Measurement UL Korea, Ltd. Suwon Laboratory Chamber 2 Company: Samsung Project #: 16K23301 Date: 04-23-16 Test Engineer: Steven Kim Configuration: EUT / X-Position Mode: LTE Band 41 16QAM, 10MHz Test Equipment: Receiving: 3117[00168724] and Chamber 1 SMA Cables Substitution: 3115[00161451] Substitution, 3m SMA Cable Warehouse								
	f	SG reading	Ant. Pol.	Cable Loss	Antenna Gain	EIRP	Limit	Margin	Notes
	MHz	(dBm)	(H/V)	(dB)	(dBi)	(dBm)	(dBm)	(dB)	
	Low Ch								
	2560.00	12.84	V	1.9	9.1	20.10	33.0	-12.9	
	2560.00	9.93	H	1.9	9.1	17.19	33.0	-15.8	
	Mid Ch								
	2605.00	13.78	V	1.9	10.4	22.27	33.0	-10.7	
	2605.00	10.74	H	1.9	10.4	19.23	33.0	-13.8	
	High Ch								
	2650.00	11.94	V	1.9	10.3	20.38	33.0	-12.6	
	2650.00	9.97	H	1.9	10.3	18.41	33.0	-14.6	
	Rev. 3.17.11								
	Note: For Band 4 EIRP limit is 30dBm								

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	f	SG reading	Ant. Pol.	Cable Loss	Antenna Gain	EIRP	Limit	Margin	Notes
	MHz	(dBm)	(H/V)	(dB)	(dBi)	(dBm)	(dBm)	(dB)	
	Low Ch								
	2557.50	14.45	V	1.9	9.1	21.71	33.0	-11.3	
	2557.50	10.92	H	1.9	9.1	18.18	33.0	-14.8	
	Mid Ch								
	2605.00	14.21	V	1.9	10.4	22.70	33.0	-10.3	
	2605.00	12.02	H	1.9	10.4	20.51	33.0	-12.5	
	High Ch								
	2652.50	13.21	V	1.9	10.3	21.65	33.0	-11.3	
	2652.50	9.99	H	1.9	10.3	18.43	33.0	-14.6	
	Rev. 3.17.11								
	Note: For Band 4 EIRP limit is 30dBm								
LTE Band 41 5MHz 16QAM	High Frequency Substitution Measurement UL Korea, Ltd. Suwon Laboratory Chamber 2 Company: Samsung Project #: 16K23301 Date: 04-23-16 Test Engineer: Steven Kim Configuration: EUT / X-Position Mode: LTE Band 41 16QAM, 5MHz Test Equipment: Receiving: 3117[00168724] and Chamber 1 SMA Cables Substitution: 3115[00161451] Substitution, 3m SMA Cable Warehouse								
	f	SG reading	Ant. Pol.	Cable Loss	Antenna Gain	EIRP	Limit	Margin	Notes
	MHz	(dBm)	(H/V)	(dB)	(dBi)	(dBm)	(dBm)	(dB)	
	Low Ch								
	2557.50	13.71	V	1.9	9.1	20.97	33.0	-12.0	
	2557.50	10.16	H	1.9	9.1	17.42	33.0	-15.6	
	Mid Ch								
	2605.00	13.08	V	1.9	10.4	21.57	33.0	-11.4	
	2605.00	11.47	H	1.9	10.4	19.96	33.0	-13.0	
	High Ch								
	2652.50	12.30	V	1.9	10.3	20.74	33.0	-12.3	
	2652.50	9.10	H	1.9	10.3	17.54	33.0	-15.5	
	Rev. 3.17.11								
	Note: For Band 4 EIRP limit is 30dBm								

BC0

BC0 1xRTT	High Frequency Substitution Measurement UL Korea, Ltd. Suwon Laboratory Chamber 2								
	Company: Samsung Project #: 16K23301 Date: 05-02-16 Test Engineer: Chan Park Configuration: EUT ONLY, X Position Mode: CDMA RTT BC0								
	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.								
	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	12.97	V	1.1	-1.6	10.35	38.5	-28.1	
	824.70	23.82	H	1.1	-1.6	21.20	38.5	-17.3	
	Mid Ch								
	836.52	13.49	V	1.1	-1.4	11.00	38.5	-27.5	
	836.52	22.62	H	1.1	-1.4	20.13	38.5	-18.3	
	High Ch								
	848.31	11.74	V	1.1	-1.3	9.38	38.5	-29.1	
	848.31	22.56	H	1.1	-1.3	20.20	38.5	-18.3	
	Rev. 3.17.11 Note: For Band 13/17 ERP limit is 34.77dBm; For Band 26 limit is 50dBm								
BC0 EVDO Rel.0	High Frequency Substitution Measurement UL Korea, Ltd. Suwon Laboratory Chamber 2								
	Company: Samsung Project #: 16K23301 Date: 05-02-16 Test Engineer: Chan Park Configuration: EUT ONLY, X Position Mode: CDMA EVDO BC0								
	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.								
	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	17.19	V	1.1	-1.6	14.57	38.5	-23.9	
	824.70	20.44	H	1.1	-1.6	17.82	38.5	-20.6	
	Mid Ch								
	836.52	14.04	V	1.1	-1.4	11.55	38.5	-26.9	
	836.52	21.27	H	1.1	-1.4	18.78	38.5	-19.7	
	High Ch								
	848.31	13.09	V	1.1	-1.3	10.73	38.5	-27.7	
	848.31	22.84	H	1.1	-1.3	20.48	38.5	-18.0	
	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 and §27. 53

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.

Part 27: (m)(4) For mobile station, the attenuation factor shall be not less than $43 + 10 \log (P)$ dB at the channel edge and $(55 + 10 \log (P))$ dB at the 5.5 MHz from the channel edges.

TEST PROCEDURE

ANSI / TIA / EIA 603D Clause 2.2.12; ESU40 setting reference to 971168 D01 v02r02

For peak power measurement with a ESU40:

- a) Set the RBW = 100KHz 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;
- f) Ensure that the number of measurement points $\geq$ span/RBW;
- g) Trace mode = max hold;

RESULTS

11.2.1. SPURIOUS RADIATION PLOTS

GSM 850

GSM GSM850 GPRS	UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement Company: Project #: Date: Test Engineer: Configuration: Mode: Samsung 16K23301 04-25-16 Steven Kim EUT / AC Adapter / Earphone, X Position GPRS 850 MHz Chamber Pre-amplifier Filter Limit Chamber 2 AFS42 Filter 1 Part 22 <table> <tr> <th>f GHz</th><th>SG reading (dBm)</th><th>Ant. Pol. (H/V)</th><th>Distance (m)</th><th>Preamp (dB)</th><th>Filter (dB)</th><th>EIRP (dBm)</th><th>Limit (dBm)</th><th>Delta (dB)</th><th>Notes</th></tr> <tr><td colspan="10">Low Ch, 824.2MHz</td></tr> <tr><td>1.6484</td><td>-10.6</td><td>V</td><td>3.0</td><td>39.1</td><td>1.0</td><td>-48.7</td><td>-13.0</td><td>-35.7</td><td></td></tr> <tr><td>2.4726</td><td>-10.1</td><td>V</td><td>3.0</td><td>39.5</td><td>1.0</td><td>-28.4</td><td>-13.0</td><td>-15.4</td><td></td></tr> <tr><td>3.2968</td><td>-17.0</td><td>V</td><td>3.0</td><td>40.1</td><td>1.0</td><td>-56.1</td><td>-13.0</td><td>-43.1</td><td></td></tr> <tr><td>1.6484</td><td>-7.0</td><td>H</td><td>3.0</td><td>39.1</td><td>1.0</td><td>-45.1</td><td>-13.0</td><td>-32.1</td><td></td></tr> <tr><td>2.4726</td><td>-10.3</td><td>H</td><td>3.0</td><td>39.5</td><td>1.0</td><td>-28.2</td><td>-13.0</td><td>-15.2</td><td></td></tr> <tr><td>3.2968</td><td>-17.1</td><td>H</td><td>3.0</td><td>40.1</td><td>1.0</td><td>-56.2</td><td>-13.0</td><td>-43.2</td><td></td></tr> <tr><td colspan="10">Mid Ch, 836.6MHz</td></tr> <tr><td>1.6730</td><td>-9.1</td><td>V</td><td>3.0</td><td>39.1</td><td>1.0</td><td>-47.2</td><td>-13.0</td><td>-34.2</td><td></td></tr> <tr><td>2.5098</td><td>-10.0</td><td>V</td><td>3.0</td><td>39.5</td><td>1.0</td><td>-28.5</td><td>-13.0</td><td>-15.5</td><td></td></tr> <tr><td>3.3464</td><td>-17.1</td><td>V</td><td>3.0</td><td>40.1</td><td>1.0</td><td>-56.2</td><td>-13.0</td><td>-43.2</td><td></td></tr> <tr><td>1.6730</td><td>-6.7</td><td>H</td><td>3.0</td><td>39.1</td><td>1.0</td><td>-44.9</td><td>-13.0</td><td>-31.9</td><td></td></tr> <tr><td>2.5098</td><td>-10.5</td><td>H</td><td>3.0</td><td>39.5</td><td>1.0</td><td>-28.1</td><td>-13.0</td><td>-15.1</td><td></td></tr> <tr><td>3.3464</td><td>-17.3</td><td>H</td><td>3.0</td><td>40.1</td><td>1.0</td><td>-56.4</td><td>-13.0</td><td>-43.4</td><td></td></tr> <tr><td colspan="10">High Ch, 848.8MHz</td></tr> <tr><td>1.6976</td><td>-6.0</td><td>V</td><td>3.0</td><td>39.1</td><td>1.0</td><td>-44.2</td><td>-13.0</td><td>-31.2</td><td></td></tr> <tr><td>2.5466</td><td>-9.3</td><td>V</td><td>3.0</td><td>39.6</td><td>1.0</td><td>-29.3</td><td>-13.0</td><td>-16.3</td><td></td></tr> <tr><td>3.3952</td><td>-16.6</td><td>V</td><td>3.0</td><td>40.2</td><td>1.0</td><td>-55.8</td><td>-13.0</td><td>-42.8</td><td></td></tr> <tr><td>1.6976</td><td>-6.6</td><td>H</td><td>3.0</td><td>39.1</td><td>1.0</td><td>-44.8</td><td>-13.0</td><td>-31.8</td><td></td></tr> <tr><td>2.5466</td><td>-5.4</td><td>H</td><td>3.0</td><td>39.6</td><td>1.0</td><td>-33.2</td><td>-13.0</td><td>-20.2</td><td></td></tr> <tr><td>3.3952</td><td>-16.8</td><td>H</td><td>3.0</td><td>40.2</td><td>1.0</td><td>-56.0</td><td>-13.0</td><td>-43.0</td><td></td></tr> </table> Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.	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	-10.6	V	3.0	39.1	1.0	-48.7	-13.0	-35.7		2.4726	-10.1	V	3.0	39.5	1.0	-28.4	-13.0	-15.4		3.2968	-17.0	V	3.0	40.1	1.0	-56.1	-13.0	-43.1		1.6484	-7.0	H	3.0	39.1	1.0	-45.1	-13.0	-32.1		2.4726	-10.3	H	3.0	39.5	1.0	-28.2	-13.0	-15.2		3.2968	-17.1	H	3.0	40.1	1.0	-56.2	-13.0	-43.2		Mid Ch, 836.6MHz										1.6730	-9.1	V	3.0	39.1	1.0	-47.2	-13.0	-34.2		2.5098	-10.0	V	3.0	39.5	1.0	-28.5	-13.0	-15.5		3.3464	-17.1	V	3.0	40.1	1.0	-56.2	-13.0	-43.2		1.6730	-6.7	H	3.0	39.1	1.0	-44.9	-13.0	-31.9		2.5098	-10.5	H	3.0	39.5	1.0	-28.1	-13.0	-15.1		3.3464	-17.3	H	3.0	40.1	1.0	-56.4	-13.0	-43.4		High Ch, 848.8MHz										1.6976	-6.0	V	3.0	39.1	1.0	-44.2	-13.0	-31.2		2.5466	-9.3	V	3.0	39.6	1.0	-29.3	-13.0	-16.3		3.3952	-16.6	V	3.0	40.2	1.0	-55.8	-13.0	-42.8		1.6976	-6.6	H	3.0	39.1	1.0	-44.8	-13.0	-31.8		2.5466	-5.4	H	3.0	39.6	1.0	-33.2	-13.0	-20.2		3.3952	-16.8	H	3.0	40.2	1.0	-56.0	-13.0	-43.0	
	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes																																																																																																																																																																																																																			
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2.5466	-9.3	V	3.0	39.6	1.0	-29.3	-13.0	-16.3																																																																																																																																																																																																																					
3.3952	-16.6	V	3.0	40.2	1.0	-55.8	-13.0	-42.8																																																																																																																																																																																																																					
1.6976	-6.6	H	3.0	39.1	1.0	-44.8	-13.0	-31.8																																																																																																																																																																																																																					
2.5466	-5.4	H	3.0	39.6	1.0	-33.2	-13.0	-20.2																																																																																																																																																																																																																					
3.3952	-16.8	H	3.0	40.2	1.0	-56.0	-13.0	-43.0																																																																																																																																																																																																																					
GSM GSM850 EGPRS	UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement Company: Project #: Date: Test Engineer: Configuration: Mode: Samsung 16K23301 04-21-16 Steven Kim EUT / AC Adapter / Earphone, X Position EGPRS 850 MHz Chamber Pre-amplifier Filter Limit Chamber 1 AFS42 Filter 1 Part 22 <table> <tr> <th>f GHz</th><th>SG reading (dBm)</th><th>Ant. Pol. (H/V)</th><th>Distance (m)</th><th>Preamp (dB)</th><th>Filter (dB)</th><th>EIRP (dBm)</th><th>Limit (dBm)</th><th>Delta (dB)</th><th>Notes</th></tr> <tr><td colspan="10">Low Ch, 824.2MHz</td></tr> <tr><td>1.6484</td><td>-19.9</td><td>V</td><td>3.0</td><td>39.1</td><td>1.0</td><td>-58.0</td><td>-13.0</td><td>-45.0</td><td></td></tr> <tr><td>2.4726</td><td>-14.8</td><td>V</td><td>3.0</td><td>39.5</td><td>1.0</td><td>-53.3</td><td>-13.0</td><td>-40.3</td><td></td></tr> <tr><td>3.2968</td><td>-17.7</td><td>V</td><td>3.0</td><td>40.1</td><td>1.0</td><td>-56.8</td><td>-13.0</td><td>-43.8</td><td></td></tr> <tr><td>1.6484</td><td>-21.9</td><td>H</td><td>3.0</td><td>39.1</td><td>1.0</td><td>-60.0</td><td>-13.0</td><td>-47.0</td><td></td></tr> <tr><td>2.4726</td><td>-17.4</td><td>H</td><td>3.0</td><td>39.5</td><td>1.0</td><td>-55.9</td><td>-13.0</td><td>-42.9</td><td></td></tr> <tr><td>3.2968</td><td>-17.7</td><td>H</td><td>3.0</td><td>40.1</td><td>1.0</td><td>-56.8</td><td>-13.0</td><td>-43.8</td><td></td></tr> <tr><td colspan="10">Mid Ch, 836.6MHz</td></tr> <tr><td>1.6730</td><td>-19.3</td><td>V</td><td>3.0</td><td>39.1</td><td>1.0</td><td>-57.4</td><td>-13.0</td><td>-44.4</td><td></td></tr> <tr><td>2.5098</td><td>-14.3</td><td>V</td><td>3.0</td><td>39.5</td><td>1.0</td><td>-52.9</td><td>-13.0</td><td>-39.9</td><td></td></tr> <tr><td>3.3464</td><td>-17.1</td><td>V</td><td>3.0</td><td>40.1</td><td>1.0</td><td>-56.2</td><td>-13.0</td><td>-43.2</td><td></td></tr> <tr><td>1.6730</td><td>-21.1</td><td>H</td><td>3.0</td><td>39.1</td><td>1.0</td><td>-59.2</td><td>-13.0</td><td>-46.2</td><td></td></tr> <tr><td>2.5098</td><td>-16.6</td><td>H</td><td>3.0</td><td>39.5</td><td>1.0</td><td>-55.1</td><td>-13.0</td><td>-42.1</td><td></td></tr> <tr><td>3.3464</td><td>-17.3</td><td>H</td><td>3.0</td><td>40.1</td><td>1.0</td><td>-56.5</td><td>-13.0</td><td>-43.5</td><td></td></tr> <tr><td colspan="10">High Ch, 848.8MHz</td></tr> <tr><td>1.6976</td><td>-19.4</td><td>V</td><td>3.0</td><td>39.1</td><td>1.0</td><td>-57.6</td><td>-13.0</td><td>-44.6</td><td></td></tr> <tr><td>2.5466</td><td>-13.9</td><td>V</td><td>3.0</td><td>39.6</td><td>1.0</td><td>-52.5</td><td>-13.0</td><td>-39.5</td><td></td></tr> <tr><td>3.3952</td><td>-16.6</td><td>V</td><td>3.0</td><td>40.2</td><td>1.0</td><td>-55.8</td><td>-13.0</td><td>-42.8</td><td></td></tr> <tr><td>1.6976</td><td>-21.5</td><td>H</td><td>3.0</td><td>39.1</td><td>1.0</td><td>-59.6</td><td>-13.0</td><td>-46.6</td><td></td></tr> <tr><td>2.5466</td><td>-16.3</td><td>H</td><td>3.0</td><td>39.6</td><td>1.0</td><td>-54.8</td><td>-13.0</td><td>-41.8</td><td></td></tr> <tr><td>3.3952</td><td>-17.1</td><td>H</td><td>3.0</td><td>40.2</td><td>1.0</td><td>-56.2</td><td>-13.0</td><td>-43.2</td><td></td></tr> </table> Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.	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	-19.9	V	3.0	39.1	1.0	-58.0	-13.0	-45.0		2.4726	-14.8	V	3.0	39.5	1.0	-53.3	-13.0	-40.3		3.2968	-17.7	V	3.0	40.1	1.0	-56.8	-13.0	-43.8		1.6484	-21.9	H	3.0	39.1	1.0	-60.0	-13.0	-47.0		2.4726	-17.4	H	3.0	39.5	1.0	-55.9	-13.0	-42.9		3.2968	-17.7	H	3.0	40.1	1.0	-56.8	-13.0	-43.8		Mid Ch, 836.6MHz										1.6730	-19.3	V	3.0	39.1	1.0	-57.4	-13.0	-44.4		2.5098	-14.3	V	3.0	39.5	1.0	-52.9	-13.0	-39.9		3.3464	-17.1	V	3.0	40.1	1.0	-56.2	-13.0	-43.2		1.6730	-21.1	H	3.0	39.1	1.0	-59.2	-13.0	-46.2		2.5098	-16.6	H	3.0	39.5	1.0	-55.1	-13.0	-42.1		3.3464	-17.3	H	3.0	40.1	1.0	-56.5	-13.0	-43.5		High Ch, 848.8MHz										1.6976	-19.4	V	3.0	39.1	1.0	-57.6	-13.0	-44.6		2.5466	-13.9	V	3.0	39.6	1.0	-52.5	-13.0	-39.5		3.3952	-16.6	V	3.0	40.2	1.0	-55.8	-13.0	-42.8		1.6976	-21.5	H	3.0	39.1	1.0	-59.6	-13.0	-46.6		2.5466	-16.3	H	3.0	39.6	1.0	-54.8	-13.0	-41.8		3.3952	-17.1	H	3.0	40.2	1.0	-56.2	-13.0	-43.2	
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GSM 1900

GSM

GSM1900

GPRS

UL Korea, Ltd Suwon Laboratory

Above 1GHz High Frequency Substitution Measurement

Company:

Project #:

Date:

Test Engineer:

Configuration:

Mode:

Samsung

16K23301

04-19-16

Steven Kim

EUT / AC Adapter / Earphone / X Position

GPRS 1900

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	-8.3	V	3.0	40.5	1.0	-47.8	-13.0	-34.8	
5.5506	-11.5	V	3.0	40.8	1.0	-51.3	-13.0	-38.3	
7.4008	-6.0	V	3.0	40.8	1.0	-45.8	-13.0	-32.8	
3.7004	-14.4	H	3.0	40.5	1.0	-53.9	-13.0	-40.9	
5.5506	-5.3	H	3.0	40.8	1.0	-45.1	-13.0	-32.1	
7.4008	-8.0	H	3.0	40.8	1.0	-47.8	-13.0	-34.8	
Mid Ch, 1880.0MHz									
3.7600	-5.8	V	3.0	40.5	1.0	-45.3	-13.0	-32.3	
5.6400	-3.3	V	3.0	40.8	1.0	-43.1	-13.0	-30.1	
7.5200	-5.3	V	3.0	40.7	1.0	-45.0	-13.0	-32.0	
3.7600	-11.3	H	3.0	40.5	1.0	-50.8	-13.0	-37.8	
5.6400	-1.4	H	3.0	40.8	1.0	-41.2	-13.0	-28.2	
7.5200	-10.8	H	3.0	40.7	1.0	-50.5	-13.0	-37.5	
High Ch, 1909.8 MHz									
3.8196	-2.8	V	3.0	40.6	1.0	-42.4	-13.0	-29.4	
5.7294	-2.5	V	3.0	40.8	1.0	-42.3	-13.0	-29.3	
7.6392	-3.6	V	3.0	40.7	1.0	-43.2	-13.0	-30.2	
3.8196	-7.8	H	3.0	40.6	1.0	-47.4	-13.0	-34.4	
5.7294	-6.3	H	3.0	40.8	1.0	-46.1	-13.0	-33.1	
7.6392	-9.5	H	3.0	40.7	1.0	-49.2	-13.0	-36.2	
Rev. 03.03.09									
Note: No other emissions were detected above the system noise floor.									

GSM

GSM1900

EGPRS

UL Korea, Ltd Suwon Laboratory

Above 1GHz High Frequency Substitution Measurement

Company:

Project #:

Date:

Test Engineer:

Configuration:

Mode:

Samsung

16K23301

04-19-16

Steven Kim

EUT / AC Adapter / Earphone / X Position

EGPRS 1900 MHz

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	-12.2	V	3.0	40.5	1.0	-51.7	-13.0	-38.7	
5.5506	-6.2	V	3.0	40.8	1.0	-46.0	-13.0	-33.0	
7.4008	-9.0	V	3.0	40.8	1.0	-48.8	-13.0	-35.8	
3.7000	-16.3	H	3.0	40.5	1.0	-55.8	-13.0	-42.8	
5.5500	-10.6	H	3.0	40.8	1.0	-50.4	-13.0	-37.4	
7.4000	-10.0	H	3.0	40.8	1.0	-49.8	-13.0	-36.8	
Mid Ch, 1880.0MHz									
3.7600	-10.9	V	3.0	40.5	1.0	-50.4	-13.0	-37.4	
5.6400	-10.5	V	3.0	40.8	1.0	-50.3	-13.0	-37.3	
7.5200	-9.1	V	3.0	40.7	1.0	-48.8	-13.0	-35.8	
3.7600	-14.2	H	3.0	40.5	1.0	-53.8	-13.0	-40.8	
5.6400	-10.0	H	3.0	40.8	1.0	-49.8	-13.0	-36.8	
7.5200	-10.3	H	3.0	40.7	1.0	-50.0	-13.0	-37.0	
High Ch, 1909.8 MHz									
3.8196	-9.2	V	3.0	40.6	1.0	-48.8	-13.0	-35.8	
5.7294	-11.1	V	3.0	40.8	1.0	-50.9	-13.0	-37.9	
7.6392	-8.3	V	3.0	40.7	1.0	-48.0	-13.0	-35.0	
3.8196	-13.2	H	3.0	40.6	1.0	-52.8	-13.0	-39.8	
5.7294	-11.6	H	3.0	40.8	1.0	-51.3	-13.0	-38.3	
7.6392	-10.6	H	3.0	40.7	1.0	-50.2	-13.0	-37.2	
Rev. 03.03.09									
Note: No other emissions were detected above the system noise floor.									

WCDMA Band 5

WCDMA

Band 5

REL99

UL Korea, Ltd Suwon Laboratory

Above 1GHz High Frequency Substitution Measurement

Company: Samsung

Project #: 16K23301

Date: 04-19-16

Test Engineer: Steven Kim

Configuration: EUT / AC Adapter / Earphone / X Position

Mode: Tx, REL99,850MHz

Chamber

Pre-amplifier

Filter

Limit

Chamber 2

AFS42

Filter 1

Part 22

f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 826.40MHz									
1.6520	-18.7	V	3.0	39.1	1.0	-56.8	-13.0	-43.8	
2.4790	-16.6	V	3.0	39.5	1.0	-55.1	-13.0	-42.1	
3.3056	-15.2	V	3.0	40.1	1.0	-54.3	-13.0	-41.3	
1.6520	-19.5	H	3.0	39.1	1.0	-57.6	-13.0	-44.6	
2.4790	-16.2	H	3.0	39.5	1.0	-54.7	-13.0	-41.7	
3.3056	-15.2	H	3.0	40.1	1.0	-54.3	-13.0	-41.3	
Mid Ch, 836.6MHz									
1.6732	-18.0	V	3.0	39.1	1.0	-56.1	-13.0	-43.1	
2.5098	-17.2	V	3.0	39.5	1.0	-55.7	-13.0	-42.7	
3.3464	-15.4	V	3.0	40.1	1.0	-54.6	-13.0	-41.6	
1.6732	-19.5	H	3.0	39.1	1.0	-57.6	-13.0	-44.6	
2.5098	-16.9	H	3.0	39.5	1.0	-55.5	-13.0	-42.5	
3.3464	-15.8	H	3.0	40.1	1.0	-54.9	-13.0	-41.9	
High Ch, 846.6MHz									
1.6932	-18.2	V	3.0	39.1	1.0	-56.4	-13.0	-43.4	
2.5390	-17.4	V	3.0	39.6	1.0	-55.9	-13.0	-42.9	
3.3860	-15.5	V	3.0	40.2	1.0	-54.6	-13.0	-41.6	
1.6932	-19.3	H	3.0	39.1	1.0	-57.5	-13.0	-44.5	
2.5390	-16.6	H	3.0	39.6	1.0	-55.2	-13.0	-42.2	
3.3860	-15.7	H	3.0	40.2	1.0	-54.9	-13.0	-41.9	

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 #: 16K23301

Date: 04-19-16

Test Engineer: Steven Kim

Configuration: EUT / AC Adapter / Earphone / X Position

Mode: Tx, HSDPA,850MHz

Chamber

Pre-amplifier

Filter

Limit

Chamber 2

AFS42

Filter 1

Part 22

f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 826.40MHz									
1.6520	-19.6	V	3.0	39.1	1.0	-57.7	-13.0	-44.7	
2.4790	-16.7	V	3.0	39.5	1.0	-55.2	-13.0	-42.2	
3.3056	-15.8	V	3.0	40.1	1.0	-54.9	-13.0	-41.9	
1.6520	-21.1	H	3.0	39.1	1.0	-59.2	-13.0	-46.2	
2.4790	-17.4	H	3.0	39.5	1.0	-55.9	-13.0	-42.9	
3.3056	-16.1	H	3.0	40.1	1.0	-55.2	-13.0	-42.2	
Mid Ch, 836.6MHz									
1.6732	-19.4	V	3.0	39.1	1.0	-57.5	-13.0	-44.5	
2.5098	-17.1	V	3.0	39.5	1.0	-55.7	-13.0	-42.7	
3.3464	-15.9	V	3.0	40.1	1.0	-55.0	-13.0	-42.0	
1.6732	-20.3	H	3.0	39.1	1.0	-58.5	-13.0	-45.5	
2.5098	-16.6	H	3.0	39.5	1.0	-55.1	-13.0	-42.1	
3.3464	-16.2	H	3.0	40.1	1.0	-55.4	-13.0	-42.4	
High Ch, 846.6MHz									
1.6932	-18.8	V	3.0	39.1	1.0	-56.9	-13.0	-43.9	
2.5390	-15.7	V	3.0	39.6	1.0	-54.3	-13.0	-41.3	
3.3860	-15.6	V	3.0	40.2	1.0	-54.7	-13.0	-41.7	
1.6932	-19.6	H	3.0	39.1	1.0	-57.7	-13.0	-44.7	
2.5390	-15.9	H	3.0	39.6	1.0	-54.4	-13.0	-41.4	
3.3860	-16.0	H	3.0	40.2	1.0	-55.2	-13.0	-42.2	

Rev. 03.03.09

Note: No other emissions were detected above the system noise floor.

WCDMA Band 2

WCDMA

Band 2

REL99

UL Korea, Ltd Suwon Laboratory

Above 1GHz High Frequency Substitution Measurement

Company: Samsung

Project #: 16K23301

Date: 04-19-16

Test Engineer: Steven Kim

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	-4.7	V	3.0	40.5	1.0	-44.2	-13.0	-31.2	
5.5572	-9.8	V	3.0	40.8	1.0	-49.6	-13.0	-36.6	
7.4096	-8.1	V	3.0	40.8	1.0	-47.9	-13.0	-34.9	
3.7048	-9.9	H	3.0	40.5	1.0	-49.4	-13.0	-36.4	
5.5572	-10.5	H	3.0	40.8	1.0	-50.3	-13.0	-37.3	
7.4096	-9.2	H	3.0	40.8	1.0	-49.0	-13.0	-36.0	
Mid Ch, 1880MHz									
3.7600	-3.0	V	3.0	40.5	1.0	-42.6	-13.0	-29.6	
5.6400	-8.5	V	3.0	40.8	1.0	-48.3	-13.0	-35.3	
7.5200	-7.0	V	3.0	40.7	1.0	-46.7	-13.0	-33.7	
3.7600	-4.9	H	3.0	40.5	1.0	-44.5	-13.0	-31.5	
5.6400	-9.2	H	3.0	40.8	1.0	-49.0	-13.0	-36.0	
7.5200	-8.6	H	3.0	40.7	1.0	-48.3	-13.0	-35.3	
High Ch, 1907.6MHz									
3.8152	0.2	V	3.0	40.6	1.0	-39.4	-13.0	-26.4	
5.7228	-7.2	V	3.0	40.8	1.0	-47.0	-13.0	-34.0	
7.6304	-3.9	V	3.0	40.7	1.0	-43.6	-13.0	-30.6	
3.8152	-4.7	H	3.0	40.6	1.0	-44.3	-13.0	-31.3	
5.7228	-10.3	H	3.0	40.8	1.0	-50.1	-13.0	-37.1	
7.6304	-8.6	H	3.0	40.7	1.0	-48.3	-13.0	-35.3	

Rev. 03.03.09

Note: No other emissions were detected above the system noise floor.

WCDMA

Band 2

HSDPA

UL Korea, Ltd Suwon Laboratory

Above 1GHz High Frequency Substitution Measurement

Company: Samsung

Project #: 16K23301

Date: 04-19-16

Test Engineer: Steven Kim

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	-7.1	V	3.0	40.5	1.0	-46.6	-13.0	-33.6	
5.5572	-10.9	V	3.0	40.8	1.0	-50.7	-13.0	-37.7	
7.4096	-7.8	V	3.0	40.8	1.0	-47.6	-13.0	-34.6	
3.7048	-12.5	H	3.0	40.5	1.0	-52.0	-13.0	-39.0	
5.5572	-11.5	H	3.0	40.8	1.0	-51.3	-13.0	-38.3	
7.4096	-9.4	H	3.0	40.8	1.0	-49.2	-13.0	-36.2	
Mid Ch, 1880MHz									
3.7600	-4.9	V	3.0	40.5	1.0	-44.4	-13.0	-31.4	
5.6400	-10.4	V	3.0	40.8	1.0	-50.2	-13.0	-37.2	
7.5200	-6.7	V	3.0	40.7	1.0	-46.4	-13.0	-33.4	
3.7600	-7.6	H	3.0	40.5	1.0	-47.1	-13.0	-34.1	
5.6400	-11.2	H	3.0	40.8	1.0	-51.0	-13.0	-38.0	
7.5200	-8.8	H	3.0	40.7	1.0	-48.6	-13.0	-35.6	
High Ch, 1907.6MHz									
3.8152	2.5	V	3.0	40.6	1.0	-37.1	-13.0	-24.1	
5.7228	-8.5	V	3.0	40.8	1.0	-48.3	-13.0	-35.3	
7.6304	-4.6	V	3.0	40.7	1.0	-44.3	-13.0	-31.3	
3.8152	-2.6	H	3.0	40.6	1.0	-42.2	-13.0	-29.2	
5.7228	-10.4	H	3.0	40.8	1.0	-50.2	-13.0	-37.2	
7.6304	-8.7	H	3.0	40.7	1.0	-48.4	-13.0	-35.4	

Rev. 03.03.09

Note: No other emissions were detected above the system noise floor.

LTE Band 41 15MHz QPSK	UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement Company: Samsung Project#: 16K23301 Date: 04-23-16 Test Engineer: Steven Kim Configuration: EUT / AC Adapter / Ear Phone / X-Position Mode: TX, LTE BAND 41, 15MHz BW,QPSK Chamber Chamber 2 Pre-amplifier AFS42 Filter Filter 1 Limit FCC Part 27 <table> <tr> <th>f GHz</th><th>SGreading (dBm)</th><th>Ant. Pol. (H/V)</th><th>Distance (m)</th><th>Preamp (dB)</th><th>Filter (dB)</th><th>ERP (dBm)</th><th>Limit (dBm)</th><th>Delta (dB)</th><th>Notes</th></tr> <tr><td colspan="10">Low Ch, (2562.5 MHz)</td></tr> <tr><td>5.1250</td><td>-17.1</td><td>V</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-57.0</td><td>-25.0</td><td>-32.0</td><td></td></tr> <tr><td>7.6875</td><td>-15.2</td><td>V</td><td>3.0</td><td>40.6</td><td>1.0</td><td>-54.8</td><td>-25.0</td><td>-29.8</td><td></td></tr> <tr><td>10.2500</td><td>-11.0</td><td>V</td><td>3.0</td><td>39.5</td><td>1.0</td><td>-49.5</td><td>-25.0</td><td>-24.5</td><td></td></tr> <tr><td>5.1250</td><td>-17.1</td><td>H</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-57.0</td><td>-25.0</td><td>-32.0</td><td></td></tr> <tr><td>7.6875</td><td>-15.4</td><td>H</td><td>3.0</td><td>40.6</td><td>1.0</td><td>-55.0</td><td>-25.0</td><td>-30.0</td><td></td></tr> <tr><td>10.2500</td><td>-13.6</td><td>H</td><td>3.0</td><td>39.5</td><td>1.0</td><td>-52.1</td><td>-25.0</td><td>-27.1</td><td></td></tr> <tr><td colspan="10">Mid Ch, (2605 MHz)</td></tr> <tr><td>5.2100</td><td>-16.3</td><td>V</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-56.2</td><td>-25.0</td><td>-31.2</td><td></td></tr> <tr><td>7.8150</td><td>-14.9</td><td>V</td><td>3.0</td><td>40.6</td><td>1.0</td><td>-54.5</td><td>-25.0</td><td>-29.5</td><td></td></tr> <tr><td>10.4200</td><td>-10.4</td><td>V</td><td>3.0</td><td>39.4</td><td>1.0</td><td>-48.8</td><td>-25.0</td><td>-23.8</td><td></td></tr> <tr><td>5.2100</td><td>-16.8</td><td>H</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-56.7</td><td>-25.0</td><td>-31.7</td><td></td></tr> <tr><td>7.8150</td><td>-15.5</td><td>H</td><td>3.0</td><td>40.6</td><td>1.0</td><td>-55.0</td><td>-25.0</td><td>-30.0</td><td></td></tr> <tr><td>10.4200</td><td>-12.9</td><td>H</td><td>3.0</td><td>39.4</td><td>1.0</td><td>-51.3</td><td>-25.0</td><td>-26.3</td><td></td></tr> <tr><td colspan="10">High Ch, (2647.5 MHz)</td></tr> <tr><td>5.2950</td><td>-17.1</td><td>V</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-57.0</td><td>-25.0</td><td>-32.0</td><td></td></tr> <tr><td>7.9425</td><td>-14.3</td><td>V</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-53.7</td><td>-25.0</td><td>-28.7</td><td></td></tr> <tr><td>10.5900</td><td>-10.8</td><td>V</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-49.1</td><td>-25.0</td><td>-24.1</td><td></td></tr> <tr><td>5.2950</td><td>-17.1</td><td>H</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-57.0</td><td>-25.0</td><td>-32.0</td><td></td></tr> <tr><td>7.9425</td><td>-14.0</td><td>H</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-53.4</td><td>-25.0</td><td>-28.4</td><td></td></tr> <tr><td>10.5900</td><td>-12.2</td><td>H</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-50.4</td><td>-25.0</td><td>-25.4</td><td></td></tr> </table> Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.	f GHz	SGreading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes	Low Ch, (2562.5 MHz)										5.1250	-17.1	V	3.0	40.9	1.0	-57.0	-25.0	-32.0		7.6875	-15.2	V	3.0	40.6	1.0	-54.8	-25.0	-29.8		10.2500	-11.0	V	3.0	39.5	1.0	-49.5	-25.0	-24.5		5.1250	-17.1	H	3.0	40.9	1.0	-57.0	-25.0	-32.0		7.6875	-15.4	H	3.0	40.6	1.0	-55.0	-25.0	-30.0		10.2500	-13.6	H	3.0	39.5	1.0	-52.1	-25.0	-27.1		Mid Ch, (2605 MHz)										5.2100	-16.3	V	3.0	40.9	1.0	-56.2	-25.0	-31.2		7.8150	-14.9	V	3.0	40.6	1.0	-54.5	-25.0	-29.5		10.4200	-10.4	V	3.0	39.4	1.0	-48.8	-25.0	-23.8		5.2100	-16.8	H	3.0	40.9	1.0	-56.7	-25.0	-31.7		7.8150	-15.5	H	3.0	40.6	1.0	-55.0	-25.0	-30.0		10.4200	-12.9	H	3.0	39.4	1.0	-51.3	-25.0	-26.3		High Ch, (2647.5 MHz)										5.2950	-17.1	V	3.0	40.9	1.0	-57.0	-25.0	-32.0		7.9425	-14.3	V	3.0	40.5	1.0	-53.7	-25.0	-28.7		10.5900	-10.8	V	3.0	39.3	1.0	-49.1	-25.0	-24.1		5.2950	-17.1	H	3.0	40.9	1.0	-57.0	-25.0	-32.0		7.9425	-14.0	H	3.0	40.5	1.0	-53.4	-25.0	-28.4		10.5900	-12.2	H	3.0	39.3	1.0	-50.4	-25.0	-25.4	
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LTE Band 41 15MHz 16QAM	UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement Company: Samsung Project#: 16K23301 Date: 04-23-16 Test Engineer: Steven Kim Configuration: EUT / AC Adapter / Ear Phone / X-Position Mode: TX, LTE BAND 41, 15MHz BW,16QAM Chamber Chamber 2 Pre-amplifier AFS42 Filter Filter 1 Limit FCC Part 27 <table> <tr> <th>f GHz</th><th>SGreading (dBm)</th><th>Ant. Pol. (H/V)</th><th>Distance (m)</th><th>Preamp (dB)</th><th>Filter (dB)</th><th>ERP (dBm)</th><th>Limit (dBm)</th><th>Delta (dB)</th><th>Notes</th></tr> <tr><td colspan="10">Low Ch, (2562.5 MHz)</td></tr> <tr><td>5.1250</td><td>-17.9</td><td>V</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-57.8</td><td>-25.0</td><td>-32.8</td><td></td></tr> <tr><td>7.6875</td><td>-15.3</td><td>V</td><td>3.0</td><td>40.6</td><td>1.0</td><td>-55.0</td><td>-25.0</td><td>-30.0</td><td></td></tr> <tr><td>10.2500</td><td>-11.4</td><td>V</td><td>3.0</td><td>39.5</td><td>1.0</td><td>-49.9</td><td>-25.0</td><td>-24.9</td><td></td></tr> <tr><td>5.1250</td><td>-17.6</td><td>H</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-57.5</td><td>-25.0</td><td>-32.5</td><td></td></tr> <tr><td>7.6875</td><td>-15.4</td><td>H</td><td>3.0</td><td>40.6</td><td>1.0</td><td>-55.1</td><td>-25.0</td><td>-30.1</td><td></td></tr> <tr><td>10.2500</td><td>-14.1</td><td>H</td><td>3.0</td><td>39.5</td><td>1.0</td><td>-52.6</td><td>-25.0</td><td>-27.6</td><td></td></tr> <tr><td colspan="10">Mid Ch, (2605 MHz)</td></tr> <tr><td>5.2100</td><td>-17.0</td><td>V</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-56.9</td><td>-25.0</td><td>-31.9</td><td></td></tr> <tr><td>7.8150</td><td>-14.9</td><td>V</td><td>3.0</td><td>40.6</td><td>1.0</td><td>-54.5</td><td>-25.0</td><td>-29.5</td><td></td></tr> <tr><td>10.4200</td><td>-10.8</td><td>V</td><td>3.0</td><td>39.4</td><td>1.0</td><td>-49.1</td><td>-25.0</td><td>-24.1</td><td></td></tr> <tr><td>5.2100</td><td>-17.5</td><td>H</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-57.4</td><td>-25.0</td><td>-32.4</td><td></td></tr> <tr><td>7.8150</td><td>-15.5</td><td>H</td><td>3.0</td><td>40.6</td><td>1.0</td><td>-55.1</td><td>-25.0</td><td>-30.1</td><td></td></tr> <tr><td>10.4200</td><td>-13.7</td><td>H</td><td>3.0</td><td>39.4</td><td>1.0</td><td>-52.1</td><td>-25.0</td><td>-27.1</td><td></td></tr> <tr><td colspan="10">High Ch, (2647.5 MHz)</td></tr> <tr><td>5.2950</td><td>-17.9</td><td>V</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-57.7</td><td>-25.0</td><td>-32.7</td><td></td></tr> <tr><td>7.9425</td><td>-14.3</td><td>V</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-53.8</td><td>-25.0</td><td>-28.8</td><td></td></tr> <tr><td>10.5900</td><td>-11.3</td><td>V</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-49.6</td><td>-25.0</td><td>-24.6</td><td></td></tr> <tr><td>5.2950</td><td>-17.8</td><td>H</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-57.7</td><td>-25.0</td><td>-32.7</td><td></td></tr> <tr><td>7.9425</td><td>-14.0</td><td>H</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-53.5</td><td>-25.0</td><td>-28.5</td><td></td></tr> <tr><td>10.5900</td><td>-12.5</td><td>H</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-50.7</td><td>-25.0</td><td>-25.7</td><td></td></tr> </table> Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.	f GHz	SGreading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes	Low Ch, (2562.5 MHz)										5.1250	-17.9	V	3.0	40.9	1.0	-57.8	-25.0	-32.8		7.6875	-15.3	V	3.0	40.6	1.0	-55.0	-25.0	-30.0		10.2500	-11.4	V	3.0	39.5	1.0	-49.9	-25.0	-24.9		5.1250	-17.6	H	3.0	40.9	1.0	-57.5	-25.0	-32.5		7.6875	-15.4	H	3.0	40.6	1.0	-55.1	-25.0	-30.1		10.2500	-14.1	H	3.0	39.5	1.0	-52.6	-25.0	-27.6		Mid Ch, (2605 MHz)										5.2100	-17.0	V	3.0	40.9	1.0	-56.9	-25.0	-31.9		7.8150	-14.9	V	3.0	40.6	1.0	-54.5	-25.0	-29.5		10.4200	-10.8	V	3.0	39.4	1.0	-49.1	-25.0	-24.1		5.2100	-17.5	H	3.0	40.9	1.0	-57.4	-25.0	-32.4		7.8150	-15.5	H	3.0	40.6	1.0	-55.1	-25.0	-30.1		10.4200	-13.7	H	3.0	39.4	1.0	-52.1	-25.0	-27.1		High Ch, (2647.5 MHz)										5.2950	-17.9	V	3.0	40.9	1.0	-57.7	-25.0	-32.7		7.9425	-14.3	V	3.0	40.5	1.0	-53.8	-25.0	-28.8		10.5900	-11.3	V	3.0	39.3	1.0	-49.6	-25.0	-24.6		5.2950	-17.8	H	3.0	40.9	1.0	-57.7	-25.0	-32.7		7.9425	-14.0	H	3.0	40.5	1.0	-53.5	-25.0	-28.5		10.5900	-12.5	H	3.0	39.3	1.0	-50.7	-25.0	-25.7	
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