

6.10 Radiated Spurious Emission Measurements

§15.247(d) / §15.205 & §15.209; RSS-210 [A8.5]

The EUT was tested from 9kHz up to the tenth harmonic of the fundamental frequency of the transmitter using CISPR quasi peak detector below 1GHz. Above 1 GHz, average measurements were taken using RBW = 1MHz, VBW = 10Hz, and linearly polarized horn antennas. Peak measurements were taken using RBW = VBW = 1MHz. All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR must not exceed the limits shown in Table 6-9 per Section 15.209.

All data rates and modes were investigated for radiated spurious emissions. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

Frequency	Field Strength [$\mu\text{V/m}$]	Measured Distance [Meters]
0.009 – 0.490 MHz	2400/F (kHz)	300
0.490 – 1.705 MHz	24000/F (kHz)	30
1.705 – 30.00 MHz	30	30
30.00 – 88.00 MHz	100	3
88.00 – 216.0 MHz	150	3
216.0 – 960.0 MHz	200	3
Above 960.0 MHz	500	3



Table 6-9. Radiated Limits

Sample Calculation

- Field Strength Level [$\text{dB}_{\mu\text{V/m}}$] = Analyzer Level [dBm] + 107 + AFCL [dB]

Notes:

- AFCL = Antenna Factor [dB] + Cable Loss [dB]

FCC ID: A3LSWDSC11		FCC Pt. 15.247 802.11a/b/g/n MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
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Radiated Spurious Emission Measurements (Cont'd)

§15.247(d) / §15.205 & §15.209; RSS-210 [A8.5]

Mode: 802.11b

Transfer Rate: 1 Mbps

Distance of Measurements: 3 Meters

Operating Frequency: 2412MHz



Channel: 01

Frequency [MHz]	Analyzer Level [dBm]	Detector	Pol. [H/V]	AFCL [dB]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
4824.00	-92.43	Avg	H	39.23	53.80	53.98	-0.18
4824.00	-89.21	Peak	H	39.23	57.02	73.98	-16.96
12060.00	-135.00	Avg	H	51.76	23.76	53.98	-30.22
12060.00	-125.00	Peak	H	51.76	33.76	73.98	-40.22

Table 6-10. Radiated Measurements @ 3 meters

NOTES:

- All emissions shown lie in the restricted bands specified in §15.205 are below the limit shown in Table 6-9.
- Average measurements > 1GHz are performed using RBW = 1MHz and VBW = 10Hz. Peak measurements > 1GHz are performed using RBW = VBW = 1MHz.
- The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
- The EUT is supplied with nominal AC voltage and/or a new/fully-recharged battery.
- The spectrum is measured from 9kHz to the 10th harmonic and the worst-case emissions are reported. No significant emissions were found beyond the fifth harmonic for this device.
- Levels at - 135 dBm represent the analyzer noise floor and signify that no emission was detected.
- Above 960MHz the limit is 500 μ V/m (54dB μ /m) at 3 meters radiated.

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Radiated Spurious Emission Measurements (Cont'd)

§15.247(d) / §15.205 & §15.209; RSS-210 [A8.5]

Mode: 802.11b

Transfer Rate: 1 Mbps

Distance of Measurements: 3 Meters

Operating Frequency: 2437MHz



Channel: 06

Frequency [MHz]	Analyzer Level [dBm]	Detector	Pol. [H/V]	AFCL [dB]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
4874.00	-93.29	Avg	H	39.28	52.99	53.98	-0.99
4874.00	-89.67	Peak	H	39.28	56.61	73.98	-17.37
7311.00	-103.04	Avg	H	42.36	46.32	53.98	-7.66
7311.00	-95.63	Peak	H	42.36	53.73	73.98	-20.25
12185.00	-135.00	Avg	H	52.21	24.21	53.98	-29.77
12185.00	-125.00	Peak	H	52.21	34.21	73.98	-39.77

Table 6-11. Radiated Measurements @ 3 meters

NOTES:

- All emissions shown lie in the restricted bands specified in §15.205 are below the limit shown in Table 6-9.
- Average measurements > 1GHz are performed using RBW = 1MHz and VBW = 10Hz. Peak measurements > 1GHz are performed using RBW = VBW = 1MHz.
- The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
- The EUT is supplied with nominal AC voltage and/or a new/fully-recharged battery.
- The spectrum is measured from 9kHz to the 10th harmonic and the worst-case emissions are reported. No significant emissions were found beyond the fifth harmonic for this device.
- Levels at - 135 dBm represent the analyzer noise floor and signify that no emission was detected.
- Above 960MHz the limit is 500 μ V/m (54dB μ /m) at 3 meters radiated.

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Radiated Spurious Emission Measurements (Cont'd)

§15.247(d) / §15.205 & §15.209; RSS-210 [A8.5]

Mode: 802.11b

Transfer Rate: 1 Mbps

Distance of Measurements: 3 Meters

Operating Frequency: 2462MHz



Channel: 11

Frequency [MHz]	Analyzer Level [dBm]	Detector	Pol. [H/V]	AFCL [dB]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
4924.00	-93.79	Avg	H	39.29	52.49	53.98	-1.49
4924.00	-90.14	Peak	H	39.29	56.14	73.98	-17.84
7386.00	-100.03	Avg	H	42.47	49.44	53.98	-4.54
7386.00	-93.64	Peak	H	42.47	55.83	73.98	-18.15
12310.00	-135.00	Avg	H	52.60	24.60	53.98	-29.38
12310.00	-125.00	Peak	H	52.60	34.60	73.98	-39.38

Table 6-12. Radiated Measurements @ 3 meters

NOTES:

- All emissions shown lie in the restricted bands specified in §15.205 are below the limit shown in Table 6-9.
- Average measurements > 1GHz are performed using RBW = 1MHz and VBW = 10Hz. Peak measurements > 1GHz are performed using RBW = VBW = 1MHz.
- The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
- The EUT is supplied with nominal AC voltage and/or a new/fully-recharged battery.
- The spectrum is measured from 9kHz to the 10th harmonic and the worst-case emissions are reported. No significant emissions were found beyond the fifth harmonic for this device.
- Levels at - 135 dBm represent the analyzer noise floor and signify that no emission was detected.
- Above 960MHz the limit is 500 μ V/m (54dB μ /m) at 3 meters radiated.

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Radiated Spurious Emission Measurements (Cont'd)
§15.247(d) / §15.205 & §15.209; RSS-210 [A8.5]



Mode: 802.11a
 Transfer Rate: 6 Mbps
 Distance of Measurements: 1 Meter
 Operating Frequency: 5745MHz
 Channel: 149

Frequency [MHz]	Analyzer Level [dBm]	Detector	Pol. [H/V]	AFCL [dB]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
11490.00	-111.31	Avg	H	55.44	-9.54	41.6	53.98	-12.39
11490.00	-98.01	Peak	H	55.44	-9.54	54.9	73.98	-19.09
22980.00	-135.00	Avg	H	58.94	0.00	30.9	53.98	-23.04
22980.00	-125.00	Peak	H	58.94	0.00	40.9	73.98	-33.04

Table 6-13. Radiated Measurements @ 1 meter

NOTES:

- All emissions shown lie in the restricted bands specified in §15.205 are below the limit shown in Table 6-9.
- Average measurements > 1GHz are performed using RBW = 1MHz and VBW = 10Hz. Peak measurements > 1GHz are performed using RBW = VBW = 1MHz.
- The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
- The EUT is supplied with nominal AC voltage and/or a new/fully-recharged battery.
- The spectrum is measured from 9kHz to the 10th harmonic and the worst-case emissions are reported. No significant emissions were found beyond the fifth harmonic for this device.
- Levels at - 135 dBm represent the analyzer noise floor and signify that no emission was detected.
- Above 960MHz the limit is 500 μV/m (54dBμ/m) at 3 meters radiated.

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Radiated Spurious Emission Measurements (Cont'd)
§15.247(d) / §15.205 & §15.209; RSS-210 [A8.5]



Mode: 802.11a
 Transfer Rate: 6 Mbps
 Distance of Measurements: 1 Meter
 Operating Frequency: 5785MHz
 Channel: 157

Frequency [MHz]	Analyzer Level [dBm]	Detector	Pol. [H/V]	AFCL [dB]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
11570.00	-111.03	Avg	H	55.35	-9.54	41.8	53.98	-12.20
11570.00	-97.79	Peak	H	55.35	-9.54	55.0	73.98	-18.96

Table 6-14. Radiated Measurements @ 1 meter

NOTES:

- All emissions shown lie in the restricted bands specified in §15.205 are below the limit shown in Table 6-9.
- Average measurements > 1GHz are performed using RBW = 1MHz and VBW = 10Hz. Peak measurements > 1GHz are performed using RBW = VBW = 1MHz.
- The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
- The EUT is supplied with nominal AC voltage and/or a new/fully-recharged battery.
- The spectrum is measured from 9kHz to the 10th harmonic and the worst-case emissions are reported. No significant emissions were found beyond the fifth harmonic for this device.
- Levels at - 135 dBm represent the analyzer noise floor and signify that no emission was detected.
- Above 960MHz the limit is 500 μV/m (54dBμ/m) at 3 meters radiated.

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Radiated Spurious Emission Measurements (Cont'd)

§15.247(d) / §15.205 & §15.209; RSS-210 [A8.5]

Mode: 802.11a

Transfer Rate: 6 Mbps

Distance of Measurements: 1 Meter

Operating Frequency: 5825MHz



Channel: 165

Frequency [MHz]	Analyzer Level [dBm]	Detector	Pol. [H/V]	AFCL [dB]	Distance Correction Factor [dB]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
11650.00	-110.92	Avg	H	55.40	-9.54	41.9	53.98	-12.04
11650.00	-96.26	Peak	H	55.40	-9.54	56.6	73.98	-17.38

Table 6-15. Radiated Measurements @ 1 meter

NOTES:

- All emissions shown lie in the restricted bands specified in §15.205 are below the limit shown in Table 6-9.
- Average measurements > 1GHz are performed using RBW = 1MHz and VBW = 10Hz. Peak measurements > 1GHz are performed using RBW = VBW = 1MHz.
- The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
- The EUT is supplied with nominal AC voltage and/or a new/fully-recharged battery.
- The spectrum is measured from 9kHz to the 10th harmonic and the worst-case emissions are reported. No significant emissions were found beyond the fifth harmonic for this device.
- Levels at - 135 dBm represent the analyzer noise floor and signify that no emission was detected.
- Above 960MHz the limit is 500 μ V/m (54dB μ /m) at 3 meters radiated.

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6.11 Radiated Restricted Band Edge Measurements

§15.205 / §15.209; RSS-210 [A8.5]

Mode: 802.11g

Transfer Rate: 6Mbps

Distance of Measurements: 3 Meters

Operating Frequency: 2412MHz



Channel: 1

Frequency [MHz]	Analyzer Level [dBm]	Detector	Pol. [H/V]	AFCL [dB]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
2377.05	-114.07	Avg	H	35.34	28.28	53.98	-25.70
2377.05	-97.13	Peak	H	35.34	45.22	73.98	-28.76
2381.15	-113.16	Avg	H	35.38	29.23	53.98	-24.75
2381.15	-94.81	Peak	H	35.38	47.58	73.98	-26.40
2390.00	-108.87	Avg	H	35.47	33.60	53.98	-20.38
2390.00	-91.57	Peak	H	35.47	50.90	73.98	-23.08

Table 6-16. Radiated Restricted Band Measurements at 3-meters

NOTES:

- All emissions shown lie in the restricted bands specified in §15.205 are below the limit shown in Table 6-9.
- Average measurements > 1GHz are performed using RBW = 1MHz and VBW = 10Hz. Peak measurements > 1GHz are performed using RBW = VBW = 1MHz.
- The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
- The EUT is supplied with nominal AC voltage and/or a new/fully-recharged battery.
- The spectrum is measured from 9kHz to the 10th harmonic and the worst-case emissions are reported. No significant emissions were found beyond the fifth harmonic for this device.
- Levels at - 135 dBm represent the analyzer noise floor and signify that no emission was detected.
- Above 960MHz the limit is 500 μ V/m (54dB μ /m) at 3 meters radiated.

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Radiated Restricted Band Edge Measurements (Cont'd)

§15.205 / §15.209; RSS-210 [A8.5]

Mode: 802.11g

Transfer Rate: 6Mbps

Distance of Measurements: 3 Meters

Operating Frequency: 2462MHz



Channel: 11

Frequency [MHz]	Analyzer Level [dBm]	Detector	Pol. [H/V]	AFCL [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
2483.61	-107.92	Avg	H	36.39	35.47	53.98	-18.51
2483.61	-84.17	Peak	H	36.39	59.22	73.98	-14.76
2484.69	-108.42	Avg	H	36.40	34.98	53.98	-19.00
2484.69	-84.85	Peak	H	36.40	58.55	73.98	-15.43
2487.18	-108.92	Avg	H	36.42	34.50	53.98	-19.48
2487.18	-85.73	Peak	H	36.42	57.69	73.98	-16.29

Table 6-17. Radiated Restricted Band Measurements at 3-meters

NOTES:

- All emissions shown lie in the restricted bands specified in §15.205 are below the limit shown in Table 6-9.
- Average measurements > 1GHz are performed using RBW = 1MHz and VBW = 10Hz. Peak measurements > 1GHz are performed using RBW = VBW = 1MHz.
- The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
- The EUT is supplied with nominal AC voltage and/or a new/fully-recharged battery.
- The spectrum is measured from 9kHz to the 10th harmonic and the worst-case emissions are reported. No significant emissions were found beyond the fifth harmonic for this device.
- Levels at - 135 dBm represent the analyzer noise floor and signify that no emission was detected.
- Above 960MHz the limit is 500 μV/m (54dBμ/m) at 3 meters radiated.

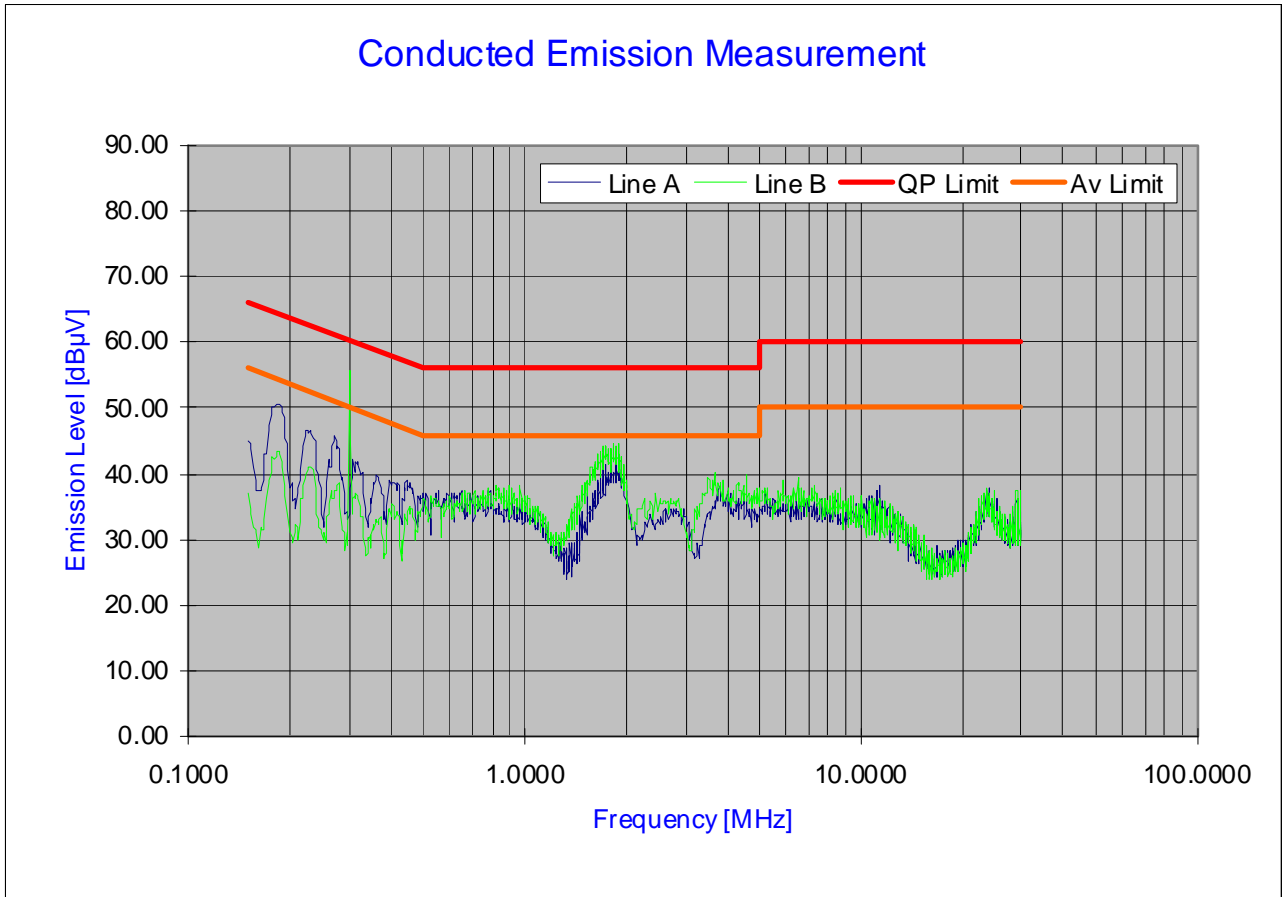
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6.12 Line-Conducted Test Data
§15.207; RSS-Gen [7.2.2]

PCTEST Engineering Laboratory Inc.

Company : Samsung Electronics, Co. Ltd.
 Model Number : CDMA SCI11
 FCC ID Code : A3LSWDSCI11
 Standard : FCC Part 15C, 15.207

Power Source : AC120V/60Hz
 Tested Date : 12/01/2011
 Note : Tested with 802.11b ON





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Plot 6-53. Line Conducted Plot with 802.11b

Notes:

1. All Modes of operation were investigated and the worst-case emissions are reported using 1Mbps.
2. The limit for Class B device(s) from 150kHz to 30MHz are specified in Section 15.207 of the Title 47 CFR.
3. Line A = Phase; Line B = Neutral
4. Traces shown in plot are made using a peak detector.
5. Deviations to the Specifications: None.

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Line-Conducted Test Data (Cont'd)
§15.207; RSS-Gen [7.2.2]

No.	Line	Frequency [MHz]	Factor [dB]	QP [dBμV]	Limit [dBμV]	Margin [dB]	Average [dBμV]	Limit [dBμV]	Margin [dB]
1	A	0.181	6.86	46.19	64.43	-18.24	35.25	54.43	-19.18
2	A	0.273	6.90	37.63	61.04	-23.41	24.65	51.04	-26.39
3	A	1.707	7.13	35.22	56.00	-20.78	27.03	46.00	-18.97
4	A	1.734	7.13	34.96	56.00	-21.04	27.24	46.00	-18.76
5	A	1.790	7.13	36.26	56.00	-19.74	27.71	46.00	-18.29
6	A	1.801	7.13	36.04	56.00	-19.96	28.27	46.00	-17.73
7	A	1.832	7.14	36.01	56.00	-19.99	28.18	46.00	-17.82
8	A	1.846	7.14	36.19	56.00	-19.81	27.32	46.00	-18.68
9	A	1.859	7.14	35.99	56.00	-20.01	27.46	46.00	-18.54
10	A	1.910	7.14	35.22	56.00	-20.78	26.34	46.00	-19.66
11	B	0.284	6.91	31.87	60.69	-28.82	21.68	50.69	-29.01
12	B	1.571	7.11	35.86	56.00	-20.14	25.63	46.00	-20.37
13	B	1.658	7.12	37.81	56.00	-18.19	26.80	46.00	-19.20
14	B	1.660	7.12	37.50	56.00	-18.50	26.32	46.00	-19.68
15	B	1.701	7.12	38.53	56.00	-17.47	27.30	46.00	-18.70
16	B	1.744	7.13	38.68	56.00	-17.32	27.59	46.00	-18.41
17	B	1.749	7.13	38.53	56.00	-17.47	27.58	46.00	-18.42
18	B	1.791	7.13	38.58	56.00	-17.42	27.28	46.00	-18.72
19	B	1.837	7.14	38.57	56.00	-17.43	27.59	46.00	-18.41
20	B	1.882	7.14	37.27	56.00	-18.73	26.51	46.00	-19.49

Table 6-18. Line Conducted Data with 802.11b

Notes:

1. All Modes of operation were investigated and the worst-case emissions are reported using 1Mbps.
2. The limit for Class B device(s) from 150kHz to 30MHz are specified in Section 15.207 of the Title 47 CFR.
3. Line A = Phase; Line B = Neutral
4. Traces shown in plot are made using a peak detector.
5. Deviations to the Specifications: None.

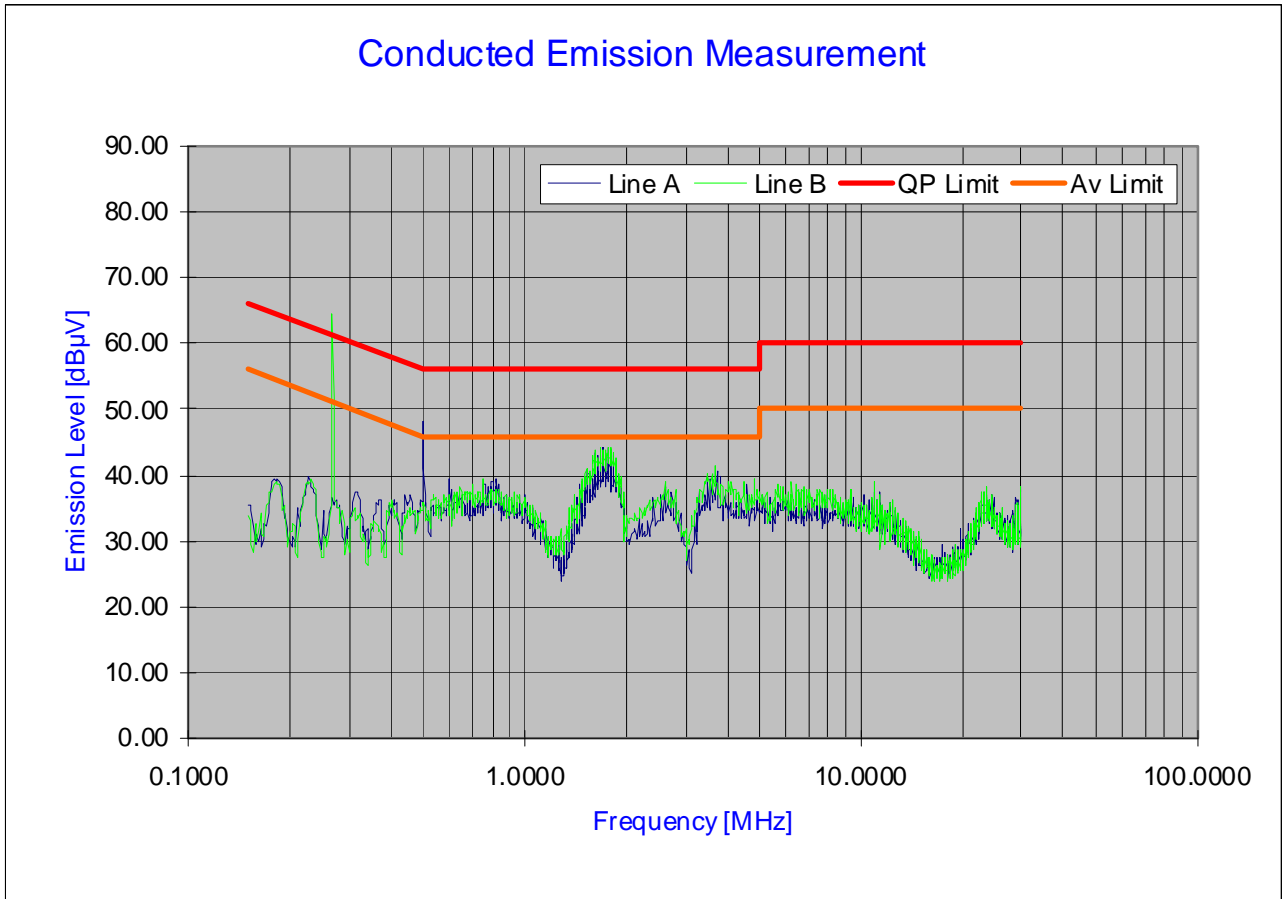
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Line-Conducted Test Data (Cont'd)
§15.207; RSS-Gen [7.2.2]

PCTEST Engineering Laboratory Inc.

Company : Samsung Electronics, Co. Ltd.
 Model Number : CDMA SCI11
 FCC ID Code : A3LSWDSCI11
 Standard : FCC Part 15C, 15.207

Power Source : AC120V/60Hz
 Tested Date : 12/01/2011
 Note : Tested with 802.11g ON





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Plot 6-54. Line Conducted Plot with 802.11g

Notes:

1. All Modes of operation were investigated and the worst-case emissions are reported using 6Mbps.
2. The limit for Class B device(s) from 150kHz to 30MHz are specified in Section 15.207 of the Title 47 CFR.
3. Line A = Phase; Line B = Neutral
4. Traces shown in plot are made using a peak detector.
5. Deviations to the Specifications: None.

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Line-Conducted Test Data (Cont'd)
§15.207; RSS-Gen [7.2.2]

No.	Line	Frequency [MHz]	Factor [dB]	QP [dBμV]	Limit [dBμV]	Margin [dB]	Average [dBμV]	Limit [dBμV]	Margin [dB]
1	A	0.495	6.97	31.88	56.08	-24.20	23.82	46.08	-22.26
2	A	1.612	7.12	34.48	56.00	-21.52	26.28	46.00	-19.72
3	A	1.644	7.12	34.57	56.00	-21.43	26.33	46.00	-19.67
4	A	1.657	7.12	35.31	56.00	-20.69	26.76	46.00	-19.24
5	A	1.679	7.12	35.32	56.00	-20.68	27.35	46.00	-18.65
6	A	1.700	7.12	35.95	56.00	-20.05	27.21	46.00	-18.79
7	A	1.705	7.12	36.09	56.00	-19.91	27.62	46.00	-18.38
8	A	1.748	7.13	36.19	56.00	-19.81	27.19	46.00	-18.81
9	A	1.785	7.13	35.96	56.00	-20.04	27.18	46.00	-18.82
10	A	1.832	7.14	35.77	56.00	-20.23	26.91	46.00	-19.09
11	B	0.269	6.90	33.91	61.16	-27.25	23.75	51.16	-27.41
12	B	1.513	7.11	34.83	56.00	-21.17	24.86	46.00	-21.14
13	B	1.522	7.11	35.40	56.00	-20.60	25.16	46.00	-20.84
14	B	1.614	7.12	37.05	56.00	-18.95	26.02	46.00	-19.98
15	B	1.698	7.12	38.45	56.00	-17.55	26.87	46.00	-19.13
16	B	1.750	7.13	38.40	56.00	-17.60	27.11	46.00	-18.89
17	B	1.788	7.13	38.46	56.00	-17.54	27.14	46.00	-18.86
18	B	1.882	7.14	35.67	56.00	-20.33	25.31	46.00	-20.69
19	B	3.495	7.32	34.30	56.00	-21.70	24.80	46.00	-21.20
20	B	3.588	7.33	33.91	56.00	-22.09	24.56	46.00	-21.44

Table 6-19. Line Conducted Data with 802.11g

Notes:

1. All Modes of operation were investigated and the worst-case emissions are reported using 6Mbps.
2. The limit for Class B device(s) from 150kHz to 30MHz are specified in Section 15.207 of the Title 47 CFR.
3. Line A = Phase; Line B = Neutral
4. Traces shown in plot are made using a peak detector.
5. Deviations to the Specifications: None.

FCC ID: A3LSWDSC11		FCC Pt. 15.247 802.11a/b/g/n MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1111212022.A3L	Test Dates: 11/24/11-12/12/11	EUT Type: Portable Handset	Page 58 of 65	

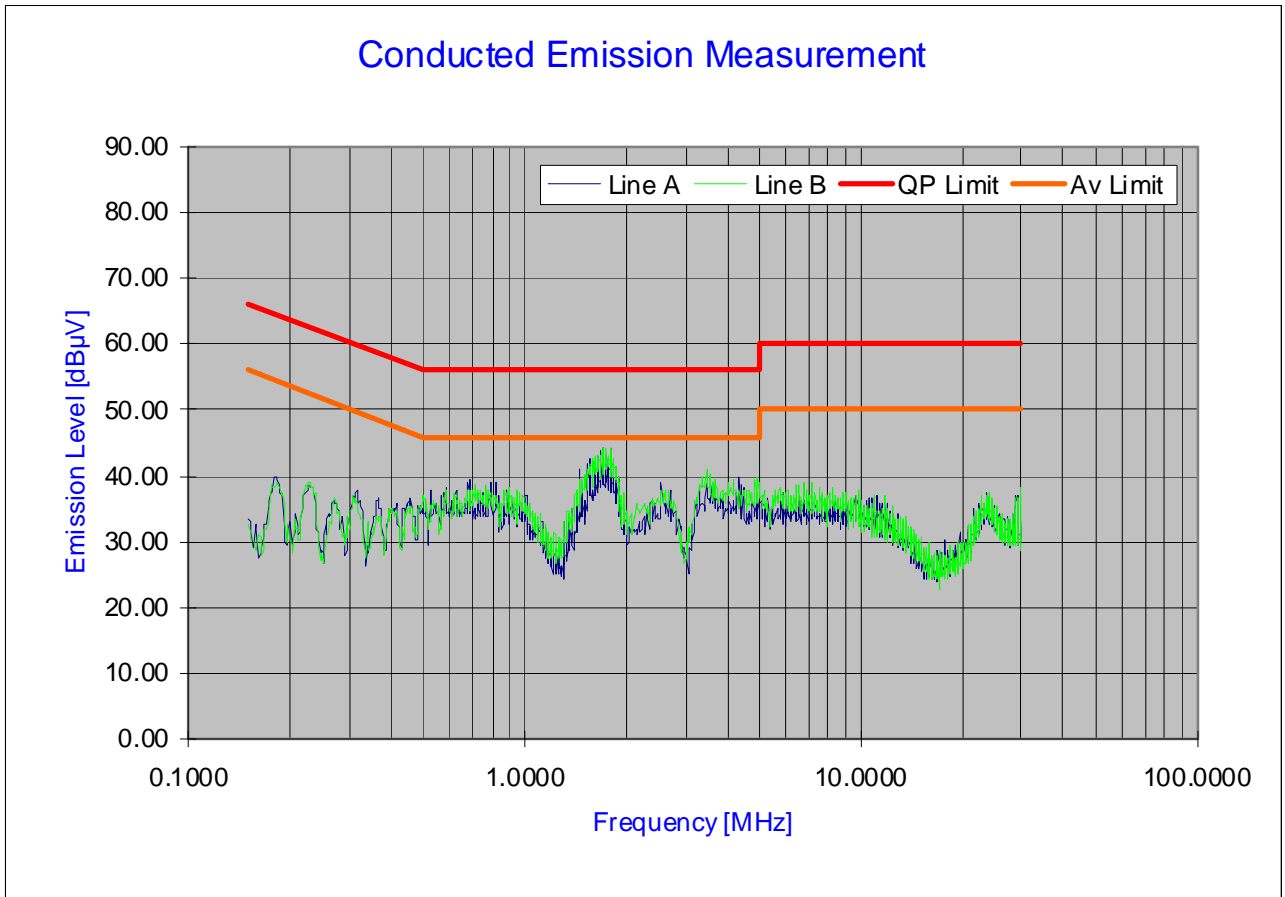
Line-Conducted Test Data (Cont'd)

§15.207; RSS-Gen [7.2.2]

PCTEST Engineering Laboratory Inc.

Company : Samsung Electronics, Co. Ltd.
 Model Number : CDMA SCI11
 FCC ID Code : A3LSWDSCI11
 Standard : FCC Part 15C, 15.207

Power Source : AC120V/60Hz
 Tested Date : 12/01/2011
 Note : Tested with 2.4GHz 802.11n ON





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Plot 6-55. Line Conducted Plot with 802.11n (2.4GHz)

Notes:

1. All Modes of operation were investigated and the worst-case emissions are reported using 6.5/7.2Mbps.
2. The limit for Class B device(s) from 150kHz to 30MHz are specified in Section 15.207 of the Title 47 CFR.
3. Line A = Phase; Line B = Neutral
4. Traces shown in plot are made using a peak detector.
5. Deviations to the Specifications: None.

FCC ID: A3LSWDSCI11		FCC Pt. 15.247 802.11a/b/g/n MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1111212022.A3L	Test Dates: 11/24/11-12/12/11	EUT Type: Portable Handset	Page 59 of 65	



Line-Conducted Test Data (Cont'd)
§15.207; RSS-Gen [7.2.2]

No.	Line	Frequency [MHz]	Factor [dB]	QP [dBμV]	Limit [dBμV]	Margin [dB]	Average [dBμV]	Limit [dBμV]	Margin [dB]
1	A	1.569	7.11	33.90	56.00	-22.10	25.34	46.00	-20.66
2	A	1.612	7.12	34.78	56.00	-21.22	26.22	46.00	-19.78
3	A	1.650	7.12	35.41	56.00	-20.59	27.09	46.00	-18.91
4	A	1.660	7.12	35.36	56.00	-20.64	26.70	46.00	-19.30
5	A	1.695	7.12	35.90	56.00	-20.10	26.82	46.00	-19.18
6	A	1.696	7.12	36.13	56.00	-19.87	27.69	46.00	-18.31
7	A	1.703	7.12	36.01	56.00	-19.99	27.05	46.00	-18.95
8	A	1.782	7.13	35.76	56.00	-20.24	26.89	46.00	-19.11
9	A	1.787	7.13	35.64	56.00	-20.36	27.07	46.00	-18.93
10	A	1.789	7.13	35.59	56.00	-20.41	26.94	46.00	-19.06
11	B	1.607	7.12	36.84	56.00	-19.16	25.24	46.00	-20.76
12	B	1.608	7.12	37.08	56.00	-18.92	26.09	46.00	-19.91
13	B	1.651	7.12	38.07	56.00	-17.93	26.31	46.00	-19.69
14	B	1.663	7.12	38.02	56.00	-17.98	26.56	46.00	-19.44
15	B	1.690	7.12	38.20	56.00	-17.80	26.84	46.00	-19.16
16	B	1.691	7.12	37.92	56.00	-18.08	26.70	46.00	-19.30
17	B	1.753	7.13	37.86	56.00	-18.14	27.12	46.00	-18.88
18	B	1.792	7.13	37.61	56.00	-18.39	27.01	46.00	-18.99
19	B	1.829	7.14	37.02	56.00	-18.98	26.38	46.00	-19.62
20	B	3.502	7.32	34.15	56.00	-21.85	24.62	46.00	-21.38

Table 6-20. Line Conducted Data with 802.11n (2.4GHz)

Notes:

1. All Modes of operation were investigated and the worst-case emissions are reported using 6.5/7.2Mbps.
2. The limit for Class B device(s) from 150kHz to 30MHz are specified in Section 15.207 of the Title 47 CFR.
3. Line A = Phase; Line B = Neutral
4. Traces shown in plot are made using a peak detector.
5. Deviations to the Specifications: None.

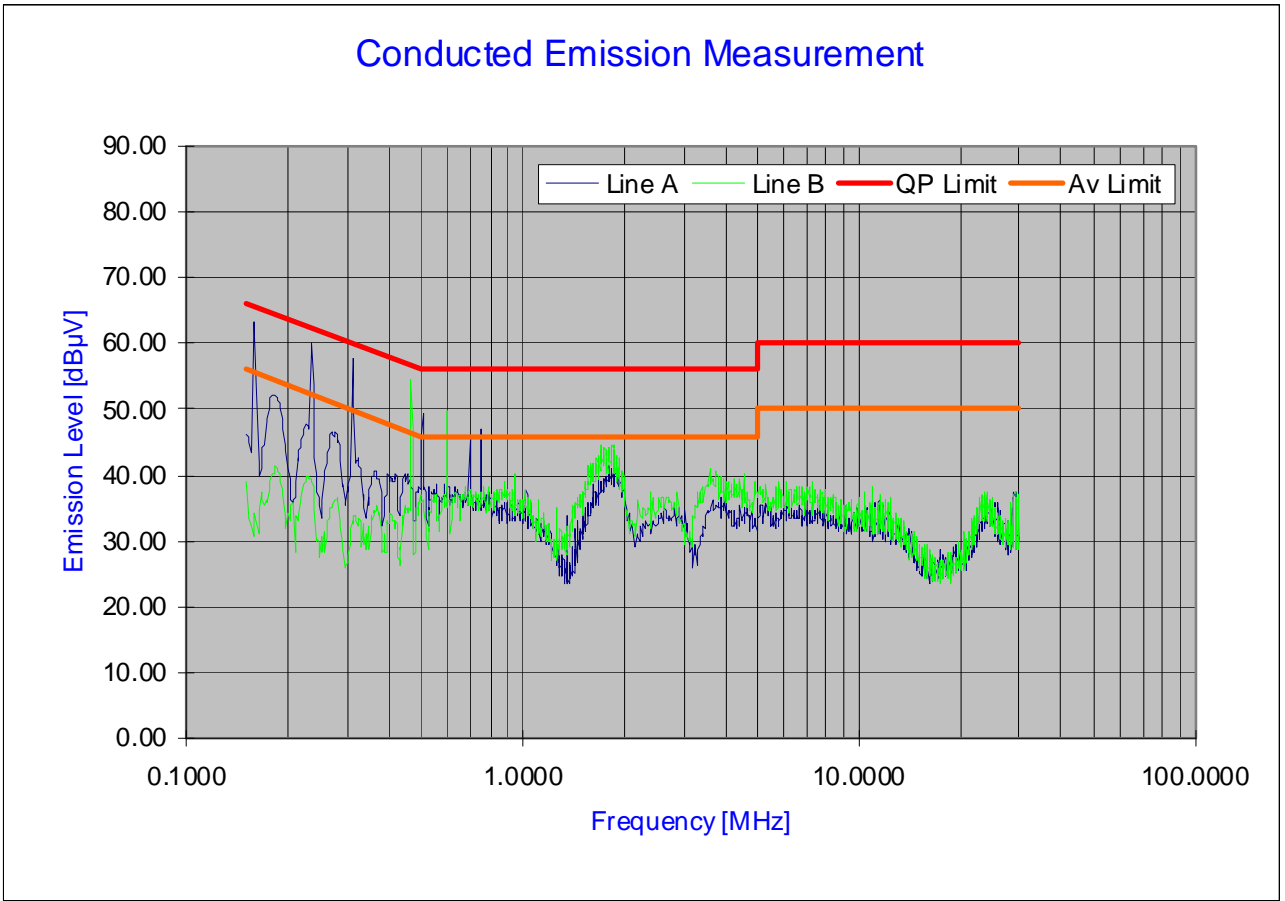
FCC ID: A3LSWDSC11		FCC Pt. 15.247 802.11a/b/g/n MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1111212022.A3L	Test Dates: 11/24/11-12/12/11	EUT Type: Portable Handset	Page 60 of 65	

Line-Conducted Test Data (Cont'd)
§15.207; RSS-Gen [7.2.2]

PCTEST Engineering Laboratory Inc.

Company : Samsung Electronics, Co. Ltd.
 Model Number : CDMA SCI11
 FCC ID Code : A3LSWDSCI11
 Standard : FCC Part 15C, 15.207

Power Source : AC120V/60Hz
 Tested Date : 12/01/2011
 Note : Tested with 802.11a ON





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Plot 6-56. Line Conducted Plot with 802.11a

Notes:

1. All Modes of operation were investigated and the worst-case emissions are reported using 6Mbps.
2. The limit for Class B device(s) from 150kHz to 30MHz are specified in Section 15.207 of the Title 47 CFR.
3. Line A = Phase; Line B = Neutral
4. Traces shown in plot are made using a peak detector.
5. Deviations to the Specifications: None.

FCC ID: A3LSWDSCI11		FCC Pt. 15.247 802.11a/b/g/n MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
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Line-Conducted Test Data (Cont'd)
§15.207; RSS-Gen [7.2.2]

No.	Line	Frequency [MHz]	Factor [dB]	QP [dBµV]	Limit [dBµV]	Margin [dB]	Average [dBµV]	Limit [dBµV]	Margin [dB]
1	A	0.150	6.85	53.29	66.00	-12.71	33.80	56.00	-22.20
2	A	0.165	6.86	48.49	65.21	-16.72	34.81	55.21	-20.40
3	A	0.228	6.88	43.77	62.51	-18.74	30.33	52.51	-22.18
4	A	0.271	6.90	37.97	61.09	-23.12	27.21	51.09	-23.88
5	A	0.314	6.92	37.88	59.87	-21.99	26.56	49.87	-23.31
6	A	0.496	6.97	33.31	56.07	-22.76	23.90	46.07	-22.17
7	A	0.679	7.00	31.75	56.00	-24.25	23.82	46.00	-22.18
8	A	0.739	7.01	31.46	56.00	-24.54	23.89	46.00	-22.11
9	A	1.802	7.13	35.83	56.00	-20.17	27.41	46.00	-18.59
10	A	1.841	7.14	35.87	56.00	-20.13	27.40	46.00	-18.60
11	B	0.454	6.96	31.64	56.80	-25.16	20.29	46.80	-26.51
12	B	0.574	6.98	32.77	56.00	-23.23	22.29	46.00	-23.71
13	B	1.658	7.12	38.47	56.00	-17.53	27.11	46.00	-18.89
14	B	1.701	7.12	38.83	56.00	-17.17	27.62	46.00	-18.38
15	B	1.747	7.13	39.30	56.00	-16.70	27.66	46.00	-18.34
16	B	1.748	7.13	39.08	56.00	-16.92	27.99	46.00	-18.01
17	B	1.778	7.13	39.06	56.00	-16.94	27.77	46.00	-18.23
18	B	1.793	7.13	39.19	56.00	-16.81	27.56	46.00	-18.44
19	B	1.839	7.14	38.80	56.00	-17.20	27.53	46.00	-18.47
20	B	1.929	7.14	35.10	56.00	-20.90	24.89	46.00	-21.11

Table 6-21. Line Conducted Data with 802.11a

Notes:

1. All Modes of operation were investigated and the worst-case emissions are reported using 6Mbps.
2. The limit for Class B device(s) from 150kHz to 30MHz are specified in Section 15.207 of the Title 47 CFR.
3. Line A = Phase; Line B = Neutral
4. Traces shown in plot are made using a peak detector.
5. Deviations to the Specifications: None.

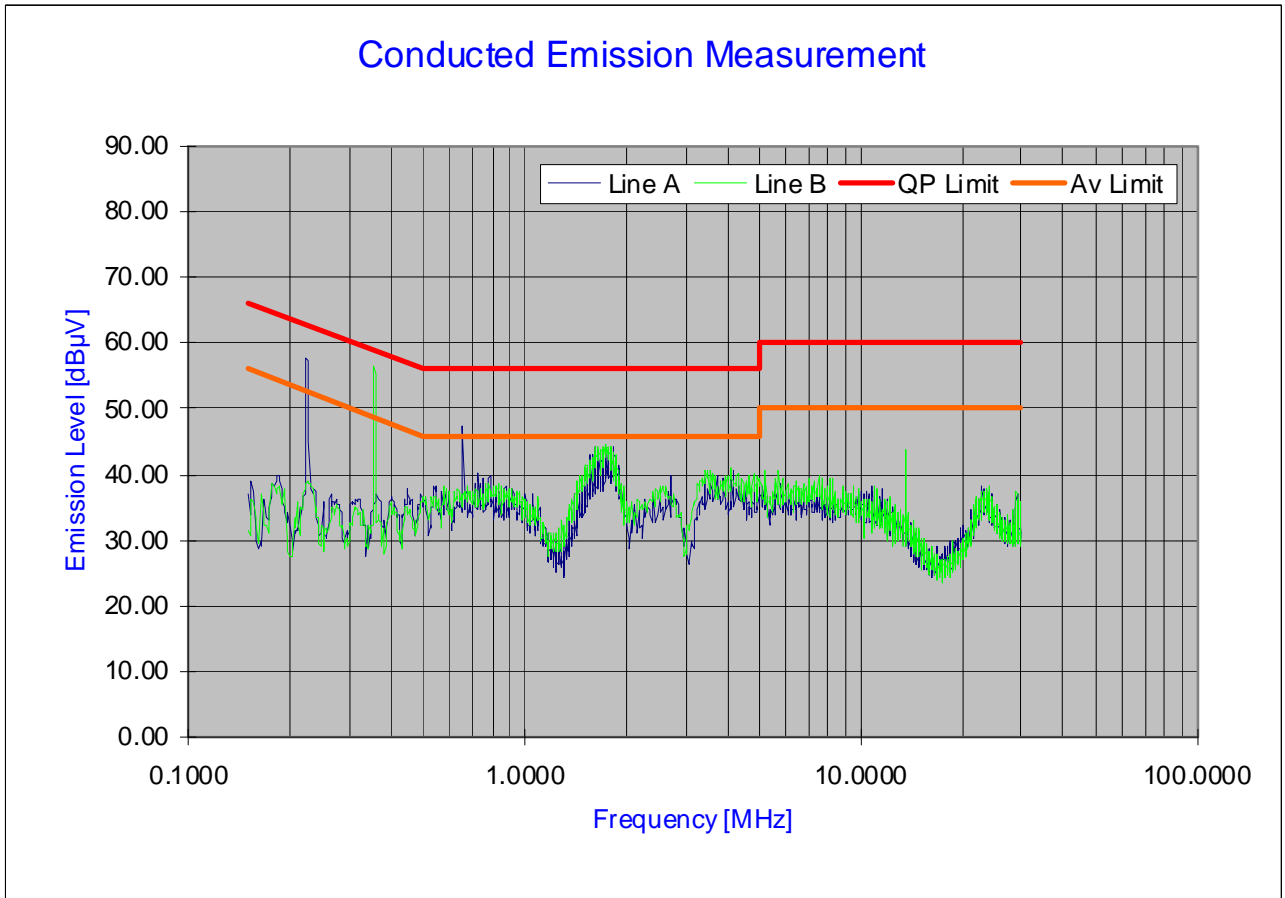
FCC ID: A3LSWDSC11		FCC Pt. 15.247 802.11a/b/g/n MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1111212022.A3L	Test Dates: 11/24/11-12/12/11	EUT Type: Portable Handset	Page 62 of 65	

Line-Conducted Test Data (Cont'd)
 §15.207; RSS-Gen [7.2.2]

PCTEST Engineering Laboratory Inc.

Company : Samsung Electronics, Co. Ltd.
 Model Number : CDMA SCI11
 FCC ID Code : A3LSWDSCI11
 Standard : FCC Part 15C, 15.207

Power Source : AC120V/60Hz
 Tested Date : 12/01/2011
 Note : Tested with 5.8GHz 802.11n ON





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Plot 6-57. Line Conducted Plot with 802.11n (5.8GHz)

Notes:

1. All Modes of operation were investigated and the worst-case emissions are reported using 6.5/7.2Mbps.
2. The limit for Class B device(s) from 150kHz to 30MHz are specified in Section 15.207 of the Title 47 CFR.
3. Line A = Phase; Line B = Neutral
4. Traces shown in plot are made using a peak detector.
5. Deviations to the Specifications: None.

FCC ID: A3LSWDSCI11		FCC Pt. 15.247 802.11a/b/g/n MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
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Line-Conducted Test Data (Cont'd)
§15.207; RSS-Gen [7.2.2]

No.	Line	Frequency [MHz]	Factor [dB]	QP [dBµV]	Limit [dBµV]	Margin [dB]	Average [dBµV]	Limit [dBµV]	Margin [dB]
1	A	0.211	6.88	41.46	63.17	-21.71	25.84	53.17	-27.33
2	A	0.657	7.00	31.21	56.00	-24.79	23.17	46.00	-22.83
3	A	1.578	7.11	34.14	56.00	-21.86	26.01	46.00	-19.99
4	A	1.616	7.12	35.05	56.00	-20.95	26.38	46.00	-19.62
5	A	1.644	7.12	35.12	56.00	-20.88	26.28	46.00	-19.72
6	A	1.698	7.12	36.44	56.00	-19.56	26.88	46.00	-19.12
7	A	1.743	7.13	36.82	56.00	-19.18	28.22	46.00	-17.78
8	A	1.749	7.13	36.76	56.00	-19.24	27.36	46.00	-18.64
9	A	1.786	7.13	36.26	56.00	-19.74	27.57	46.00	-18.43
10	A	1.830	7.14	35.85	56.00	-20.15	27.20	46.00	-18.80
11	B	0.360	6.93	30.10	58.73	-28.63	22.92	48.73	-25.81
12	B	1.557	7.11	36.99	56.00	-19.01	25.46	46.00	-20.54
13	B	1.592	7.11	36.55	56.00	-19.45	25.97	46.00	-20.03
14	B	1.608	7.12	37.75	56.00	-18.25	26.25	46.00	-19.75
15	B	1.637	7.12	37.55	56.00	-18.45	26.87	46.00	-19.13
16	B	1.700	7.12	38.74	56.00	-17.26	27.06	46.00	-18.94
17	B	1.739	7.13	38.73	56.00	-17.27	27.34	46.00	-18.66
18	B	1.744	7.13	38.54	56.00	-17.46	27.70	46.00	-18.30
19	B	1.781	7.13	38.61	56.00	-17.39	27.58	46.00	-18.42
20	B	1.834	7.14	37.29	56.00	-18.71	26.26	46.00	-19.74

Table 6-22. Line Conducted Data with 802.11n (5.8GHz)



Notes:

1. All Modes of operation were investigated and the worst-case emissions are reported using 6.5/7.2Mbps.
2. The limit for Class B device(s) from 150kHz to 30MHz are specified in Section 15.207 of the Title 47 CFR.
3. Line A = Phase; Line B = Neutral
4. Traces shown in plot are made using a peak detector.
5. Deviations to the Specifications: None.

FCC ID: A3LSWDSC11		FCC Pt. 15.247 802.11a/b/g/n MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1111212022.A3L	Test Dates: 11/24/11-12/12/11	EUT Type: Portable Handset		Page 64 of 65

7.0 CONCLUSION

The data collected relate only the item(s) tested and show that the **Samsung Portable Handset FCC ID: A3LSWDSCI11** is in compliance with Part 15C of the FCC Rules and RSS-210 of the Industry Canada Rules.

FCC ID: A3LSWDSCI11		FCC Pt. 15.247 802.11a/b/g/n MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1111212022.A3L	Test Dates: 11/24/11-12/12/11	EUT Type: Portable Handset		Page 65 of 65