

Conducted Output Power (802.11n-CH 36) 40.5 Mbps



Conducted Output Power (802.11n-CH 36) 54 Mbps



| FCC PT.15.247 TEST REPORT | | FCC CERTIFICATION REPORT | | www.hct.co.kr |
|---------------------------------|---------------------------------|--|--|-----------------------|
| Test Report No. HCTR1207FR14 | Date of Issue: July 19, 2012 | EUT Type: CDMA/GSM/LTE Phone with BT/WLAN/NFC | | FCC ID: JYCPREMIAV |

Conducted Output Power (802.11n-CH 36) 81 Mbps



Conducted Output Power (802.11n-CH 36) 108 Mbps



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Conducted Output Power (802.11n-CH 36) 121.5 Mbps



Conducted Output Power (802.11n-CH 36) 135 Mbps



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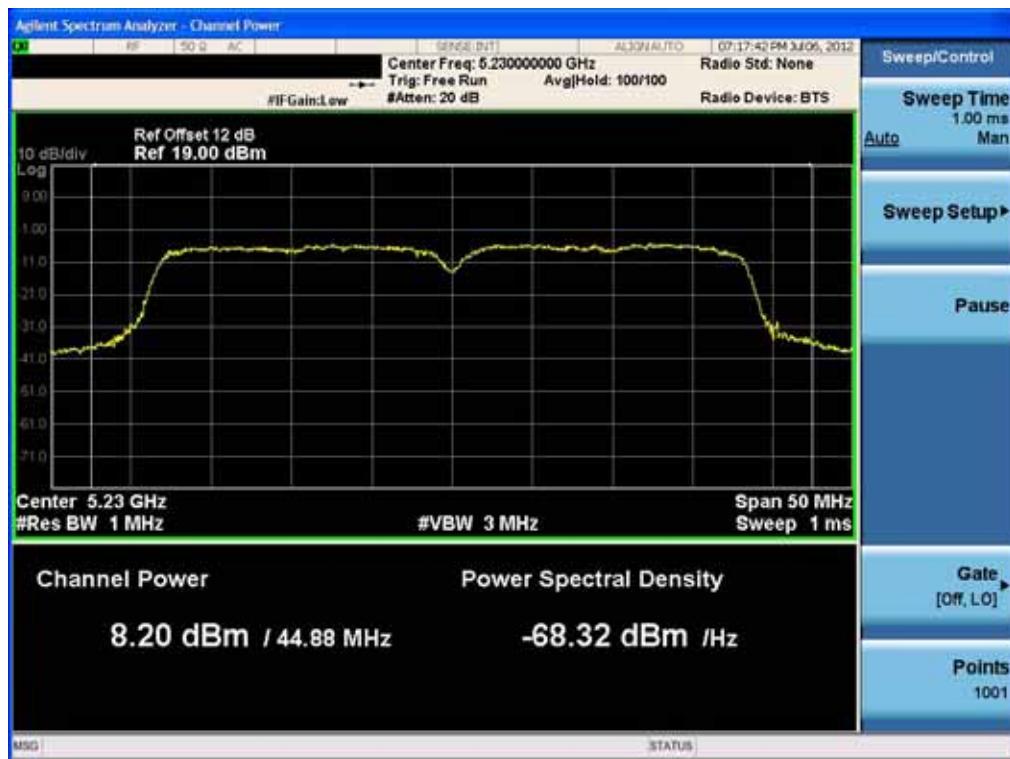


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□ RESULT PLOTS (5270 MHz ~5310 MHz)

Conducted Output Power (802.11n-CH 52) 13.5 Mbps



Conducted Output Power (802.11n-CH 52) 27 Mbps



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Conducted Output Power (802.11n-CH 52) 54 Mbps



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Conducted Output Power (802.11n-CH 52) 81 Mbps



Conducted Output Power (802.11n-CH 52) 108 Mbps



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Conducted Output Power (802.11n-CH 52) 121.5 Mbps



Conducted Output Power (802.11n-CH 60) 135 Mbps



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Conducted Output Power (802.11n-CH 52) 13.5 Mbps



Conducted Output Power (802.11n-CH 52) 27 Mbps



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Conducted Output Power (802.11n-CH 52) 54 Mbps



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Conducted Output Power (802.11n-CH 52) 81 Mbps



Conducted Output Power (802.11n-CH 52) 108 Mbps



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Conducted Output Power (802.11n-CH 52) 121.5 Mbps



Conducted Output Power (802.11n-CH 60) 135 Mbps



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□ RESULT PLOTS (5510 MHz ~5670 MHz)

Conducted Output Power (802.11n-CH 100) 13.5 Mbps



Conducted Output Power (802.11n-CH 100) 27 Mbps



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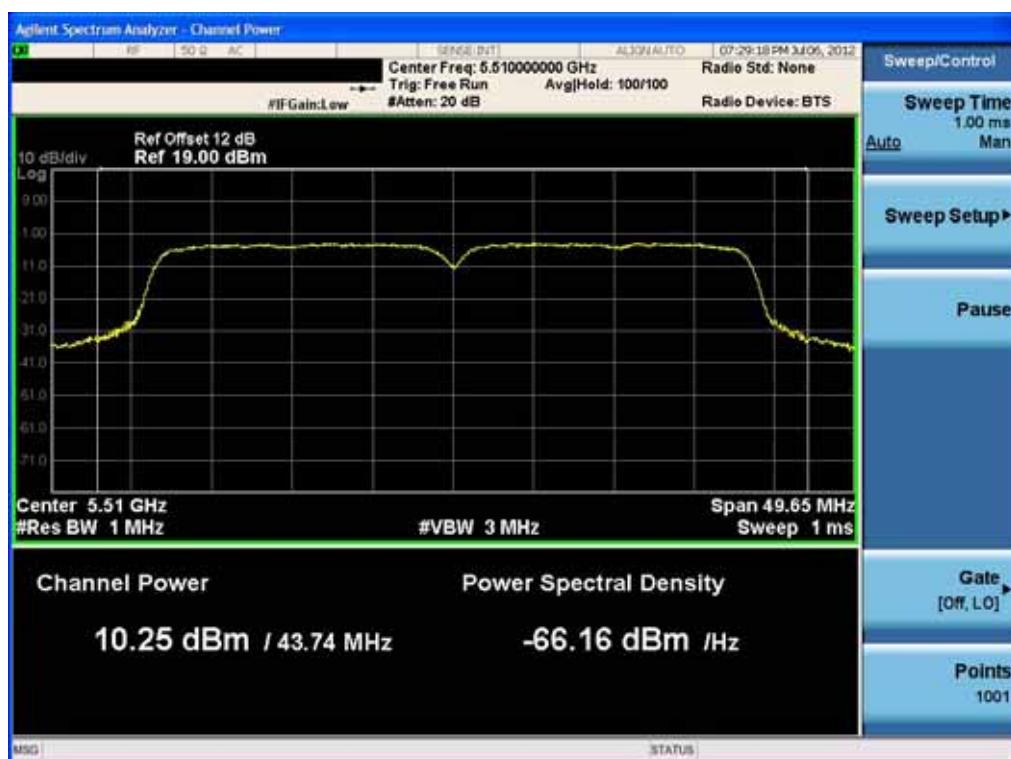


Conducted Output Power (802.11n-CH 100) 54 Mbps



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Conducted Output Power (802.11n-CH 100) 108 Mbps



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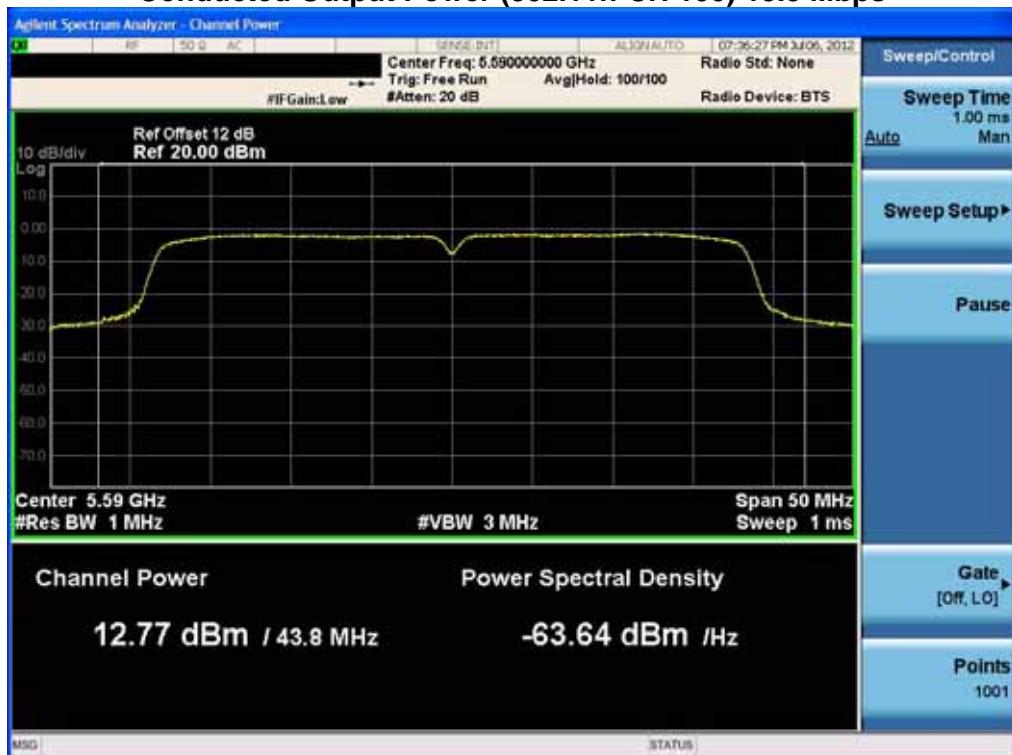


Conducted Output Power (802.11n-CH 100) 135 Mbps



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Conducted Output Power (802.11n-CH 100) 27 Mbps



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Conducted Output Power (802.11n-CH 100) 54 Mbps



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Conducted Output Power (802.11n-CH 100) 108 Mbps



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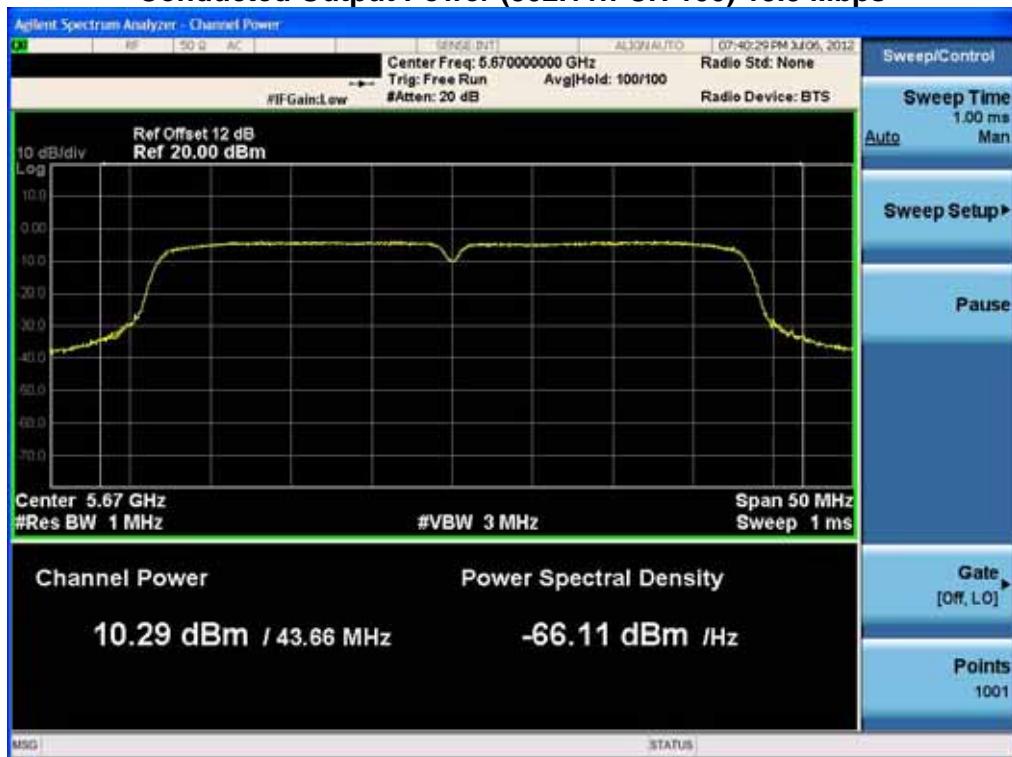


Conducted Output Power (802.11n-CH 100) 135 Mbps



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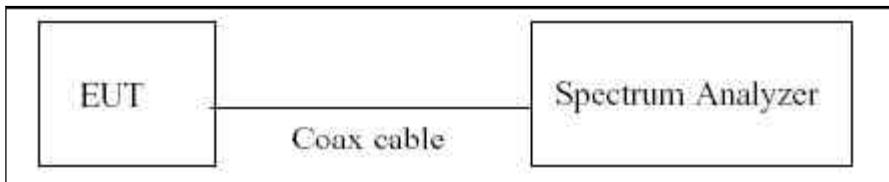


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8.3 POWER SPECTRAL DENSITY

The peak power density is measured with a spectrum analyzer connected to the antenna terminal while the EUT is operating in transmission mode at the appropriate frequencies. The maximum permissible peak power spectral density is 4 dBm/ MHz in the 5.15 GHz – 5.25 GHz band and 11 dBm/ MHz in the 5.25 GHz – 5.35 GHz and 5.47 GHz – 5.725 GHz bands

■ TEST CONFIGURATION



■ TEST PROCEDURE

The spectrum analyzer is set to :

RBW = 1 MHz

VBW = 3 MHz

SPAN = to encompass the entire EBW of the signal

Sweep Time = auto

Sweep Point = 601

Detector Mode = Average

Trace average at least 100 traces in power averaging(RMS) mode

■ Sample Calculation

PSD = Reading Value + ATT loss + Cable loss(1 ea)

$$= -5 \text{ dBm} + 10 \text{ dB} + 0.8 \text{ dB} = 15.8 \text{ dBm}$$

Note :

1. Spectrum reading values are not plot data. The PSD results in plot is already including the actual values of loss for the attenuator and cable combination.
2. Spectrum offset = Attenuator loss + Cable loss
3. We apply to the offset in the 2.4 GHz and 5 GHz range that was rounded off to the closest tenth dB. Actual value of loss for the attenuator and cable combination is 11 dB at 2.4 GHz and 12 dB at 5 GHz. We used the particular cable type that is supported by manufacturer.

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TEST RESULTS

Conducted Power Density Measurements

| Frequency (MHz) | Channel No. | Mode | Test Result | | |
|-----------------|-------------|---------|---------------------|-------------|-----------|
| | | | Power Density (dBm) | Limit (dBm) | Pass/Fail |
| 5180 | 36 | 802.11a | -0.299 | 4 | Pass |
| 5200 | 40 | | -0.238 | 4 | Pass |
| 5240 | 48 | | 0.099 | 4 | Pass |
| 5260 | 52 | 802.11a | 0.326 | 11 | Pass |
| 5300 | 60 | | 0.039 | 11 | Pass |
| 5320 | 64 | | -0.032 | 11 | Pass |
| 5500 | 100 | 802.11a | 1.018 | 11 | Pass |
| 5600 | 120 | | 2.582 | 11 | Pass |
| 5700 | 140 | | 0.219 | 11 | Pass |

Conducted Power Density Measurements

| Frequency (MHz) | Channel No. | Mode | Test Result | | |
|-----------------|-------------|------------------|---------------------|-------------|-----------|
| | | | Power Density (dBm) | Limit (dBm) | Pass/Fail |
| 5180 | 36 | 802.11n_20MHz BW | -1.816 | 4 | Pass |
| 5200 | 40 | | -1.632 | 4 | Pass |
| 5240 | 48 | | -1.134 | 4 | Pass |
| 5260 | 52 | 802.11n_20MHz BW | -0.651 | 11 | Pass |
| 5300 | 60 | | -0.316 | 11 | Pass |
| 5320 | 64 | | -1.231 | 11 | Pass |
| 5500 | 100 | 802.11n_20MHz BW | 1.004 | 11 | Pass |
| 5600 | 120 | | -1.461 | 11 | Pass |
| 5700 | 140 | | -0.906 | 11 | Pass |

| | | | | |
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Conducted Power Density Measurements

| Frequency (MHz) | Channel No. | Mode | Test Result | | |
|-----------------|-------------|----------------------|---------------------|-------------|-----------|
| | | | Power Density (dBm) | Limit (dBm) | Pass/Fail |
| 5190 | 38 | 802.11n_40 MHz BW | -4.330 | 4 | Pass |
| 5230 | 46 | | -3.954 | 4 | Pass |
| 5270 | 54 | 802.11n_40 MHz BW | -4.339 | 4 | Pass |
| 5310 | 62 | | -3.971 | 11 | Pass |
| 5510 | 102 | 802.11n_40 MHz BW | -1.773 | 11 | Pass |
| 5590 | 118 | | -0.961 | 11 | Pass |
| 5670 | 134 | | -3.788 | 11 | Pass |

| | | | | |
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RESULT PLOTS

Power Spectral Density (802.11a-CH 36)



Power Spectral Density (802.11a-CH 40)



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Power Spectral Density (802.11a-CH 48)



Power Spectral Density (802.11a-CH 52)



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Power Spectral Density (802.11a-CH 60)



Power Spectral Density (802.11a-CH 64)



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Power Spectral Density (802.11a-CH 100)



Power Spectral Density (802.11a-CH 120)



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Power Spectral Density (802.11a-CH 140)



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20 MHz BW

Power Spectral Density (802.11n-CH 36)

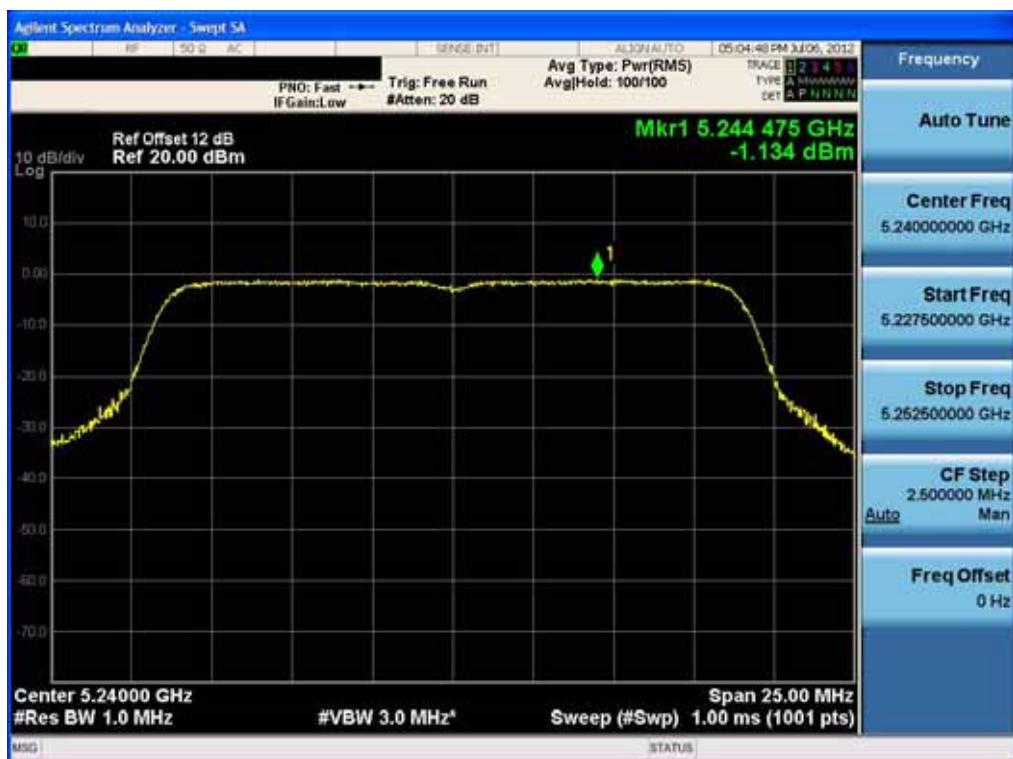


Power Spectral Density (802.11n-CH 40)



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Power Spectral Density (802.11n-CH 48)



Power Spectral Density (802.11n-CH 52)



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Power Spectral Density (802.11n-CH 60)



Power Spectral Density (802.11n-CH 64)



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Power Spectral Density (802.11n-CH 100)



Power Spectral Density (802.11n-CH 120)



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Power Spectral Density (802.11n-CH 140)



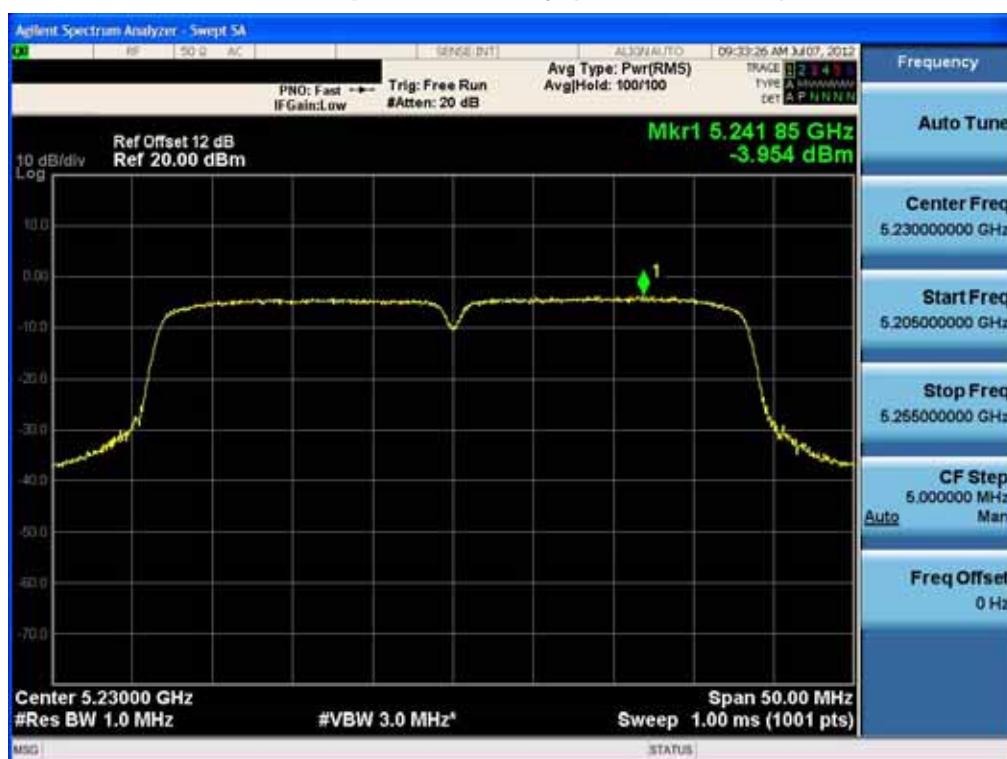
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40 MHz BW

Power Spectral Density (802.11n-CH 38)



Power Spectral Density (802.11n-CH 46)



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Power Spectral Density (802.11n-CH 54)

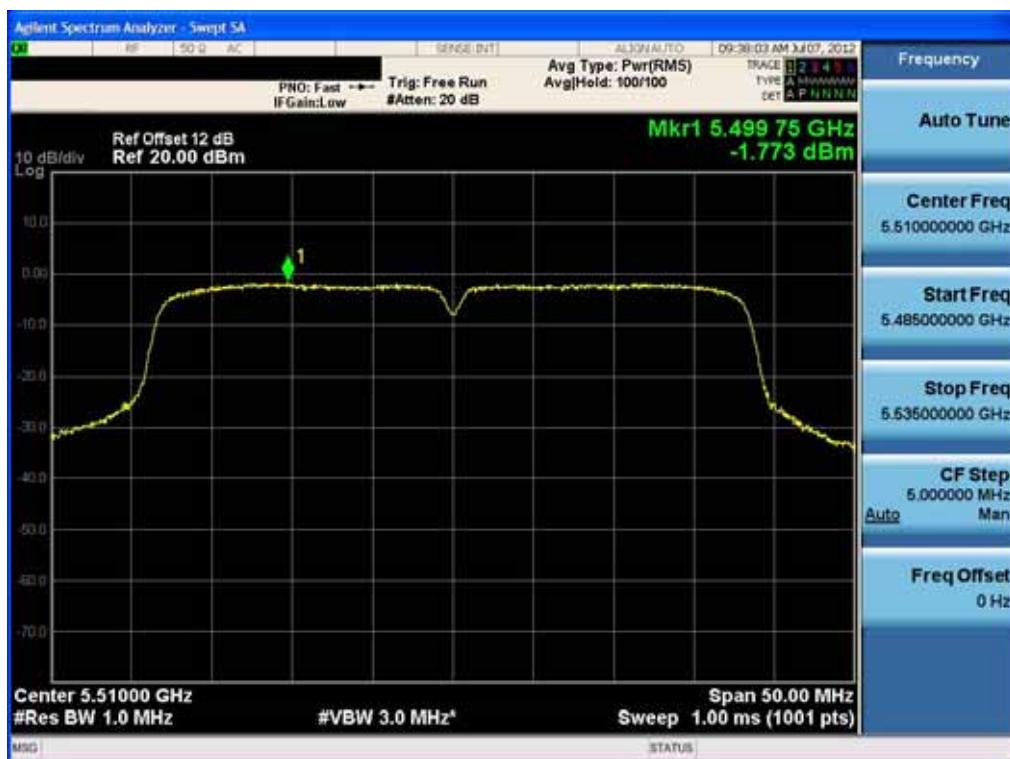


Power Spectral Density (802.11n-CH 62)

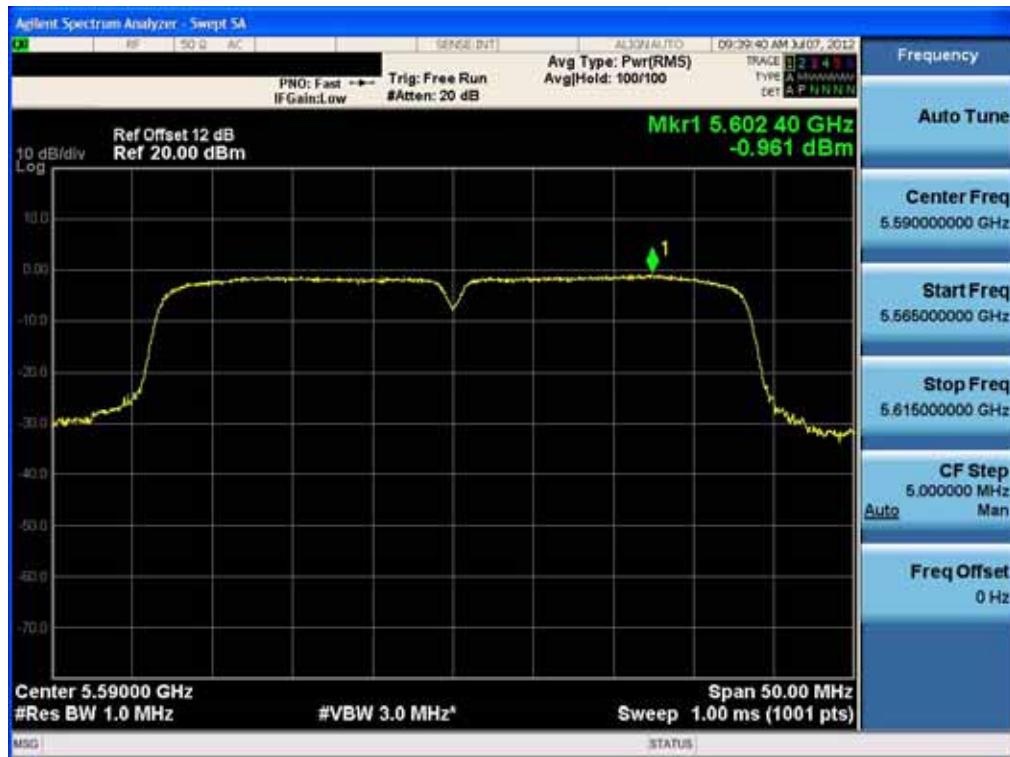


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Power Spectral Density (802.11n-CH 102)

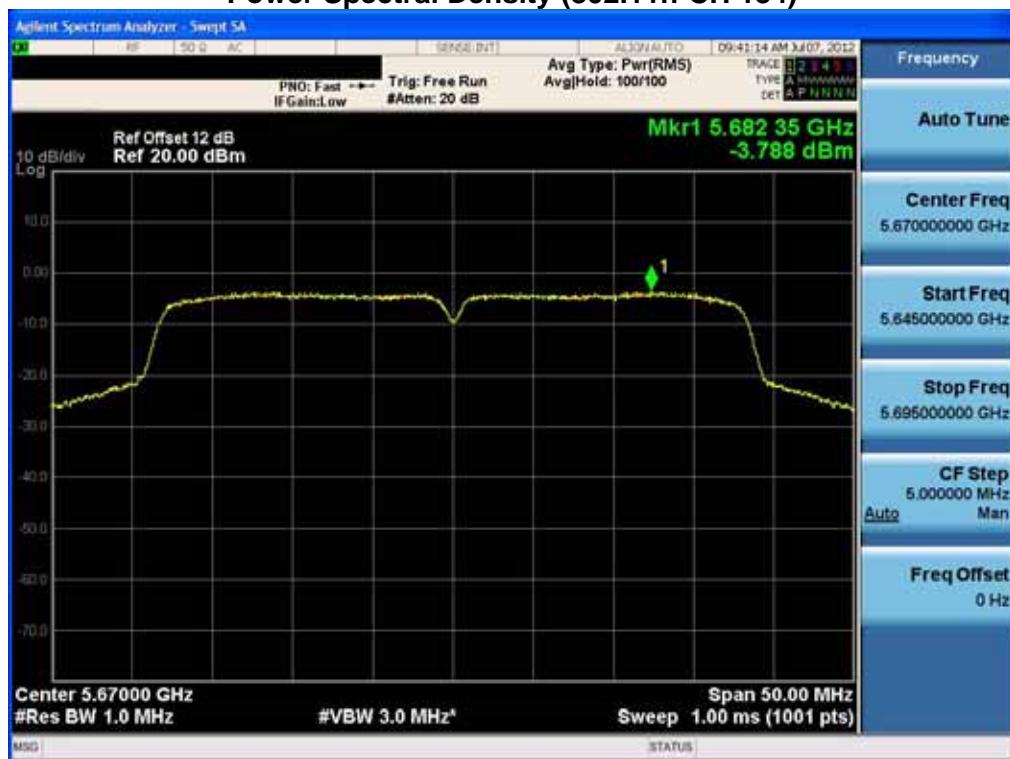


Power Spectral Density (802.11n-CH 118)



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Power Spectral Density (802.11n-CH 134)

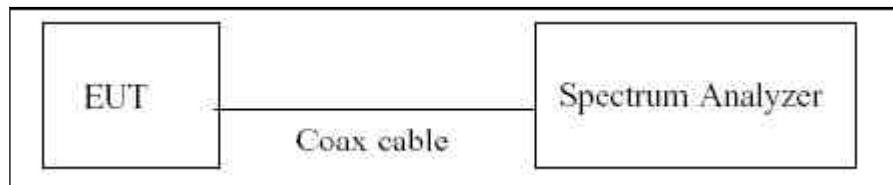


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8.4 PEAK EXCURSION RATIO

The spectrum analyzer was connected to the antenna terminal while the EUT was operating in the continuous transmission mode at the appropriate center frequencies. The largest permissible difference between the modulation envelope(measured using a peak hold function) and the maximum conducted output power 13 dB/MHz.

■ TEST CONFIGURATION



■ TEST PROCEDURE

We tested according to KDB 789033(issued 03/05/2012).

The spectrum analyzer is set to :

1. Span = Set the span to view the entire emission bandwidth.
2. RBW = 1 MHz
3. VBW = 3 MHz
4. Sweep = Auto couple
5. Detector Mode = Peak
6. Trace Mode = Max hold
7. Use the procedure to measure the PPSD
8. Compute the ratio of the maximum of the peak-max-hold spectrum to the PPSD.

Note :

1. The PSD results in plot is already including the actual values of loss for the attenuator and cable combination.
2. Spectrum offset = Attenuator loss + Cable loss
3. We apply to the offset in the 2.4 GHz and 5 GHz range that was rounded off to the closest tenth dB. Actual value of loss for the attenuator and cable combination is 11 dB at 2.4 GHz and 12 dB at 5 GHz. We used the particular cable type that is supported by manufacturer.

| FCC CERTIFICATION REPORT | | | |
|---------------------------------|----------------|-------------------------------------|-----------------------|
| FCC PT.15.247 TEST REPORT | Date of Issue: | EUT Type: | FCC ID: JYCPREMIAV |
| Test Report No. HCTR1207FR14 | July 19, 2012 | CDMA/GSM/LTE Phone with BT/WLAN/NFC | |

RESULT PLOTS

Peak Excursion Ratio (802.11a-CH 36)

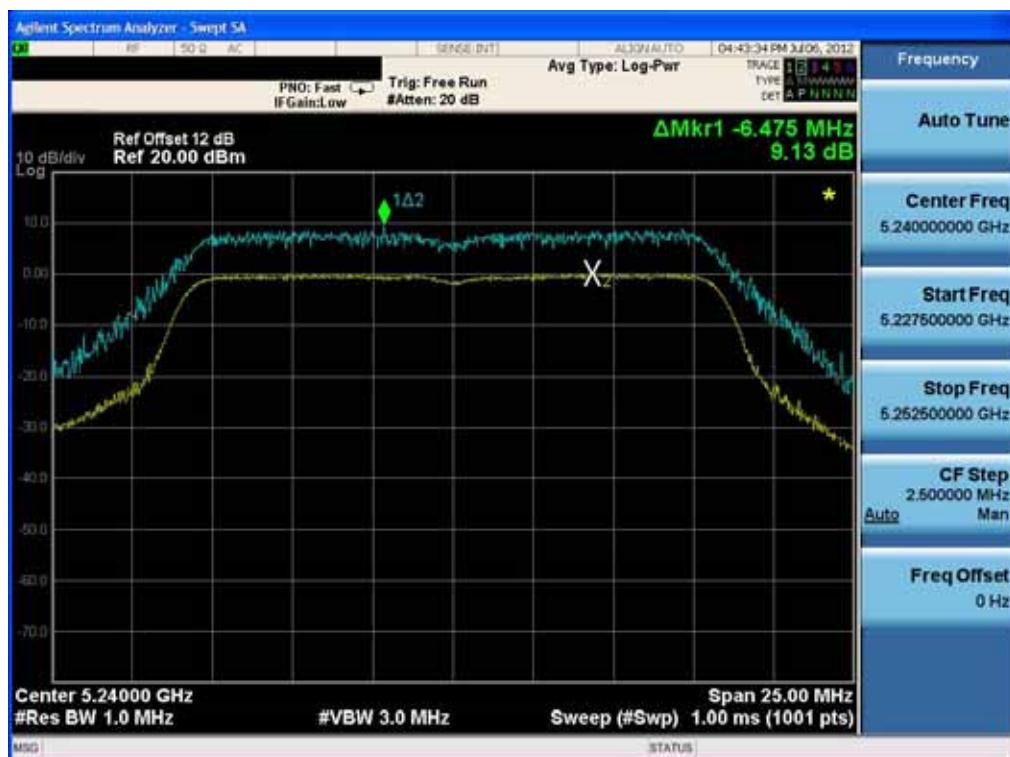


Peak Excursion Ratio (802.11a-CH 40)

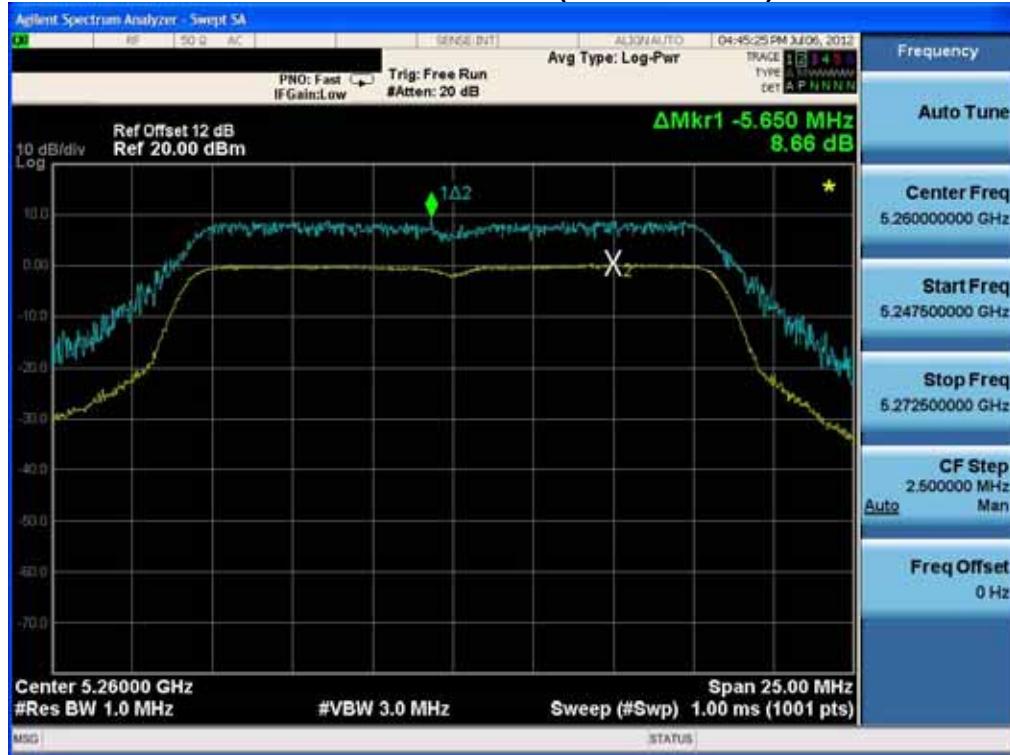


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Peak Excursion Ratio (802.11a-CH 48)



Peak Excursion Ratio (802.11a-CH 52)

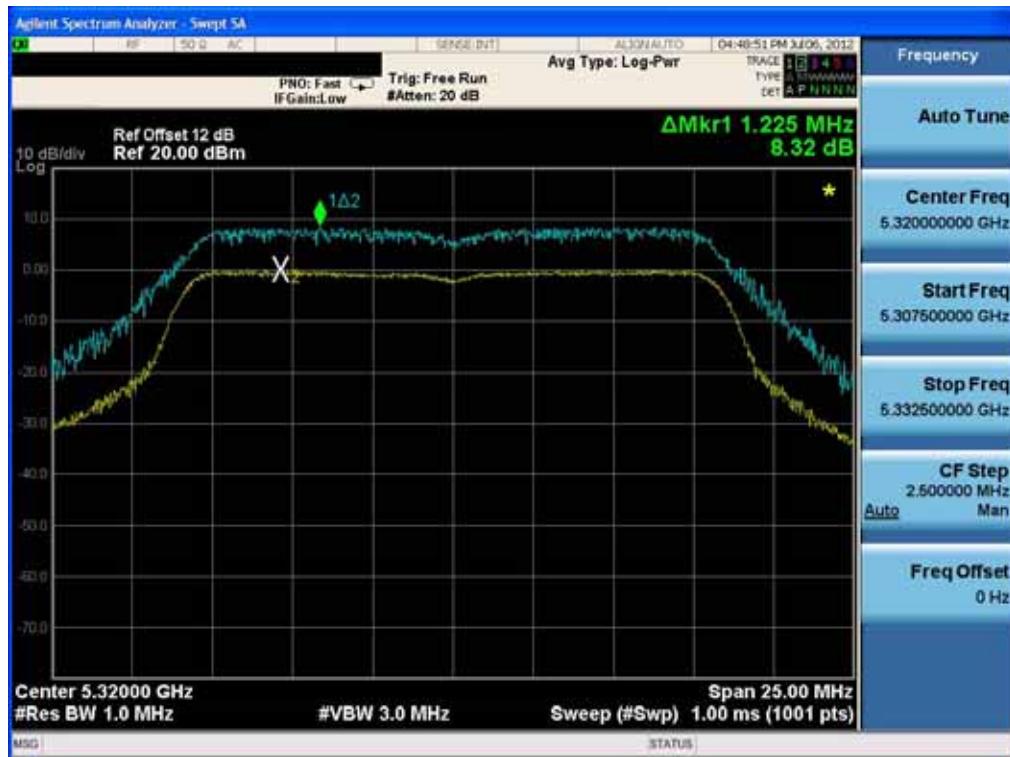


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Peak Excursion Ratio (802.11a-CH 60)



Peak Excursion Ratio (802.11a-CH 64)



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Peak Excursion Ratio (802.11a-CH 100)



Peak Excursion Ratio (802.11a-CH 120)



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| Test Report No. HCTR1207FR14 | Date of Issue: July 19, 2012 | EUT Type: CDMA/GSM/LTE Phone with BT/WLAN/NFC | | FCC ID: JYCPREMIAV |

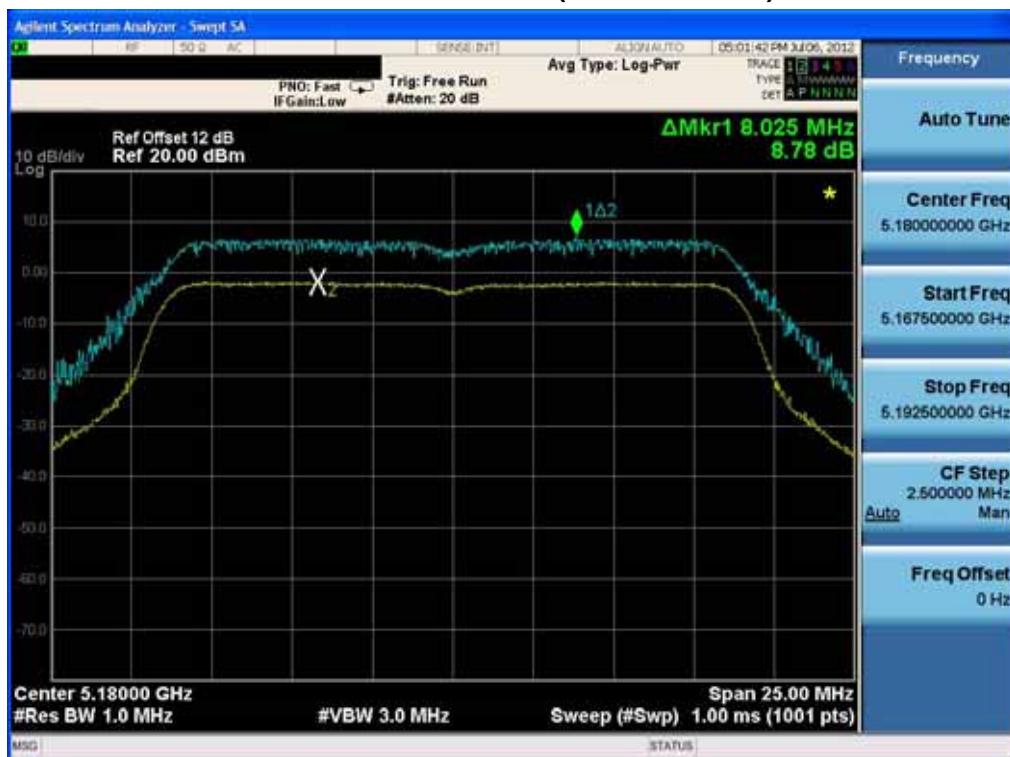
Peak Excursion Ratio (802.11a-CH 140)



| FCC PT.15.247 TEST REPORT | | FCC CERTIFICATION REPORT | | www.hct.co.kr |
|------------------------------|------------------------------|---|--|--------------------|
| Test Report No. HCTR1207FR14 | Date of Issue: July 19, 2012 | EUT Type: CDMA/GSM/LTE Phone with BT/WLAN/NFC | | FCC ID: JYCPREMIAV |

20 MHz BW

Peak Excursion Ratio (802.11n-CH 36)



Peak Excursion Ratio (802.11n-CH 40)



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Peak Excursion Ratio (802.11n-CH 48)

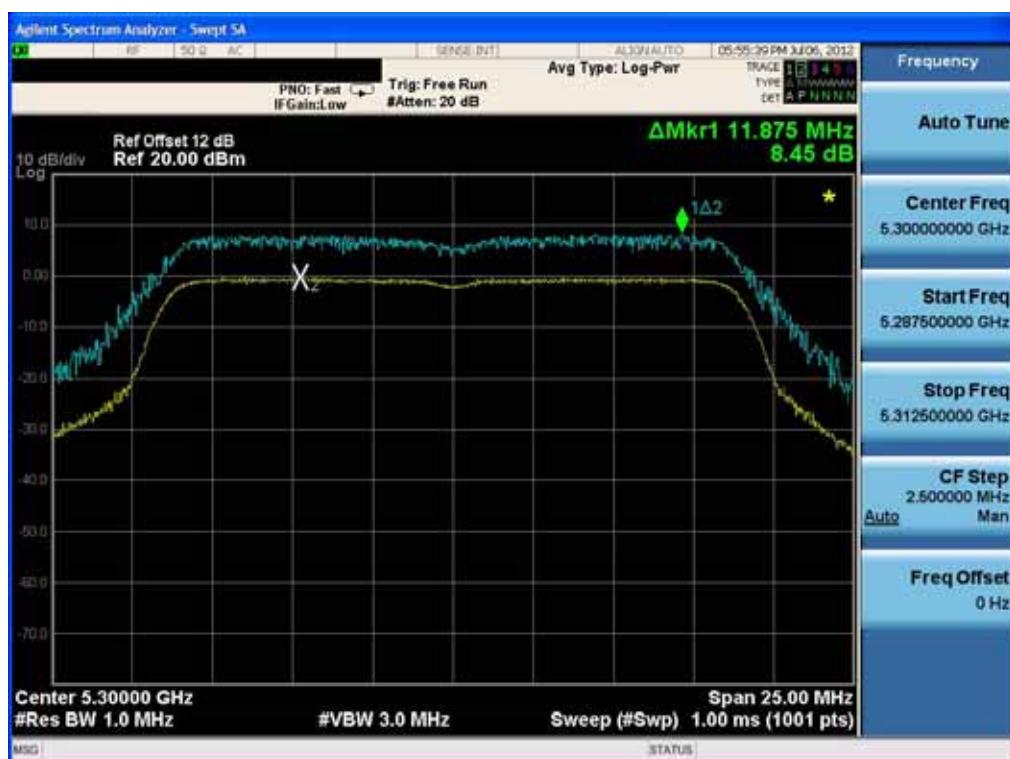


Peak Excursion Ratio (802.11n-CH 52)

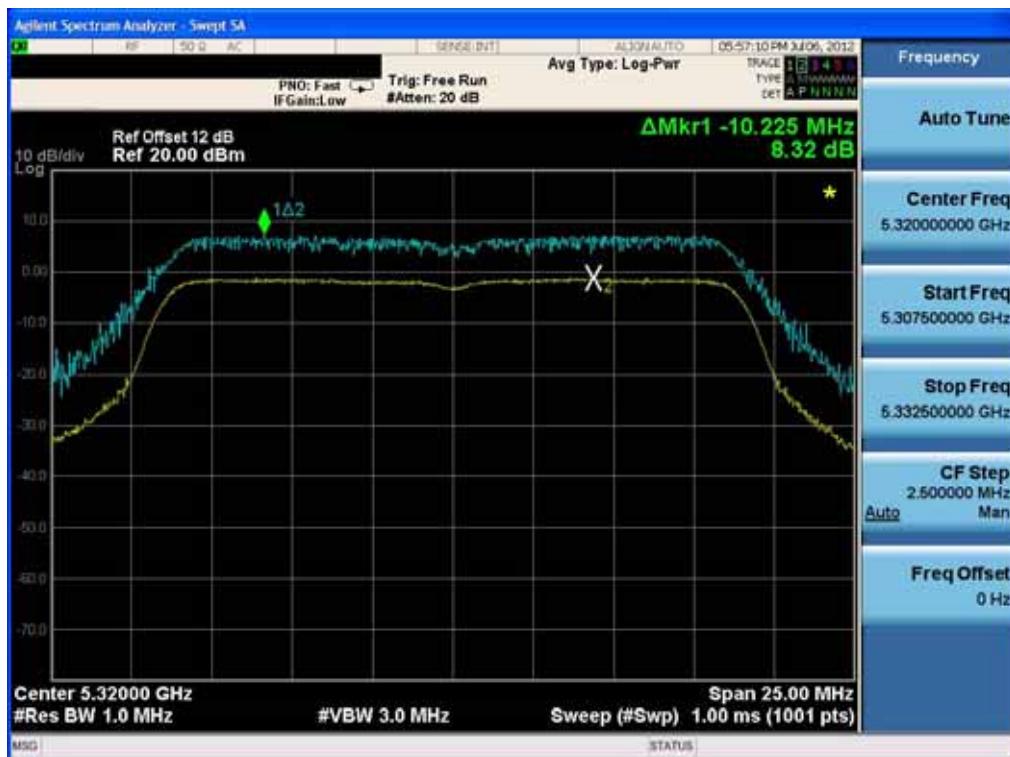


| FCC PT.15.247 TEST REPORT | | FCC CERTIFICATION REPORT | | www.hct.co.kr |
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| Test Report No. HCTR1207FR14 | Date of Issue: July 19, 2012 | EUT Type: CDMA/GSM/LTE Phone with BT/WLAN/NFC | | FCC ID: JYCPREMIAV |

Peak Excursion Ratio (802.11n-CH 60)



Peak Excursion Ratio (802.11n-CH 64)

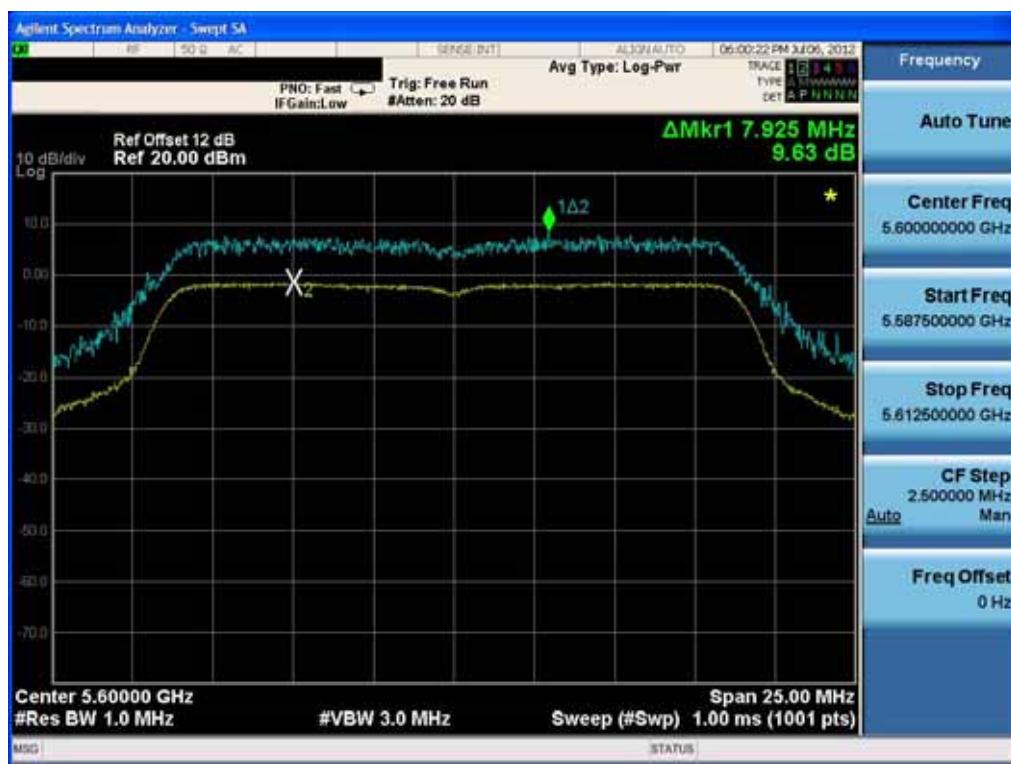


| FCC PT.15.247 TEST REPORT | | FCC CERTIFICATION REPORT | | www.hct.co.kr |
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| Test Report No. HCTR1207FR14 | Date of Issue: July 19, 2012 | EUT Type: CDMA/GSM/LTE Phone with BT/WLAN/NFC | | FCC ID: JYCPREMIAV |

Peak Excursion Ratio (802.11n-CH 100)



Peak Excursion Ratio (802.11n-CH 120)



| FCC PT.15.247 TEST REPORT | | FCC CERTIFICATION REPORT | | www.hct.co.kr |
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Peak Excursion Ratio (802.11n-CH 140)



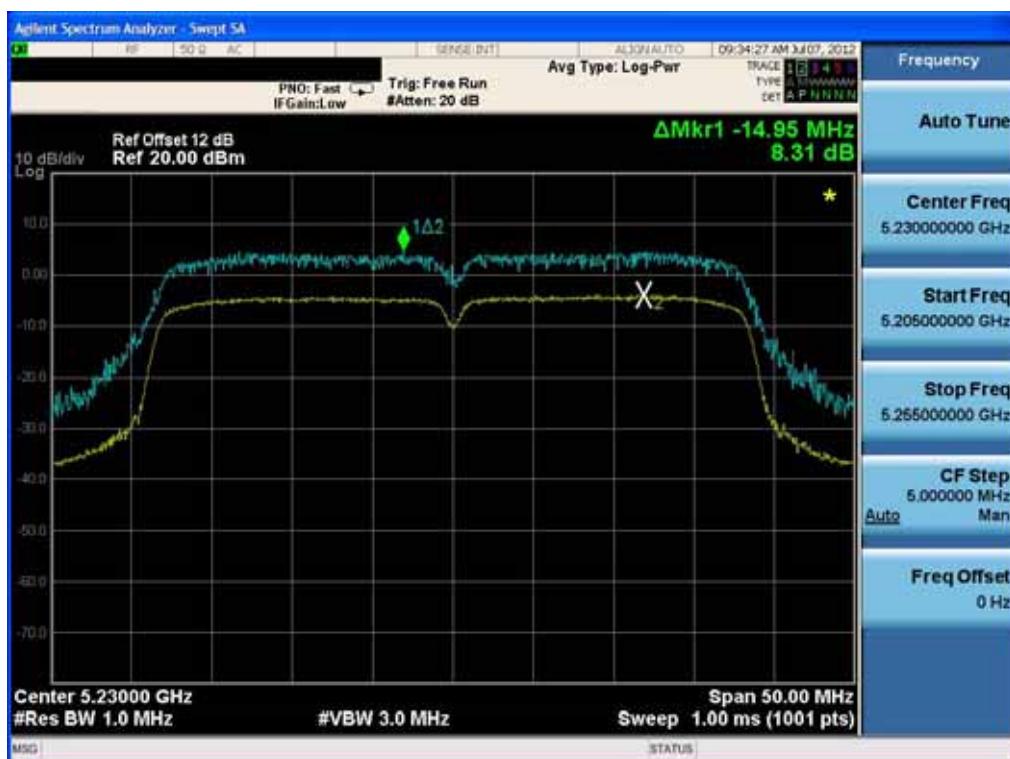
| FCC PT.15.247 TEST REPORT | | FCC CERTIFICATION REPORT | | www.hct.co.kr |
|---------------------------------|---------------------------------|--|--|-----------------------|
| Test Report No. HCTR1207FR14 | Date of Issue: July 19, 2012 | EUT Type: CDMA/GSM/LTE Phone with BT/WLAN/NFC | | FCC ID: JYCPREMIAV |

40 MHz BW

Peak Excursion Ratio (802.11n-CH 38)



Peak Excursion Ratio (802.11n-CH 46)



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Peak Excursion Ratio (802.11n-CH 54)

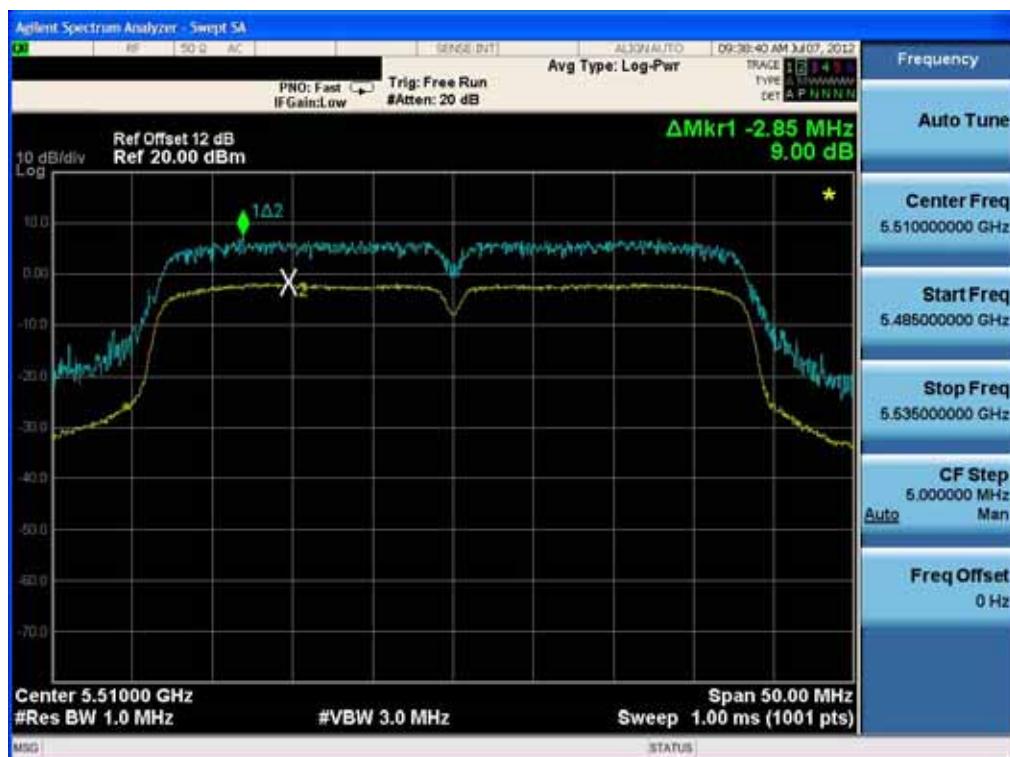


Peak Excursion Ratio (802.11n-CH 62)

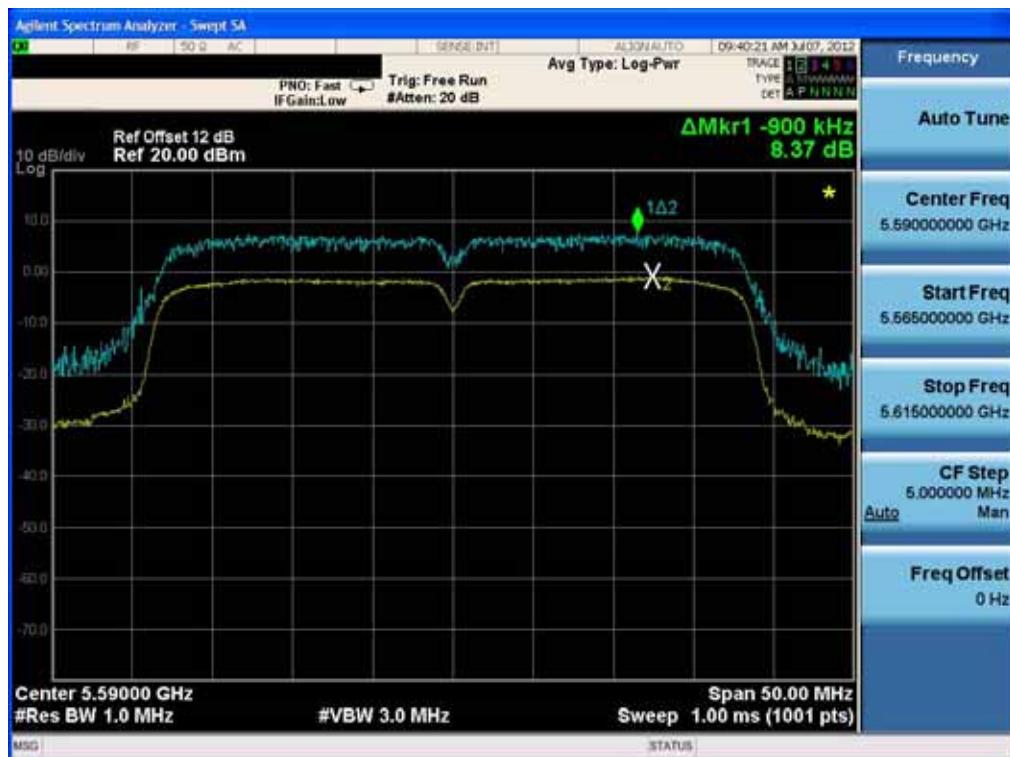


| FCC PT.15.247 TEST REPORT | | FCC CERTIFICATION REPORT | | www.hct.co.kr |
|---------------------------------|---------------------------------|--|--|-----------------------|
| Test Report No. HCTR1207FR14 | Date of Issue: July 19, 2012 | EUT Type: CDMA/GSM/LTE Phone with BT/WLAN/NFC | | FCC ID: JYCPREMIAV |

Peak Excursion Ratio (802.11n-CH 102)



Peak Excursion Ratio (802.11n-CH 118)



| FCC PT.15.247 TEST REPORT | | FCC CERTIFICATION REPORT | | www.hct.co.kr |
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Peak Excursion Ratio (802.11n-CH 134)



| FCC PT.15.247 TEST REPORT | | FCC CERTIFICATION REPORT | | www.hct.co.kr |
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| Test Report No. HCTR1207FR14 | Date of Issue: July 19, 2012 | EUT Type: CDMA/GSM/LTE Phone with BT/WLAN/NFC | | FCC ID: JYCPREMIAV |

8.5 FREQUENCY STABILITY.

The EUT was placed inside an environmental chamber as the temperature in the chamber was varied between -30 °C and 50 °C. The temperature was incremented by 10 °C intervals and the unit was allowed to stabilize at each temperature before each measurement. The center frequency of the transmitting channel was evaluated at each temperature and the frequency deviation from the channel's center frequency was recorded.

OPERATING FREQUENCY: 5,200,000,000 Hz
 CHANNEL: 40
 REFERENCE VOLTAGE: 3.7 VDC

| Voltage (%) | Power (VDC) | Temp. (°C) | Frequency (kHz) | Frequency Error (kHz) |
|----------------|-------------|------------|-----------------|-----------------------|
| 100% | 3.7 | +20(Ref) | 5 200 016 | 16.0 |
| 100% | | -30 | 5 200 018 | 18.3 |
| 100% | | -20 | 5 199 982 | -17.6 |
| 100% | | -10 | 5 199 987 | -13.0 |
| 100% | | 0 | 5 200 019 | 19.1 |
| 100% | | +10 | 5 200 013 | 12.7 |
| 100% | | +30 | 5 200 024 | 24.2 |
| 100% | | +40 | 5 200 021 | 21.0 |
| 100% | | +50 | 5 199 978 | -22.0 |
| 115% | 3.3 | +20 | 5 200 023 | 23.0 |
| Batt. Endpoint | 4.7 | +20 | 5 200 019 | 19.0 |

| FCC PT.15.247 TEST REPORT | | FCC CERTIFICATION REPORT | | www.hct.co.kr |
|---------------------------------|---------------------------------|--|--|-----------------------|
| Test Report No. HCTR1207FR14 | Date of Issue: July 19, 2012 | EUT Type: CDMA/GSM/LTE Phone with BT/WLAN/NFC | | FCC ID: JYCPREMIAV |



OPERATING FREQUENCY: 5,300,000,000 Hz
CHANNEL: 60
REFERENCE VOLTAGE: 3.7 VDC

| Voltage (%) | Power (VDC) | Temp. (°C) | Frequency (kHz) | Frequency Error (kHz) |
|----------------|-------------|------------|-----------------|-----------------------|
| 100% | 3.7 | +20(Ref) | 5 300 015 | 15.2 |
| 100% | | -30 | 5 300 010 | 10.2 |
| 100% | | -20 | 5 300 019 | 18.6 |
| 100% | | -10 | 5 300 024 | 24.0 |
| 100% | | 0 | 5 300 023 | 23.4 |
| 100% | | +10 | 5 300 024 | 24.0 |
| 100% | | +30 | 5 299 989 | -11.3 |
| 100% | | +40 | 5 300 019 | 19.3 |
| 100% | | +50 | 5 300 018 | 17.8 |
| 115% | 3.3 | +20 | 5 300 020 | 20.0 |
| Batt. Endpoint | 4.7 | +20 | 5 299 979 | -20.6 |

| FCC PT.15.247 TEST REPORT | | FCC CERTIFICATION REPORT | | www.hct.co.kr |
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OPERATING FREQUENCY: 5,600,000,000 Hz
CHANNEL: 120
REFERENCE VOLTAGE: 3.7 VDC

| Voltage (%) | Power (VDC) | Temp. (°C) | Frequency (kHz) | Frequency Error (kHz) |
|----------------|-------------|------------|-----------------|-----------------------|
| 100% | 3.7 | +20(Ref) | 5 600 016 | 15.6 |
| 100% | | -30 | 5 600 015 | 14.6 |
| 100% | | -20 | 5 600 019 | 18.7 |
| 100% | | -10 | 5 600 021 | 20.9 |
| 100% | | 0 | 5 600 022 | 22.2 |
| 100% | | +10 | 5 600 017 | 16.8 |
| 100% | | +30 | 5 600 012 | 12.4 |
| 100% | | +40 | 5 600 020 | 19.7 |
| 100% | | +50 | 5 599 989 | -10.6 |
| 115% | 3.3 | +20 | 5 599 985 | -14.6 |
| Batt. Endpoint | 4.7 | +20 | 5 600 018 | 18.0 |

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8.6 RADIATED MEASUREMENT.

8.6.1 RADIATED SPURIOUS EMISSIONS.

Test Requirements and limit, §15.205, §15.209, §15.407

| Frequency (MHz) | Field Strength (uV/m) | Measurement Distance (m) |
|-----------------|-----------------------|--------------------------|
| 0.009 – 0.490 | 2400/F(kHz) | 300 |
| 0.490 – 1.705 | 24000/F(kHz) | 30 |
| 1.705 – 30 | 30 | 30 |
| 30-88 | 100 | 3 |
| 88-216 | 150 | 3 |
| 216-960 | 200 | 3 |
| Above 960 | 500 | 3 |

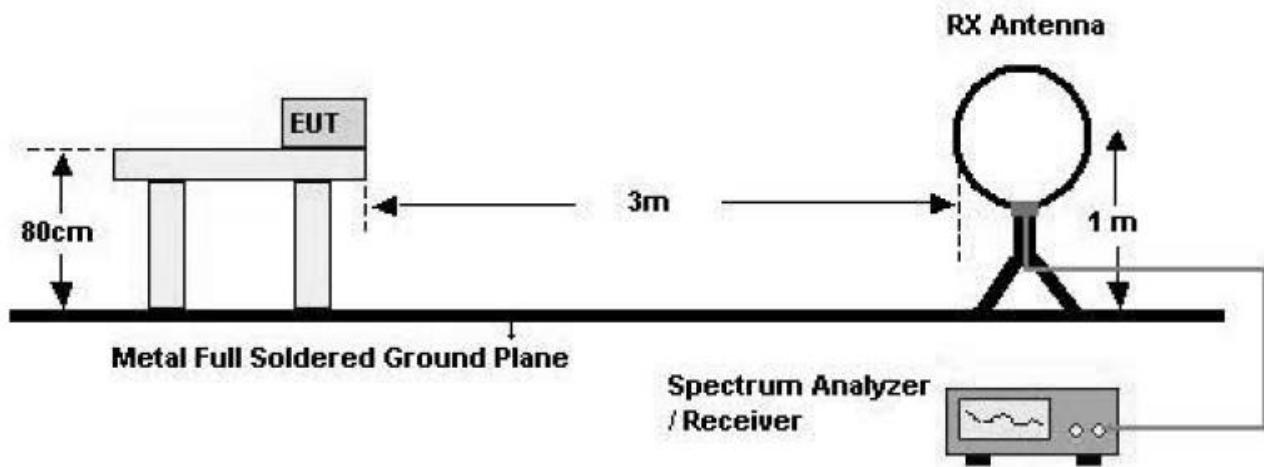
§15.407, KDB 789033

All harmonics that do not lie in a restricted band are subject to a peak limit of -27 dBm/MHz. At a distance of 3 meters the field strength limit in dB μ V/m can be determined by adding a “conversion” factor of 95.2 dB to the EIRP limit of -27 dBm/MHz to obtain the limit for out of band spurious emissions of 68.2 dB μ V/m.

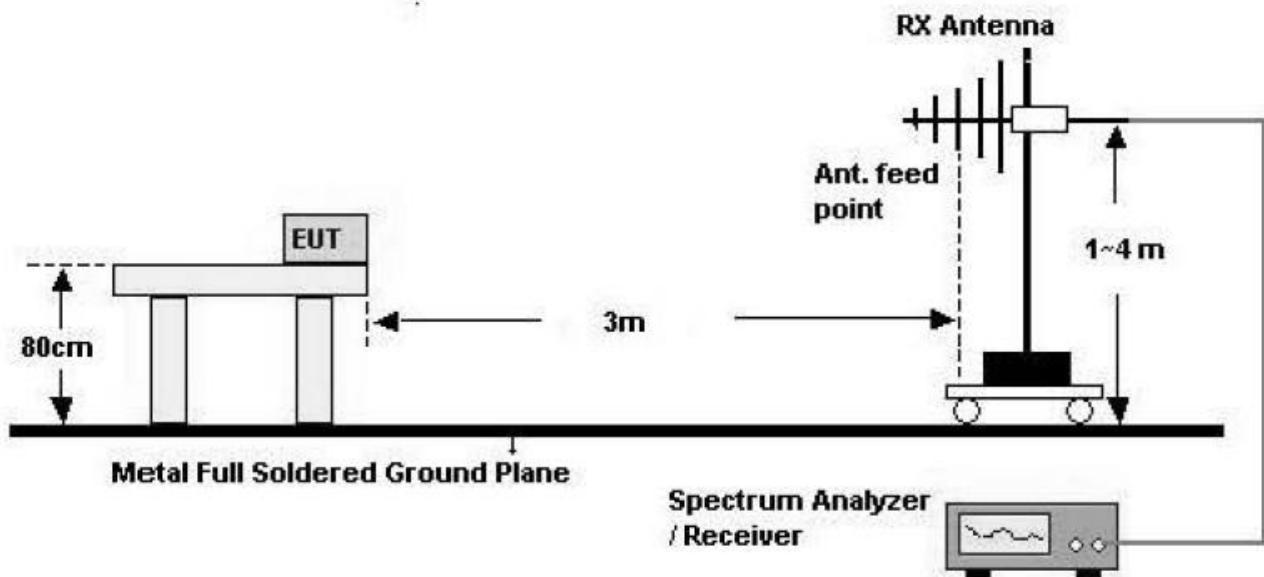
| FCC PT.15.247 TEST REPORT | | FCC CERTIFICATION REPORT | | www.hct.co.kr |
|---------------------------------|---------------------------------|--|--|-----------------------|
| Test Report No. HCTR1207FR14 | Date of Issue: July 19, 2012 | EUT Type: CDMA/GSM/LTE Phone with BT/WLAN/NFC | | FCC ID: JYCPREMIAV |

Test Configuration

Below 30 MHz

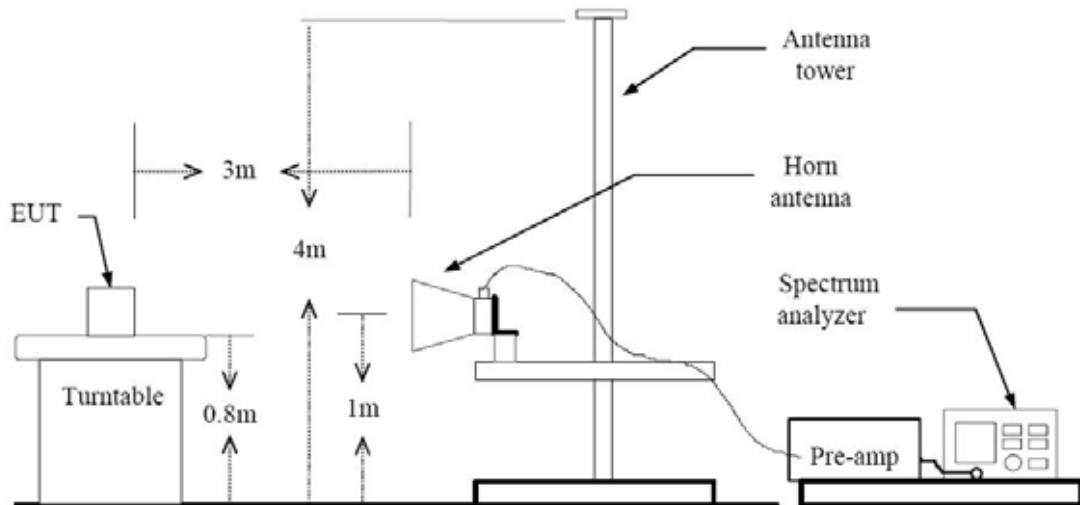


30 MHz - 1 GHz



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Above 1 GHz



TEST PROCEDURE

1. The EUT is placed on a turntable, which is 0.8 m above ground plane.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3 m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Repeat above procedures until the measurements for all frequencies are complete.

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TEST RESULTS

9 kHz – 30MHz

Operation Mode: Normal Mode

| Frequency | Reading | Ant. factor | Cable loss | Ant. POL | Total | Limit | Margin |
|-------------------------|------------|-------------|------------|----------|--------------|--------------|--------|
| MHz | dB μ V | dB /m | dB | (H/V) | dB μ V/m | dB μ V/m | dB |
| No Critical peaks found | | | | | | | |

Notes:

1. Measuring frequencies from 9 kHz to the 30MHz.
2. The reading of emissions are attenuated more than 20 dB below the permissible limits or the field strength is too small to be measured.
3. Distance extrapolation factor = $40 \log (\text{specific distance} / \text{test distance})$ (dB)
4. Limit line = specific Limits (dB μ V) + Distance extrapolation factor
5. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

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TEST RESULTS

Below 1 GHz

Operation Mode: Normal Mode

| Frequency | Reading | Ant. factor | Cable loss | Ant. POL | Total | Limit | Margin |
|-------------------------|------------|-------------|------------|----------|--------------|--------------|--------|
| MHz | dB μ N | dB /m | dB | (H/V) | dB μ N/m | dB μ N/m | dB |
| No Critical peaks found | | | | | | | |

Notes:

1. Measuring frequencies from 30 MHz to the 1 GHz.
2. Radiated emissions measured in frequency range from 30 MHz to 1000 MHz were made with an instrument using Quasi peak detector mode.
3. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

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Above 1 GHz

Normal Battery Cover:

| | |
|---------------------|----------|
| Band : | UNII 1 |
| Operation Mode: | 802.11 a |
| Transfer Rate: | 6 Mbps |
| Operating Frequency | 5180 MHz |
| Channel No. | 36 Ch |

| Frequency [MHz] | Reading dBuV | AN.+CL-Amp G. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Detect |
|-----------------|--------------|--------------------|----------------|----------------|----------------|-------------|--------|
| 10360 | 44.24 | 9.30 | V | 53.54 | 68.2 | 14.66 | PK |
| 10360 | 36.73 | 9.30 | V | 46.03 | 54.0 | 7.97 | AV |
| 15540 | 44.45 | 15.04 | V | 59.49 | 74.0 | 14.51 | PK |
| 15540 | 30.84 | 15.04 | V | 45.88 | 54.0 | 8.12 | AV |
| 10360 | 44.27 | 9.30 | H | 53.57 | 68.2 | 14.63 | PK |
| 10360 | 35.64 | 9.30 | H | 44.94 | 54.0 | 9.06 | AV |
| 15540 | 44.42 | 15.04 | H | 59.46 | 74.0 | 14.54 | PK |
| 15540 | 30.81 | 15.04 | H | 45.85 | 54.0 | 8.15 | AV |

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain
5. Spectrum setting:
 - a. Peak Setting 1 GHz – 40 GHz, RBW = 1 MHz, VBW = 3 MHz.
 - b. AV Setting 1 GHz – 40 GHz, RBW = 1 MHz, VBW = 10 Hz.
6. We have done 802.11a, 802.11n_20 MHz BW test. Worst case is 6 Mbps in 802.11a.
7. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

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| | |
|---------------------|----------|
| Band : | UNII 1 |
| Operation Mode: | 802.11 a |
| Transfer Rate: | 6 Mbps |
| Operating Frequency | 5200 MHz |
| Channel No. | 40 Ch |

| Frequency [MHz] | Reading dBuV | AN.+CL-Amp G. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Detect |
|--------------------|-----------------|-----------------------|-------------------|-------------------|-------------------|----------------|--------|
| 10400 | 43.29 | 9.60 | V | 52.89 | 68.20 | 15.31 | PK |
| 10400 | 34.84 | 9.60 | V | 44.44 | 54.00 | 9.56 | AV |
| 15600 | 44.76 | 14.81 | V | 59.57 | 74.00 | 14.43 | PK |
| 15600 | 31.04 | 14.81 | V | 45.85 | 54.00 | 8.15 | AV |
| 10400 | 42.93 | 9.60 | H | 52.53 | 68.20 | 15.67 | PK |
| 10400 | 33.29 | 9.60 | H | 42.89 | 54.00 | 11.11 | AV |
| 15600 | 44.06 | 14.81 | H | 58.87 | 74.00 | 15.13 | PK |
| 15600 | 30.82 | 14.81 | H | 45.63 | 54.00 | 8.37 | AV |

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain
5. Spectrum setting:
 - a. Peak Setting 1 GHz – 40 GHz, RBW = 1 MHz, VBW = 3 MHz.
 - b. AV Setting 1 GHz – 40 GHz, RBW = 1 MHz, VBW = 10 Hz.
6. We have done 802.11a, 802.11n_20 MHz BW test. Worst case is 6 Mbps in 802.11a.
7. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

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| | |
|---------------------|----------|
| Band : | UNII 1 |
| Operation Mode: | 802.11 a |
| Transfer Rate: | 6 Mbps |
| Operating Frequency | 5240 MHz |
| Channel No. | 48 Ch |

| Frequency [MHz] | Reading dBuV | AN.+CL-Amp G. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Detect |
|--------------------|-----------------|-----------------------|-------------------|-------------------|-------------------|----------------|--------|
| 10480 | 42.64 | 9.83 | V | 52.47 | 68.20 | 15.73 | PK |
| 10480 | 33.48 | 9.83 | V | 43.31 | 54.00 | 10.69 | AV |
| 15720 | 45.81 | 14.83 | V | 60.64 | 74.00 | 13.36 | PK |
| 15720 | 32.13 | 14.83 | V | 46.96 | 54.00 | 7.04 | AV |
| 10480 | 43.25 | 9.83 | H | 53.08 | 68.20 | 15.12 | PK |
| 10480 | 34.00 | 9.83 | H | 43.83 | 54.00 | 10.17 | AV |
| 15720 | 45.60 | 14.83 | H | 60.43 | 74.00 | 13.57 | PK |
| 15720 | 32.05 | 14.83 | H | 46.88 | 54.00 | 7.12 | AV |

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (i.e.: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain
5. Spectrum setting:
 - a. Peak Setting 1 GHz – 40 GHz, RBW = 1 MHz, VBW = 3 MHz.
 - b. AV Setting 1 GHz – 40 GHz, RBW = 1 MHz, VBW = 10 Hz.
6. We have done 802.11a, 802.11n_20 MHz BW test. Worst case is 6 Mbps in 802.11a.
7. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

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Extended Battery Cover:

| | |
|---------------------|----------|
| Band : | UNII 1 |
| Operation Mode: | 802.11 a |
| Transfer Rate: | 6 Mbps |
| Operating Frequency | 5180 MHz |
| Channel No. | 36 Ch |

| Frequency [MHz] | Reading dBuV | AN.+CL-Amp G. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Detect |
|--------------------|-----------------|-----------------------|-------------------|-------------------|-------------------|----------------|--------|
| 10360 | 42.73 | 9.30 | V | 52.03 | 68.20 | 16.17 | PK |
| 10360 | 33.33 | 9.30 | V | 42.63 | 54.00 | 11.37 | AV |
| 15540 | 44.41 | 15.04 | V | 59.45 | 74.00 | 14.55 | PK |
| 15540 | 30.78 | 15.04 | V | 45.82 | 54.00 | 8.18 | AV |
| 10360 | 42.26 | 9.30 | H | 51.56 | 68.20 | 16.64 | PK |
| 10360 | 33.38 | 9.30 | H | 42.68 | 54.00 | 11.32 | AV |
| 15540 | 44.03 | 15.04 | H | 59.07 | 74.00 | 14.93 | PK |
| 15540 | 30.80 | 15.04 | H | 45.84 | 54.00 | 8.16 | AV |

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain
5. Spectrum setting:
 - a. Peak Setting 1 GHz – 40 GHz, RBW = 1 MHz, VBW = 3 MHz.
 - b. AV Setting 1 GHz – 40 GHz, RBW = 1 MHz, VBW = 10 Hz.
6. We have done 802.11a, 802.11n_20 MHz BW test. Worst case is 6 Mbps in 802.11a.
7. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

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| | |
|---------------------|----------|
| Band : | UNII 1 |
| Operation Mode: | 802.11 a |
| Transfer Rate: | 6 Mbps |
| Operating Frequency | 5200 MHz |
| Channel No. | 40 Ch |

| Frequency [MHz] | Reading dBuV | AN.+CL-Amp G. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Detect |
|--------------------|-----------------|-----------------------|-------------------|-------------------|-------------------|----------------|--------|
| 10400 | 41.80 | 9.60 | V | 51.40 | 68.20 | 16.80 | PK |
| 10400 | 31.39 | 9.60 | V | 40.99 | 54.00 | 13.01 | AV |
| 15600 | 44.77 | 14.81 | V | 59.58 | 74.00 | 14.42 | PK |
| 15600 | 31.00 | 14.81 | V | 45.81 | 54.00 | 8.19 | AV |
| 10400 | 42.01 | 9.60 | H | 51.61 | 68.20 | 16.59 | PK |
| 10400 | 32.35 | 9.60 | H | 41.95 | 54.00 | 12.05 | AV |
| 15600 | 44.67 | 14.81 | H | 59.48 | 74.00 | 14.52 | PK |
| 15600 | 30.97 | 14.81 | H | 45.78 | 54.00 | 8.22 | AV |

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain
5. Spectrum setting:
 - a. Peak Setting 1 GHz – 40 GHz, RBW = 1 MHz, VBW = 3 MHz.
 - b. AV Setting 1 GHz – 40 GHz, RBW = 1 MHz, VBW = 10 Hz.
6. We have done 802.11a, 802.11n_20 MHz BW test. Worst case is 6 Mbps in 802.11a.
7. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

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| | |
|---------------------|----------|
| Band : | UNII 1 |
| Operation Mode: | 802.11 a |
| Transfer Rate: | 6 Mbps |
| Operating Frequency | 5240 MHz |
| Channel No. | 48 Ch |

| Frequency [MHz] | Reading dBuV | AN.+CL-Amp G. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Detect |
|-----------------|--------------|--------------------|----------------|----------------|----------------|-------------|--------|
| 10480 | 42.47 | 9.83 | V | 52.30 | 68.20 | 15.90 | PK |
| 10480 | 31.54 | 9.83 | V | 41.37 | 54.00 | 12.63 | AV |
| 15720 | 45.97 | 14.83 | V | 60.80 | 74.00 | 13.20 | PK |
| 15720 | 32.18 | 14.83 | V | 47.01 | 54.00 | 6.99 | AV |
| 10480 | 41.79 | 9.83 | H | 51.62 | 68.20 | 16.58 | PK |
| 10480 | 31.59 | 9.83 | H | 41.42 | 54.00 | 12.58 | AV |
| 15720 | 45.68 | 14.83 | H | 60.51 | 74.00 | 13.49 | PK |
| 15720 | 32.19 | 14.83 | H | 47.02 | 54.00 | 6.98 | AV |

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (i.e.: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain
5. Spectrum setting:
 - a. Peak Setting 1 GHz – 40 GHz, RBW = 1 MHz, VBW = 3 MHz.
 - b. AV Setting 1 GHz – 40 GHz, RBW = 1 MHz, VBW = 10 Hz.
6. We have done 802.11a, 802.11n_20 MHz BW test. Worst case is 6 Mbps in 802.11a.
7. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

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Wireless Battery Cover:

| | |
|---------------------|----------|
| Band : | UNII 1 |
| Operation Mode: | 802.11 a |
| Transfer Rate: | 6 Mbps |
| Operating Frequency | 5180 MHz |
| Channel No. | 36 Ch |

| Frequency [MHz] | Reading dBuV | AN.+CL-Amp G. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Detect |
|--------------------|-----------------|-----------------------|-------------------|-------------------|-------------------|----------------|--------|
| 10360 | 43.59 | 9.30 | V | 52.89 | 68.20 | 15.31 | PK |
| 10360 | 35.61 | 9.30 | V | 44.91 | 54.00 | 9.09 | AV |
| 15540 | 43.95 | 15.04 | V | 58.99 | 74.00 | 15.01 | PK |
| 15540 | 30.82 | 15.04 | V | 45.86 | 54.00 | 8.14 | AV |
| 10360 | 42.38 | 9.30 | H | 51.68 | 68.20 | 16.52 | PK |
| 10360 | 32.97 | 9.30 | H | 42.27 | 54.00 | 11.73 | AV |
| 15540 | 45.36 | 15.04 | H | 60.40 | 74.00 | 13.60 | PK |
| 15540 | 30.84 | 15.04 | H | 45.88 | 54.00 | 8.12 | AV |

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain
5. Spectrum setting:
 - a. Peak Setting 1 GHz – 40 GHz, RBW = 1 MHz, VBW = 3 MHz.
 - b. AV Setting 1 GHz – 40 GHz, RBW = 1 MHz, VBW = 10 Hz.
6. We have done 802.11a, 802.11n_20 MHz BW test. Worst case is 6 Mbps in 802.11a.
7. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

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| | |
|---------------------|----------|
| Band : | UNII 1 |
| Operation Mode: | 802.11 a |
| Transfer Rate: | 6 Mbps |
| Operating Frequency | 5200 MHz |
| Channel No. | 40 Ch |

| Frequency [MHz] | Reading dBuV | AN.+CL-Amp G. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Detect |
|--------------------|-----------------|-----------------------|-------------------|-------------------|-------------------|----------------|--------|
| 10400 | 42.61 | 9.60 | V | 52.21 | 68.20 | 15.99 | PK |
| 10400 | 33.70 | 9.60 | V | 43.30 | 54.00 | 10.70 | AV |
| 15600 | 44.11 | 14.81 | V | 58.92 | 74.00 | 15.08 | PK |
| 15600 | 31.04 | 14.81 | V | 45.85 | 54.00 | 8.15 | AV |
| 10400 | 41.74 | 9.60 | H | 51.34 | 68.20 | 16.86 | PK |
| 10400 | 31.29 | 9.60 | H | 40.89 | 54.00 | 13.11 | AV |
| 15600 | 43.90 | 14.81 | H | 58.71 | 74.00 | 15.29 | PK |
| 15600 | 31.01 | 14.81 | H | 45.82 | 54.00 | 8.18 | AV |

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain
5. Spectrum setting:
 - a. Peak Setting 1 GHz – 40 GHz, RBW = 1 MHz, VBW = 3 MHz.
 - b. AV Setting 1 GHz – 40 GHz, RBW = 1 MHz, VBW = 10 Hz.
6. We have done 802.11a, 802.11n_20 MHz BW test. Worst case is 6 Mbps in 802.11a.
7. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

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| | |
|---------------------|----------|
| Band : | UNII 1 |
| Operation Mode: | 802.11 a |
| Transfer Rate: | 6 Mbps |
| Operating Frequency | 5240 MHz |
| Channel No. | 48 Ch |

| Frequency [MHz] | Reading dBuV | AN.+CL-Amp G. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Detect |
|-----------------|--------------|--------------------|----------------|----------------|----------------|-------------|--------|
| 10480 | 42.92 | 9.83 | V | 52.75 | 68.20 | 15.45 | PK |
| 10480 | 33.08 | 9.83 | V | 42.91 | 54.00 | 11.09 | AV |
| 15720 | 45.98 | 14.83 | V | 60.81 | 74.00 | 13.19 | PK |
| 15720 | 32.23 | 14.83 | V | 47.06 | 54.00 | 6.94 | AV |
| 10480 | 42.08 | 9.83 | H | 51.91 | 68.20 | 16.29 | PK |
| 10480 | 31.47 | 9.83 | H | 41.30 | 54.00 | 12.70 | AV |
| 15720 | 45.76 | 14.83 | H | 60.59 | 74.00 | 13.41 | PK |
| 15720 | 32.26 | 14.83 | H | 47.09 | 54.00 | 6.91 | AV |

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (i.e.: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain
5. Spectrum setting:
 - a. Peak Setting 1 GHz – 40 GHz, RBW = 1 MHz, VBW = 3 MHz.
 - b. AV Setting 1 GHz – 40 GHz, RBW = 1 MHz, VBW = 10 Hz.
6. We have done 802.11a, 802.11n_20 MHz BW test. Worst case is 6 Mbps in 802.11a.
7. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

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Normal Battery Cover:

| | |
|---------------------|-------------------|
| Band : | UNII 1 |
| Operation Mode: | 802.11n_40 MHz BW |
| Transfer Rate: | 13.5 Mbps |
| Operating Frequency | 5190 MHz |
| Channel No. | 38 Ch |

| Frequency [MHz] | Reading dBuV | AN.+CL-Amp G. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Detec |
|--------------------|-----------------|-----------------------|-------------------|-------------------|-------------------|----------------|-------|
| 10380 | 42.56 | 9.43 | V | 51.99 | 68.20 | 16.21 | PK |
| 10380 | 33.60 | 9.43 | V | 43.03 | 54.00 | 10.97 | AV |
| 15570 | 43.83 | 14.93 | V | 58.76 | 74.00 | 15.24 | PK |
| 15570 | 30.84 | 14.93 | V | 45.77 | 54.00 | 8.23 | AV |
| 10380 | 41.86 | 9.43 | H | 51.29 | 68.20 | 16.91 | PK |
| 10380 | 32.56 | 9.43 | H | 41.99 | 54.00 | 12.01 | AV |
| 15570 | 44.20 | 14.93 | H | 59.13 | 74.00 | 14.87 | PK |
| 15570 | 30.83 | 14.93 | H | 45.76 | 54.00 | 8.24 | AV |

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain
5. Spectrum setting:
 - a. Peak Setting 1 GHz – 40 GHz, RBW = 1 MHz, VBW = 3 MHz.
 - b. AV Setting 1 GHz – 40 GHz, RBW = 1 MHz, VBW = 10 Hz.
6. We have done all data rate in 802.11n_40 MHz BW. Worst case is 13.5 Mbps in 802.11n_40 MHz BW.
7. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
8. We have done normal battery cover, extended battery cover and wireless charging cover. In case of 802.11n_40 MHz BW_5 GHz band, worst case is normal battery cover.

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| | |
|---------------------|-------------------|
| Band : | UNII 1 |
| Operation Mode: | 802.11n_40 MHz BW |
| Transfer Rate: | 13.5 Mbps |
| Operating Frequency | 5230 MHz |
| Channel No. | 46 Ch |

| Frequency [MHz] | Reading dBuV | AN.+CL-Amp G. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Detect |
|--------------------|-----------------|-----------------------|-------------------|-------------------|-------------------|----------------|--------|
| 10460 | 43.40 | 9.72 | V | 53.12 | 68.20 | 15.08 | PK |
| 10460 | 34.73 | 9.72 | V | 44.45 | 54.00 | 9.55 | AV |
| 15690 | 45.44 | 14.81 | V | 60.25 | 74.00 | 13.75 | PK |
| 15690 | 31.83 | 14.81 | V | 46.64 | 54.00 | 7.36 | AV |
| 10460 | 41.73 | 9.72 | H | 51.45 | 68.20 | 16.75 | PK |
| 10460 | 31.48 | 9.72 | H | 41.20 | 54.00 | 12.80 | AV |
| 15690 | 45.39 | 14.81 | H | 60.20 | 74.00 | 13.80 | PK |
| 15690 | 31.86 | 14.81 | H | 46.67 | 54.00 | 7.33 | AV |

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain
5. Spectrum setting:
 - a. Peak Setting 1 GHz – 40 GHz, RBW = 1 MHz, VBW = 3 MHz.
 - b. AV Setting 1 GHz – 40 GHz, RBW = 1 MHz, VBW = 10 Hz.
6. We have done all data rate in 802.11n_40 MHz BW. Worst case is 13.5 Mbps in 802.11n_40 MHz BW.
7. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
8. We have done normal battery cover, extended battery cover and wireless charging cover. In case of 802.11n_40 MHz BW_5 GHz band, worst case is normal battery cover.

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Normal Battery Cover:

| | |
|---------------------|----------|
| Band : | UNII 2 |
| Operation Mode: | 802.11 a |
| Transfer Rate: | 6 Mbps |
| Operating Frequency | 5260 MHz |
| Channel No. | 52 Ch |

| Frequency [MHz] | Reading dBuV | AN.+CL-Amp G. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Detect |
|--------------------|-----------------|-----------------------|-------------------|-------------------|-------------------|----------------|--------|
| 10520 | 43.43 | 9.86 | V | 53.29 | 68.20 | 14.91 | PK |
| 10520 | 34.12 | 9.86 | V | 43.98 | 54.00 | 10.02 | AV |
| 15780 | 45.93 | 14.94 | V | 60.87 | 74.00 | 13.13 | PK |
| 15780 | 31.97 | 14.94 | V | 46.91 | 54.00 | 7.09 | AV |
| 10520 | 43.14 | 9.86 | H | 53.00 | 68.20 | 15.20 | PK |
| 10520 | 33.79 | 9.86 | H | 43.65 | 54.00 | 10.35 | AV |
| 15780 | 45.27 | 14.94 | H | 60.21 | 74.00 | 13.79 | PK |
| 15780 | 31.97 | 14.94 | H | 46.91 | 54.00 | 7.09 | AV |

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain
5. Spectrum setting:
 - a. Peak Setting 1 GHz – 40 GHz, RBW = 1 MHz, VBW = 3 MHz.
 - b. AV Setting 1 GHz – 40 GHz, RBW = 1 MHz, VBW = 10 Hz.
6. We have done 802.11a, 802.11n_20 MHz BW test. Worst case is 6 Mbps in 802.11a.
7. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

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| | |
|---------------------|----------|
| Band : | UNII 2 |
| Operation Mode: | 802.11 a |
| Transfer Rate: | 6 Mbps |
| Operating Frequency | 5300 MHz |
| Channel No. | 60 Ch |

| Frequency [MHz] | Reading dBuV | AN.+CL-Amp G. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Detect |
|--------------------|-----------------|-----------------------|-------------------|-------------------|-------------------|----------------|--------|
| 10600 | 43.19 | 9.35 | V | 52.54 | 68.20 | 15.66 | PK |
| 10600 | 33.81 | 9.35 | V | 43.16 | 54.00 | 10.84 | AV |
| 15900 | 44.25 | 14.89 | V | 59.14 | 74.00 | 14.86 | PK |
| 15900 | 30.48 | 14.89 | V | 45.37 | 54.00 | 8.63 | AV |
| 10600 | 42.87 | 9.35 | H | 52.22 | 68.20 | 15.98 | PK |
| 10600 | 32.42 | 9.35 | H | 41.77 | 54.00 | 12.23 | AV |
| 15900 | 44.08 | 14.89 | H | 58.97 | 74.00 | 15.03 | PK |
| 15900 | 30.49 | 14.89 | H | 45.38 | 54.00 | 8.62 | AV |

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain
5. Spectrum setting:
 - a. Peak Setting 1 GHz – 40 GHz, RBW = 1 MHz, VBW = 3 MHz.
 - b. AV Setting 1 GHz – 40 GHz, RBW = 1 MHz, VBW = 10 Hz.
6. We have done 802.11a, 802.11n_20 MHz BW test. Worst case is 6 Mbps in 802.11a.
7. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

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| | |
|---------------------|----------|
| Band : | UNII 2 |
| Operation Mode: | 802.11 a |
| Transfer Rate: | 6 Mbps |
| Operating Frequency | 5320 MHz |
| Channel No. | 64 Ch |

| Frequency [MHz] | Reading dBuV | AN.+CL-Amp G. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Detect |
|--------------------|-----------------|-----------------------|-------------------|-------------------|-------------------|----------------|--------|
| 10640 | 43.22 | 9.46 | V | 52.68 | 74.00 | 21.32 | PK |
| 10640 | 34.34 | 9.46 | V | 43.80 | 54.00 | 10.20 | AV |
| 15960 | 44.12 | 15.06 | V | 59.18 | 74.00 | 14.82 | PK |
| 15960 | 30.18 | 15.06 | V | 45.24 | 54.00 | 8.76 | AV |
| 10640 | 43.19 | 9.46 | H | 52.65 | 74.00 | 21.35 | PK |
| 10640 | 33.75 | 9.46 | H | 43.21 | 54.00 | 10.79 | AV |
| 15960 | 43.09 | 15.06 | H | 58.15 | 74.00 | 15.85 | PK |
| 15960 | 30.22 | 15.06 | H | 45.28 | 54.00 | 8.72 | AV |

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain
5. Spectrum setting:
 - a. Peak Setting 1 GHz – 40 GHz, RBW = 1 MHz, VBW = 3 MHz.
 - b. AV Setting 1 GHz – 40 GHz, RBW = 1 MHz, VBW = 10 Hz.
6. We have done 802.11a, 802.11n_20 MHz BW test. Worst case is 6 Mbps in 802.11a.
7. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

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| Test Report No. HCTR1207FR14 | Date of Issue: July 19, 2012 | EUT Type: CDMA/GSM/LTE Phone with BT/WLAN/NFC | | | FCC ID: JYCPREMIAV |

Extended Battery Cover:

| | |
|---------------------|----------|
| Band : | UNII 2 |
| Operation Mode: | 802.11 a |
| Transfer Rate: | 6 Mbps |
| Operating Frequency | 5260 MHz |
| Channel No. | 52 Ch |

| Frequency [MHz] | Reading dBuV | AN.+CL-Amp G. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Detect |
|--------------------|-----------------|-----------------------|-------------------|-------------------|-------------------|----------------|--------|
| 10520 | 41.94 | 9.86 | V | 51.80 | 68.20 | 16.40 | PK |
| 10520 | 31.75 | 9.86 | V | 41.61 | 54.00 | 12.39 | AV |
| 15780 | 45.42 | 14.94 | V | 60.36 | 74.00 | 13.64 | PK |
| 15780 | 31.98 | 14.94 | V | 46.92 | 54.00 | 7.08 | AV |
| 10520 | 42.63 | 9.86 | H | 52.49 | 68.20 | 15.71 | PK |
| 10520 | 31.98 | 9.86 | H | 41.84 | 54.00 | 12.16 | AV |
| 15780 | 46.08 | 14.94 | H | 61.02 | 74.00 | 12.98 | PK |
| 15780 | 31.99 | 14.94 | H | 46.93 | 54.00 | 7.07 | AV |

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain
5. Spectrum setting:
 - a. Peak Setting 1 GHz – 40 GHz, RBW = 1 MHz, VBW = 3 MHz.
 - b. AV Setting 1 GHz – 40 GHz, RBW = 1 MHz, VBW = 10 Hz.
6. We have done 802.11a, 802.11n_20 MHz BW test. Worst case is 6 Mbps in 802.11a.
7. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

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| | |
|---------------------|----------|
| Band : | UNII 2 |
| Operation Mode: | 802.11 a |
| Transfer Rate: | 6 Mbps |
| Operating Frequency | 5300 MHz |
| Channel No. | 60 Ch |

| Frequency [MHz] | Reading dBuV | AN.+CL-Amp G. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Detect |
|--------------------|-----------------|-----------------------|-------------------|-------------------|-------------------|----------------|--------|
| 10600 | 41.78 | 9.35 | V | 51.13 | 68.20 | 17.07 | PK |
| 10600 | 30.26 | 9.35 | V | 39.61 | 54.00 | 14.39 | AV |
| 15900 | 43.90 | 14.89 | V | 58.79 | 74.00 | 15.21 | PK |
| 15900 | 30.49 | 14.89 | V | 45.38 | 54.00 | 8.62 | AV |
| 10600 | 42.84 | 9.35 | H | 52.19 | 68.20 | 16.01 | PK |
| 10600 | 31.60 | 9.35 | H | 40.95 | 54.00 | 13.05 | AV |
| 15900 | 43.86 | 14.89 | H | 58.75 | 74.00 | 15.25 | PK |
| 15900 | 30.54 | 14.89 | H | 45.43 | 54.00 | 8.57 | AV |

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain
5. Spectrum setting:
 - a. Peak Setting 1 GHz – 40 GHz, RBW = 1 MHz, VBW = 3 MHz.
 - b. AV Setting 1 GHz – 40 GHz, RBW = 1 MHz, VBW = 10 Hz.
6. We have done 802.11a, 802.11n_20 MHz BW test. Worst case is 6 Mbps in 802.11a.
7. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

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| | |
|---------------------|----------|
| Band : | UNII 2 |
| Operation Mode: | 802.11 a |
| Transfer Rate: | 6 Mbps |
| Operating Frequency | 5320 MHz |
| Channel No. | 64 Ch |

| Frequency [MHz] | Reading dBuV | AN.+CL-Amp G. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Detect |
|--------------------|-----------------|-----------------------|-------------------|-------------------|-------------------|----------------|--------|
| 10640 | 42.65 | 9.46 | V | 52.11 | 74.00 | 21.89 | PK |
| 10640 | 31.91 | 9.46 | V | 41.37 | 54.00 | 12.63 | AV |
| 15960 | 43.40 | 15.06 | V | 58.46 | 74.00 | 15.54 | PK |
| 15960 | 30.26 | 15.06 | V | 45.32 | 54.00 | 8.68 | AV |
| 10640 | 42.34 | 9.46 | H | 51.80 | 74.00 | 22.20 | PK |
| 10640 | 32.21 | 9.46 | H | 41.67 | 54.00 | 12.33 | AV |
| 15960 | 44.28 | 15.06 | H | 59.34 | 74.00 | 14.66 | PK |
| 15960 | 30.24 | 15.06 | H | 45.30 | 54.00 | 8.70 | AV |

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain
5. Spectrum setting:
 - a. Peak Setting 1 GHz – 40 GHz, RBW = 1 MHz, VBW = 3 MHz.
 - b. AV Setting 1 GHz – 40 GHz, RBW = 1 MHz, VBW = 10 Hz.
6. We have done 802.11a, 802.11n_20 MHz BW test. Worst case is 6 Mbps in 802.11a.
7. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

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Wireless Battery Cover:

| | |
|---------------------|----------|
| Band : | UNII 2 |
| Operation Mode: | 802.11 a |
| Transfer Rate: | 6 Mbps |
| Operating Frequency | 5260 MHz |
| Channel No. | 52 Ch |

| Frequency [MHz] | Reading dBuV | AN.+CL-Amp G. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Detect |
|--------------------|-----------------|-----------------------|-------------------|-------------------|-------------------|----------------|--------|
| 10520 | 42.80 | 9.86 | V | 52.66 | 68.20 | 15.54 | PK |
| 10520 | 33.20 | 9.86 | V | 43.06 | 54.00 | 10.94 | AV |
| 15780 | 45.69 | 14.94 | V | 60.63 | 74.00 | 13.37 | PK |
| 15780 | 32.06 | 14.94 | V | 47.00 | 54.00 | 7.00 | AV |
| 10520 | 42.35 | 9.86 | H | 52.21 | 68.20 | 15.99 | PK |
| 10520 | 31.94 | 9.86 | H | 41.80 | 54.00 | 12.20 | AV |
| 15780 | 45.79 | 14.94 | H | 60.73 | 74.00 | 13.27 | PK |
| 15780 | 32.05 | 14.94 | H | 46.99 | 54.00 | 7.01 | AV |

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain
5. Spectrum setting:
 - a. Peak Setting 1 GHz – 40 GHz, RBW = 1 MHz, VBW = 3 MHz.
 - b. AV Setting 1 GHz – 40 GHz, RBW = 1 MHz, VBW = 10 Hz.
6. We have done 802.11a, 802.11n_20 MHz BW test. Worst case is 6 Mbps in 802.11a.
7. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

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| | |
|---------------------|----------|
| Band : | UNII 2 |
| Operation Mode: | 802.11 a |
| Transfer Rate: | 6 Mbps |
| Operating Frequency | 5300 MHz |
| Channel No. | 60 Ch |

| Frequency [MHz] | Reading dBuV | AN.+CL-Amp G. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Detect |
|--------------------|-----------------|-----------------------|-------------------|-------------------|-------------------|----------------|--------|
| 10600 | 41.74 | 9.35 | V | 51.09 | 68.20 | 17.11 | PK |
| 10600 | 31.73 | 9.35 | V | 41.08 | 54.00 | 12.92 | AV |
| 15900 | 43.53 | 14.89 | V | 58.42 | 74.00 | 15.58 | PK |
| 15900 | 30.55 | 14.89 | V | 45.44 | 54.00 | 8.56 | AV |
| 10600 | 42.53 | 9.35 | H | 51.88 | 68.20 | 16.32 | PK |
| 10600 | 31.39 | 9.35 | H | 40.74 | 54.00 | 13.26 | AV |
| 15900 | 43.56 | 14.89 | H | 58.45 | 74.00 | 15.55 | PK |
| 15900 | 30.57 | 14.89 | H | 45.46 | 54.00 | 8.54 | AV |

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain
5. Spectrum setting:
 - a. Peak Setting 1 GHz – 40 GHz, RBW = 1 MHz, VBW = 3 MHz.
 - b. AV Setting 1 GHz – 40 GHz, RBW = 1 MHz, VBW = 10 Hz.
6. We have done 802.11a, 802.11n_20 MHz BW test. Worst case is 6 Mbps in 802.11a.
7. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

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| | |
|---------------------|----------|
| Band : | UNII 2 |
| Operation Mode: | 802.11 a |
| Transfer Rate: | 6 Mbps |
| Operating Frequency | 5320 MHz |
| Channel No. | 64 Ch |

| Frequency [MHz] | Reading dBuV | AN.+CL-Amp G. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Detect |
|--------------------|-----------------|-----------------------|-------------------|-------------------|-------------------|----------------|--------|
| 10640 | 42.00 | 9.46 | V | 51.46 | 74 | 22.54 | PK |
| 10640 | 31.40 | 9.46 | V | 40.86 | 54 | 13.14 | AV |
| 15960 | 43.71 | 15.06 | V | 58.77 | 74 | 15.23 | PK |
| 15960 | 30.31 | 15.06 | V | 45.37 | 54 | 8.63 | AV |
| 10640 | 43.13 | 9.46 | H | 52.59 | 74 | 21.41 | PK |
| 10640 | 32.12 | 9.46 | H | 41.58 | 54 | 12.42 | AV |
| 15960 | 43.58 | 15.06 | H | 58.64 | 74 | 15.36 | PK |
| 15960 | 30.29 | 15.06 | H | 45.35 | 54 | 8.65 | AV |

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain
5. Spectrum setting:
 - a. Peak Setting 1 GHz – 40 GHz, RBW = 1 MHz, VBW = 3 MHz.
 - b. AV Setting 1 GHz – 40 GHz, RBW = 1 MHz, VBW = 10 Hz.
6. We have done 802.11a, 802.11n_20 MHz BW test. Worst case is 6 Mbps in 802.11a.
7. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

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Normal Battery Cover:

| | |
|---------------------|-------------------|
| Band : | UNII 2 |
| Operation Mode: | 802.11n_40 MHz BW |
| Transfer Rate: | 13.5 Mbps |
| Operating Frequency | 5270 MHz |
| Channel No. | 54 Ch |

| Frequency [MHz] | Reading dBuV | AN.+CL-Amp G. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Detect |
|--------------------|-----------------|-----------------------|-------------------|-------------------|-------------------|----------------|--------|
| 10540 | 42.30 | 9.84 | V | 52.14 | 68.2 | 16.06 | PK |
| 10540 | 32.08 | 9.84 | V | 41.92 | 54.0 | 12.08 | AV |
| 15810 | 45.39 | 14.93 | V | 60.32 | 74.0 | 13.68 | PK |
| 15810 | 31.46 | 14.93 | V | 46.39 | 54.0 | 7.61 | AV |
| 10540 | 41.90 | 9.84 | H | 51.74 | 68.2 | 16.46 | PK |
| 10540 | 30.36 | 9.84 | H | 40.20 | 54.0 | 13.80 | AV |
| 15810 | 45.04 | 14.93 | H | 59.97 | 74.0 | 14.03 | PK |
| 15810 | 31.37 | 14.93 | H | 46.30 | 54.0 | 7.70 | AV |

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain
5. Spectrum setting:
 - a. Peak Setting 1 GHz – 40 GHz, RBW = 1 MHz, VBW = 3 MHz.
 - b. AV Setting 1 GHz – 40 GHz, RBW = 1 MHz, VBW = 10 Hz.
6. We have done all data rate in 802.11n_40 MHz BW. Worst case is 13.5 Mbps in 802.11n_40 MHz BW.
7. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
8. We have done normal battery cover, extended battery cover and wireless charging cover. In case of 802.11n_40 MHz BW_5 GHz band, worst case is normal battery cover.

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| | |
|---------------------|-------------------|
| Band : | UNII 2 |
| Operation Mode: | 802.11n_40 MHz BW |
| Transfer Rate: | 13.5 Mbps |
| Operating Frequency | 5310 MHz |
| Channel No. | 62 Ch |

| Frequency [MHz] | Reading dBuV | AN.+CL-Amp G. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Detect |
|--------------------|-----------------|-----------------------|-------------------|-------------------|-------------------|----------------|--------|
| 10620 | 41.83 | 9.32 | V | 51.15 | 68.2 | 17.05 | PK |
| 10620 | 30.89 | 9.32 | V | 40.21 | 54.0 | 13.79 | AV |
| 15930 | 43.52 | 14.98 | V | 58.50 | 74.0 | 15.50 | PK |
| 15930 | 30.10 | 14.98 | V | 45.08 | 54.0 | 8.92 | AV |
| 10620 | 40.99 | 9.32 | H | 50.31 | 68.2 | 17.89 | PK |
| 10620 | 29.17 | 9.32 | H | 38.49 | 54.0 | 15.51 | AV |
| 15930 | 43.70 | 14.98 | H | 58.68 | 74.0 | 15.32 | PK |
| 15930 | 30.44 | 14.98 | H | 45.42 | 54.0 | 8.58 | AV |

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain
5. Spectrum setting:
 - a. Peak Setting 1 GHz – 40 GHz, RBW = 1 MHz, VBW = 3 MHz.
 - b. AV Setting 1 GHz – 40 GHz, RBW = 1 MHz, VBW = 10 Hz.
6. We have done all data rate in 802.11n_40 MHz BW. Worst case is 13.5 Mbps in 802.11n_40 MHz BW.
7. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
8. We have done normal battery cover, extended battery cover and wireless charging cover. In case of 802.11n_40 MHz BW_5 GHz band, worst case is normal battery cover.

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Normal Battery Cover:

| | |
|---------------------|----------|
| Band : | UNII 3 |
| Operation Mode: | 802.11 a |
| Transfer Rate: | 6 Mbps |
| Operating Frequency | 5500 MHz |
| Channel No. | 100 Ch |

| Frequency [MHz] | Reading dBuV | AN.+CL-Amp G. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Detect |
|--------------------|-----------------|-----------------------|-------------------|-------------------|-------------------|----------------|--------|
| 11000 | 44.38 | 10.54 | V | 54.92 | 74.0 | 19.08 | PK |
| 11000 | 38.33 | 10.54 | V | 48.87 | 54.0 | 5.13 | AV |
| 16500 | 46.11 | 16.37 | V | 62.48 | 68.2 | 5.72 | PK |
| 16500 | 31.60 | 16.37 | V | 47.97 | 54.0 | 6.03 | AV |
| 11000 | 44.32 | 10.54 | H | 54.86 | 74.0 | 19.14 | PK |
| 11000 | 38.52 | 10.54 | H | 49.06 | 54.0 | 4.94 | AV |
| 16500 | 44.78 | 16.37 | H | 61.15 | 68.2 | 7.05 | PK |
| 16500 | 31.60 | 16.37 | H | 47.97 | 54.0 | 6.03 | AV |

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain
5. Spectrum setting:
 - a. Peak Setting 1 GHz – 40 GHz, RBW = 1 MHz, VBW = 3 MHz.
 - b. AV Setting 1 GHz – 40 GHz, RBW = 1 MHz, VBW = 10 Hz.
6. We have done 802.11a, 802.11n_20 MHz BW test. Worst case is 6 Mbps in 802.11a.
7. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

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| | |
|---------------------|----------|
| Band : | UNII 3 |
| Operation Mode: | 802.11 a |
| Transfer Rate: | 6 Mbps |
| Operating Frequency | 5600 MHz |
| Channel No. | 120 Ch |

| Frequency [MHz] | Reading dBuV | AN.+CL-Amp G. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Detect |
|--------------------|-----------------|-----------------------|-------------------|-------------------|-------------------|----------------|--------|
| 11200 | 44.46 | 10.16 | V | 54.62 | 74.0 | 19.38 | PK |
| 11200 | 39.73 | 10.16 | V | 49.89 | 54.0 | 4.11 | AV |
| 16800 | 43.25 | 18.26 | V | 61.51 | 68.2 | 6.69 | PK |
| 16800 | 31.56 | 18.26 | V | 49.82 | 54.0 | 4.18 | AV |
| 11200 | 45.10 | 10.16 | H | 55.26 | 74.0 | 18.74 | PK |
| 11200 | 40.17 | 10.16 | H | 50.33 | 54.0 | 3.67 | AV |
| 16800 | 44.82 | 18.26 | H | 63.08 | 68.2 | 5.12 | PK |
| 16800 | 31.59 | 18.26 | H | 49.85 | 54.0 | 4.15 | AV |

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain
5. Spectrum setting:
 - a. Peak Setting 1 GHz – 40 GHz, RBW = 1 MHz, VBW = 3 MHz.
 - b. AV Setting 1 GHz – 40 GHz, RBW = 1 MHz, VBW = 10 Hz.
6. We have done 802.11a, 802.11n_20 MHz BW test. Worst case is 6 Mbps in 802.11a.
7. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

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| | |
|---------------------|----------|
| Band : | UNII 3 |
| Operation Mode: | 802.11 a |
| Transfer Rate: | 6 Mbps |
| Operating Frequency | 5700 MHz |
| Channel No. | 140 Ch |

| Frequency [MHz] | Reading dBuV | AN.+CL-Amp G. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Detect |
|--------------------|-----------------|-----------------------|-------------------|-------------------|-------------------|----------------|--------|
| 11400 | 43.33 | 10.21 | V | 53.54 | 74.0 | 20.46 | PK |
| 11400 | 37.27 | 10.21 | V | 47.48 | 54.0 | 6.52 | AV |
| 17100 | 44.86 | 18.86 | V | 63.72 | 68.2 | 4.48 | PK |
| 17100 | 31.31 | 18.86 | V | 50.17 | 54.0 | 3.83 | AV |
| 11400 | 42.29 | 10.21 | H | 52.50 | 74.0 | 21.50 | PK |
| 11400 | 34.91 | 10.21 | H | 45.12 | 54.0 | 8.88 | AV |
| 17100 | 44.50 | 18.86 | H | 63.36 | 68.2 | 4.84 | PK |
| 17100 | 31.35 | 18.86 | H | 50.21 | 54.0 | 3.79 | AV |

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain
5. Spectrum setting:
 - a. Peak Setting 1 GHz – 40 GHz, RBW = 1 MHz, VBW = 3 MHz.
 - b. AV Setting 1 GHz – 40 GHz, RBW = 1 MHz, VBW = 10 Hz.
6. We have done 802.11a, 802.11n_20 MHz BW test. Worst case is 6 Mbps in 802.11a.
7. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

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Extended Battery Cover:

| | |
|---------------------|----------|
| Band : | UNII 3 |
| Operation Mode: | 802.11 a |
| Transfer Rate: | 6 Mbps |
| Operating Frequency | 5500 MHz |
| Channel No. | 100 Ch |

| Frequency [MHz] | Reading dBuV | AN.+CL-Amp G. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Detect |
|--------------------|-----------------|-----------------------|-------------------|-------------------|-------------------|----------------|--------|
| 11000 | 44.38 | 10.54 | V | 54.92 | 74.0 | 19.08 | PK |
| 11000 | 37.84 | 10.54 | V | 48.38 | 54.0 | 5.62 | AV |
| 16500 | 45.24 | 16.37 | V | 61.61 | 68.2 | 6.59 | PK |
| 16500 | 31.58 | 16.37 | V | 47.95 | 54.0 | 6.05 | AV |
| 11000 | 43.82 | 10.54 | H | 54.36 | 74.0 | 19.64 | PK |
| 11000 | 35.57 | 10.54 | H | 46.11 | 54.0 | 7.89 | AV |
| 16500 | 45.10 | 16.37 | H | 61.47 | 68.2 | 6.73 | PK |
| 16500 | 31.62 | 16.37 | H | 47.99 | 54.0 | 6.01 | AV |

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain
5. Spectrum setting:
 - a. Peak Setting 1 GHz – 40 GHz, RBW = 1 MHz, VBW = 3 MHz.
 - b. AV Setting 1 GHz – 40 GHz, RBW = 1 MHz, VBW = 10 Hz.
6. We have done 802.11a, 802.11n_20 MHz BW test. Worst case is 6 Mbps in 802.11a.
7. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

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| | |
|---------------------|----------|
| Band : | UNII 3 |
| Operation Mode: | 802.11 a |
| Transfer Rate: | 6 Mbps |
| Operating Frequency | 5600 MHz |
| Channel No. | 120 Ch |

| Frequency [MHz] | Reading dBuV | AN.+CL-Amp G. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Detect |
|--------------------|-----------------|-----------------------|-------------------|-------------------|-------------------|----------------|--------|
| 11200 | 43.82 | 10.16 | V | 53.98 | 74.0 | 20.02 | PK |
| 11200 | 37.99 | 10.16 | V | 48.15 | 54.0 | 5.85 | AV |
| 16800 | 44.99 | 18.26 | V | 63.25 | 68.2 | 4.95 | PK |
| 16800 | 31.67 | 18.26 | V | 49.93 | 54.0 | 4.07 | AV |
| 11200 | 44.54 | 10.16 | H | 54.70 | 74.0 | 19.30 | PK |
| 11200 | 37.40 | 10.16 | H | 47.56 | 54.0 | 6.44 | AV |
| 16800 | 45.54 | 18.26 | H | 63.80 | 68.2 | 4.40 | PK |
| 16800 | 31.66 | 18.26 | H | 49.92 | 54.0 | 4.08 | AV |

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain
5. Spectrum setting:
 - a. Peak Setting 1 GHz – 40 GHz, RBW = 1 MHz, VBW = 3 MHz.
 - b. AV Setting 1 GHz – 40 GHz, RBW = 1 MHz, VBW = 10 Hz.
6. We have done 802.11a, 802.11n_20 MHz BW test. Worst case is 6 Mbps in 802.11a.
7. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

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| | |
|---------------------|----------|
| Band : | UNII 3 |
| Operation Mode: | 802.11 a |
| Transfer Rate: | 6 Mbps |
| Operating Frequency | 5700 MHz |
| Channel No. | 140 Ch |

| Frequency [MHz] | Reading dBuV | AN.+CL-Amp G. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Detect |
|--------------------|-----------------|-----------------------|-------------------|-------------------|-------------------|----------------|--------|
| 11400 | 43.89 | 10.21 | V | 54.10 | 74.0 | 19.90 | PK |
| 11400 | 38.50 | 10.21 | V | 48.71 | 54.0 | 5.29 | AV |
| 17100 | 44.80 | 18.86 | V | 63.66 | 68.2 | 4.54 | PK |
| 17100 | 31.36 | 18.86 | V | 50.22 | 54.0 | 3.78 | AV |
| 11400 | 41.44 | 10.21 | H | 51.65 | 74.0 | 22.35 | PK |
| 11400 | 33.55 | 10.21 | H | 43.76 | 54.0 | 10.24 | AV |
| 17100 | 44.41 | 18.86 | H | 63.27 | 68.2 | 4.93 | PK |
| 17100 | 31.40 | 18.86 | H | 50.26 | 54.0 | 3.74 | AV |

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain
5. Spectrum setting:
 - a. Peak Setting 1 GHz – 40 GHz, RBW = 1 MHz, VBW = 3 MHz.
 - b. AV Setting 1 GHz – 40 GHz, RBW = 1 MHz, VBW = 10 Hz.
6. We have done 802.11a, 802.11n_20 MHz BW test. Worst case is 6 Mbps in 802.11a.
7. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

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Wireless Battery Cover:

| | |
|---------------------|----------|
| Band : | UNII 3 |
| Operation Mode: | 802.11 a |
| Transfer Rate: | 6 Mbps |
| Operating Frequency | 5500 MHz |
| Channel No. | 100 Ch |

| Frequency [MHz] | Reading dBuV | AN.+CL-Amp G. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Detect |
|--------------------|-----------------|-----------------------|-------------------|-------------------|-------------------|----------------|--------|
| 11000 | 43.98 | 10.54 | V | 54.52 | 74.0 | 19.48 | PK |
| 11000 | 37.94 | 10.54 | V | 48.48 | 54.0 | 5.52 | AV |
| 16500 | 45.47 | 16.37 | V | 61.84 | 68.2 | 6.36 | PK |
| 16500 | 31.62 | 16.37 | V | 47.99 | 54.0 | 6.01 | AV |
| 11000 | 44.10 | 10.54 | H | 54.64 | 74.0 | 19.36 | PK |
| 11000 | 37.60 | 10.54 | H | 48.14 | 54.0 | 5.86 | AV |
| 16500 | 45.24 | 16.37 | H | 61.61 | 68.2 | 6.59 | PK |
| 16500 | 31.65 | 16.37 | H | 48.02 | 54.0 | 5.98 | AV |

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain
5. Spectrum setting:
 - a. Peak Setting 1 GHz – 40 GHz, RBW = 1 MHz, VBW = 3 MHz.
 - b. AV Setting 1 GHz – 40 GHz, RBW = 1 MHz, VBW = 10 Hz.
6. We have done 802.11a, 802.11n_20 MHz BW test. Worst case is 6 Mbps in 802.11a.
7. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

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| | |
|---------------------|----------|
| Band : | UNII 3 |
| Operation Mode: | 802.11 a |
| Transfer Rate: | 6 Mbps |
| Operating Frequency | 5600 MHz |
| Channel No. | 120 Ch |

| Frequency [MHz] | Reading dBuV | AN.+CL-Amp G. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Detect |
|--------------------|-----------------|-----------------------|-------------------|-------------------|-------------------|----------------|--------|
| 11200 | 44.08 | 10.16 | V | 54.24 | 74.0 | 19.76 | PK |
| 11200 | 38.84 | 10.16 | V | 49.00 | 54.0 | 5.00 | AV |
| 16800 | 45.12 | 18.26 | V | 63.38 | 68.2 | 4.82 | PK |
| 16800 | 31.71 | 18.26 | V | 49.97 | 54.0 | 4.03 | AV |
| 11200 | 44.53 | 10.16 | H | 54.69 | 74.0 | 19.31 | PK |
| 11200 | 38.82 | 10.16 | H | 48.98 | 54.0 | 5.02 | AV |
| 16800 | 45.98 | 18.26 | H | 64.24 | 68.2 | 3.96 | PK |
| 16800 | 31.68 | 18.26 | H | 49.94 | 54.0 | 4.06 | AV |

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain
5. Spectrum setting:
 - a. Peak Setting 1 GHz – 40 GHz, RBW = 1 MHz, VBW = 3 MHz.
 - b. AV Setting 1 GHz – 40 GHz, RBW = 1 MHz, VBW = 10 Hz.
6. We have done 802.11a, 802.11n_20 MHz BW test. Worst case is 6 Mbps in 802.11a.
7. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

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| | |
|---------------------|----------|
| Band : | UNII 3 |
| Operation Mode: | 802.11 a |
| Transfer Rate: | 6 Mbps |
| Operating Frequency | 5700 MHz |
| Channel No. | 140 Ch |

| Frequency [MHz] | Reading dBuV | AN.+CL-Amp G. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Detect |
|--------------------|-----------------|-----------------------|-------------------|-------------------|-------------------|----------------|--------|
| 11400 | 43.78 | 10.21 | V | 53.99 | 74.0 | 20.01 | PK |
| 11400 | 38.50 | 10.21 | V | 48.71 | 54.0 | 5.29 | AV |
| 17100 | 44.87 | 18.86 | V | 63.73 | 68.2 | 4.47 | PK |
| 17100 | 31.38 | 18.86 | V | 50.24 | 54.0 | 3.76 | AV |
| 11400 | 42.51 | 10.21 | H | 52.72 | 74.0 | 21.28 | PK |
| 11400 | 35.58 | 10.21 | H | 45.79 | 54.0 | 8.21 | AV |
| 17100 | 44.60 | 18.86 | H | 63.46 | 68.2 | 4.74 | PK |
| 17100 | 31.41 | 18.86 | H | 50.27 | 54.0 | 3.73 | AV |

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain
5. Spectrum setting:
 - a. Peak Setting 1 GHz – 40 GHz, RBW = 1 MHz, VBW = 3 MHz.
 - b. AV Setting 1 GHz – 40 GHz, RBW = 1 MHz, VBW = 10 Hz.
6. We have done 802.11a, 802.11n_20 MHz BW test. Worst case is 6 Mbps in 802.11a.
7. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

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Normal Battery Cover:

| | |
|---------------------|-------------------|
| Band : | UNII 3 |
| Operation Mode: | 802.11n_40 MHz BW |
| Transfer Rate: | 13.5 Mbps |
| Operating Frequency | 5510 MHz |
| Channel No. | 102 Ch |

| Frequency [MHz] | Reading dBuV | AN.+CL-Amp G. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Detect |
|--------------------|-----------------|-----------------------|-------------------|-------------------|-------------------|----------------|--------|
| 11020 | 44.18 | 10.45 | V | 54.63 | 74.0 | 19.37 | PK |
| 11020 | 38.01 | 10.45 | V | 48.46 | 54.0 | 5.54 | AV |
| 16530 | 44.38 | 16.23 | V | 60.61 | 68.2 | 7.59 | PK |
| 16530 | 31.23 | 16.23 | V | 47.46 | 54.0 | 6.54 | AV |
| 11020 | 44.39 | 10.45 | H | 54.84 | 74.0 | 19.16 | PK |
| 11020 | 38.59 | 10.45 | H | 49.04 | 54.0 | 4.96 | AV |
| 16530 | 44.92 | 16.23 | H | 61.15 | 68.2 | 7.05 | PK |
| 16530 | 31.23 | 16.23 | H | 47.46 | 54.0 | 6.54 | AV |

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain
5. Spectrum setting:
 - a. Peak Setting 1 GHz – 40 GHz, RBW = 1 MHz, VBW = 3 MHz.
 - b. AV Setting 1 GHz – 40 GHz, RBW = 1 MHz, VBW = 10 Hz.
6. We have done all data rate in 802.11n_40 MHz BW. Worst case is 13.5 Mbps in 802.11n_40 MHz BW.
7. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
8. We have done normal battery cover, extended battery cover and wireless charging cover. In case of 802.11n_40 MHz BW_5 GHz band, worst case is normal battery cover.

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| | |
|---------------------|-------------------|
| Band : | UNII 3 |
| Operation Mode: | 802.11n_40 MHz BW |
| Transfer Rate: | 13.5 Mbps |
| Operating Frequency | 5590 MHz |
| Channel No. | 118 Ch |

| Frequency [MHz] | Reading dBuV | AN.+CL-Amp G. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Detect |
|--------------------|-----------------|-----------------------|-------------------|-------------------|-------------------|----------------|--------|
| 11180 | 44.24 | 10.19 | V | 54.43 | 74.0 | 19.57 | PK |
| 11180 | 39.22 | 10.19 | V | 49.41 | 54.0 | 4.59 | AV |
| 16770 | 44.23 | 17.30 | V | 61.53 | 68.2 | 6.67 | PK |
| 16770 | 31.01 | 17.30 | V | 48.31 | 54.0 | 5.69 | AV |
| 11180 | 43.61 | 10.19 | H | 53.80 | 74.0 | 20.20 | PK |
| 11180 | 38.48 | 10.19 | H | 48.67 | 54.0 | 5.33 | AV |
| 16770 | 44.76 | 17.30 | H | 62.06 | 68.2 | 6.14 | PK |
| 16770 | 31.44 | 17.30 | H | 48.74 | 54.0 | 5.26 | AV |

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain
5. Spectrum setting:
 - a. Peak Setting 1 GHz – 40 GHz, RBW = 1 MHz, VBW = 3 MHz.
 - b. AV Setting 1 GHz – 40 GHz, RBW = 1 MHz, VBW = 10 Hz.
6. We have done all data rate in 802.11n_40 MHz BW. Worst case is 13.5 Mbps in 802.11n_40 MHz BW.
7. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
8. We have done normal battery cover, extended battery cover and wireless charging cover. In case of 802.11n_40 MHz BW_5 GHz band, worst case is normal battery cover.

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| | |
|---------------------|-------------------|
| Band : | UNII 3 |
| Operation Mode: | 802.11n_40 MHz BW |
| Transfer Rate: | 13.5 Mbps |
| Operating Frequency | 5670 MHz |
| Channel No. | 134 Ch |

| Frequency [MHz] | Reading dBuV | AN.+CL-Amp G. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Detect |
|--------------------|-----------------|-----------------------|-------------------|-------------------|-------------------|----------------|--------|
| 11340 | 44.46 | 10.30 | V | 54.76 | 74.0 | 19.24 | PK |
| 11340 | 39.45 | 10.30 | V | 49.75 | 54.0 | 4.25 | AV |
| 17010 | 44.16 | 18.90 | V | 63.06 | 68.2 | 5.14 | PK |
| 17010 | 30.85 | 18.90 | V | 49.75 | 54.0 | 4.25 | AV |
| 11340 | 43.06 | 10.30 | H | 53.36 | 74.0 | 20.64 | PK |
| 11340 | 36.71 | 10.30 | H | 47.01 | 54.0 | 6.99 | AV |
| 17010 | 43.76 | 18.90 | H | 62.66 | 68.2 | 5.54 | PK |
| 17010 | 30.86 | 18.90 | H | 49.76 | 54.0 | 4.24 | AV |

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain
5. Spectrum setting:
 - a. Peak Setting 1 GHz – 40 GHz, RBW = 1 MHz, VBW = 3 MHz.
 - b. AV Setting 1 GHz – 40 GHz, RBW = 1 MHz, VBW = 10 Hz.
6. We have done all data rate in 802.11n_40 MHz BW. Worst case is 13.5 Mbps in 802.11n_40 MHz BW.
7. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
8. We have done normal battery cover, extended battery cover and wireless charging cover. In case of 802.11n_40 MHz BW_5 GHz band, worst case is normal battery cover.

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8.6.2 RADIATED RESTRICTED BAND EDGE MEASUREMENTS

Test Requirements and limit, §15.247(d) §15.205, §15.209

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in section 15.209(a) (See section 15.205(c)).

Normal Battery Cover:

| | |
|---------------------|----------|
| Band : | UNII 1 |
| Operation Mode: | 802.11 a |
| Transfer Rate: | 6 Mbps |
| Operating Frequency | 5180 MHz |
| Channel No. | 36 Ch |

| Frequency [MHz] | Reading dBuV | AN.+CL+AMP+ATT. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Detect |
|--------------------|-----------------|-------------------------|-------------------|-------------------|-------------------|----------------|--------|
| 5150 | 59.91 | 4.18 | H | 64.09 | 74 | 9.91 | PK |
| 5150 | 42.26 | 4.18 | H | 46.44 | 54 | 7.56 | AV |
| 5150 | 62.89 | 4.18 | V | 67.07 | 74 | 6.93 | PK |
| 5150 | 43.92 | 4.18 | V | 48.10 | 54 | 5.90 | AV |

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Band : UNII 2

Operation Mode: 802.11 a

Transfer Rate: 6 Mbps

Operating Frequency 5320 MHz

Channel No. 64 Ch

| Frequency [MHz] | Reading dBuV | AN.+CL+AMP+ATT. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Detect |
|-----------------|--------------|----------------------|----------------|----------------|----------------|-------------|--------|
| 5350 | 63.44 | 4.8 | H | 68.24 | 74.0 | 5.76 | PK |
| 5350 | 43.00 | 4.8 | H | 47.80 | 54.0 | 6.20 | AV |
| 5350 | 63.16 | 4.8 | V | 67.96 | 74.0 | 6.04 | PK |
| 5350 | 42.45 | 4.8 | V | 47.25 | 54.0 | 6.75 | AV |

Band : UNII 3

Operation Mode: 802.11 a

Transfer Rate: 6 Mbps

Operating Frequency 5500 MHz

Channel No. 100 Ch

| Frequency [MHz] | Reading dBuV | AN.+CL+AMP+ATT. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Detect |
|-----------------|--------------|----------------------|----------------|----------------|----------------|-------------|--------|
| 5460 | 61.30 | 5.04 | H | 66.34 | 68.2 | 1.86 | PK |
| 5460 | 41.60 | 5.04 | H | 46.64 | 54.0 | 7.36 | AV |
| 5460 | 62.74 | 5.04 | V | 67.78 | 68.2 | 0.42 | PK |
| 5460 | 42.92 | 5.04 | V | 47.96 | 54.0 | 6.04 | AV |

Notes:

1. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + ATT
2. Spectrum setting:
 - a. Peak Setting 1 GHz – 40 GHz, RBW = 1 MHz, VBW = 3 MHz.
 - b. AV Setting 1 GHz – 40 GHz, RBW = 1 MHz, VBW = 10 Hz.
3. We have done 802.11a/n_20 MHz BW mode test. . Worst case of EUT is 6 Mbps in 802.11a.
4. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

| FCC PT.15.247 TEST REPORT | | FCC CERTIFICATION REPORT | | www.hct.co.kr |
|---------------------------------|---------------------------------|--|--|-----------------------|
| Test Report No. HCTR1207FR14 | Date of Issue: July 19, 2012 | EUT Type: CDMA/GSM/LTE Phone with BT/WLAN/NFC | | FCC ID: JYCPREMIAV |

Extended Battery Cover:

| | |
|---------------------|----------|
| Band : | UNII 1 |
| Operation Mode: | 802.11 a |
| Transfer Rate: | 6 Mbps |
| Operating Frequency | 5180 MHz |
| Channel No. | 36 Ch |

| Frequency [MHz] | Reading dBuV | AN.+CL+AMP+ATT. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Detect |
|--------------------|-----------------|-------------------------|-------------------|-------------------|-------------------|----------------|--------|
| 5150 | 58.84 | 4.18 | H | 63.02 | 74.0 | 10.98 | PK |
| 5150 | 42.20 | 4.18 | H | 46.38 | 54.0 | 7.62 | AV |
| 5150 | 61.35 | 4.18 | V | 65.53 | 74.0 | 8.47 | PK |
| 5150 | 43.68 | 4.18 | V | 47.86 | 54.0 | 6.14 | AV |

| | |
|---------------------|----------|
| Band : | UNII 2 |
| Operation Mode: | 802.11 a |
| Transfer Rate: | 6 Mbps |
| Operating Frequency | 5320 MHz |
| Channel No. | 64 Ch |

| Frequency [MHz] | Reading dBuV | AN.+CL+AMP+ATT. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Detect |
|--------------------|-----------------|-------------------------|-------------------|-------------------|-------------------|----------------|--------|
| 5350 | 61.40 | 4.8 | H | 66.20 | 74.0 | 7.80 | PK |
| 5350 | 41.27 | 4.8 | H | 46.07 | 54.0 | 7.93 | AV |
| 5350 | 62.04 | 4.8 | V | 66.84 | 74.0 | 7.16 | PK |
| 5350 | 42.26 | 4.8 | V | 47.06 | 54.0 | 6.94 | AV |

| | | | | |
|---------------------------------|---------------------------------|--|--|--|
| FCC PT.15.247 TEST REPORT | FCC CERTIFICATION REPORT | | | www.hct.co.kr |
| Test Report No. HCTR1207FR14 | Date of Issue: July 19, 2012 | EUT Type: CDMA/GSM/LTE Phone with BT/WLAN/NFC | | FCC ID: JYCPREMIAV |



| | |
|---------------------|----------|
| Band : | UNII 3 |
| Operation Mode: | 802.11 a |
| Transfer Rate: | 6 Mbps |
| Operating Frequency | 5500 MHz |
| Channel No. | 100 Ch |

| Frequency [MHz] | Reading dBuV | AN.+CL+AMP+ATT. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Detect |
|--------------------|-----------------|-------------------------|-------------------|-------------------|-------------------|----------------|--------|
| 5460 | 60.6 | 5.04 | H | 65.64 | 68.2 | 2.56 | PK |
| 5460 | 41.16 | 5.04 | H | 46.20 | 54.0 | 7.80 | AV |
| 5460 | 60.30 | 5.04 | V | 65.34 | 68.2 | 2.86 | PK |
| 5460 | 42.13 | 5.04 | V | 47.17 | 54.0 | 6.83 | AV |

Notes:

1. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + ATT
2. Spectrum setting:
 - a. Peak Setting 1 GHz – 40 GHz, RBW = 1 MHz, VBW = 3 MHz.
 - b. AV Setting 1 GHz – 40 GHz, RBW = 1 MHz, VBW = 10 Hz.
3. We have done 802.11a/n_20 MHz BW mode test. . Worst case of EUT is 6 Mbps in 802.11a.
4. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

| FCC PT.15.247 TEST REPORT | | FCC CERTIFICATION REPORT | | | www.hct.co.kr |
|---------------------------------|---------------------------------|--|--|--|-----------------------|
| Test Report No. HCTR1207FR14 | Date of Issue: July 19, 2012 | EUT Type: CDMA/GSM/LTE Phone with BT/WLAN/NFC | | | FCC ID: JYCPREMIAV |

**Wireless Battery Cover:**

| | |
|---------------------|----------|
| Band : | UNII 1 |
| Operation Mode: | 802.11 a |
| Transfer Rate: | 6 Mbps |
| Operating Frequency | 5180 MHz |
| Channel No. | 36 Ch |

| Frequency [MHz] | Reading dBuV | AN.+CL+AMP+ATT. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Detect |
|--------------------|-----------------|-------------------------|-------------------|-------------------|-------------------|----------------|--------|
| 5150 | 61.61 | 4.18 | H | 65.79 | 74.0 | 8.21 | PK |
| 5150 | 42.81 | 4.18 | H | 46.99 | 54.0 | 7.01 | AV |
| 5150 | 61.61 | 4.18 | V | 65.79 | 74.0 | 8.21 | PK |
| 5150 | 44.39 | 4.18 | V | 48.57 | 54.0 | 5.43 | AV |

| | |
|---------------------|----------|
| Band : | UNII 2 |
| Operation Mode: | 802.11 a |
| Transfer Rate: | 6 Mbps |
| Operating Frequency | 5320 MHz |
| Channel No. | 64 Ch |

| Frequency [MHz] | Reading dBuV | AN.+CL+AMP+ATT. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Detect |
|--------------------|-----------------|-------------------------|-------------------|-------------------|-------------------|----------------|--------|
| 5350 | 60.94 | 4.8 | H | 65.74 | 74.0 | 8.26 | PK |
| 5350 | 41.54 | 4.8 | H | 46.34 | 54.0 | 7.66 | AV |
| 5350 | 61.54 | 4.8 | V | 66.34 | 74.0 | 7.66 | PK |
| 5350 | 42.42 | 4.8 | V | 47.22 | 54.0 | 6.78 | AV |

| | | | | |
|---------------------------------|---------------------------------|--|--|--|
| FCC PT.15.247 TEST REPORT | FCC CERTIFICATION REPORT | | | www.hct.co.kr |
| Test Report No. HCTR1207FR14 | Date of Issue: July 19, 2012 | EUT Type: CDMA/GSM/LTE Phone with BT/WLAN/NFC | | FCC ID: JYCPREMIAV |



| | |
|---------------------|----------|
| Band : | UNII 3 |
| Operation Mode: | 802.11 a |
| Transfer Rate: | 6 Mbps |
| Operating Frequency | 5500 MHz |
| Channel No. | 100 Ch |

| Frequency [MHz] | Reading dBuV | AN.+CL+AMP+ATT. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Detect |
|--------------------|-----------------|-------------------------|-------------------|-------------------|-------------------|----------------|--------|
| 5460 | 57.6 | 5.04 | H | 62.64 | 68.2 | 5.56 | PK |
| 5460 | 39.58 | 5.04 | H | 44.62 | 54.0 | 9.38 | AV |
| 5460 | 59.96 | 5.04 | V | 65.00 | 68.2 | 3.20 | PK |
| 5460 | 40.82 | 5.04 | V | 45.86 | 54.0 | 8.14 | AV |

Notes:

1. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + ATT
2. Spectrum setting:
 - a. Peak Setting 1 GHz – 40 GHz, RBW = 1 MHz, VBW = 3 MHz.
 - b. AV Setting 1 GHz – 40 GHz, RBW = 1 MHz, VBW = 10 Hz.
3. We have done 802.11a/n_20 MHz BW mode test. . Worst case of EUT is 6 Mbps in 802.11a.
4. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

| FCC PT.15.247 TEST REPORT | | FCC CERTIFICATION REPORT | | | www.hct.co.kr |
|---------------------------------|---------------------------------|--|--|--|-----------------------|
| Test Report No. HCTR1207FR14 | Date of Issue: July 19, 2012 | EUT Type: CDMA/GSM/LTE Phone with BT/WLAN/NFC | | | FCC ID: JYCPREMIAV |

Normal Battery Cover:

| | |
|---------------------|-------------------|
| Band : | UNII 1 |
| Operation Mode: | 802.11n_40 MHz BW |
| Transfer Rate: | 13.5 Mbps |
| Operating Frequency | 5190 MHz |
| Channel No. | 38 Ch |

| Frequency [MHz] | Reading dBuV | AN.+CL+AMP+ATT. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Detect |
|--------------------|-----------------|-------------------------|-------------------|-------------------|-------------------|----------------|--------|
| 5150 | 63.91 | 4.18 | H | 68.09 | 74.0 | 5.91 | PK |
| 5150 | 42.35 | 4.18 | H | 46.53 | 54.0 | 7.47 | AV |
| 5150 | 67.58 | 4.18 | V | 71.76 | 74.0 | 2.24 | PK |
| 5150 | 44.56 | 4.18 | V | 48.74 | 54.0 | 5.26 | AV |

| | |
|---------------------|-------------------|
| Band : | UNII 2 |
| Operation Mode: | 802.11n_40 MHz BW |
| Transfer Rate: | 13.5 Mbps |
| Operating Frequency | 5310 MHz |
| Channel No. | 62 Ch |

| Frequency [MHz] | Reading dBuV | AN.+CL+AMP+ATT. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Detect |
|--------------------|-----------------|-------------------------|-------------------|-------------------|-------------------|----------------|--------|
| 5350 | 63.43 | 4.8 | H | 68.23 | 74.0 | 5.77 | PK |
| 5350 | 40.54 | 4.8 | H | 45.34 | 54.0 | 8.66 | AV |
| 5350 | 66.78 | 4.8 | V | 71.58 | 74.0 | 2.42 | PK |
| 5350 | 42.49 | 4.8 | V | 47.29 | 54.0 | 6.71 | AV |

| FCC PT.15.247 TEST REPORT | | FCC CERTIFICATION REPORT | | | www.hct.co.kr |
|---------------------------------|---------------------------------|--|--|--|-----------------------|
| Test Report No. HCTR1207FR14 | Date of Issue: July 19, 2012 | EUT Type: CDMA/GSM/LTE Phone with BT/WLAN/NFC | | | FCC ID: JYCPREMIAV |



| | |
|---------------------|-------------------|
| Band : | UNII 3 |
| Operation Mode: | 802.11n_40 MHz BW |
| Transfer Rate: | 13.5 Mbps |
| Operating Frequency | 5510 MHz |
| Channel No. | 102 Ch |

| Frequency [MHz] | Reading dBuV | AN.+CL+AMP+ATT. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Detect |
|--------------------|-----------------|-------------------------|-------------------|-------------------|-------------------|----------------|--------|
| 5460 | 56.55 | 5.04 | H | 61.59 | 74.0 | 12.41 | PK |
| 5460 | 39.50 | 5.04 | H | 44.54 | 54.0 | 9.46 | AV |
| 5460 | 59.46 | 5.04 | V | 64.50 | 74.0 | 9.50 | PK |
| 5460 | 40.83 | 5.04 | V | 45.87 | 54.0 | 8.13 | AV |

Notes:

1. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + ATT
2. Spectrum setting:
 - a. Peak Setting 1 GHz – 40 GHz, RBW = 1 MHz, VBW = 3 MHz.
 - b. AV Setting 1 GHz – 40 GHz, RBW = 1 MHz, VBW = 10 Hz.
3. We have done 802.11n_40 MHz BW mode test. . Worst case of EUT is 13.5 Mbps in 802.11n_40 MHz BW.
4. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

| FCC PT.15.247 TEST REPORT | | FCC CERTIFICATION REPORT | | | www.hct.co.kr |
|---------------------------------|---------------------------------|--|--|--|-----------------------|
| Test Report No. HCTR1207FR14 | Date of Issue: July 19, 2012 | EUT Type: CDMA/GSM/LTE Phone with BT/WLAN/NFC | | | FCC ID: JYCPREMIAV |



Extended Battery Cover:

| | |
|---------------------|-------------------|
| Band : | UNII 1 |
| Operation Mode: | 802.11n_40 MHz BW |
| Transfer Rate: | 13.5 Mbps |
| Operating Frequency | 5190 MHz |
| Channel No. | 38 Ch |

| Frequency [MHz] | Reading dBuV | AN.+CL+AMP+ATT. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Detect |
|--------------------|-----------------|-------------------------|-------------------|-------------------|-------------------|----------------|--------|
| 5150 | 65.17 | 4.18 | H | 69.35 | 74.0 | 4.65 | PK |
| 5150 | 43.38 | 4.18 | H | 47.56 | 54.0 | 6.44 | AV |
| 5150 | 67.20 | 4.18 | V | 71.38 | 74.0 | 2.62 | PK |
| 5150 | 44.77 | 4.18 | V | 48.95 | 54.0 | 5.05 | AV |

| | |
|---------------------|-------------------|
| Band : | UNII 2 |
| Operation Mode: | 802.11n_40 MHz BW |
| Transfer Rate: | 13.5 Mbps |
| Operating Frequency | 5310 MHz |
| Channel No. | 62 Ch |

| Frequency [MHz] | Reading dBuV | AN.+CL+AMP+ATT. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Detect |
|--------------------|-----------------|-------------------------|-------------------|-------------------|-------------------|----------------|--------|
| 5350 | 62.42 | 4.8 | H | 67.22 | 74.0 | 6.78 | PK |
| 5350 | 40.78 | 4.8 | H | 45.58 | 54.0 | 8.42 | AV |
| 5350 | 64.90 | 4.8 | V | 69.70 | 74.0 | 4.30 | PK |
| 5350 | 41.63 | 4.8 | V | 46.43 | 54.0 | 7.57 | AV |

| | | | | |
|---------------------------------|---------------------------------|--|--|-----------------------|
| FCC PT.15.247 TEST REPORT | FCC CERTIFICATION REPORT | | | www.hct.co.kr |
| Test Report No. HCTR1207FR14 | Date of Issue: July 19, 2012 | EUT Type: CDMA/GSM/LTE Phone with BT/WLAN/NFC | | FCC ID: JYCPREMIAV |



| | |
|---------------------|-------------------|
| Band : | UNII 3 |
| Operation Mode: | 802.11n_40 MHz BW |
| Transfer Rate: | 13.5 Mbps |
| Operating Frequency | 5510 MHz |
| Channel No. | 102 Ch |

| Frequency [MHz] | Reading dBuV | AN.+CL+AMP+ATT. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Detect |
|--------------------|-----------------|-------------------------|-------------------|-------------------|-------------------|----------------|--------|
| 5460 | 56.75 | 5.04 | H | 61.79 | 74.0 | 12.21 | PK |
| 5460 | 39.52 | 5.04 | H | 44.56 | 54.0 | 9.44 | AV |
| 5460 | 58.29 | 5.04 | V | 63.33 | 74.0 | 10.67 | PK |
| 5460 | 40.74 | 5.04 | V | 45.78 | 54.0 | 8.22 | AV |

Notes:

1. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + ATT
2. Spectrum setting:
 - a. Peak Setting 1 GHz – 40 GHz, RBW = 1 MHz, VBW = 3 MHz.
 - b. AV Setting 1 GHz – 40 GHz, RBW = 1 MHz, VBW = 10 Hz.
3. We have done 802.11n_40 MHz BW mode test. . Worst case of EUT is 13.5 Mbps in 802.11n_40 MHz BW.
4. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

| FCC PT.15.247 TEST REPORT | | FCC CERTIFICATION REPORT | | | www.hct.co.kr |
|---------------------------------|---------------------------------|--|--|--|-----------------------|
| Test Report No. HCTR1207FR14 | Date of Issue: July 19, 2012 | EUT Type: CDMA/GSM/LTE Phone with BT/WLAN/NFC | | | FCC ID: JYCPREMIAV |

**Wireless Battery Cover:**

| | |
|---------------------|-------------------|
| Band : | UNII 1 |
| Operation Mode: | 802.11n_40 MHz BW |
| Transfer Rate: | 13.5 Mbps |
| Operating Frequency | 5190 MHz |
| Channel No. | 38 Ch |

| Frequency [MHz] | Reading dBuV | AN.+CL+AMP+ATT. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Detect |
|--------------------|-----------------|-------------------------|-------------------|-------------------|-------------------|----------------|--------|
| 5150 | 64.13 | 4.18 | H | 68.31 | 74.0 | 5.69 | PK |
| 5150 | 42.85 | 4.18 | H | 47.03 | 54.0 | 6.97 | AV |
| 5150 | 64.79 | 4.18 | V | 68.97 | 74.0 | 5.03 | PK |
| 5150 | 43.99 | 4.18 | V | 48.17 | 54.0 | 5.83 | AV |

| | |
|---------------------|-------------------|
| Band : | UNII 2 |
| Operation Mode: | 802.11n_40 MHz BW |
| Transfer Rate: | 13.5 Mbps |
| Operating Frequency | 5310 MHz |
| Channel No. | 62 Ch |

| Frequency [MHz] | Reading dBuV | AN.+CL+AMP+ATT. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Detect |
|--------------------|-----------------|-------------------------|-------------------|-------------------|-------------------|----------------|--------|
| 5350 | 62.04 | 4.8 | H | 66.84 | 74.0 | 7.16 | PK |
| 5350 | 39.97 | 4.8 | H | 44.77 | 54.0 | 9.23 | AV |
| 5350 | 62.97 | 4.8 | V | 67.77 | 74.0 | 6.23 | PK |
| 5350 | 40.81 | 4.8 | V | 45.61 | 54.0 | 8.39 | AV |

| | | | | |
|---------------------------------|---------------------------------|--|--|--|
| FCC PT.15.247 TEST REPORT | FCC CERTIFICATION REPORT | | | www.hct.co.kr |
| Test Report No. HCTR1207FR14 | Date of Issue: July 19, 2012 | EUT Type: CDMA/GSM/LTE Phone with BT/WLAN/NFC | | FCC ID: JYCPREMIAV |



| | |
|---------------------|-------------------|
| Band : | UNII 3 |
| Operation Mode: | 802.11n_40 MHz BW |
| Transfer Rate: | 13.5 Mbps |
| Operating Frequency | 5510 MHz |
| Channel No. | 102 Ch |

| Frequency [MHz] | Reading dBuV | AN.+CL+AMP+ATT. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Detect |
|--------------------|-----------------|-------------------------|-------------------|-------------------|-------------------|----------------|--------|
| 5460 | 55.11 | 5.04 | H | 60.15 | 74.0 | 13.85 | PK |
| 5460 | 39.38 | 5.04 | H | 44.42 | 54.0 | 9.58 | AV |
| 5460 | 56.54 | 5.04 | V | 61.58 | 74.0 | 12.42 | PK |
| 5460 | 39.07 | 5.04 | V | 44.11 | 54.0 | 9.89 | AV |

Notes:

1. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + ATT
2. Spectrum setting:
 - a. Peak Setting 1 GHz – 40 GHz, RBW = 1 MHz, VBW = 3 MHz.
 - b. AV Setting 1 GHz – 40 GHz, RBW = 1 MHz, VBW = 10 Hz.
3. We have done 802.11n_40 MHz BW mode test. . Worst case of EUT is 13.5 Mbps in 802.11n_40 MHz BW.
4. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

| FCC PT.15.247 TEST REPORT | | FCC CERTIFICATION REPORT | | | www.hct.co.kr |
|---------------------------------|---------------------------------|--|--|--|-----------------------|
| Test Report No. HCTR1207FR14 | Date of Issue: July 19, 2012 | EUT Type: CDMA/GSM/LTE Phone with BT/WLAN/NFC | | | FCC ID: JYCPREMIAV |

8.7 POWERLINE CONDUCTED EMISSIONS

Test Requirements and limit, §15.207

For an intentional radiator which is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed 250 microvolts (The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz). The limits at specific frequency range is listed as follows:

| Frequency Range (MHz) | Limits (dB μ V) | |
|-----------------------|---------------------|----------|
| | Quasi-peak | Average |
| 0.15 to 0.50 | 66 to 56 | 56 to 46 |
| 0.50 to 5 | 56 | 46 |
| 5 to 30 | 60 | 50 |

Compliance with this provision shall be based on the measurement of the radio frequency voltage between each power line (LINE and NEUTRAL) and ground at the power terminals.

Test Configuration

See test photographs attached in Appendix 1 for the actual connections between EUT and support equipment.

TEST PROCEDURE

1. The EUT is placed on a wooden table 80 cm above the reference groundplane.
2. The EUT is connected via LISN to a test power supply.
3. The measurement results are obtained as described below:
4. Detectors – Quasi Peak and Average Detector.
5. We are performed the AC Power Line Conducted Emission test for 6 Mbps, Ch.120 and 802.11a mode in UNII 3. Because 802.11a mode in UNII 3 is worst case.

| FCC PT.15.247 TEST REPORT | | FCC CERTIFICATION REPORT | | www.hct.co.kr |
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| Test Report No. HCTR1207FR14 | Date of Issue: July 19, 2012 | EUT Type: CDMA/GSM/LTE Phone with BT/WLAN/NFC | | FCC ID: JYCPREMIAV |

□ RESULT PLOTS

Conducted Emissions (Line 1)

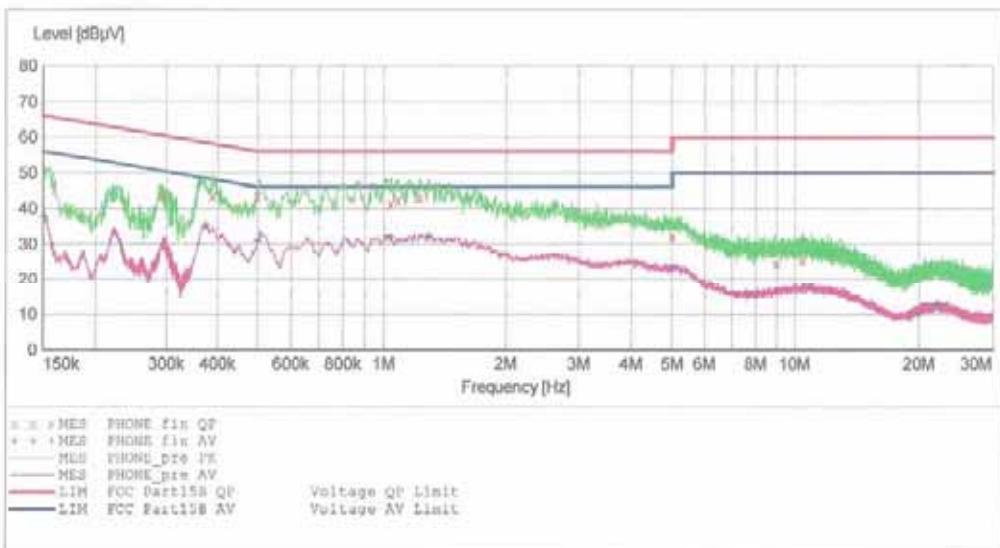
HCT

EMC

EUT: ADR930LVW
 Manufacturer: PANTECH
 Operating Condition: WLAN MODE(5 GHz)
 Test Site: SHIELD ROOM
 Operator: JS LEE
 Test Specification: FCC PART 15 B
 Comment: H

SCAN TABLE: "FCC PART 15 B(H)"

| Short Description: | | | FCC PART 15 CLASS B | | | |
|--------------------|----------------|------------|---------------------|------------|-----------|------------|
| Start Frequency | Stop Frequency | Step Width | Detector | Meas. Time | IF Bandw. | Transducer |
| 150.0 kHz | 500.0 kHz | 1.0 kHz | MaxPeak | 10.0 ms | 9 kHz | None |
| | | | Average | | | |
| 500.0 kHz | 5.0 MHz | 4.0 kHz | MaxPeak | 10.0 ms | 9 kHz | None |
| | | | Average | | | |
| 5.0 MHz | 30.0 MHz | 4.0 kHz | MaxPeak | 10.0 ms | 9 kHz | None |
| | | | Average | | | |



MEASUREMENT RESULT: "PHONE_fin_QP"

| 7/18/2012 10:25AM | Frequency | Level | Transd | Limit | Margin | Line | PE |
|-------------------|-----------|------------|--------|------------|--------|------|-----|
| | MHz | dB μ V | dB | dB μ V | dB | | |
| | 0.293010 | 43.60 | 9.8 | 60 | 16.9 | --- | --- |
| | 0.300010 | 43.60 | 9.0 | 50 | 14.5 | --- | --- |
| | 0.500000 | 43.70 | 9.8 | 56 | 12.3 | --- | --- |
| | 1.044000 | 41.30 | 9.8 | 56 | 14.7 | --- | --- |
| | 1.084000 | 42.60 | 9.8 | 56 | 13.4 | --- | --- |
| | 1.228000 | 43.10 | 9.8 | 56 | 12.9 | --- | --- |
| | 5.000000 | 32.20 | 10.2 | 56 | 23.8 | --- | --- |
| | 9.000000 | 24.60 | 10.4 | 60 | 35.4 | --- | --- |
| | 10.452000 | 25.60 | 10.5 | 60 | 34.4 | --- | --- |

| FCC PT.15.247 TEST REPORT | | FCC CERTIFICATION REPORT | | | www.hct.co.kr |
|---------------------------|----------------|-------------------------------------|--|--|---------------|
| Test Report No. | Date of Issue: | EUT Type: | | | FCC ID: |
| HCTR1207FR14 | July 19, 2012 | CDMA/GSM/LTE Phone with BT/WLAN/NFC | | | JYCPREMIAV |

MEASUREMENT RESULT: "PHONE_fin AV"

7/18/2012 10:25AM

| Frequency MHz | Level dB μ V | Transd d8 | Limit dB μ V | Margin d8 | Line | PE |
|------------------|---------------------|--------------|---------------------|--------------|------|-----|
| 0.151010 | 37.90 | 9.8 | 56 | 18.0 | --- | --- |
| 0.373010 | 35.10 | 9.8 | 48 | 13.3 | --- | --- |
| 0.500000 | 30.90 | 9.8 | 46 | 15.1 | --- | --- |
| 0.508000 | 32.80 | 9.8 | 46 | 13.2 | --- | --- |
| 1.044000 | 31.80 | 9.8 | 46 | 14.2 | --- | --- |
| 1.288000 | 32.10 | 9.8 | 46 | 13.9 | --- | --- |
| 5.000000 | 23.30 | 10.2 | 46 | 22.7 | --- | --- |
| 10.976000 | 17.50 | 10.6 | 50 | 32.5 | --- | --- |
| 22.032000 | 12.40 | 11.9 | 50 | 37.6 | --- | --- |

| FCC CERTIFICATION REPORT | | | |
|---|--|---|--|
| FCC PT.15.247 TEST REPORT Test Report No. HCTR1207FR14 | Date of Issue: July 19, 2012 | EUT Type: CDMA/GSM/LTE Phone with BT/WLAN/NFC | FCC ID: JYCPREMIAV www.hct.co.kr |

Conducted Emissions (Line 2)

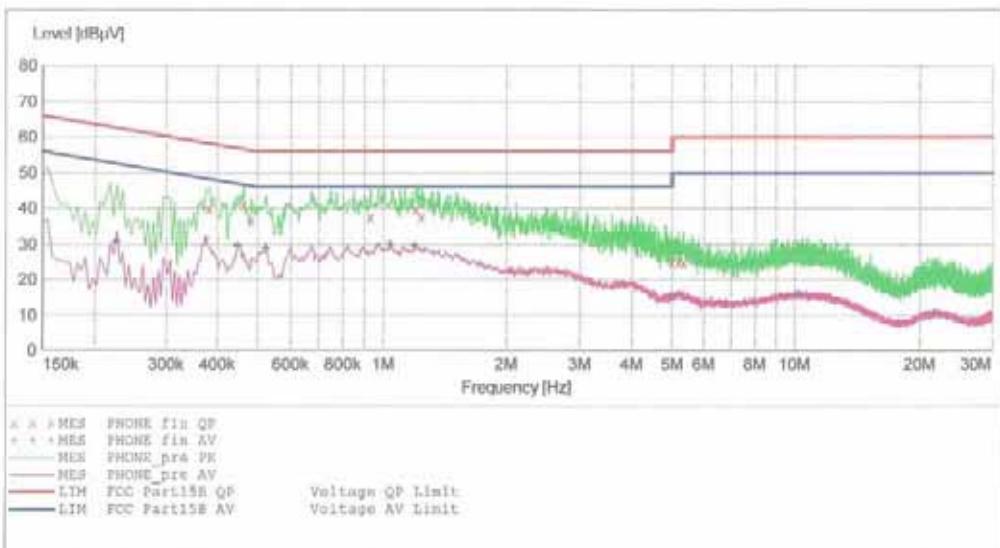
HCT

EMC

EUT: ADR930LVW
Manufacturer: PANTECH
Operating Condition: WLAN MODE(5 GHz)
Test Site: SHIELD ROOM
Operator: JS LEE
Test Specification: FCC PART 15 CLASS B
Comment: N

SCAN TABLE: "FCC PART 15 B(N)"

| Short Description: | | FCC PART 15 CLASS B | | | | |
|--------------------|-----------|---------------------|----------|---------|-------|------------|
| Start | Stop | Step | Detector | Meas. | IF | Transducer |
| 150.0 kHz | 500.0 kHz | 4.0 kHz | MaxPeak | 10.0 ms | 9 kHz | None |
| | | | Average | | | |
| 500.0 kHz | 5.0 MHz | 4.0 kHz | MaxPeak | 10.0 ms | 9 kHz | None |
| | | | Average | | | |
| 5.0 MHz | 30.0 MHz | 4.0 kHz | MaxPeak | 10.0 ms | 9 kHz | None |
| | | | Average | | | |



MEASUREMENT RESULT: "PHONE_fin_QP"

| 7/18/2012 10:19AM | Frequency | Level | Transd | Limit | Margin | Line | PE |
|-------------------|-----------|------------|--------|------------|--------|------|------|
| | MHz | dB μ V | dB | dB μ V | dB | | |
| | 0.382010 | 39.90 | 10.0 | 58 | 18.4 | ---- | ---- |
| | 0.462010 | 41.00 | 10.0 | 57 | 15.7 | ---- | ---- |
| | 0.482010 | 36.60 | 10.0 | 56 | 19.7 | ---- | ---- |
| | 0.932000 | 37.60 | 10.0 | 56 | 18.4 | ---- | ---- |
| | 1.204000 | 39.70 | 10.0 | 56 | 16.3 | ---- | ---- |
| | 1.240000 | 37.60 | 10.0 | 56 | 18.4 | ---- | ---- |
| | 5.000000 | 25.00 | 10.4 | 56 | 31.0 | ---- | ---- |
| | 5.200000 | 25.20 | 10.4 | 60 | 34.8 | ---- | ---- |
| | 5.352000 | 24.90 | 10.4 | 60 | 35.1 | ---- | ---- |

| FCC PT.15.247 TEST REPORT | | FCC CERTIFICATION REPORT | | | www.hct.co.kr |
|---------------------------|----------------|-------------------------------------|--|--|---------------|
| Test Report No. | Date of Issue: | EUT Type: | | | FCC ID: |
| HCTR1207FR14 | July 19, 2012 | CDMA/GSM/LTE Phone with BT/WLAN/NFC | | | JYCPREMIAV |

MEASUREMENT RESULT: "PHONE_fin AV"

7/18/2012 10:19AM

| Frequency MHz | Level dB μ V | Transd dB | Limit dB μ V | Margin dB | Line dB | PE |
|------------------|---------------------|--------------|---------------------|--------------|------------|------|
| 0.226010 | 30.90 | 10.0 | 53 | 21.7 | ---- | ---- |
| 0.374010 | 31.50 | 10.0 | 48 | 16.9 | ---- | ---- |
| 0.446010 | 29.60 | 10.0 | 47 | 17.4 | ---- | ---- |
| 0.524000 | 29.00 | 10.0 | 46 | 17.0 | ---- | ---- |
| 1.044000 | 29.90 | 10.0 | 46 | 16.1 | ---- | ---- |
| 1.192000 | 29.60 | 10.0 | 46 | 16.4 | ---- | ---- |
| 5.000000 | 15.60 | 10.4 | 46 | 30.4 | ---- | ---- |
| 10.216000 | 16.00 | 10.7 | 50 | 34.0 | ---- | ---- |
| 21.600000 | 10.70 | 12.2 | 50 | 39.3 | ---- | ---- |

| FCC PT.15.247 TEST REPORT | | FCC CERTIFICATION REPORT | | www.hct.co.kr |
|---------------------------------|---------------------------------|--|--|-----------------------|
| Test Report No. HCTR1207FR14 | Date of Issue: July 19, 2012 | EUT Type: CDMA/GSM/LTE Phone with BT/WLAN/NFC | | FCC ID: JYCPREMIAV |

9. LIST OF TEST EQUIPMENT

| Manufacturer | Model / Equipment | Calibration Interval | Calibration Due | Serial No. |
|-----------------------|--|----------------------|-----------------|------------------------|
| Rohde & Schwarz | ENV216/ LISN | Annual | 02/09/2013 | 100073 |
| Schwarzbeck | VULB 9168/ TRILOG Antenna | Biennial | 02/09/2013 | 200 |
| Rohde & Schwarz | ESI 40 / EMI TEST RECEIVER | Annual | 05/03/2013 | 831564103 |
| Rohde & Schwarz | FSV 40 / Signal Analyzer | Annual | 06/11/2013 | 1307.9002k40-100931-NK |
| Agilent | E4440A/ Spectrum Analyzer | Annual | 05/02/2013 | US45303008 |
| Agilent | N9020A/ SIGNAL ANALYZER | Annual | 09/23/2012 | MY51110020 |
| HD | MA240/ Antenna Position Tower | N/A | N/A | 556 |
| EMCO | 1050/ Turn Table | N/A | N/A | 114 |
| HD GmbH | HD 100/ Controller | N/A | N/A | 13 |
| HD GmbH | KMS 560/ SlideBar | N/A | N/A | 12 |
| Rohde & Schwarz | SCU-18/ Signal Conditioning Unit | Annual | 09/19/2012 | 10094 |
| MITEQ | AMF-6B-180265-35-10P / POWER AMP | Annual | 04/16/2013 | 667624 |
| CERNEX | CBL26405040 / POWER AMP | Annual | 04/16/2013 | 19660 |
| Schwarzbeck | BBHA 9120D/ Horn Antenna | Biennial | 10/17/2013 | 937 |
| Schwarzbeck | BBHA9170 / Horn Antenna(15 GHz ~ 40 GHz) | Biennial | 10/26/2012 | BBHA9170342 |
| Rohde & Schwarz | FSP / Spectrum Analyzer | Annual | 02/09/2013 | 839117/011 |
| Agilent | E4416A /Power Meter | Annual | 11/07/2012 | GB41291412 |
| Agilent | E9327A /POWER SENSOR | Annual | 05/02/2013 | MY4442009 |
| Wainwright Instrument | WHF3.3/18G-10EF / High Pass Filter | Annual | 05/02/2013 | 1 |
| Wainwright Instrument | WHNX6.0/26.5G-6SS / High Pass Filter | Annual | 05/02/2013 | 1 |
| Wainwright Instrument | WHNX7.0/18G-8SS / High Pass Filter | Annual | 05/02/2013 | 29 |
| Wainwright Instrument | WRCJ2400/2483.5-2370/2520-60/14SS / Band Reject Filter | Annual | 05/02/2013 | 1 |
| Hewlett Packard | 11636B/Power Divider | Annual | 11/07/2012 | 11377 |
| Hewlett Packard | 11667B / Power Splitter | Annual | 06/05/2013 | 05001 |
| DIGITAL | EP-3010 /DC POWER SUPPLY | Annual | 11/07/2012 | 3110117 |
| ITECH | IT6720 / DC POWER SUPPLY | Annual | 11/07/2012 | 010002156287001199 |
| Rohde & Schwarz | CBT / BLUETOOTH TESTER | Annual | 05/02/2013 | 100422 |
| EMCO | 6502.LOOP ANTENNA | Biennial | 01/11/2014 | 9009-2536 |
| MITEQ | AMF-6D-001180-35-20P/ POWER AMP | Annual | 12/26/2012 | 990893 |
| Agilent | 8493C / Attenuator(10 dB) | Annual | 09/23/2012 | 76649 |
| WEINSCHEL | 2-3 / Attenuator(3 dB) | Annual | 11/07/2013 | BR0617 |

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|------------------------------|--|---|--|--------------------|
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