

Conducted Output Power (802.11n-CH 116) 58.5 Mbps



Conducted Output Power (802.11n-CH 116) 65 Mbps



FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCTR1308FR15	Date of Issue: August 06, 2013	EUT Type: 2.4G/5G Dual WIFI Tablet	FCC ID: ZNFV500	IC: 2703C-V500

40 MHz BW

RESULT PLOTS (5190 MHz ~5230 MHz)

Conducted Output Power (802.11n-CH 38) 13.5 Mbps



Conducted Output Power (802.11n-CH 38) 27 Mbps

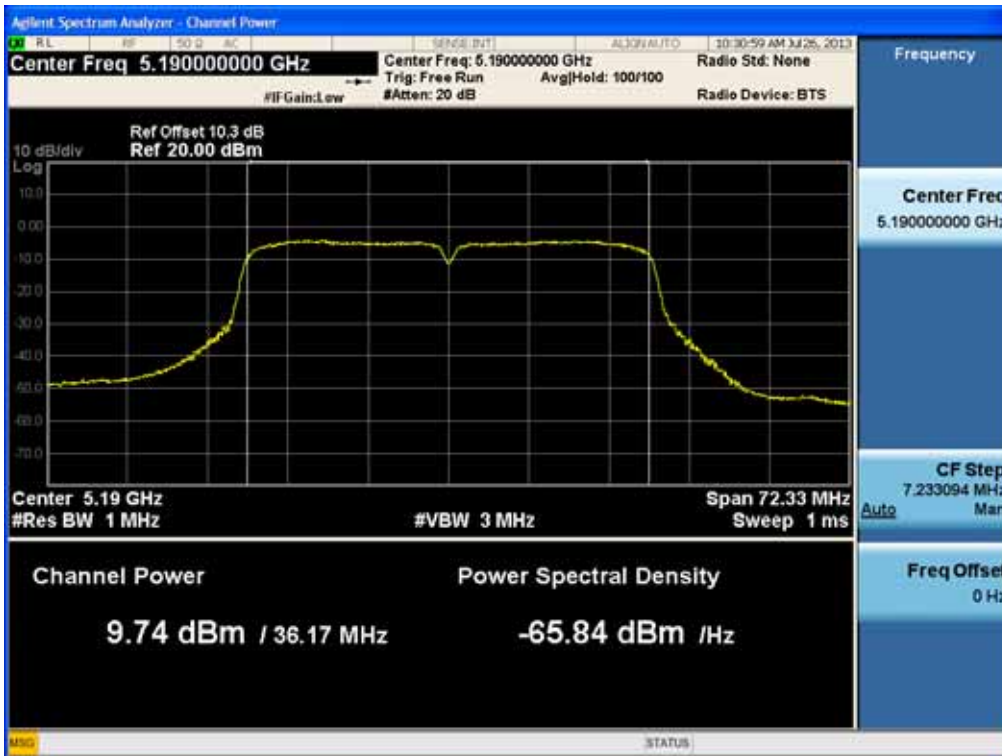


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Conducted Output Power (802.11n-CH 38) 40.5 Mbps

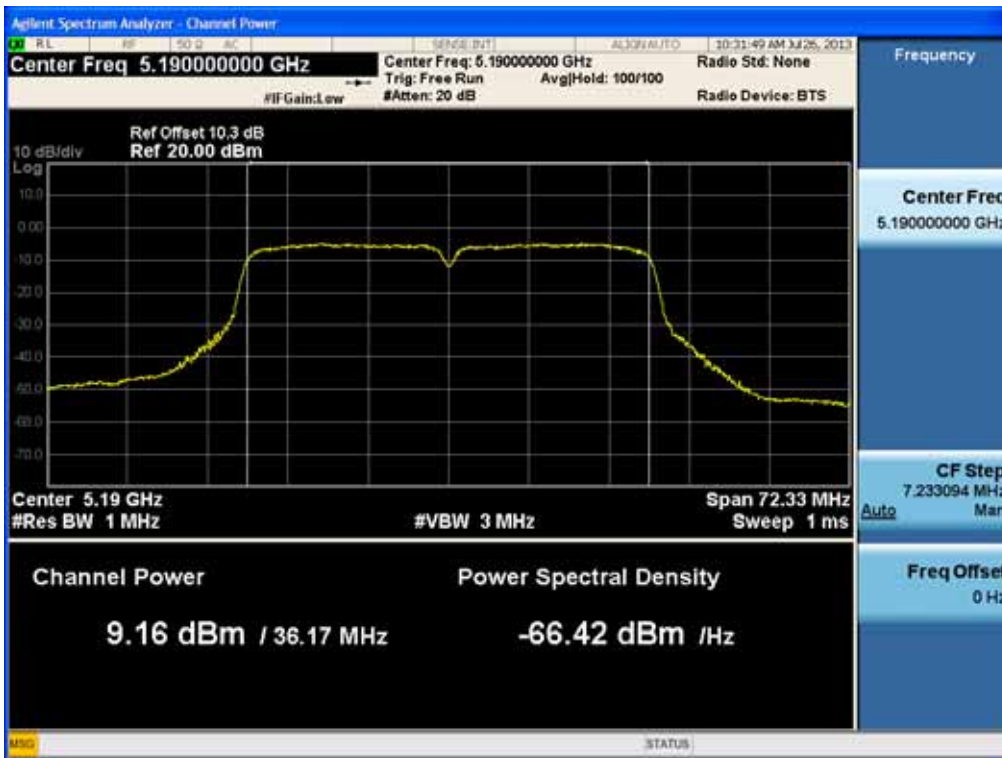


Conducted Output Power (802.11n-CH 38) 54 Mbps



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Test Report No. HCTR1308FR15	Date of Issue: August 06, 2013	EUT Type: 2.4G/5G Dual WIFI Tablet	FCC ID: ZNFV500	IC: 2703C-V500

Conducted Output Power (802.11n-CH 38) 81 Mbps

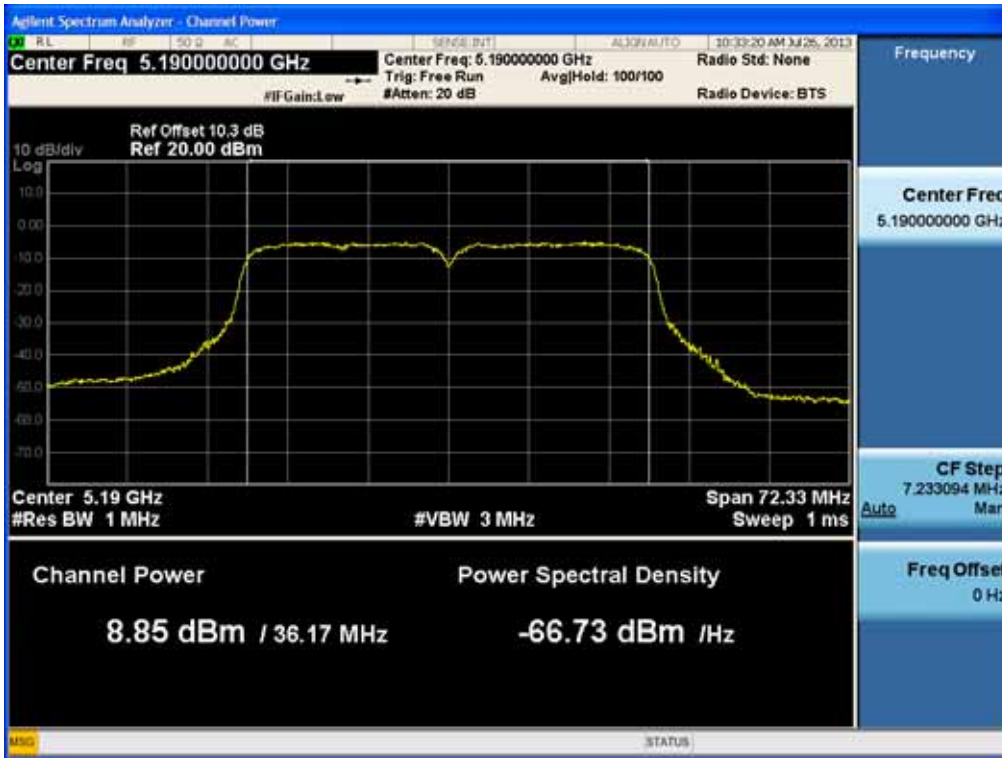


Conducted Output Power (802.11n-CH 38) 108 Mbps



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Conducted Output Power (802.11n-CH 38) 121.5 Mbps



Conducted Output Power (802.11n-CH 38) 135 Mbps



FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
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RESULT PLOTS (5270 MHz ~5310 MHz)

Conducted Output Power (802.11n-CH 54) 13.5 Mbps



Conducted Output Power (802.11n-CH 54) 27 Mbps

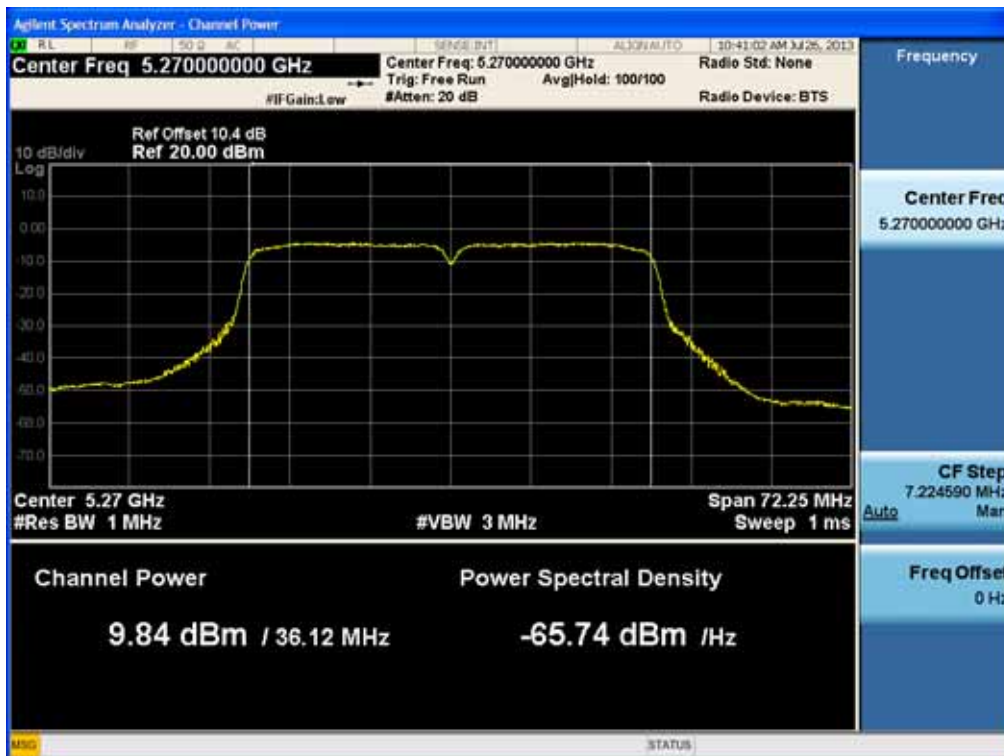


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Conducted Output Power (802.11n-CH 54) 40.5 Mbps

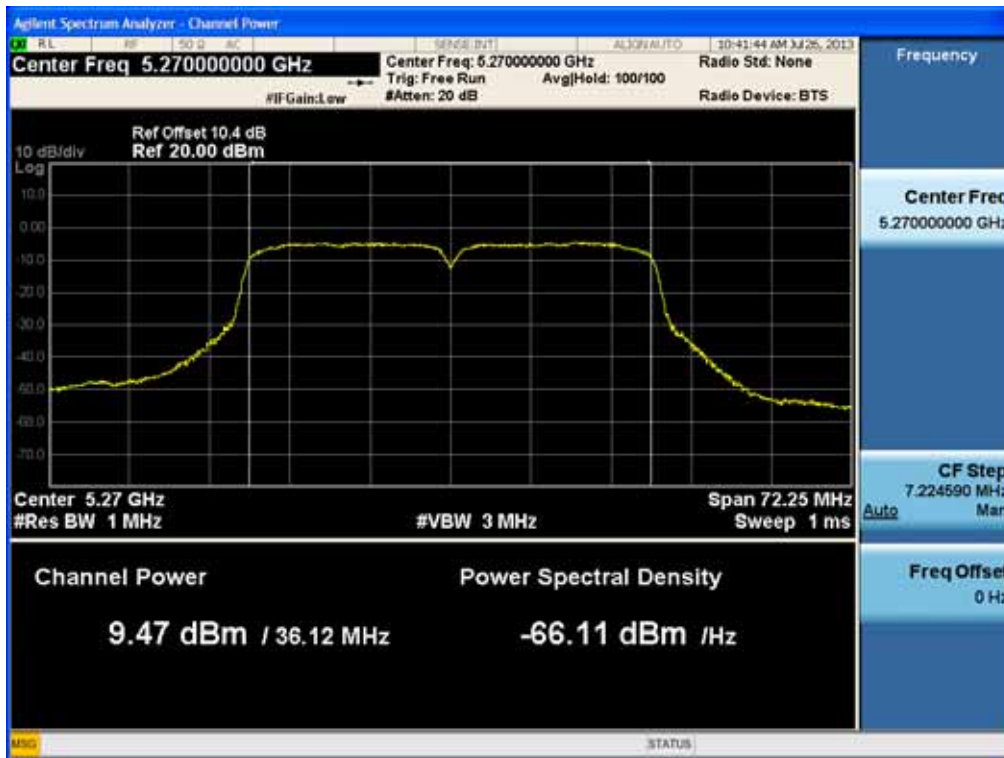


Conducted Output Power (802.11n-CH 54) 54 Mbps



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Conducted Output Power (802.11n-CH 54) 81 Mbps



Conducted Output Power (802.11n-CH 54) 108 Mbps



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Test Report No. HCTR1308FR15	Date of Issue: August 06, 2013	EUT Type:2.4G/5G Dual WIFI Tablet	FCC ID: ZNFV500	IC: 2703C-V500

Conducted Output Power (802.11n-CH 54) 121.5 Mbps



Conducted Output Power (802.11n-CH 54) 135 Mbps



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Test Report No. HCTR1308FR15	Date of Issue: August 06, 2013	EUT Type:2.4G/5G Dual WIFI Tablet	FCC ID: ZNFV500	IC: 2703C-V500

RESULT PLOTS (5510 MHz ~5670 MHz)

Conducted Output Power (802.11n-CH 110) 13.5 Mbps



Conducted Output Power (802.11n-CH 110) 27 Mbps

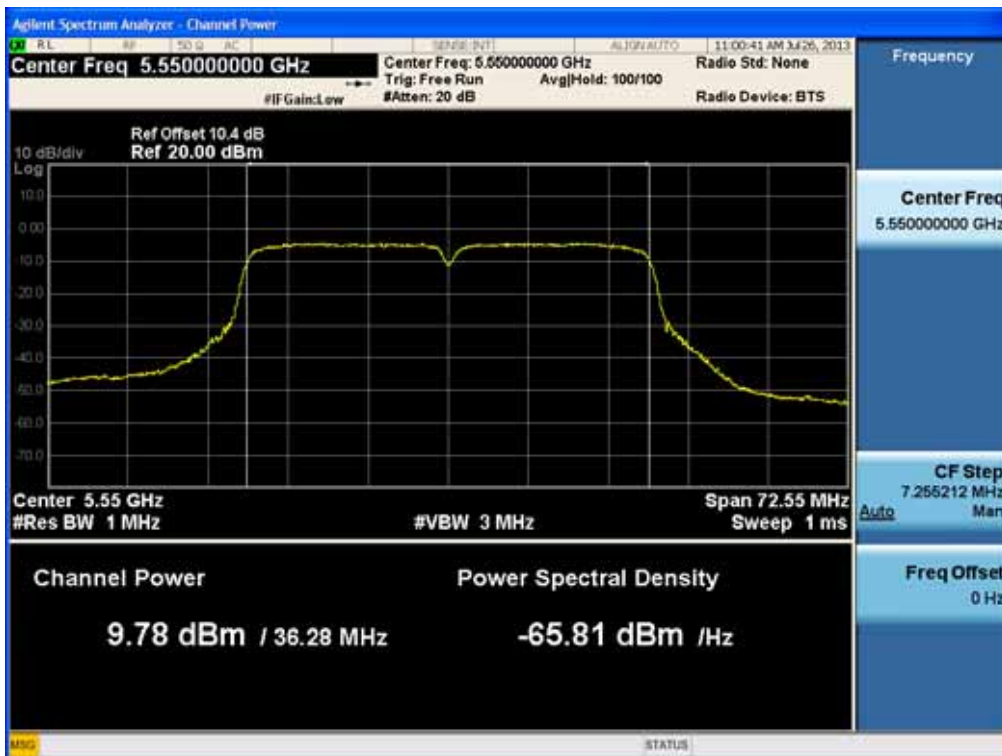


FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCTR1308FR15	Date of Issue: August 06, 2013	EUT Type:2.4G/5G Dual WIFI Tablet	FCC ID: ZNFV500	IC: 2703C-V500

Conducted Output Power (802.11n-CH 110) 40.5 Mbps



Conducted Output Power (802.11n-CH 110) 54 Mbps

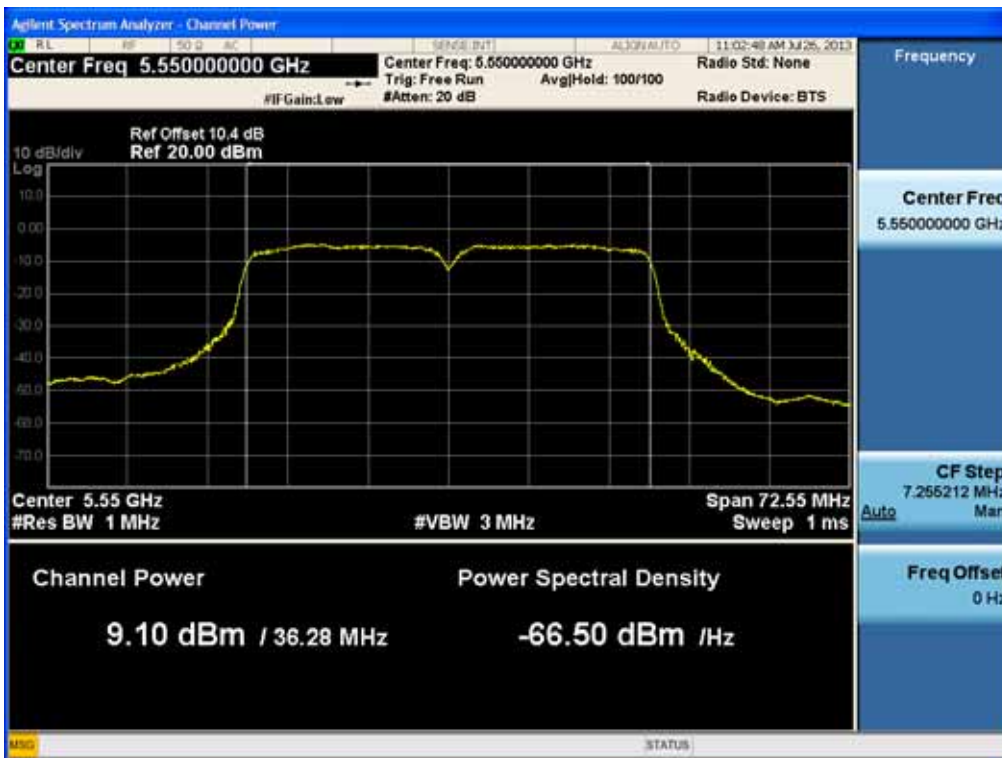


FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCTR1308FR15	Date of Issue: August 06, 2013	EUT Type:2.4G/5G Dual WIFI Tablet	FCC ID: ZNFV500	IC: 2703C-V500

Conducted Output Power (802.11n-CH 110) 81 Mbps

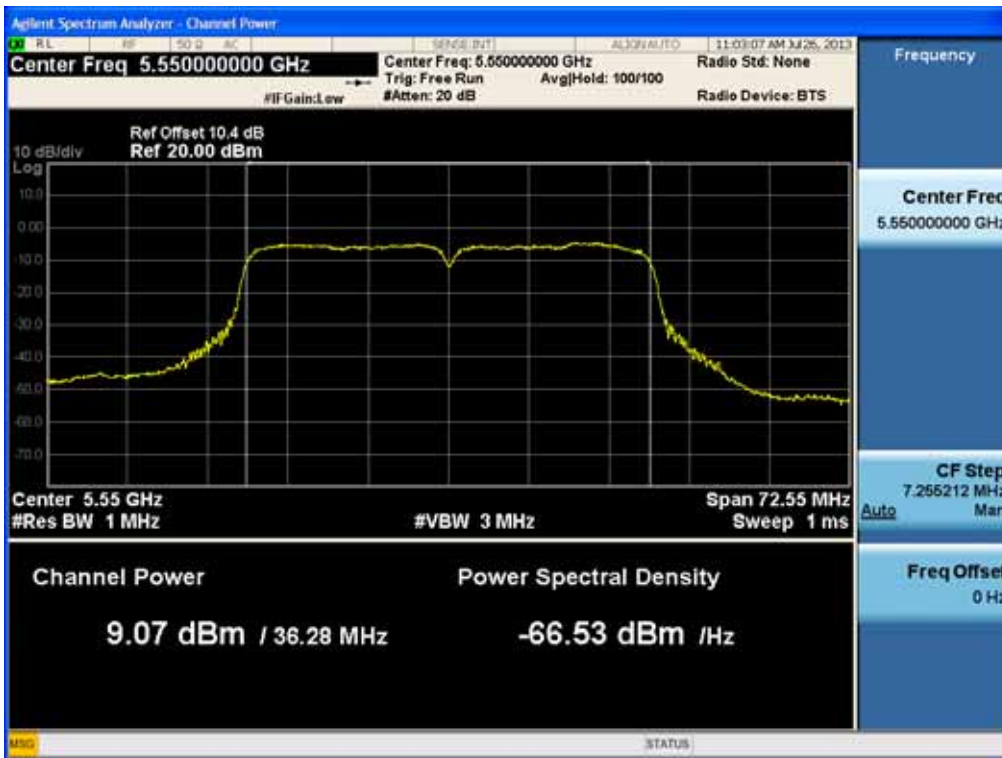


Conducted Output Power (802.11n-CH 110) 108 Mbps

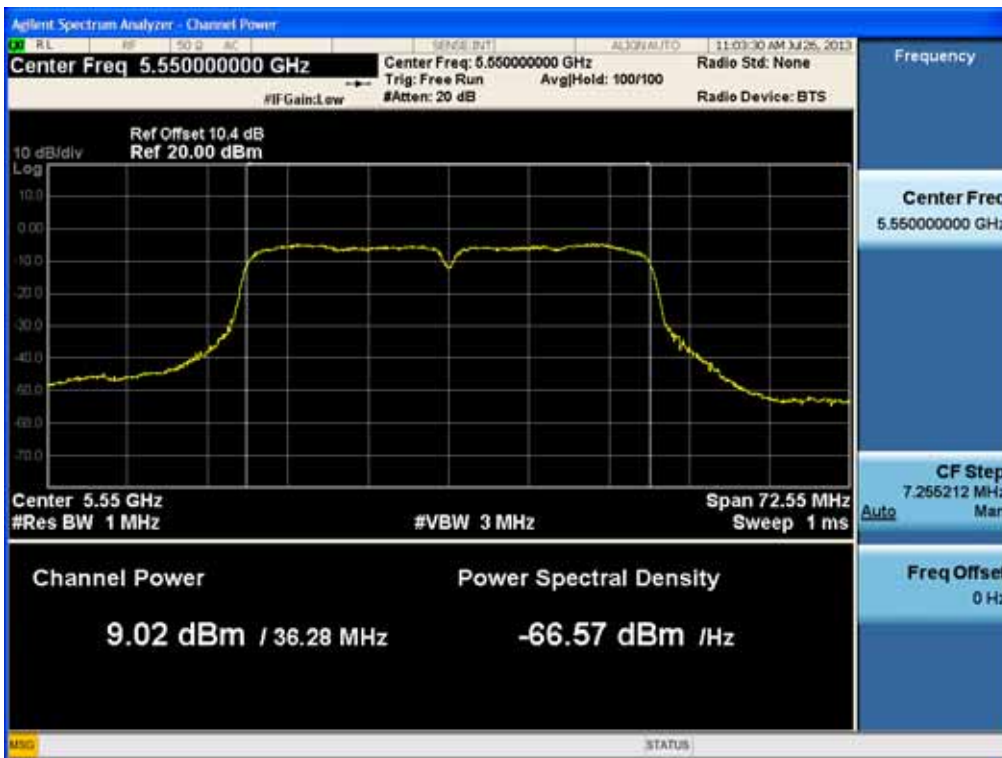


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Conducted Output Power (802.11n-CH 110) 121.5 Mbps



Conducted Output Power (802.11n-CH 110) 135 Mbps

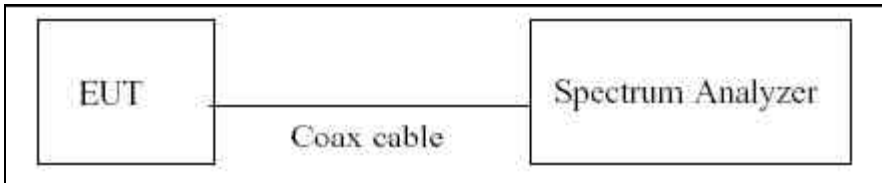


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8.4 POWER SPECTRAL DENSITY

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

We tested according to Method in KDB 789033(issued 04/08/2013).

The spectrum analyzer is set to :

1. Set span to encompass the entire emission bandwidth(EBW) of the signal.
2. RBW = 1 MHz.
3. VBW ≥ 3 MHz.
4. Number of points in sweep ≥ 2*span/RBW.
5. Sweep time = auto.
6. Detector = RMS(i.e., power averaging), if available. Otherwise, use sample detector mode.
7. Do not use sweep triggering. Allow the sweep to “free run”.
8. Trace average at least 100 traces in power averaging(RMS) mode
9. Use the peak search function on the spectrum analyzer to find the peak of the spectrum.
10. If Method SA-2 was used, add $10 \log(1/x)$, where x is the duty cycle, to the peak of the spectrum.

Sample Calculation

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

Output Power = -5 dBm + 10 dB + 0.8 dB + 0.21 dB = 16.01 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 5.2 GHz, 5.3 GHz and 5.6 GHz range that was rounded off to the closest tenth dB. Actual value of loss for the attenuator and cable combination is below table.

FCC PT.15.247 TEST REPORT		FCC & IC CERTIFICATION REPORT		www.hct.co.kr	
Test Report No. HCTR1308FR15	Date of Issue: August 06, 2013	EUT Type:2.4G/5G Dual WIFI Tablet		FCC ID: ZNFV500	IC: 2703C-V500

Band	Frequency(MHz)	Loss(dB)
UNII 1	5180	10.30
	5190	10.29
	5200	10.28
	5230	10.29
	5240	10.34
UNII 2	5260	10.37
	5270	10.38
	5300	10.40
	5310	10.39
	5320	10.39
UNII 2e	5500	10.35
	5510	10.36
	5550	10.41
	5580	10.43
	5670	10.43
	5700	10.30

(Actual value of loss for the attenuator and cable combination)



TEST RESULTS

Conducted Power Density Measurements

Frequency (MHz)	Channel No.	Mode	Test Result				
			Measured Power Density (dBm)	Duty Cycle Factor (dB)	Measured Power Density(dBm) + Duty Cycle Factor	Limit (dBm)	Pass/Fail
5180	36	802.11a	0.161	0.249	0.410	4	Pass
5200	40		0.786	0.249	1.035	4	Pass
5240	48		0.865	0.249	1.114	4	Pass
5260	52	802.11a	0.731	0.249	0.980	11	Pass
5300	60		0.794	0.249	1.043	11	Pass
5320	64		0.764	0.249	1.013	11	Pass
5500	100	802.11a	0.714	0.249	0.963	11	Pass
5580	116		0.695	0.249	0.944	11	Pass
5700	140		0.812	0.249	1.061	11	Pass

Conducted Power Density Measurements

Frequency (MHz)	Channel No.	Mode	Test Result				
			Measured Power Density (dBm)	Duty Cycle Factor (dB)	Measured Power Density(dBm) + Duty Cycle Factor	Limit (dBm)	Pass/Fail
5180	36	802.11n	-0.776	0.267	-0.509	4	Pass
5200	40	20MHz	-0.829	0.267	-0.562	4	Pass
5240	48	BW	-0.886	0.267	-0.619	4	Pass
5260	52	802.11n	-0.716	0.267	-0.449	11	Pass
5300	60	20MHz	-0.345	0.267	-0.078	11	Pass
5320	64	BW	-0.317	0.267	-0.050	11	Pass
5500	100	802.11n	-0.505	0.267	-0.238	11	Pass
5580	116	20MHz	-0.709	0.267	-0.442	11	Pass
5700	140	BW	-0.306	0.267	-0.039	11	Pass

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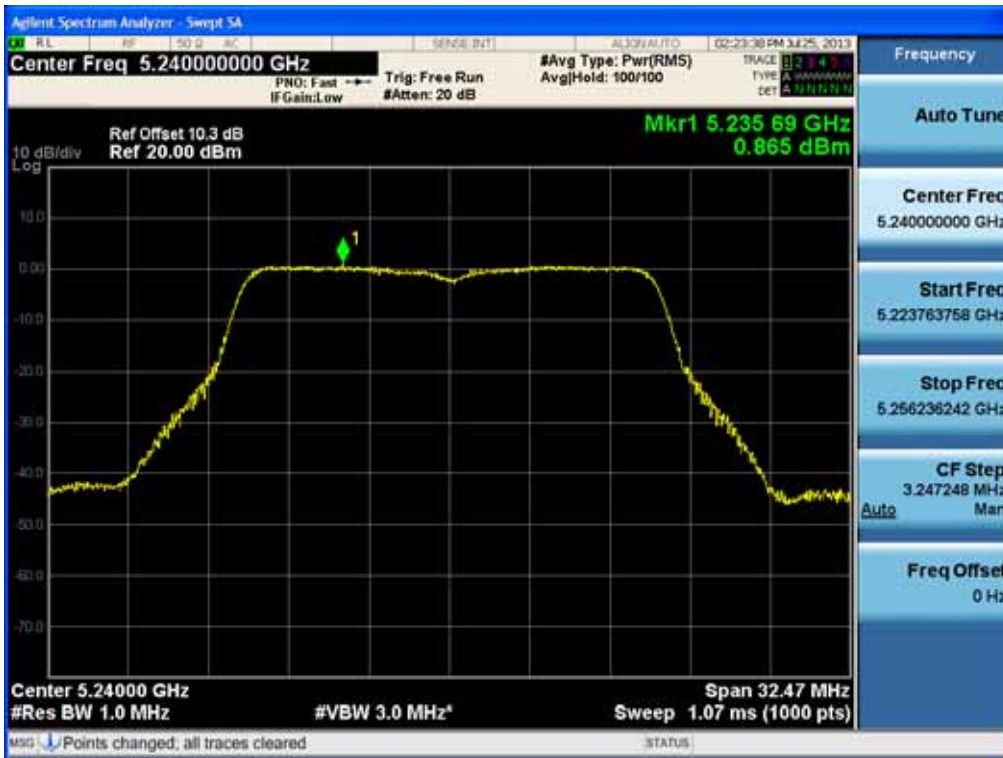
Conducted Power Density Measurements

Frequency (MHz)	Channel No.	Mode	Test Result				
			Measured Power Density (dBm)	Duty Cycle Factor (dB)	Measured Power Density(dBm) + Duty Cycle Factor	Limit (dBm)	Pass/Fail
5190	38	802.11n	-3.792	0.271	-3.521	4	Pass
5230	46	40MHz BW	-3.714	0.271	-3.443	4	Pass
5270	54	802.11n	-3.496	0.271	-3.225	11	Pass
5310	62	40MHz BW	-3.436	0.271	-3.165	11	Pass
5510	102	802.11n 40MHz BW	-3.414	0.271	-3.143	11	Pass
5550	110		-3.753	0.271	-3.482	11	Pass
5670	134		-4.093	0.271	-3.822	11	Pass

Note : In order to simplify the report, attached plots were only the highest PSD channel.

RESULT PLOTS

Power Spectral Density (802.11a-CH 48)



Power Spectral Density (802.11a-CH 60)



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Power Spectral Density (802.11a-CH 140)

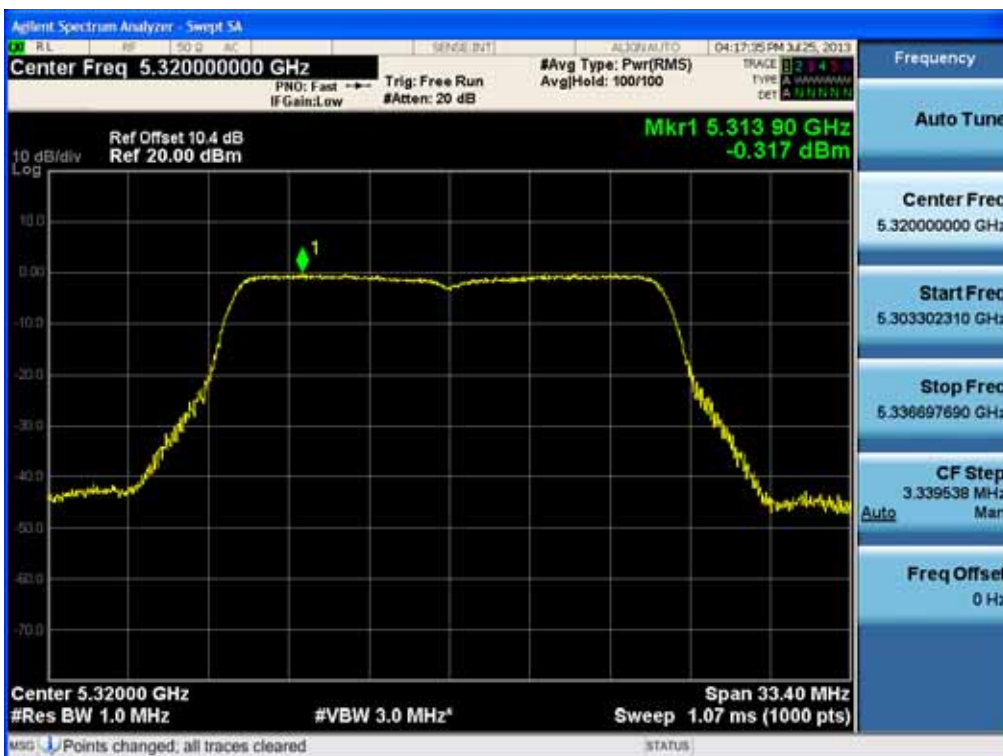


FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCTR1308FR15	Date of Issue: August 06, 2013	EUT Type:2.4G/5G Dual WIFI Tablet	FCC ID: ZNFV500	IC: 2703C-V500

Power Spectral Density (802.11n-CH 36)

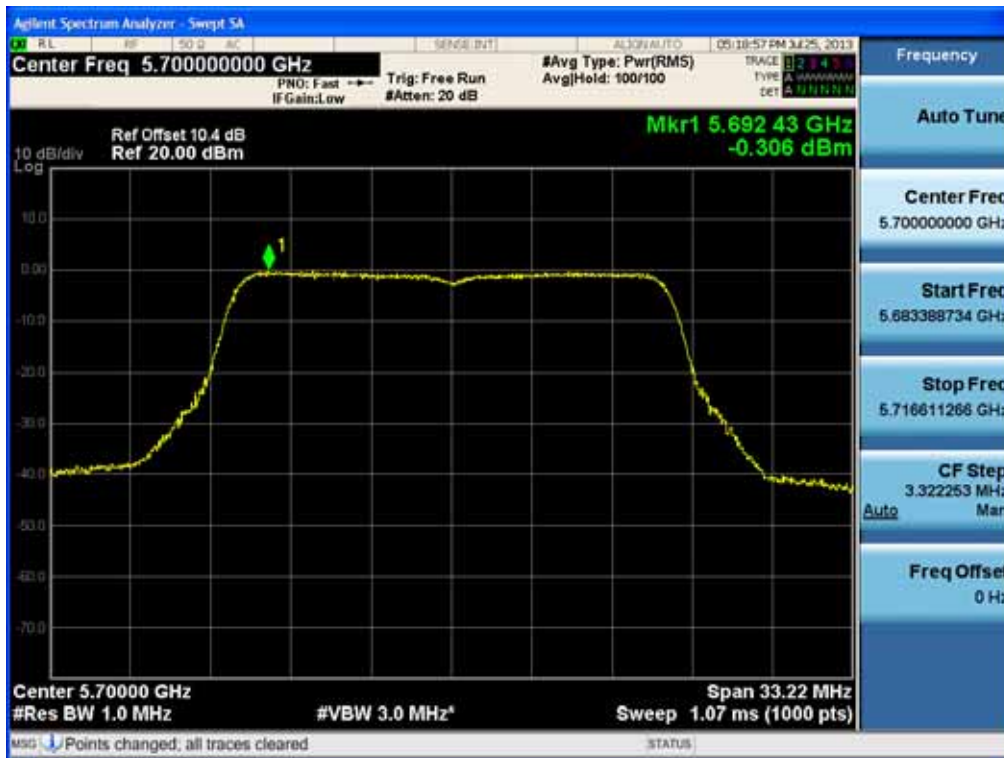


Power Spectral Density (802.11n-CH 64)



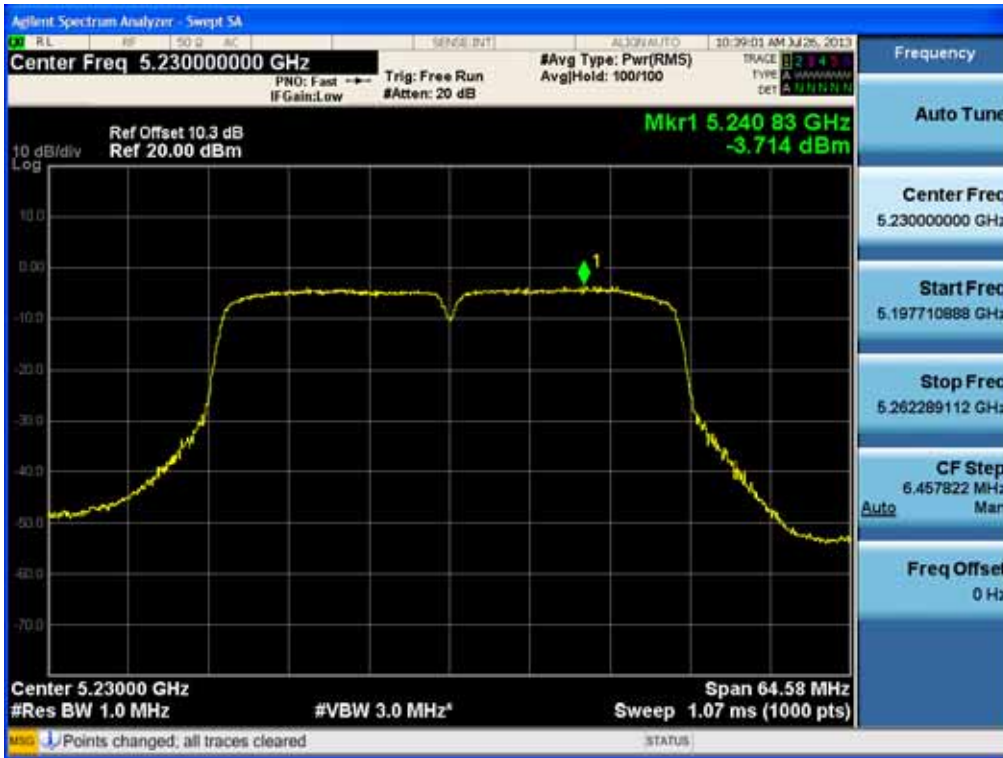
FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCTR1308FR15	Date of Issue: August 06, 2013	EUT Type:2.4G/5G Dual WIFI Tablet	FCC ID: ZNFV500	IC: 2703C-V500

Power Spectral Density (802.11n-CH 140)

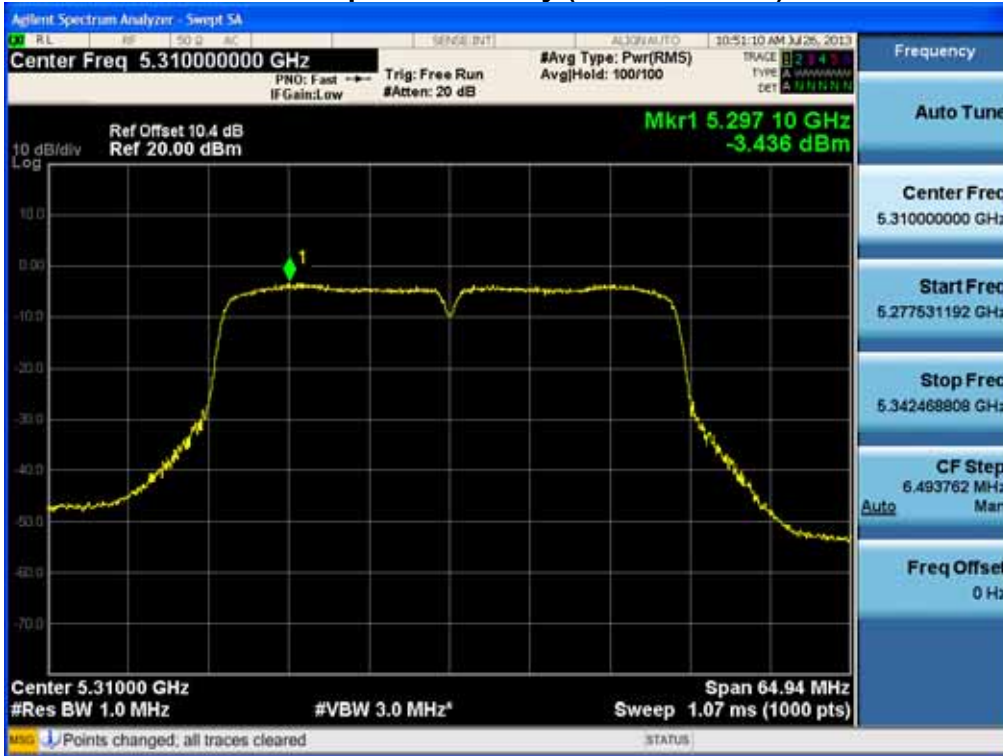


FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCTR1308FR15	Date of Issue: August 06, 2013	EUT Type:2.4G/5G Dual WIFI Tablet	FCC ID: ZNFV500	IC: 2703C-V500

Power Spectral Density (802.11n-CH 46)

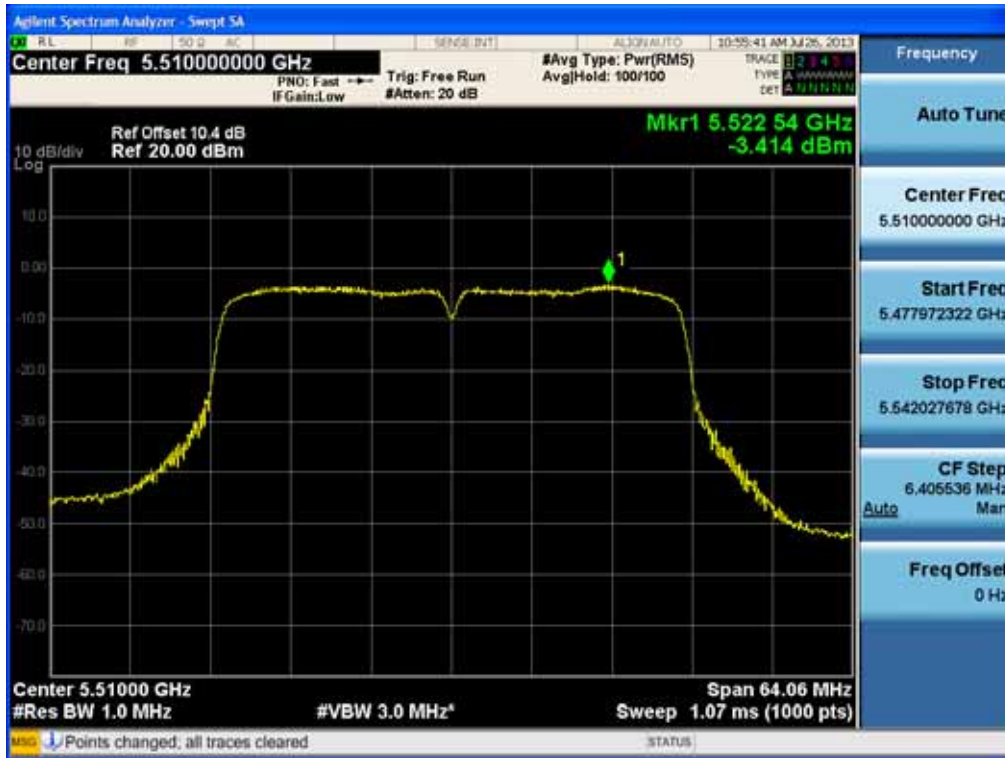


Power Spectral Density (802.11n-CH 62)



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Test Report No. HCTR1308FR15	Date of Issue: August 06, 2013	EUT Type:2.4G/5G Dual WIFI Tablet	FCC ID: ZNFV500	IC: 2703C-V500

Power Spectral Density (802.11n-CH 102)

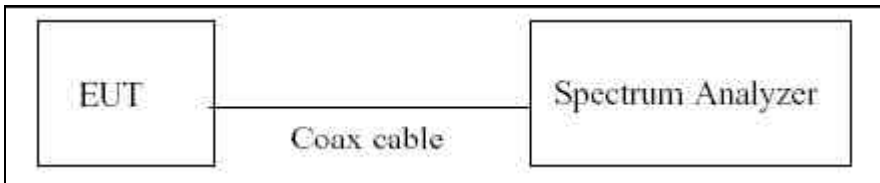


FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
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8.5 PEAK EXCURSION RATIO

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 04/08/2013).

The spectrum analyzer is set to :

1. Span = Set the span to view the entire emission bandwidth.
2. RBW = 1 MHz
3. VBW \geq 3 MHz
4. Detector Mode = Peak
5. Trace Mode = Max hold
6. Allow the sweeps to continue until the trace stabilizes.
7. Use the peak search function to find the peak of the spectrum.
8. Use the procedure to measure the PPSD
9. 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 5.2 GHz, 5.3 GHz and 5.6 GHz range that was rounded off to the closest tenth dB. Actual value of loss for the attenuator and cable combination is below table.

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Band	Frequency(MHz)	Loss(dB)
UNII 1	5180	10.30
	5190	10.29
	5200	10.28
	5230	10.29
	5240	10.34
UNII 2	5260	10.37
	5270	10.38
	5300	10.40
	5310	10.39
	5320	10.39
UNII 2e	5500	10.35
	5510	10.36
	5550	10.41
	5580	10.43
	5670	10.43
	5180	10.30

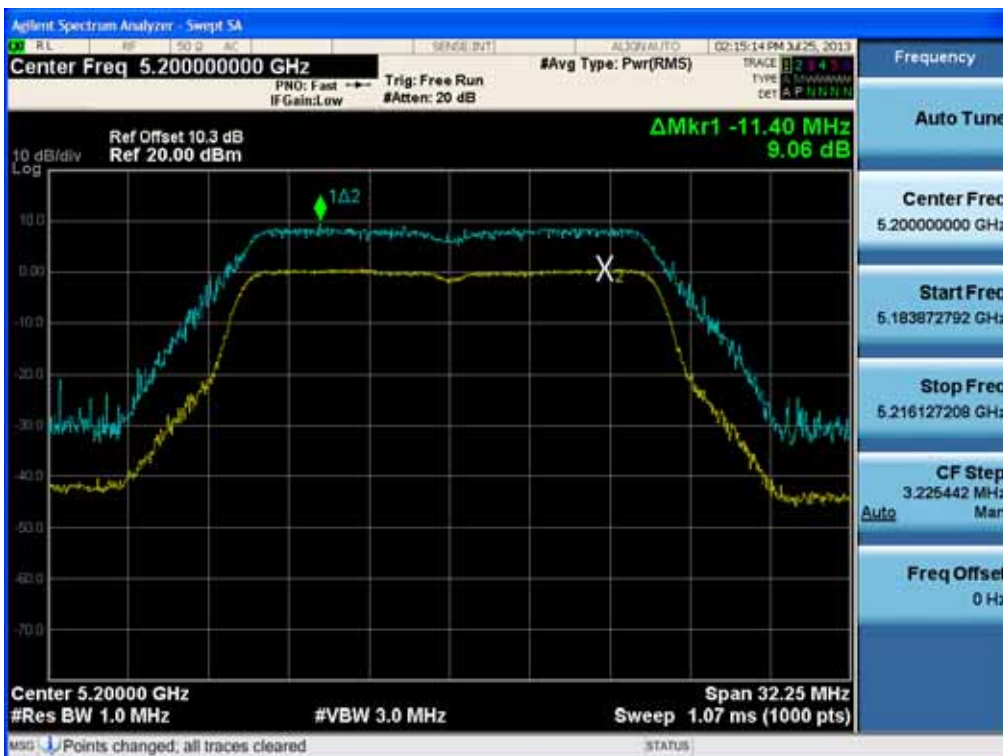
(Actual value of loss for the attenuator and cable combination)

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)

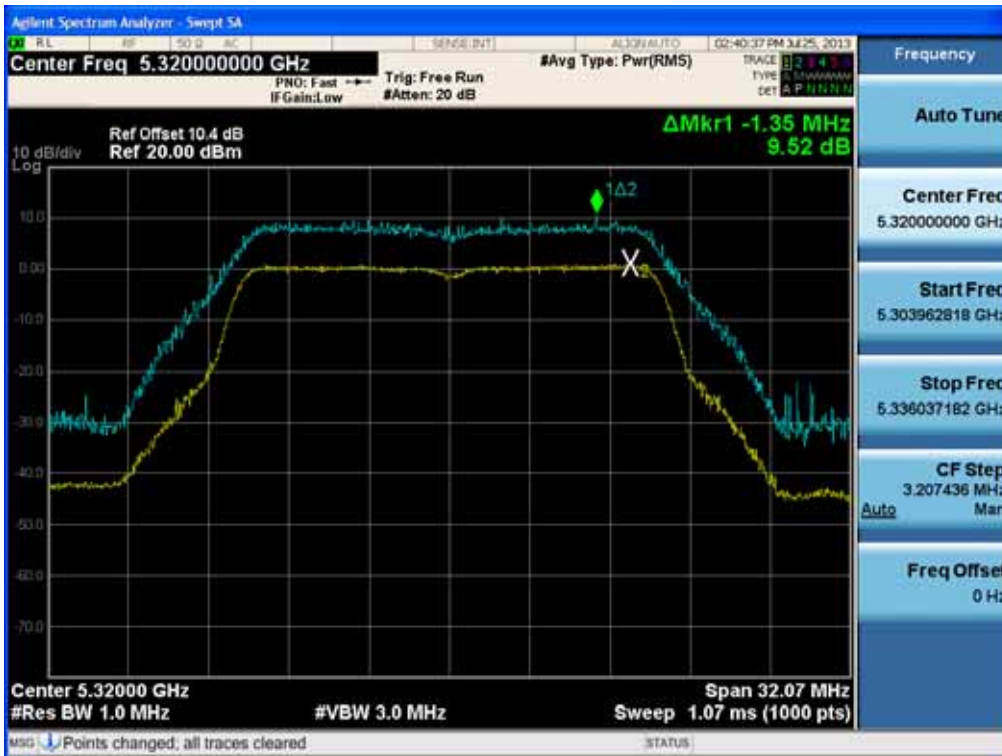


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Peak Excursion Ratio (802.11a-CH 60)



Peak Excursion Ratio (802.11a-CH 64)



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Peak Excursion Ratio (802.11a-CH 100)



Peak Excursion Ratio (802.11a-CH 116)



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Peak Excursion Ratio (802.11a-CH 140)

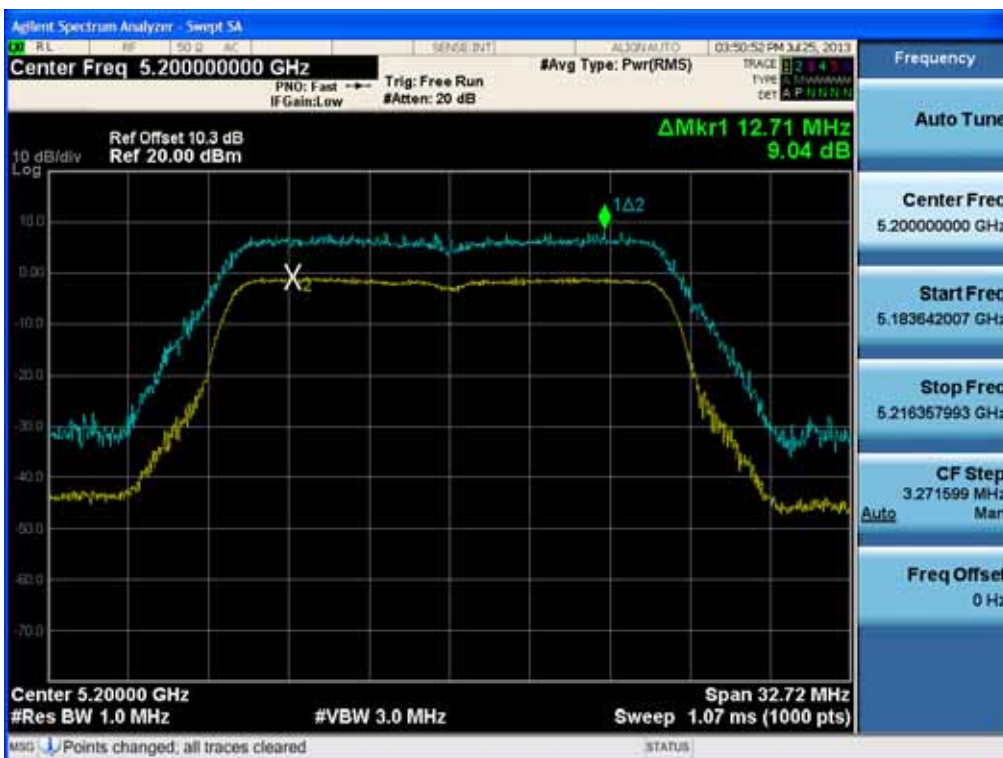


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Peak Excursion Ratio (802.11n-CH 36)

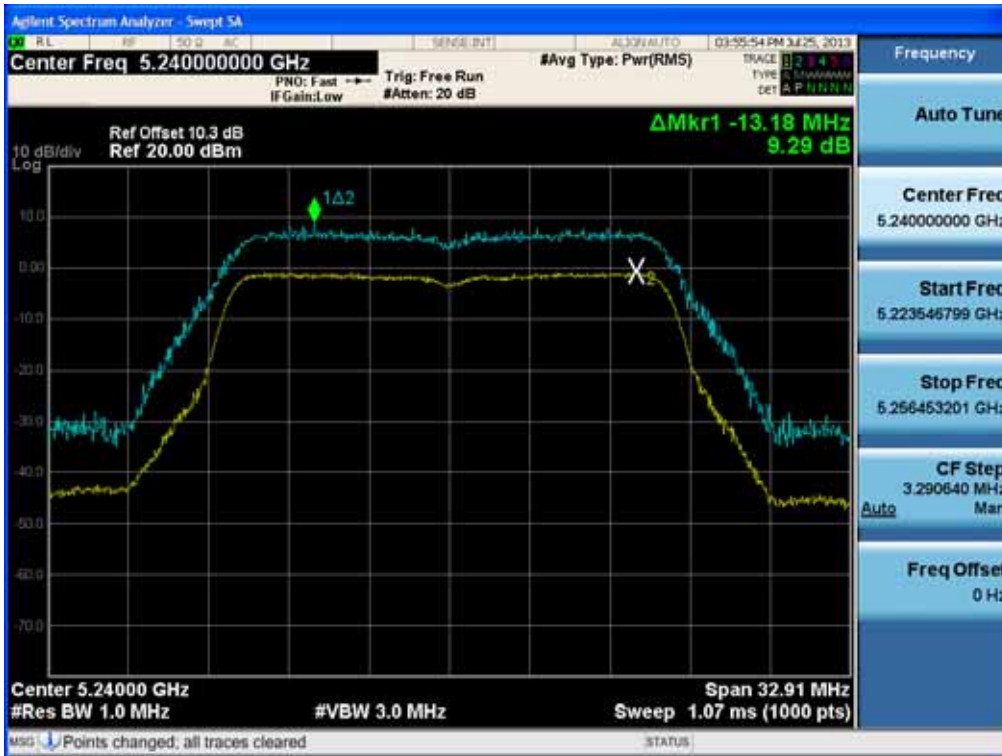


Peak Excursion Ratio (802.11n-CH 40)



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Peak Excursion Ratio (802.11n-CH 48)



Peak Excursion Ratio (802.11n-CH 52)

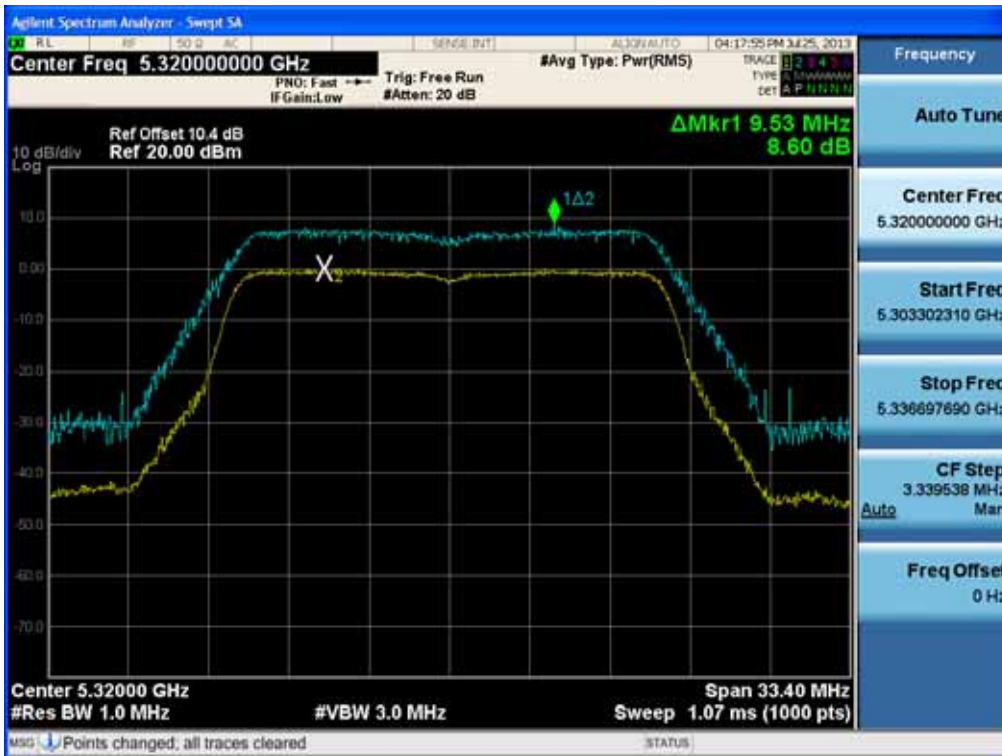


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Peak Excursion Ratio (802.11n-CH 60)

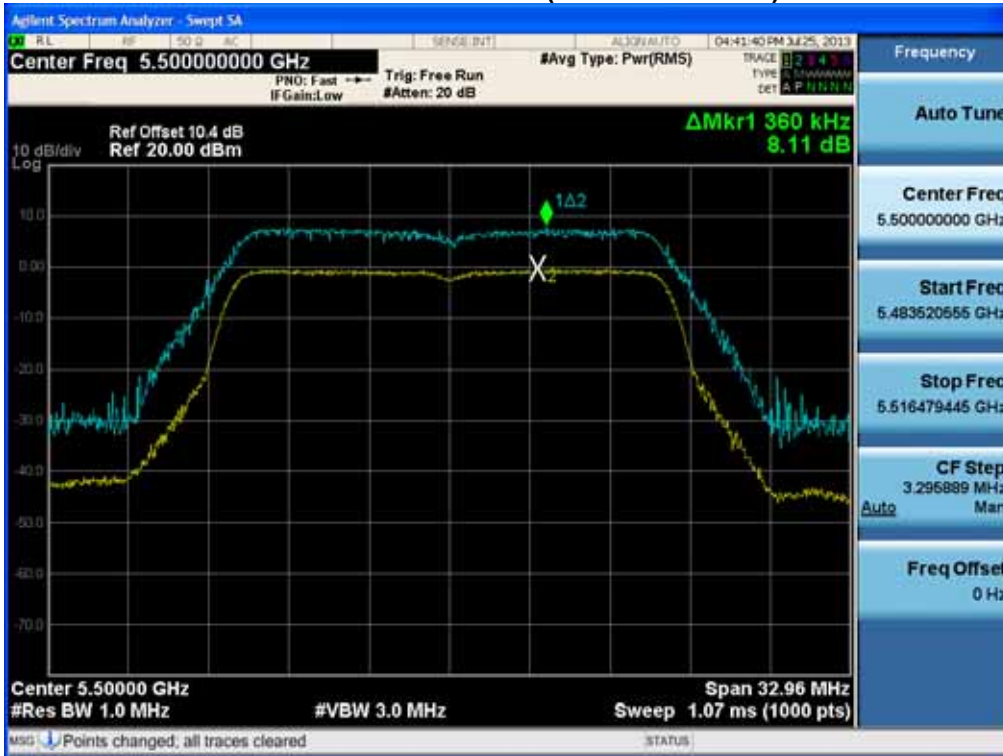


Peak Excursion Ratio (802.11n-CH 64)



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Peak Excursion Ratio (802.11n-CH 100)



Peak Excursion Ratio (802.11n-CH 116)



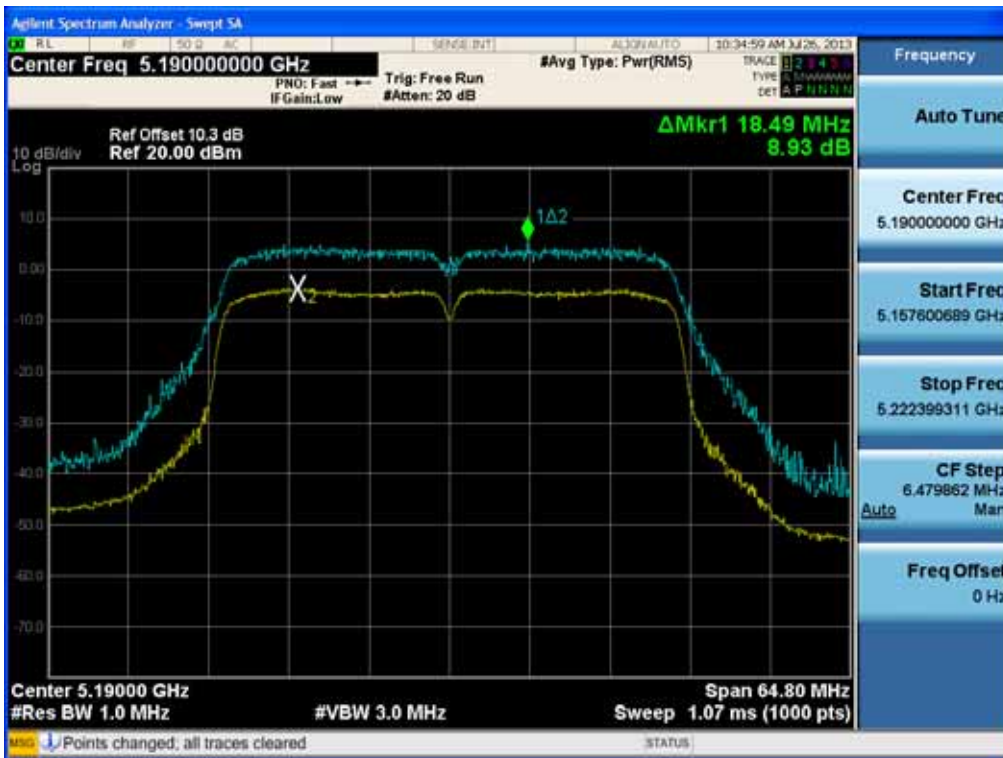
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Peak Excursion Ratio (802.11n-CH 140)

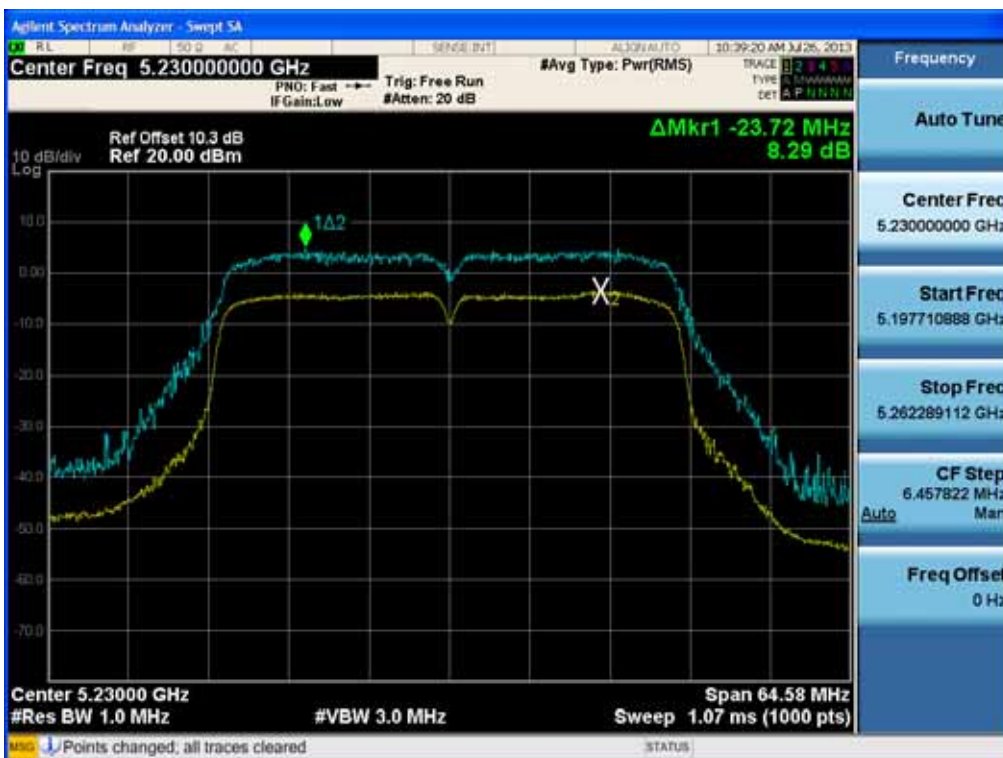


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Test Report No. HCTR1308FR15	Date of Issue: August 06, 2013	EUT Type:2.4G/5G Dual WIFI Tablet	FCC ID: ZNFV500	IC: 2703C-V500

Peak Excursion Ratio (802.11n-CH 38)

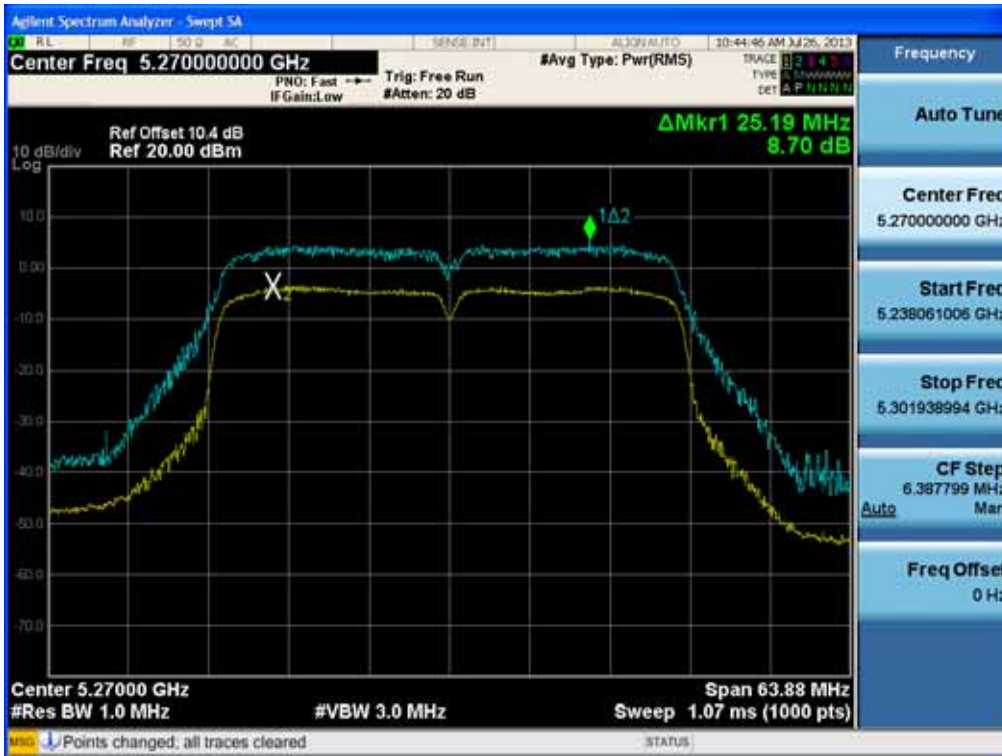


Peak Excursion Ratio (802.11n-CH 46)

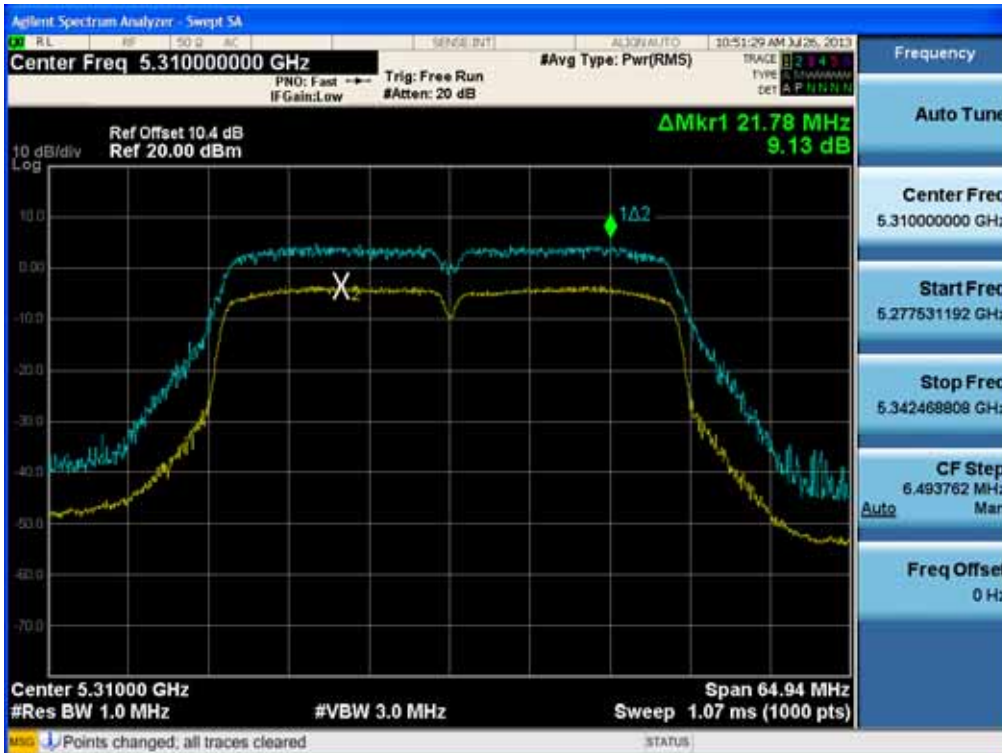


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Peak Excursion Ratio (802.11n-CH 54)



Peak Excursion Ratio (802.11n-CH 62)

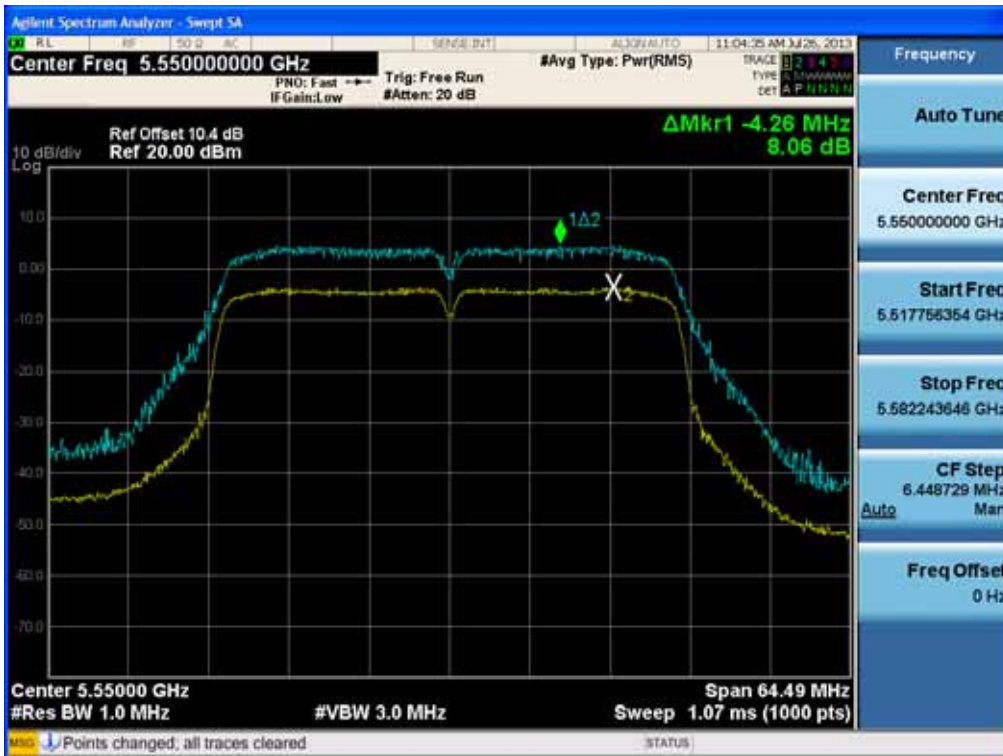


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Peak Excursion Ratio (802.11n-CH 102)

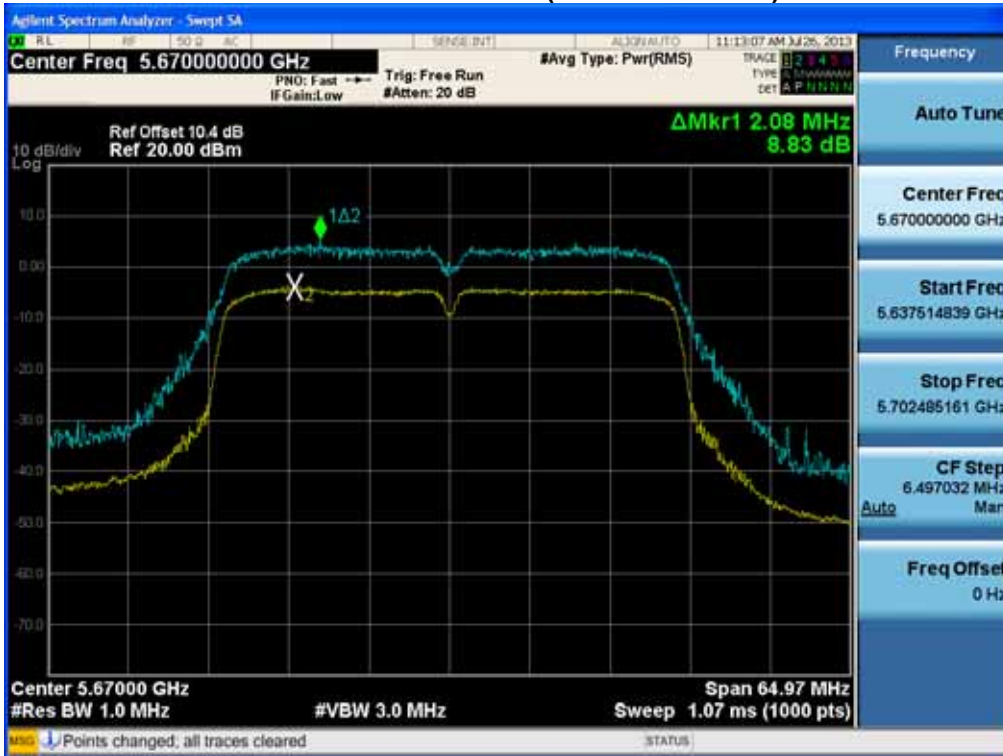


Peak Excursion Ratio (802.11n-CH 110)



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Peak Excursion Ratio (802.11n-CH 134)



FCC PT.15.247 TEST REPORT	FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCTR1308FR15	Date of Issue: August 06, 2013	EUT Type:2.4G/5G Dual WIFI Tablet	FCC ID: ZNFV500	IC: 2703C-V500

8.6 FREQUENCY STABILITY.

The EUT was placed inside an environmental chamber as the temperature in the chamber was varied between -30 and 50 . The temperature was incremented by 10 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.

20 MHz BW

OPERATING BAND: UNII Band 1
 OPERATING FREQUENCY: 5,180,000,000 Hz
 CHANNEL: 36
 REFERENCE VOLTAGE: 4.3 VDC

Voltage (%)	Power (VDC)	Temp. ()	Frequency (kHz)	Frequency Error (kHz)
100%	4.300	+20(Ref)	5 179 996	-3.950
100%		-30	5 180 005	5.430
100%		-20	5 180 006	6.125
100%		-10	5 179 990	-10.200
100%		0	5 180 014	13.951
100%		+10	5 180 012	12.490
100%		+30	5 179 996	-4.301
100%		+40	5 179 986	-14.050
100%		+50	5 179 995	-5.276
115%	4.945	+20	5 179 989	-11.242
Batt. Endpoint	3.655	+20	5 180 006	6.452

Note:

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.



OPERATING BAND: UNII Band 2
 OPERATING FREQUENCY: 5,260,000,000 Hz
 CHANNEL: 52
 REFERENCE VOLTAGE: 3.8 VDC

Voltage (%)	Power (VDC)	Temp. ()	Frequency (kHz)	Frequency Error (kHz)
100%	4.300	+20(Ref)	5 259 996	-4.254
100%		-30	5 260 006	6.160
100%		-20	5 259 986	-14.300
100%		-10	5 260 012	12.200
100%		0	5 259 995	-5.248
100%		+10	5 259 993	-6.720
100%		+30	5 260 005	4.730
100%		+40	5 260 004	4.225
100%		+50	5 259 991	-8.672
115%		4.945	+20	5 260 012
Batt. Endpoint	3.655	+20	5 259 988	-12.420

Note:

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

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OPERATING BAND: UNII Band 3
 OPERATING FREQUENCY: 5,500,000,000 Hz
 CHANNEL: 100
 REFERENCE VOLTAGE: 3.8 VDC

Voltage (%)	Power (VDC)	Temp. ()	Frequency (kHz)	Frequency Error (kHz)
100%	4.300	+20(Ref)	5 499 995	-5.255
100%		-30	5 500 009	8.540
100%		-20	5 499 993	-7.125
100%		-10	5 500 003	3.295
100%		0	5 499 995	-5.451
100%		+10	5 500 006	6.443
100%		+30	5 499 995	-4.720
100%		+40	5 499 995	-5.310
100%		+50	5 499 992	-7.562
115%		4.945	+20	5 500 005
Batt. Endpoint	3.655	+20	5 500 006	6.423

Note:

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.



40 MHz BW

OPERATING BAND: UNII Band 1
 OPERATING FREQUENCY: 5,190,000,000 Hz
 CHANNEL: 38
 REFERENCE VOLTAGE: 3.8 VDC

Voltage (%)	Power (VDC)	Temp. ()	Frequency (kHz)	Frequency Error (kHz)
100%	4.300	+20(Ref)	5 179 995	-4.935
100%		-30	5 179 994	-5.812
100%		-20	5 179 989	-11.430
100%		-10	5 180 005	5.232
100%		0	5 180 005	5.061
100%		+10	5 179 987	-13.200
100%		+30	5 180 004	4.043
100%		+40	5 179 987	-13.041
100%		+50	5 179 992	-7.574
115%		4.945	+20	5 180 012
Batt. Endpoint	3.655	+20	5 180 008	7.520

Note:

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.



OPERATING BAND: UNII Band 2
 OPERATING FREQUENCY: 5,310,000,000 Hz
 CHANNEL: 62
 REFERENCE VOLTAGE: 3.8 VDC

Voltage (%)	Power (VDC)	Temp. ()	Frequency (kHz)	Frequency Error (kHz)
100%	4.300	+20(Ref)	5 259 995	-4.875
100%		-30	5 259 994	-5.730
100%		-20	5 260 004	4.183
100%		-10	5 260 012	12.050
100%		0	5 259 993	-7.372
100%		+10	5 260 007	7.200
100%		+30	5 259 992	-8.430
100%		+40	5 259 988	-12.100
100%		+50	5 259 991	-9.227
115%		4.945	+20	5 260 004
Batt. Endpoint	3.655	+20	5 259 994	-6.405

Note:

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.



OPERATING BAND: UNII Band 3
 OPERATING FREQUENCY: 5,510,000,000 Hz
 CHANNEL: 102
 REFERENCE VOLTAGE: 3.8 VDC

Voltage (%)	Power (VDC)	Temp. ()	Frequency (kHz)	Frequency Error (kHz)
100%	4.300	+20(Ref)	5 499 995	-5.235
100%		-30	5 499 995	-5.400
100%		-20	5 500 005	5.253
100%		-10	5 499 987	-13.400
100%		0	5 500 006	6.420
100%		+10	5 500 005	4.870
100%		+30	5 500 005	4.642
100%		+40	5 499 993	-6.512
100%		+50	5 500 012	12.324
115%		4.945	+20	5 500 005
Batt. Endpoint	3.655	+20	5 499 995	-5.496

Note:

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.



8.7 RADIATED MEASUREMENT.

8.7.1 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

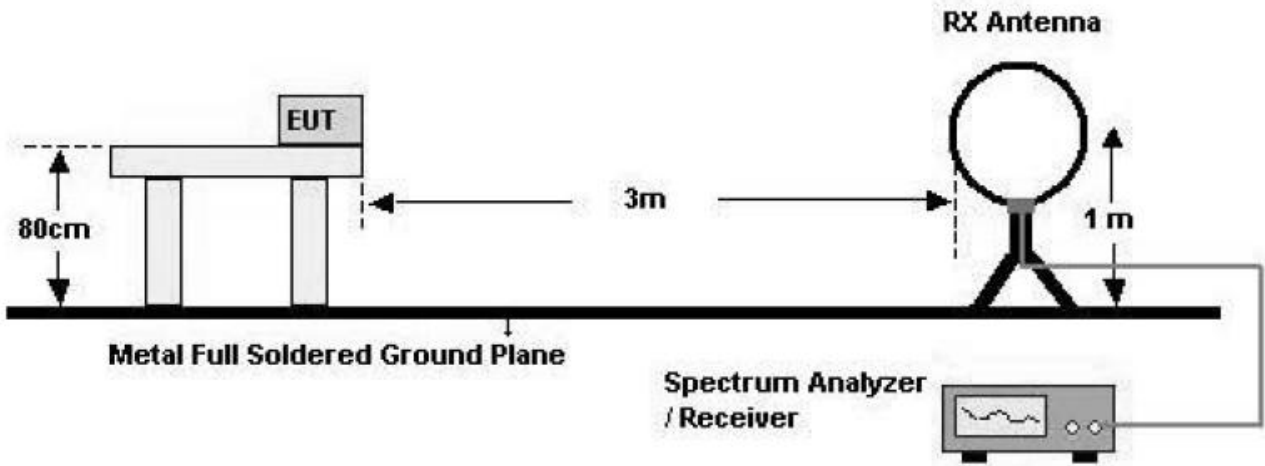
§15.407, KDB 789033

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 dBµV/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 dBµV/m.

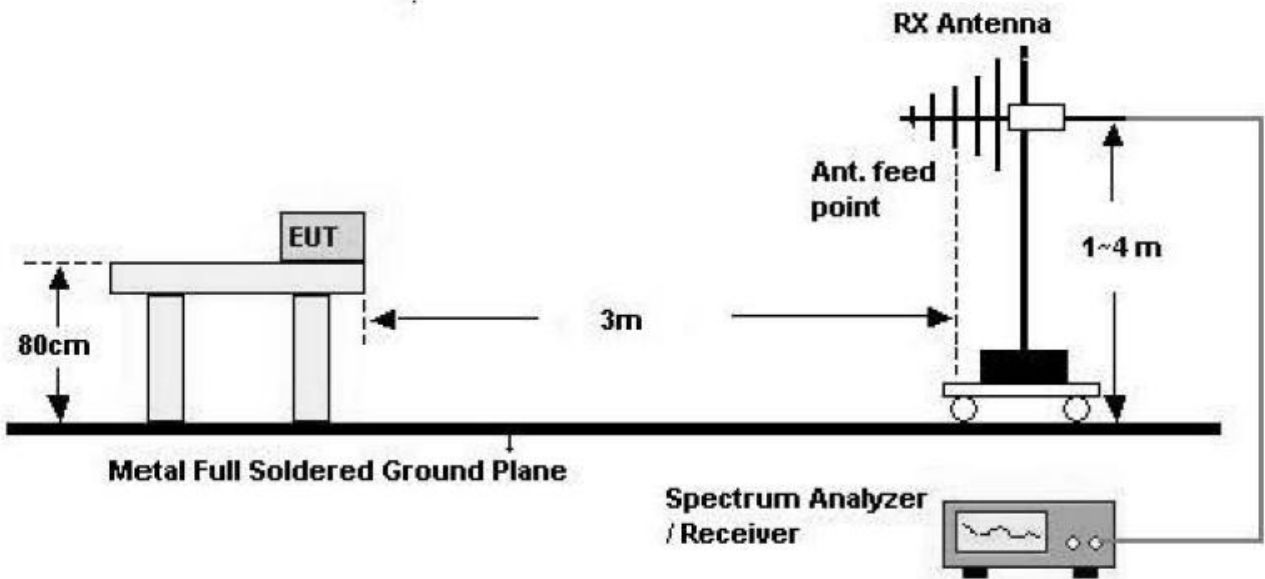
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Test Configuration

Below 30 MHz

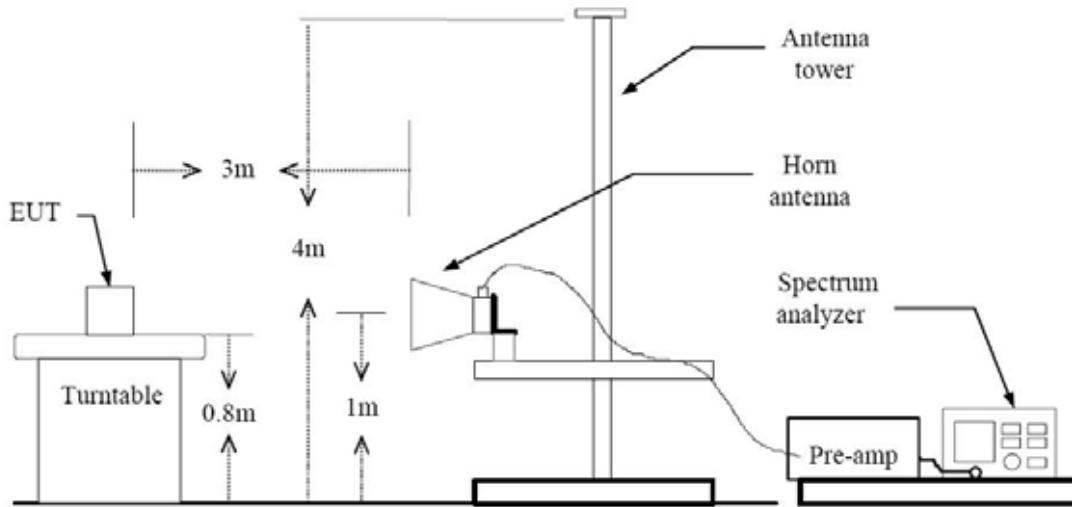


30 MHz - 1 GHz



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Above 1 GHz



TEST PROCEDURE USED

ANSI C63.4(2003)

Method H)5) in KDB 789033, issued 04/08/2013 (Peak)

Method H)6)d) in KDB 789033, issued 04/08/2013 (Average)

. Spectrum setting:

- Peak.

1. RBW = 1 MHz
2. VBW \geq 3 MHz
3. Detector = Peak
4. Sweep Time = auto
5. Trace mode = max hold
6. Allow sweeps to continue until the trace stabilizes.
7. Note that if the transmission is not continuous, the time required for the trace to stabilize will increase by a factor of approximately 1/x, where x is the duty cycle.

- Average (Method VB :Averaging using reduced video bandwidth)

1. RBW = 1 MHz
2. VBW
 - 2.1. If the EUT is configured to transmit with duty cycle \geq 98 percent, set VBW \leq RBW/100(i.e., 10 kHz) but not less than 10 Hz.
 - 2.2. If the EUT duty cycle is < 98 percent, set VBW \geq 1/T, where T is the minimum transmission duration.
3. The analyzer is set to linear detector mode.
4. Detector = Peak.

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5. Sweep time = auto.
6. Trace mode = max hold.
7. Allow max hold to run for at least 50 traces if the transmitted signal is continuous or has at least 98 percent duty cycle. For lower duty cycles, increase the minimum number of traces by a factor of 1/x, where x is the duty cycle.

Note :

1. We used the case 2 for 802.11a/n_20/n_40 to perform the average field strength measurements for RSE and Band Edge test.
2. The actual setting value of VBW for 802.11a/n_20/n_40.

Mode	Worst Data rate (Mbps)	T _{on} (ms)	T _{total} (ms)	Duty Cycle (%)	VBW(1/T) (Hz)	The actual setting value of VBW (Hz)
a	6	2.034	2.154	94.43	491.6	1000
n_20	6.5	1.890	2.010	94.03	529.1	1000
n_40	13.5	0.932	0.992	93.95	1073.0	3000



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 (specific distance / test distance) (dB)
4. Limit line = specific Limits (dBuV) + 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 V	dB /m	dB	(H/V)	dB μ V/m	dB μ V/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

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	45.51	9.33	V	54.84	68.2	13.36	PK
15540	45.24	14.61	V	59.85	74.0	14.13	PK
15540	31.47	14.61	V	46.08	54.0	7.90	AV
10360	44.64	9.33	H	53.97	68.2	14.23	PK
15540	44.69	14.61	H	59.30	74.0	14.68	PK
15540	31.40	14.61	H	46.01	54.0	7.97	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. We have done all data rate in 802.11a. Worst case is 6 Mbps in 802.11a.
6. 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	43.86	10.13	V	53.99	68.2	14.21	PK
15600	44.96	14.60	V	59.56	74.0	14.42	PK
15600	31.62	14.60	V	46.22	54.0	7.76	AV
10400	42.98	10.13	H	53.11	68.2	15.09	PK
15600	44.84	14.60	H	59.44	74.0	14.54	PK
15600	31.59	14.60	H	46.19	54.0	7.79	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. We have done all data rate in 802.11a. Worst case is 6 Mbps in 802.11a.
6. 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	44.74	10.20	V	54.94	68.2	13.26	PK
15720	45.96	13.47	V	59.43	74.0	14.55	PK
15720	32.79	13.47	V	46.26	54.0	7.72	AV
10480	43.89	10.20	H	54.09	68.2	14.11	PK
15720	45.87	13.47	H	59.34	74.0	14.64	PK
15720	32.81	13.47	H	46.28	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. We have done all data rate in 802.11a. Worst case is 6 Mbps in 802.11a.
6. 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 n_20 MHz BW
Transfer Rate:	6.5 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	44.91	9.33	V	54.24	68.2	13.96	PK
15540	45.72	14.61	V	60.33	74.0	13.65	PK
15540	31.39	14.61	V	46.00	54.0	7.98	AV
10360	44.27	9.33	H	53.60	68.2	14.60	PK
15540	45.58	14.61	H	60.19	74.0	13.79	PK
15540	31.38	14.61	H	45.99	54.0	7.99	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. We have done all data rate in 802.11n_20 MHz BW. Worst case is 6.5 Mbps in 802.11n_20 MHz BW.
6. 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 n_20 MHz BW
Transfer Rate:	6.5 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	44.03	10.13	V	54.16	68.2	14.04	PK
15600	45.36	14.60	V	59.96	74.0	14.02	PK
15600	31.61	14.60	V	46.21	54.0	7.77	AV
10400	43.89	10.13	H	54.02	68.2	14.18	PK
15600	45.21	14.60	H	59.81	74.0	14.17	PK
15600	31.62	14.60	H	46.22	54.0	7.76	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. We have done all data rate in 802.11n_20 MHz BW. Worst case is 6.5 Mbps in 802.11n_20 MHz BW.
6. 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 n_20 MHz BW
Transfer Rate:	6.5 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	44.01	10.20	V	54.21	68.2	13.99	PK
15720	46.51	13.47	V	59.98	74.0	14.00	PK
15720	32.72	13.47	V	46.19	54.0	7.79	AV
10480	43.98	10.20	H	54.18	68.2	14.02	PK
15720	46.48	13.47	H	59.95	74.0	14.03	PK
15720	32.71	13.47	H	46.18	54.0	7.80	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. We have done all data rate in 802.11n_20 MHz BW. Worst case is 6.5 Mbps in 802.11n_20 MHz BW.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

FCC PT.15.247 TEST REPORT		FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCTR1308FR15	Date of Issue: August 06, 2013	EUT Type:2.4G/5G Dual WIFI Tablet		FCC ID: ZNFV500	IC: 2703C-V500



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]	Detect
10380	44.20	9.70	V	53.90	68.2	14.30	PK
15570	44.63	14.62	V	59.25	74.0	14.73	PK
15570	31.65	14.62	V	46.27	54.0	7.71	AV
10380	43.98	9.70	H	53.68	68.2	14.52	PK
15570	44.99	14.62	H	59.61	74.0	14.37	PK
15570	31.49	14.62	H	46.11	54.0	7.87	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. We have done all data rate in 802.11n_40 MHz BW. Worst case is 13.5 Mbps in 802.11n_40 MHz BW.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

FCC PT.15.247 TEST REPORT		FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCTR1308FR15	Date of Issue: August 06, 2013	EUT Type:2.4G/5G Dual WIFI Tablet		FCC ID: ZNFV500	IC: 2703C-V500



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	44.02	10.26	V	54.28	68.2	13.92	PK
15690	46.72	14.33	V	61.05	74.0	12.93	PK
15690	32.64	14.33	V	46.97	54.0	7.01	AV
10460	44.01	10.26	H	54.27	68.2	13.93	PK
15690	46.85	14.33	H	61.18	74.0	12.80	PK
15690	32.55	14.33	H	46.88	54.0	7.10	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. We have done all data rate in 802.11n_40 MHz BW. Worst case is 13.5 Mbps in 802.11n_40 MHz BW.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

FCC PT.15.247 TEST REPORT		FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCTR1308FR15	Date of Issue: August 06, 2013	EUT Type:2.4G/5G Dual WIFI Tablet		FCC ID: ZNFV500	IC: 2703C-V500



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	44.91	10.38	V	55.29	68.2	12.91	PK
15780	47.10	14.38	V	61.48	74.0	12.50	PK
15780	32.55	14.38	V	46.93	54.0	7.05	AV
10520	45.54	10.38	H	55.92	68.2	12.28	PK
15780	46.29	14.38	H	60.67	74.0	13.31	PK
15780	32.61	14.38	H	46.99	54.0	6.99	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. We have done all data rate in 802.11a. Worst case is 6 Mbps in 802.11a.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

FCC PT.15.247 TEST REPORT		FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCTR1308FR15	Date of Issue: August 06, 2013	EUT Type:2.4G/5G Dual WIFI Tablet		FCC ID: ZNFV500	IC: 2703C-V500



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	45.02	10.39	V	55.41	74	18.57	PK
10600	39.76	10.39	V	50.15	54	3.83	AV
15900	44.35	14.00	V	58.35	74	15.63	PK
15900	31.11	14.00	V	45.11	54	8.87	AV
10600	45.47	10.39	H	55.86	74	18.12	PK
10600	39.87	10.39	H	50.26	54	3.72	AV
15900	44.39	14.00	H	58.39	74	15.59	PK
15900	31.13	14.00	H	45.13	54	8.85	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. We have done all data rate in 802.11a. Worst case is 6 Mbps in 802.11a.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

FCC PT.15.247 TEST REPORT		FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCTR1308FR15	Date of Issue: August 06, 2013	EUT Type:2.4G/5G Dual WIFI Tablet		FCC ID: ZNFV500	IC: 2703C-V500



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	45.29	10.50	V	55.79	74	18.19	PK
10640	38.53	10.50	V	49.03	54	4.95	AV
15960	44.21	14.27	V	58.48	74	15.50	PK
15960	30.85	14.27	V	45.12	54	8.86	AV
10640	45.33	10.50	H	55.83	74	18.15	PK
10640	39.07	10.50	H	49.57	54	4.41	AV
15960	44.23	14.27	H	58.50	74	15.48	PK
15960	30.87	14.27	H	45.14	54	8.84	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. We have done all data rate in 802.11a. Worst case is 6 Mbps in 802.11a.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

FCC PT.15.247 TEST REPORT		FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCTR1308FR15	Date of Issue: August 06, 2013	EUT Type:2.4G/5G Dual WIFI Tablet		FCC ID: ZNFV500	IC: 2703C-V500



Band :	UNII 2
Operation Mode:	802.11 n_20 MHz BW
Transfer Rate:	6.5 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	45.49	10.38	V	55.87	68.2	12.33	PK
15780	45.92	14.38	V	60.30	74.0	13.68	PK
15780	32.60	14.38	V	46.98	54.0	7.00	AV
10520	44.79	10.38	H	55.17	68.2	13.03	PK
15780	46.29	14.38	H	60.67	74.0	13.31	PK
15780	32.49	14.38	H	46.87	54.0	7.11	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. We have done all data rate in 802.11n_20 MHz BW. Worst case is 6.5 Mbps in 802.11n_20 MHz BW.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

FCC PT.15.247 TEST REPORT		FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCTR1308FR15	Date of Issue: August 06, 2013	EUT Type:2.4G/5G Dual WIFI Tablet		FCC ID: ZNFV500	IC: 2703C-V500



Band :	UNII 2
Operation Mode:	802.11 n_20 MHz BW
Transfer Rate:	6.5 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	45.08	10.39	V	55.47	74	18.51	PK
10600	39.90	10.39	V	50.29	54	3.69	AV
15900	44.38	14.00	V	58.38	74	15.60	PK
15900	31.12	14.00	V	45.12	54	8.86	AV
10600	45.36	10.39	H	55.75	74	18.23	PK
10600	39.91	10.39	H	50.30	54	3.68	AV
15900	44.31	14.00	H	58.31	74	15.67	PK
15900	31.11	14.00	H	45.11	54	8.87	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. We have done all data rate in 802.11n_20 MHz BW. Worst case is 6.5 Mbps in 802.11n_20 MHz BW.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

FCC PT.15.247 TEST REPORT		FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCTR1308FR15	Date of Issue: August 06, 2013	EUT Type:2.4G/5G Dual WIFI Tablet		FCC ID: ZNFV500	IC: 2703C-V500



Band :	UNII 2
Operation Mode:	802.11 n_20 MHz BW
Transfer Rate:	6.5 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	46.71	10.50	V	57.21	74	16.77	PK
10640	38.55	10.50	V	49.05	54	4.93	AV
15960	44.59	14.27	V	58.86	74	15.12	PK
15960	30.88	14.27	V	45.15	54	8.83	AV
10640	45.73	10.50	H	56.23	74	17.75	PK
10640	38.75	10.50	H	49.25	54	4.73	AV
15960	44.61	14.27	H	58.88	74	15.10	PK
15960	30.94	14.27	H	45.21	54	8.77	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. We have done all data rate in 802.11n_20 MHz BW. Worst case is 6.5 Mbps in 802.11n_20 MHz BW.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

FCC PT.15.247 TEST REPORT		FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCTR1308FR15	Date of Issue: August 06, 2013	EUT Type:2.4G/5G Dual WIFI Tablet		FCC ID: ZNFV500	IC: 2703C-V500



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	45.43	10.55	V	55.98	68.2	12.22	PK
15810	45.51	14.26	V	59.77	74.0	14.21	PK
15810	32.11	14.26	V	46.37	54.0	7.61	AV
10540	45.22	10.55	H	55.77	68.2	12.43	PK
15810	45.55	14.26	H	59.81	74.0	14.17	PK
15810	32.22	14.26	H	46.48	54.0	7.50	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. We have done all data rate in 802.11n_40 MHz BW. Worst case is 13.5 Mbps in 802.11n_40 MHz BW.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

FCC PT.15.247 TEST REPORT		FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCTR1308FR15	Date of Issue: August 06, 2013	EUT Type:2.4G/5G Dual WIFI Tablet		FCC ID: ZNFV500	IC: 2703C-V500



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	44.28	10.25	V	54.53	74	19.45	PK
10620	37.45	10.25	V	47.70	54	6.28	AV
15930	44.51	13.62	V	58.13	74	15.85	PK
15930	31.05	13.62	V	44.67	54	9.31	AV
10620	44.53	10.25	H	54.78	74	19.20	PK
10620	37.68	10.25	H	47.93	54	6.05	AV
15930	44.56	13.62	H	58.18	74	15.80	PK
15930	31.06	13.62	H	44.68	54	9.30	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. We have done all data rate in 802.11n_40 MHz BW. Worst case is 13.5 Mbps in 802.11n_40 MHz BW.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

FCC PT.15.247 TEST REPORT		FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCTR1308FR15	Date of Issue: August 06, 2013	EUT Type:2.4G/5G Dual WIFI Tablet		FCC ID: ZNFV500	IC: 2703C-V500



Band :	UNII 2e
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	43.85	11.28	V	55.13	74.0	18.85	PK
11000	36.46	11.28	V	47.74	54.0	6.24	AV
16500	45.31	14.19	V	59.50	68.2	8.70	PK
11000	44.01	11.28	H	55.29	74.0	18.69	PK
11000	37.01	11.28	H	48.29	54.0	5.69	AV
16500	45.29	14.19	H	59.48	68.2	8.72	PK

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. We have done all data rate in 802.11a. Worst case is 6 Mbps in 802.11a.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

FCC PT.15.247 TEST REPORT		FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCTR1308FR15	Date of Issue: August 06, 2013	EUT Type:2.4G/5G Dual WIFI Tablet		FCC ID: ZNFV500	IC: 2703C-V500



Band :	UNII 2e
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5580 MHz
Channel No.	116 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
11160	41.95	11.10	V	53.05	74.0	20.93	PK
11160	34.52	11.10	V	45.62	54.0	8.36	AV
16740	45.54	15.70	V	61.24	68.2	6.96	PK
11160	43.84	11.10	H	54.94	74.0	19.04	PK
11160	37.14	11.10	H	48.24	54.0	5.74	AV
16740	45.68	15.70	H	61.38	68.2	6.82	PK

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. We have done all data rate in 802.11a. Worst case is 6 Mbps in 802.11a.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

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Band :	UNII 2e
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	41.08	10.97	V	52.05	74.0	21.93	PK
11400	32.03	10.97	V	43.00	54.0	10.98	AV
17100	45.29	17.82	V	63.11	68.2	5.09	PK
11400	42.88	10.97	H	53.85	74.0	20.13	PK
11400	34.17	10.97	H	45.14	54.0	8.84	AV
17100	45.37	17.82	H	63.19	68.2	5.01	PK

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. We have done all data rate in 802.11a. Worst case is 6 Mbps in 802.11a.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

FCC PT.15.247 TEST REPORT		FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCTR1308FR15	Date of Issue: August 06, 2013	EUT Type:2.4G/5G Dual WIFI Tablet		FCC ID: ZNFV500	IC: 2703C-V500



Band :	UNII 2e
Operation Mode:	802.11 n_20 MHz BW
Transfer Rate:	6.5 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	43.91	11.28	V	55.19	74.0	18.79	PK
11000	36.91	11.28	V	48.19	54.0	5.79	AV
16500	45.43	14.19	V	59.62	68.2	8.58	PK
11000	43.61	11.28	H	54.89	74.0	19.09	PK
11000	36.91	11.28	H	48.19	54.0	5.79	AV
16500	45.20	14.19	H	59.39	68.2	8.81	PK

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. We have done all data rate in 802.11n_20 MHz BW. Worst case is 6.5 Mbps in 802.11n_20 MHz BW.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

FCC PT.15.247 TEST REPORT		FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCTR1308FR15	Date of Issue: August 06, 2013	EUT Type:2.4G/5G Dual WIFI Tablet		FCC ID: ZNFV500	IC: 2703C-V500



Band :	UNII 2e
Operation Mode:	802.11 n_20 MHz BW
Transfer Rate:	6.5 Mbps
Operating Frequency	5580 MHz
Channel No.	116 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
11160	41.62	11.10	V	52.72	74.0	21.26	PK
11160	34.02	11.10	V	45.12	54.0	8.86	AV
16740	46.25	15.70	V	61.95	68.2	6.25	PK
11160	43.49	11.10	H	54.59	74.0	19.39	PK
11160	36.94	11.10	H	48.04	54.0	5.94	AV
16740	46.28	15.70	H	61.98	68.2	6.22	PK

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. We have done all data rate in 802.11n_20 MHz BW. Worst case is 6.5 Mbps in 802.11n_20 MHz BW.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

FCC PT.15.247 TEST REPORT		FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCTR1308FR15	Date of Issue: August 06, 2013	EUT Type:2.4G/5G Dual WIFI Tablet		FCC ID: ZNFV500	IC: 2703C-V500



Band :	UNII 2e
Operation Mode:	802.11 n_20 MHz BW
Transfer Rate:	6.5 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	41.46	10.97	V	52.43	74.0	21.55	PK
11400	32.14	10.97	V	43.11	54.0	10.87	AV
17100	45.27	17.82	V	63.09	68.2	5.11	PK
11400	43.37	10.97	H	54.34	74.0	19.64	PK
11400	34.38	10.97	H	45.35	54.0	8.63	AV
17100	45.32	17.82	H	63.14	68.2	5.06	PK

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. We have done all data rate in 802.11n_20 MHz BW. Worst case is 6.5 Mbps in 802.11n_20 MHz BW.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

FCC PT.15.247 TEST REPORT		FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCTR1308FR15	Date of Issue: August 06, 2013	EUT Type:2.4G/5G Dual WIFI Tablet		FCC ID: ZNFV500	IC: 2703C-V500



Band :	UNII 2e
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	43.53	11.28	V	54.81	74.0	19.17	PK
11020	36.11	11.28	V	47.39	54.0	6.59	AV
16530	45.26	14.83	V	60.09	68.2	8.11	PK
11020	43.60	11.28	H	54.88	74.0	19.10	PK
11020	36.32	11.28	H	47.60	54.0	6.38	AV
16530	45.14	14.83	H	59.97	68.2	8.23	PK

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. We have done all data rate in 802.11n_40 MHz BW. Worst case is 13.5 Mbps in 802.11n_40 MHz BW.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

FCC PT.15.247 TEST REPORT		FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCTR1308FR15	Date of Issue: August 06, 2013	EUT Type:2.4G/5G Dual WIFI Tablet		FCC ID: ZNFV500	IC: 2703C-V500



Band :	UNII 2e
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	40.94	11.12	V	52.06	74.0	21.92	PK
11180	32.05	11.12	V	43.17	54.0	10.81	AV
16770	45.66	16.52	V	62.18	68.2	6.02	PK
11180	42.73	11.12	H	53.85	74.0	20.13	PK
11180	34.87	11.12	H	45.99	54.0	7.99	AV
16770	45.75	16.52	H	62.27	68.2	5.93	PK

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. We have done all data rate in 802.11n_40 MHz BW. Worst case is 13.5 Mbps in 802.11n_40 MHz BW.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

FCC PT.15.247 TEST REPORT		FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCTR1308FR15	Date of Issue: August 06, 2013	EUT Type:2.4G/5G Dual WIFI Tablet		FCC ID: ZNFV500	IC: 2703C-V500



Band :	UNII 2e
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	42.01	10.86	V	52.87	74.0	21.11	PK
11340	32.89	10.86	V	43.75	54.0	10.23	AV
17010	44.80	18.15	V	62.95	68.2	5.25	PK
11340	42.73	10.86	H	53.59	74.0	20.39	PK
11340	35.66	10.86	H	46.52	54.0	7.46	AV
17010	44.82	18.15	H	62.97	68.2	5.23	PK

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. We have done all data rate in 802.11n_40 MHz BW. Worst case is 13.5 Mbps in 802.11n_40 MHz BW.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

FCC PT.15.247 TEST REPORT		FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCTR1308FR15	Date of Issue: August 06, 2013	EUT Type:2.4G/5G Dual WIFI Tablet		FCC ID: ZNFV500	IC: 2703C-V500

8.7.2 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)).

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	55.74	-0.51	H	55.23	74	18.75	PK
5150	41.37	-0.51	H	40.86	54	13.12	AV
5150	56.84	-0.51	V	56.33	74	17.65	PK
5150	41.41	-0.51	V	40.90	54	13.08	AV

Band :	UNII 1
Operation Mode:	802.11 n_20 MHz BW
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	55.62	-0.51	H	55.11	74	18.87	PK
5150	41.13	-0.51	H	40.62	54	13.36	AV
5150	55.08	-0.51	V	54.57	74	19.41	PK
5150	41.37	-0.51	V	40.86	54	13.12	AV



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	56.63	-0.51	H	56.12	74	17.86	PK
5150	42.28	-0.51	H	41.77	54	12.21	AV
5150	60.99	-0.51	V	60.48	74	13.50	PK
5150	43.52	-0.51	V	43.01	54	10.97	AV

Notes:

1. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + ATT
2. We have done all data rate in 802.11a/n mode test. . Worst case of EUT is lowest data rate in 802.11a/n.
3. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

FCC PT.15.247 TEST REPORT		FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCTR1308FR15	Date of Issue: August 06, 2013	EUT Type:2.4G/5G Dual WIFI Tablet		FCC ID: ZNFV500	IC: 2703C-V500



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	55.66	-0.19	H	55.47	74	18.51	PK
5350	39.94	-0.19	H	39.75	54	14.23	AV
5350	55.55	-0.19	V	55.36	74	18.62	PK
5350	40.41	-0.19	V	40.22	54	13.76	AV

Band : UNII 2
 Operation Mode: 802.11 n_20 MHz BW
 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	53.77	-0.19	H	53.58	74	20.40	PK
5350	39.86	-0.19	H	39.67	54	14.31	AV
5350	54.53	-0.19	V	54.34	74	19.64	PK
5350	40.06	-0.19	V	39.87	54	14.11	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	58.18	-0.19	H	57.99	74	15.99	PK
5350	41.94	-0.19	H	41.75	54	12.23	AV
5350	64.20	-0.19	V	64.01	74	9.97	PK
5350	44.18	-0.19	V	43.99	54	9.99	AV

Notes:

1. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + ATT
2. We have done all data rate in 802.11a/n mode test. . Worst case of EUT is lowest data rate in 802.11a/n.
3. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

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Band : UNII 2e
 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	53.56	0.38	H	53.94	74	20.04	PK
5460	39.77	0.38	H	40.15	54	13.83	AV
5470	59.59	0.24	H	59.83	68	8.37	PK
5460	53.81	0.38	V	54.19	74	19.79	PK
5460	39.84	0.38	V	40.22	54	13.76	AV
5470	60.40	0.24	V	60.64	68	7.56	PK

Band : UNII 2e
 Operation Mode: 802.11 a
 Transfer Rate: 6 Mbps
 Operating Frequency 5700 MHz
 Channel No. 140 Ch

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
5725	54.32	1.05	H	55.37	68	12.84	PK
5725	56.40	1.05	V	57.45	68	10.76	PK



Band : UNII 2e
 Operation Mode: 802.11 n_20 MHz BW
 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	54.13	0.38	H	54.51	74	19.47	PK
5460	39.82	0.38	H	40.20	54	13.78	AV
5470	54.74	0.24	H	54.98	68	13.22	PK
5460	54.25	0.38	V	54.63	74	19.35	PK
5460	39.74	0.38	V	40.12	54	13.86	AV
5470	60.15	0.24	V	60.39	68	7.81	PK

Band : UNII 2e
 Operation Mode: 802.11 n_20 MHz BW
 Transfer Rate: 6.5 Mbps
 Operating Frequency 5700 MHz
 Channel No. 140 Ch

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
5725	54.01	1.05	H	55.06	68	13.15	PK
5725	56.07	1.05	V	57.12	68	11.09	AV



Band :	UNII 2e
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	56.00	0.38	H	56.38	74	17.60	PK
5460	40.95	0.38	H	41.33	54	12.65	AV
5470	60.77	0.24	H	61.01	68	7.19	PK
5460	53.42	0.38	V	53.80	74	20.18	PK
5460	38.80	0.38	V	39.18	54	14.80	AV
5470	58.59	0.24	V	58.83	68	9.37	PK

Band :	UNII 2e
Operation Mode:	802.11 n_40 MHz BW
Transfer Rate:	13.5 Mbps
Operating Frequency	5670 MHz
Channel No.	134 Ch

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
5725	54.69	1.05	H	55.74	68	12.47	PK
5725	53.70	1.05	V	54.75	68	13.46	AV

Notes:

1. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + ATT
2. We have done all data rate in 802.11a/n mode test. . Worst case of EUT is lowest data rate in 802.11a/n.
3. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

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8.7.3 RECEIVER SPURIOUS EMISSIONS

FCC Rule(s) §15.109 (see Table Below)
Test Requirements: Emission Level shall not exceed §15.109 limits
Operating conditions: Under normal test conditions
Method of testing: Radiated

S/A. Settings: F < 1 GHz: RBW: 120 kHz, VBW: 300 kHz (Quasi Peak)
 F > 1 GHz: RBW: 1 MHz, VBW: 1 MHz (Peak)
Mode of operation: Receive

Frequency (MHz)	Field Strength (mV/m)	Measurement Distance (m)
30 – 88	100 (40 dBuV)	3
88 - 216	150 (43.5 dBuV))	3
216 – 960	200 (46 dBuV)	3
Above 960	500 (54 dBuV)	3

Operation Mode: Receive:

30 MHz ~ 1 GHz

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

Above 1 GHz

Frequency	Reading	Ant. Factor	Cable Loss	ANT POL	Total	Limit	Margin
MHz	dBuV	dB/m	dB	(H/V)	dBuV/m	dBuV/m	dB
No Critical peaks found							

8.8 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 12 Mbps, Ch.64 and 802.11a mode in UNII 2. Because 802.11a mode in UNII 2 is worst case.

RESULT PLOTS

Conducted Emissions (Line 1)

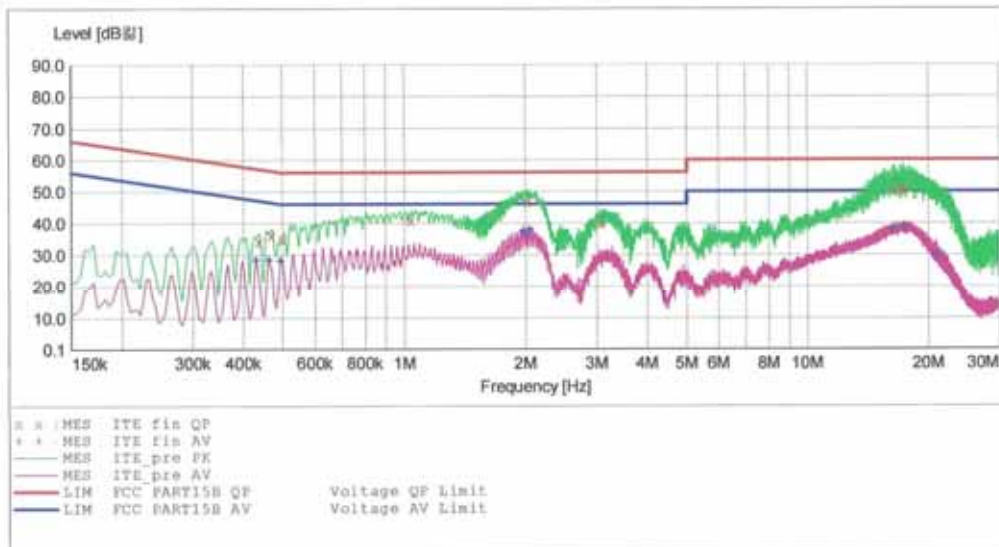
HCT

EMC

EUT: LG-V500
 Manufacturer: LG
 Operating Condition: WLAN MODE(UNII)
 Test Site: SHIELD ROOM
 Operator: KI-YOON
 Test Specification: KN22 CLASS A
 Comment: H

SCAN TABLE: "KN14 CLASS B(H)"

Start Frequency	Stop Frequency	Step Width	Detector	Meas. Time	IF Bandw.	Transducer
150.0 kHz	500.0 kHz	4.0 kHz	MaxPeak	10.0 ms	9 kHz	None
500.0 kHz	5.0 MHz	4.0 kHz	Average	10.0 ms	9 kHz	None
5.0 MHz	30.0 MHz	4.0 kHz	MaxPeak	10.0 ms	9 kHz	None
			Average	10.0 ms	9 kHz	None



MEASUREMENT RESULT: "ITE_fin_QP"

2013-07-30 10:18오전

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.438001	34.20	9.8	57	22.9	---	---
0.470001	36.40	9.8	57	20.1	---	---
0.500000	35.10	9.8	56	20.9	---	---
1.040000	41.00	9.8	56	15.0	---	---
2.020000	46.80	9.9	56	9.2	---	---
3.068000	40.00	10.1	56	16.0	---	---
16.328000	50.50	10.8	60	9.5	---	---
17.164000	50.50	10.8	60	9.5	---	---
17.376000	50.70	10.8	60	9.3	---	---

MEASUREMENT RESULT: "ITE_fin AV"

2013-07-30 10:18오전

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.430001	28.30	9.8	47	18.9	---	---
0.462001	28.40	9.8	47	18.2	---	---
0.494001	28.20	9.8	46	17.9	---	---
1.980000	37.60	9.9	46	8.4	---	---
2.020000	36.70	9.9	46	9.3	---	---
2.048000	37.80	9.9	46	8.2	---	---
16.328000	38.10	10.8	50	11.9	---	---
17.360000	38.50	10.8	50	11.5	---	---
20.948000	29.60	11.0	50	20.4	---	---

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Conducted Emissions (Line 2)

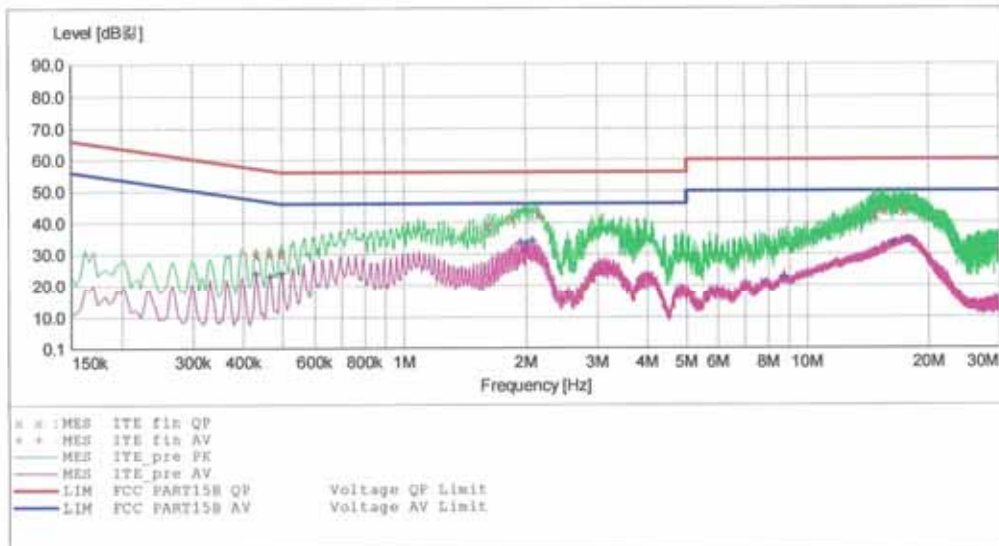
HCT

EMC

EUT: LG-V500
 Manufacturer: LG
 Operating Condition: WLAN MODE(UNII)
 Test Site: SHIELD ROOM
 Operator: KI-YOON
 Test Specification: KN22 CLASS A
 Comment: N

SCAN TABLE: "KN14 CLASS B(H)"

Start Frequency	Stop Frequency	Step Width	Detector	Meas. Time	IF Bandw.	Transducer
150.0 kHz	500.0 kHz	4.0 kHz	MaxPeak	10.0 ms	9 kHz	None
500.0 kHz	5.0 MHz	4.0 kHz	Average	10.0 ms	9 kHz	None
5.0 MHz	30.0 MHz	4.0 kHz	MaxPeak	10.0 ms	9 kHz	None
			Average			



MEASUREMENT RESULT: "ITE_fin QP"

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.430001	30.00	10.0	57	27.2	---	---
0.462001	30.30	10.0	57	26.4	---	---
0.498001	30.30	10.0	56	25.7	---	---
1.616000	38.90	10.1	56	17.1	---	---
1.852000	41.20	10.1	56	14.8	---	---
2.148000	42.70	10.2	56	13.3	---	---
14.756000	42.50	11.0	60	17.5	---	---
15.572000	43.70	11.1	60	16.3	---	---
17.344000	43.50	11.1	60	16.5	---	---

MEASUREMENT RESULT: "ITE_fin AV"

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Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.430001	23.90	10.0	47	23.4	---	---
0.466001	22.90	10.0	47	23.7	---	---
0.498001	24.00	10.0	46	22.0	---	---
1.948000	33.80	10.1	46	12.2	---	---
2.012000	33.60	10.1	46	12.4	---	---
2.080000	34.30	10.1	46	11.7	---	---
8.760000	22.80	10.6	50	27.2	---	---
16.356000	33.30	11.1	50	16.7	---	---
17.788000	34.40	11.2	50	15.6	---	---

FCC PT.15.247 TEST REPORT		FCC & IC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCTR1308FR15	Date of Issue: August 06, 2013	EUT Type:2.4G/5G Dual WIFI Tablet		FCC ID: ZNFV500	IC: 2703C-V500

9. LIST OF TEST EQUIPMENT

Manufacturer	Model / Equipment	Calibration Interval	Calibration Due	Serial No.
Rohde & Schwarz	ENV216/ LISN	Annual	02/06/2014	100073
Schwarzbeck	VULB 9160/ TRILOG Antenna	Biennial	12/17/2014	3150
Rohde & Schwarz	ESI 40 / EMI TEST RECEIVER	Annual	04/16/2014	831564103
Agilent	E4440A/ Spectrum Analyzer	Annual	04/25/2014	US45303008
Agilent	N9020A/ SIGNAL ANALYZER	Annual	05/14/2014	MY51110063
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	09/11/2013	10094
MITEQ	AMF-6B-180265-35-10P / POWER AMP	Annual	04/16/2014	667624
CERNEX	CBL26405040 / POWER AMP	Annual	04/16/2014	19660
Schwarzbeck	BBHA 9120D/ Horn Antenna	Biennial	10/17/2013	937
Schwarzbeck	BBHA9170 / Horn Antenna(15 GHz ~ 40 GHz)	Biennial	10/30/2014	BBHA9170124
Rohde & Schwarz	FSP / Spectrum Analyzer	Annual	02/08/2014	839117/011
Agilent	E4416A /Power Meter	Annual	11/07/2013	GB41291412
Agilent	E9327A /POWER SENSOR	Annual	04/16/2014	MY4442009
Wainwright Instrument	WHF3.0/18G-10EF / High Pass Filter	Annual	02/08/2014	F6
Wainwright Instrument	WHNX6.0/26.5G-6SS / High Pass Filter	Annual	04/16/2014	1
Wainwright Instrument	WHNX7.0/18G-8SS / High Pass Filter	Annual	04/16/2014	29
Wainwright Instrument	WRCJ2400/2483.5-2370/2520-60/14SS / Band Reject Filter	Annual	03/19/2014	1
Hewlett Packard	11636B/Power Divider	Annual	11/07/2013	11377
Agilent	87300B/Directional Coupler	Annual	12/24/2013	3116A03621
Hewlett Packard	11667B / Power Splitter	Annual	05/29/2014	05001
DIGITAL	EP-3010 /DC POWER SUPPLY	Annual	11/07/2013	3110117
ITECH	IT6720 / DC POWER SUPPLY	Annual	11/07/2013	010002156287001199
TESCOM	TC-3000C / BLUETOOTH TESTER	Annual	04/24/2014	3000C000276
Rohde & Schwarz	CBT / BLUETOOTH TESTER	Annual	04/25/2014	100422
EMCO	6502.LOOP ANTENNA	Biennial	01/11/2014	9009-2536
CERNEX	CBLU1183540 / POWER AMP	Annual	07/24/2014	21691
Agilent	8493C / Attenuator(10 dB)	Annual	07/24/2014	76649
WEINSCHTEL	2-3 / Attenuator(3 dB)	Annual	11/07/2013	BR0617

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