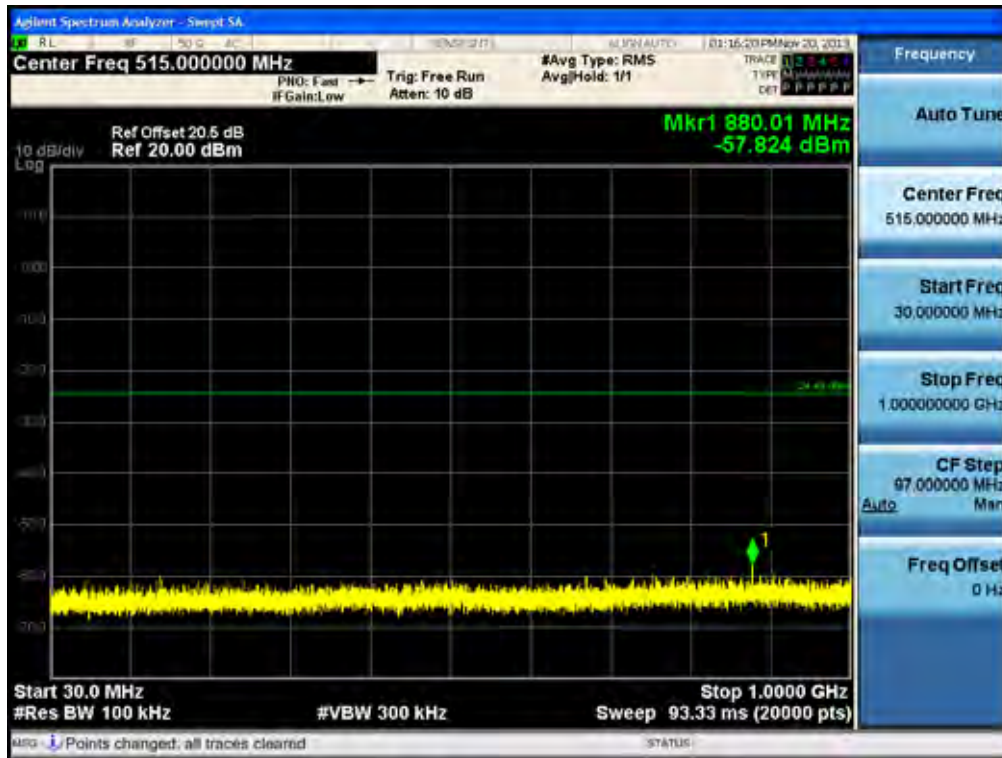


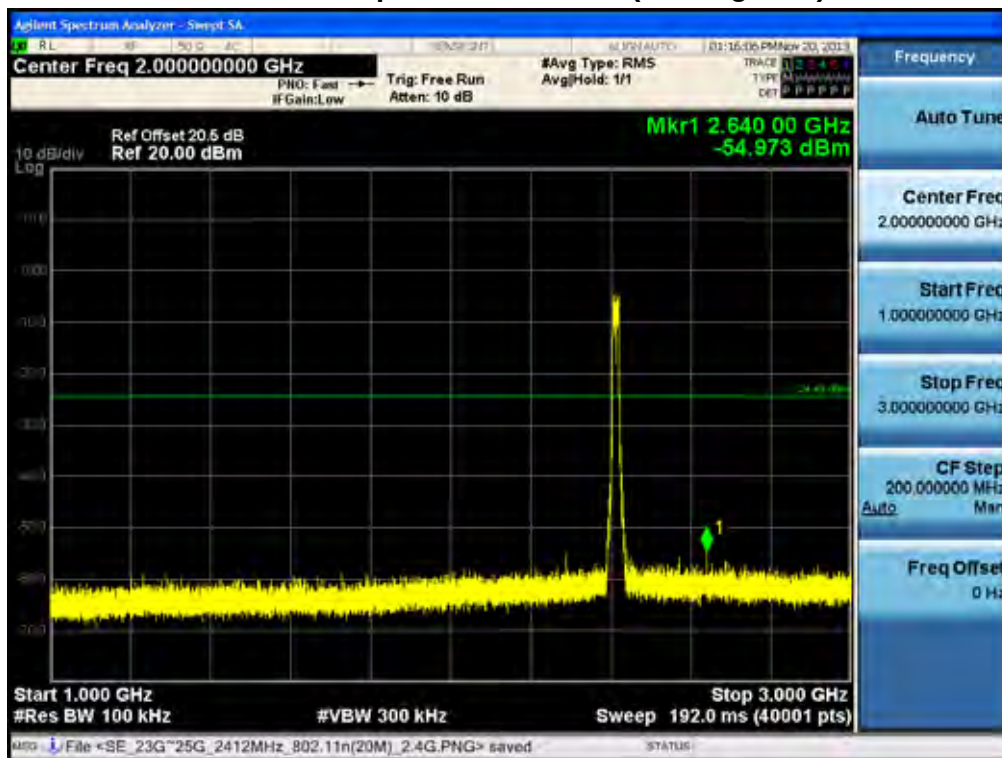
Monitoring Port Ant.2
30 MHz ~ 1 GHz

Conducted Spurious Emission (802.11g-CH1)



1 GHz ~ 3 GHz

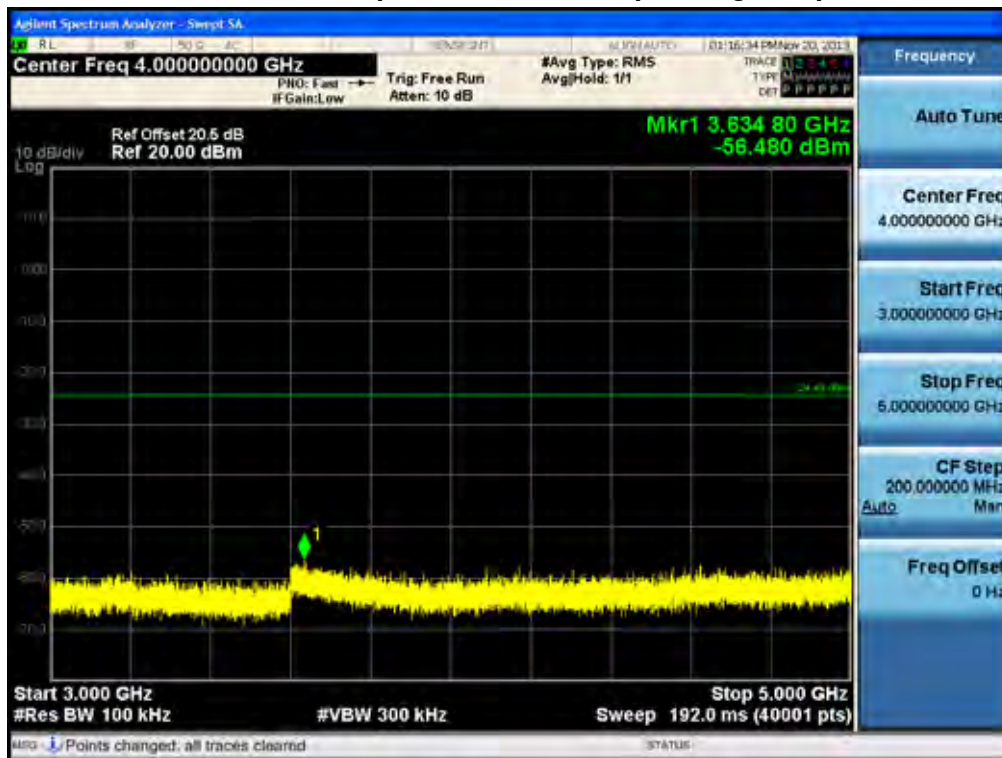
Conducted Spurious Emission (802.11g-CH1)



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1312FR13-1	Date of Issue: January 02,2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA303I

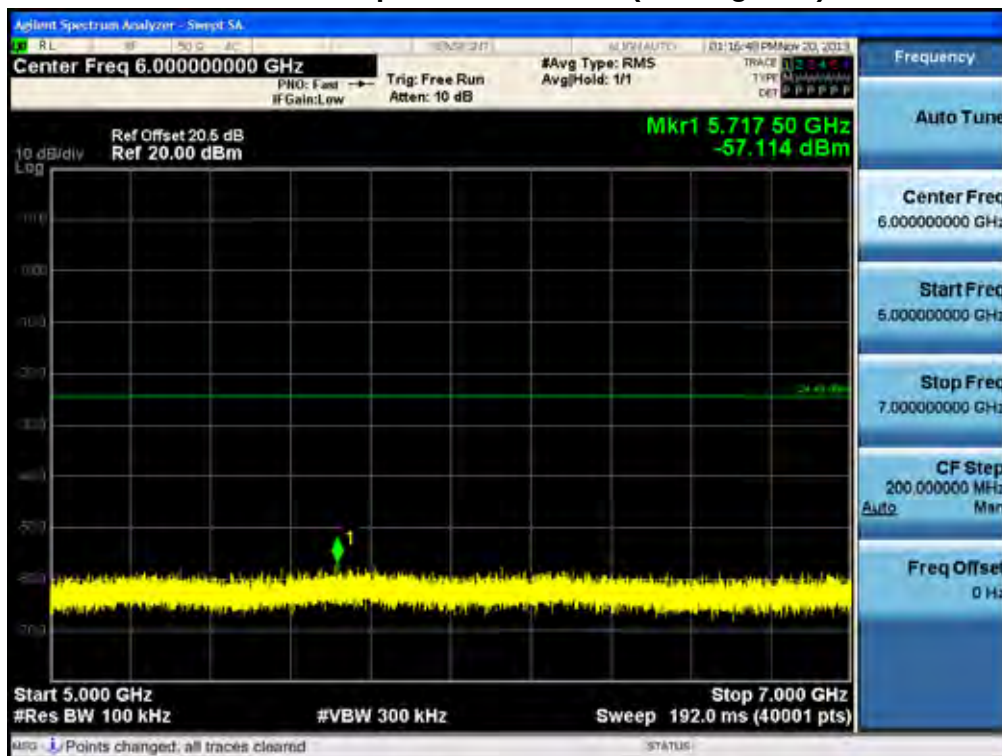
3 GHz ~ 5 GHz

Conducted Spurious Emission (802.11g-CH1)



5 GHz ~ 7 GHz

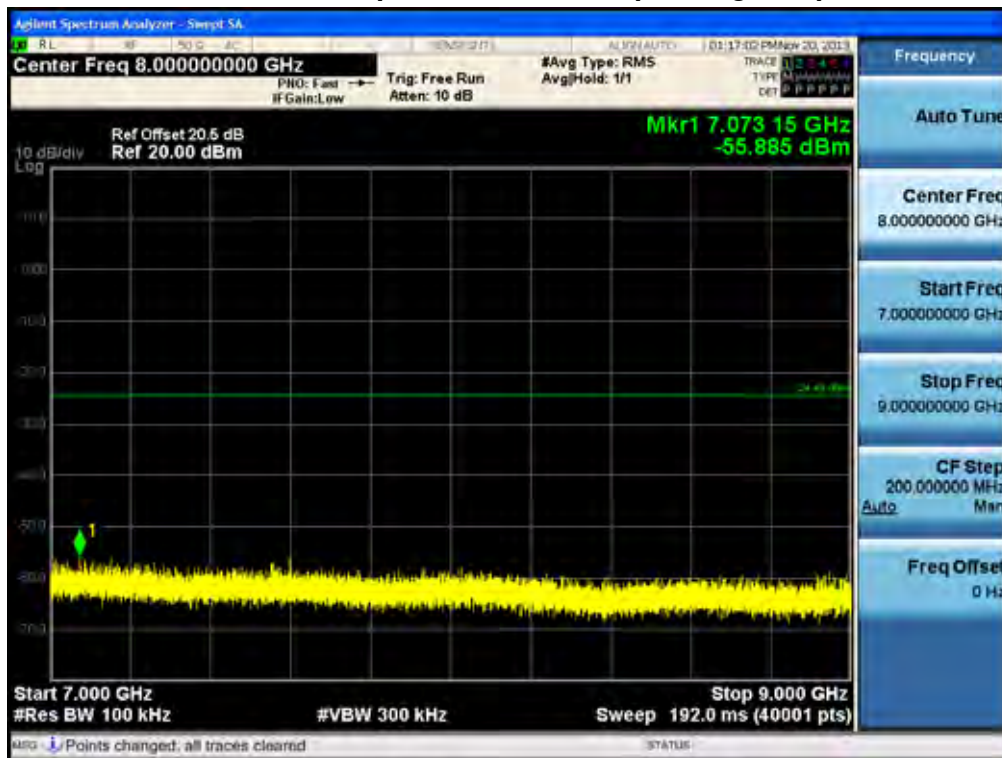
Conducted Spurious Emission (802.11g-CH1)



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1312FR13-1	Date of Issue: January 02, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA303I

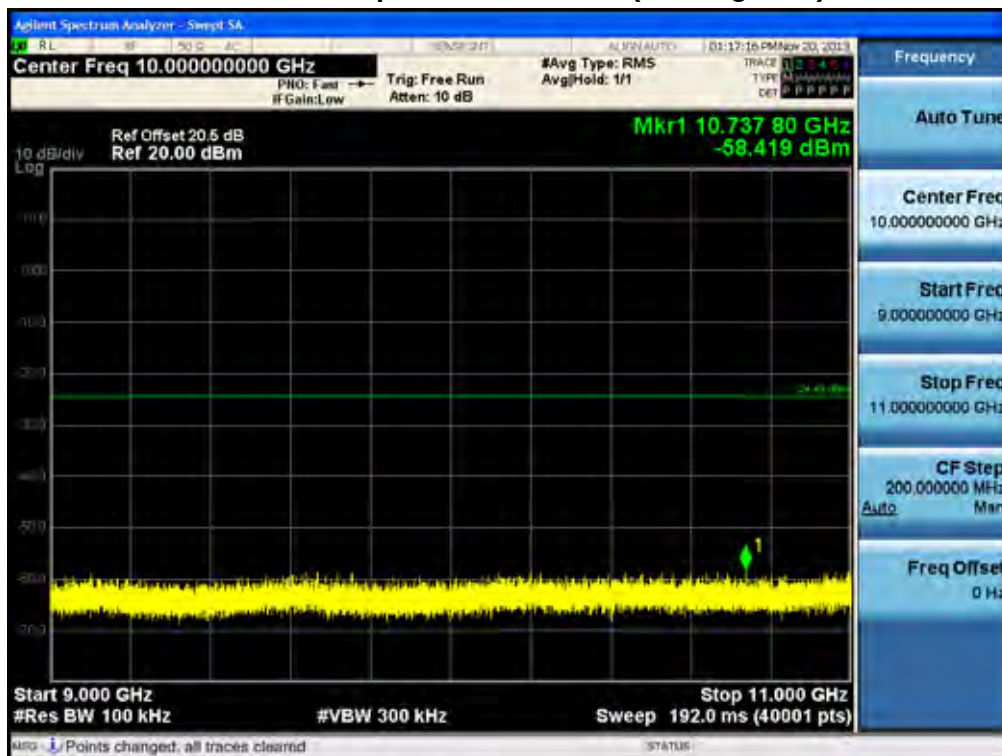
7 GHz ~ 9 GHz

Conducted Spurious Emission (802.11g-CH1)



9 GHz ~ 11 GHz

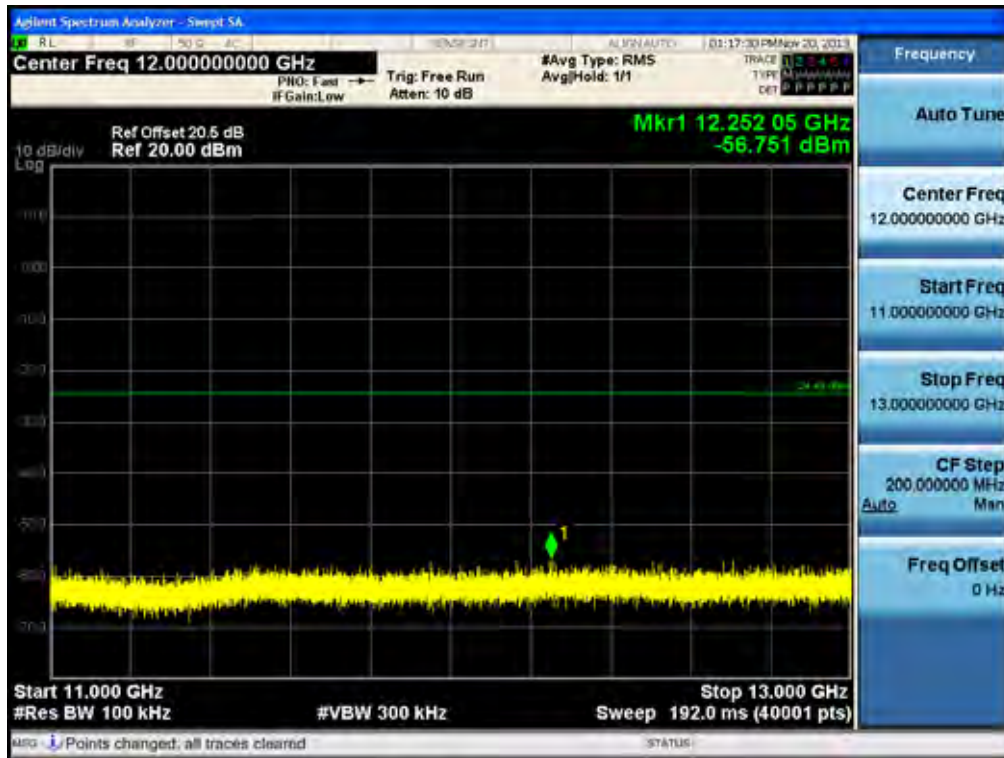
Conducted Spurious Emission (802.11g-CH1)



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1312FR13-1	Date of Issue: January 02, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA303I

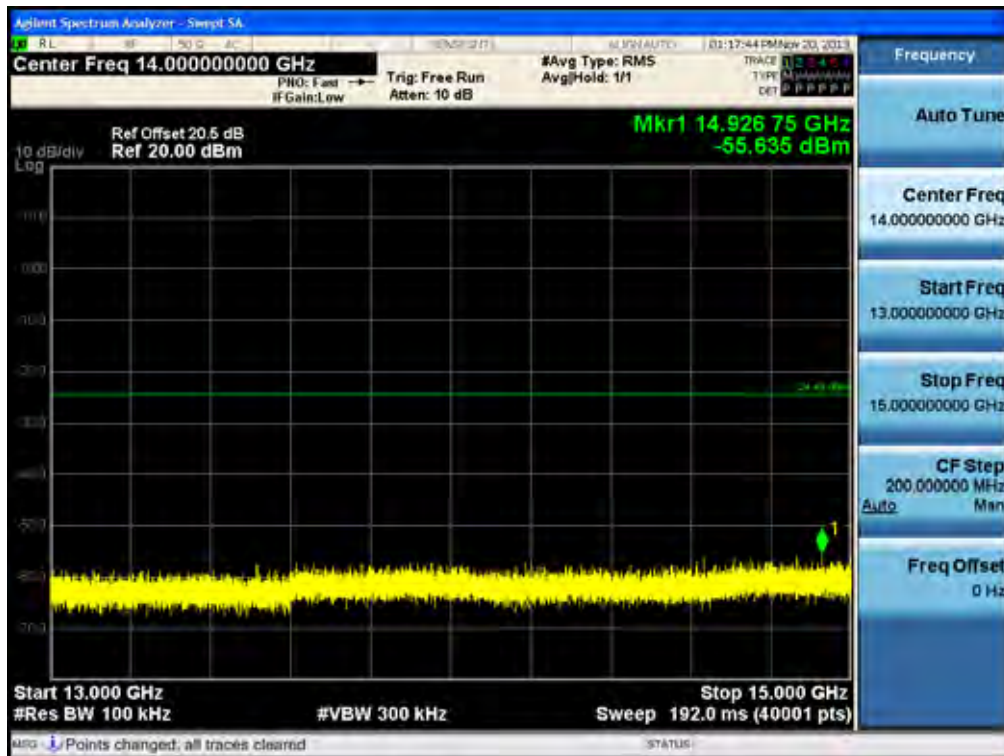
11 GHz ~ 13 GHz

Conducted Spurious Emission (802.11g-CH1)



13 GHz ~ 15 GHz

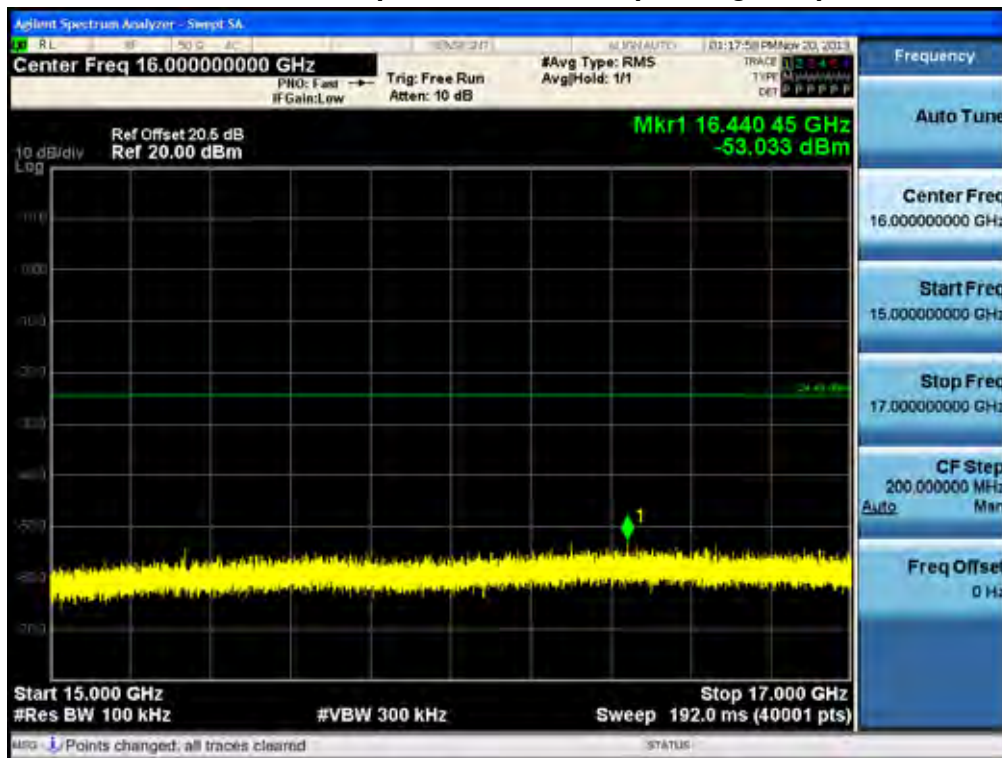
Conducted Spurious Emission (802.11g-CH1)



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1312FR13-1	Date of Issue: January 02, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA303I

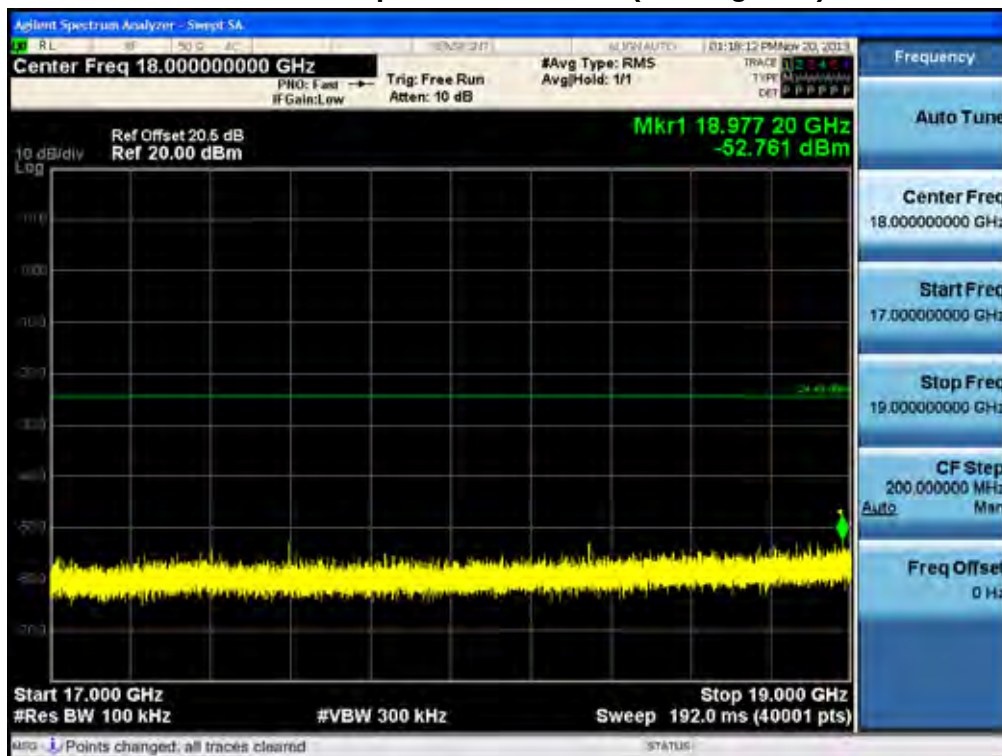
15 GHz ~ 17 GHz

Conducted Spurious Emission (802.11g-CH1)



17 GHz ~ 19 GHz

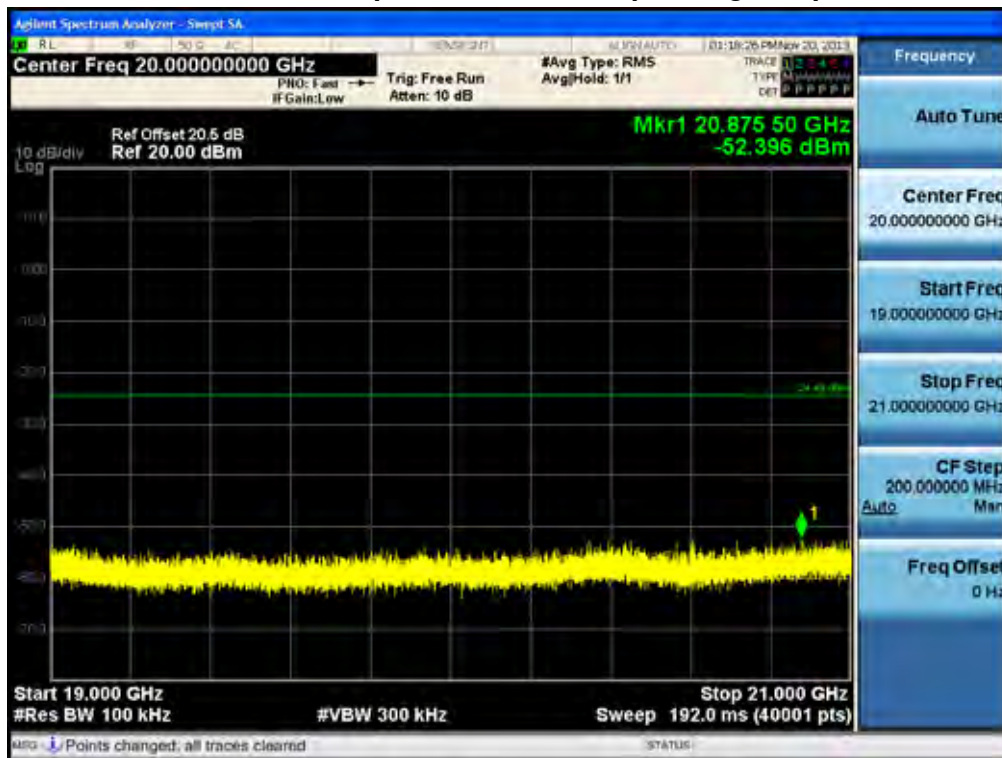
Conducted Spurious Emission (802.11g-CH1)



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1312FR13-1	Date of Issue: January 02, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA303I

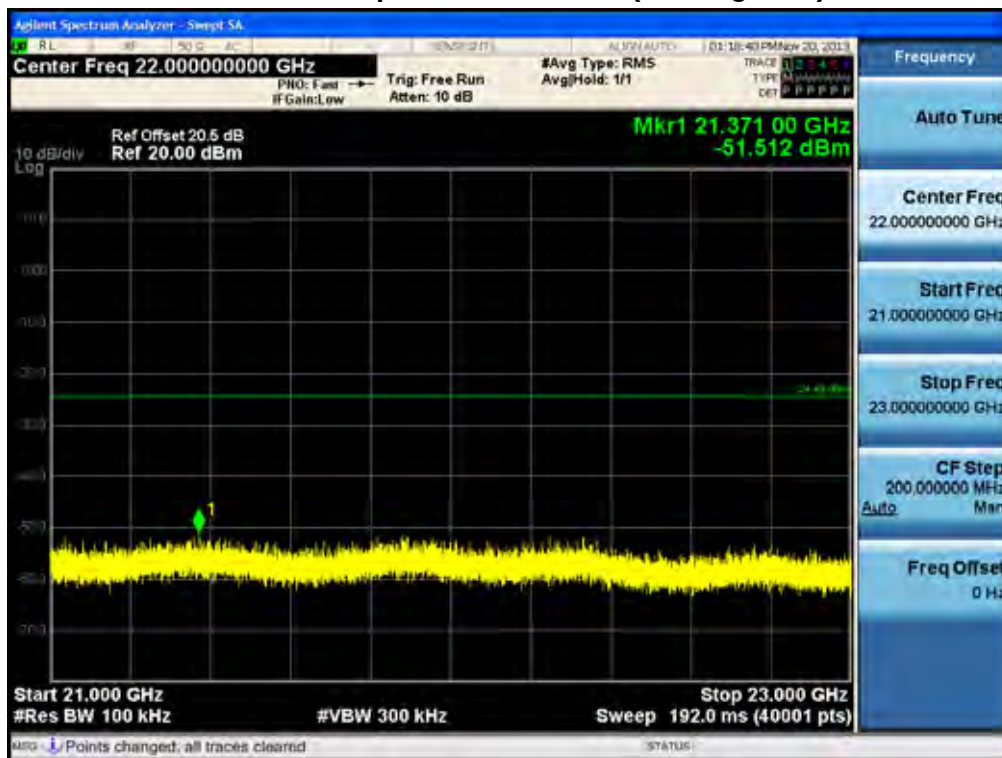
19 GHz ~ 21 GHz

19nducted Spurious Emission (802.11g-CH1)



21 GHz ~ 23 GHz

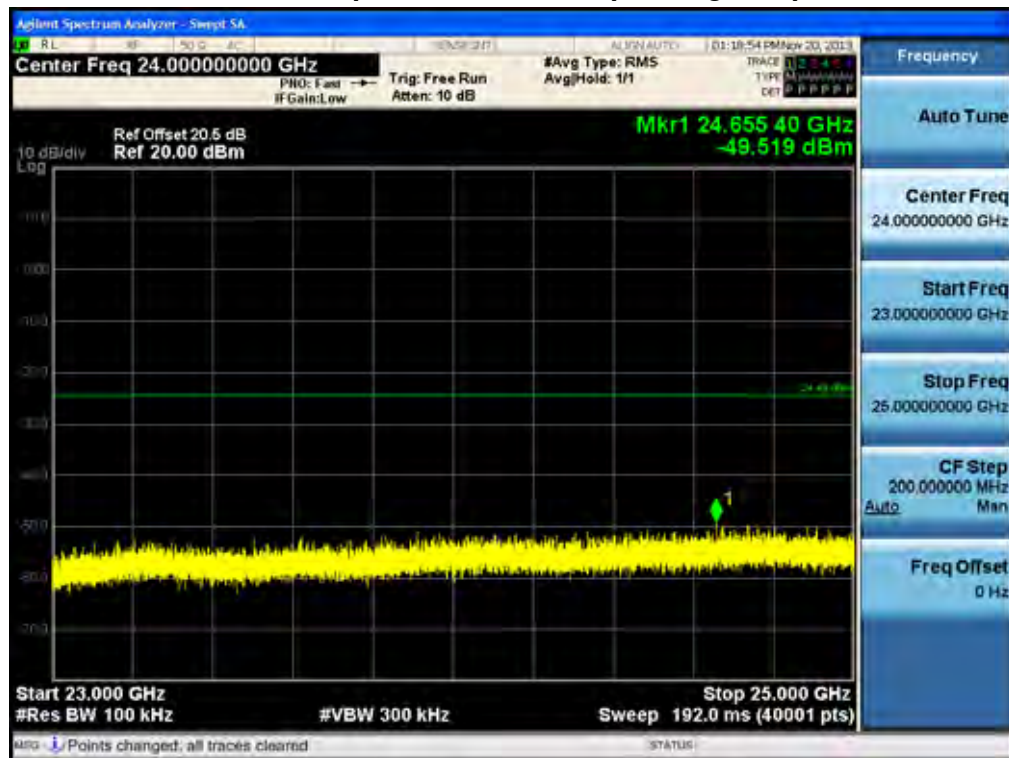
Conducted Spurious Emission (802.11g-CH1)



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1312FR13-1	Date of Issue: January 02, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA303I

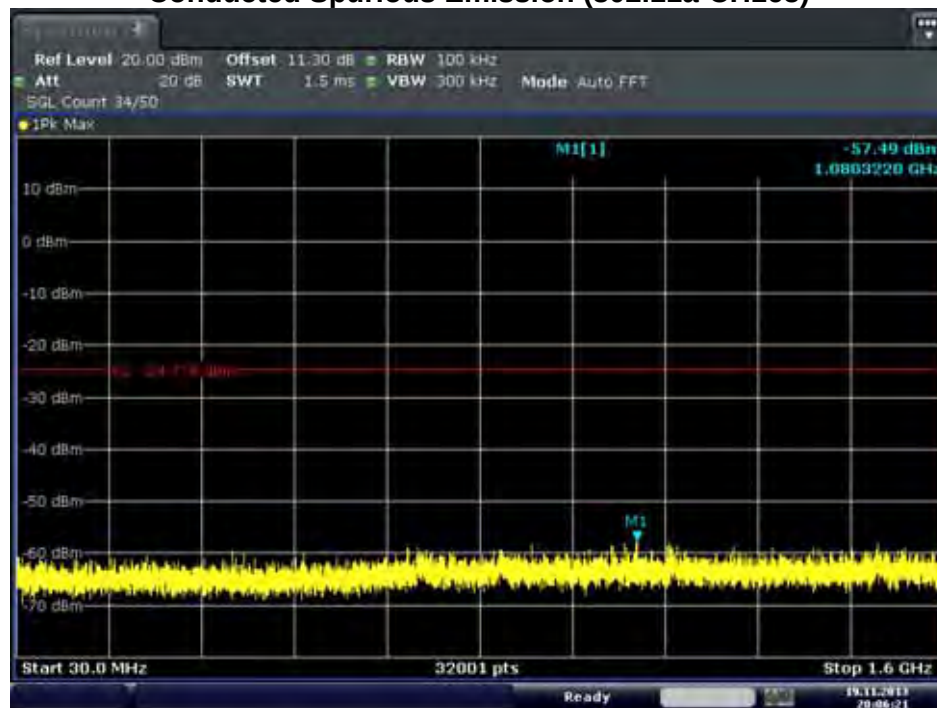
23 GHz ~ 25 GHz

Conducted Spurious Emission (802.11g-CH1)



30 MHz ~ 1.6 GHz

Conducted Spurious Emission (802.11a-CH165)

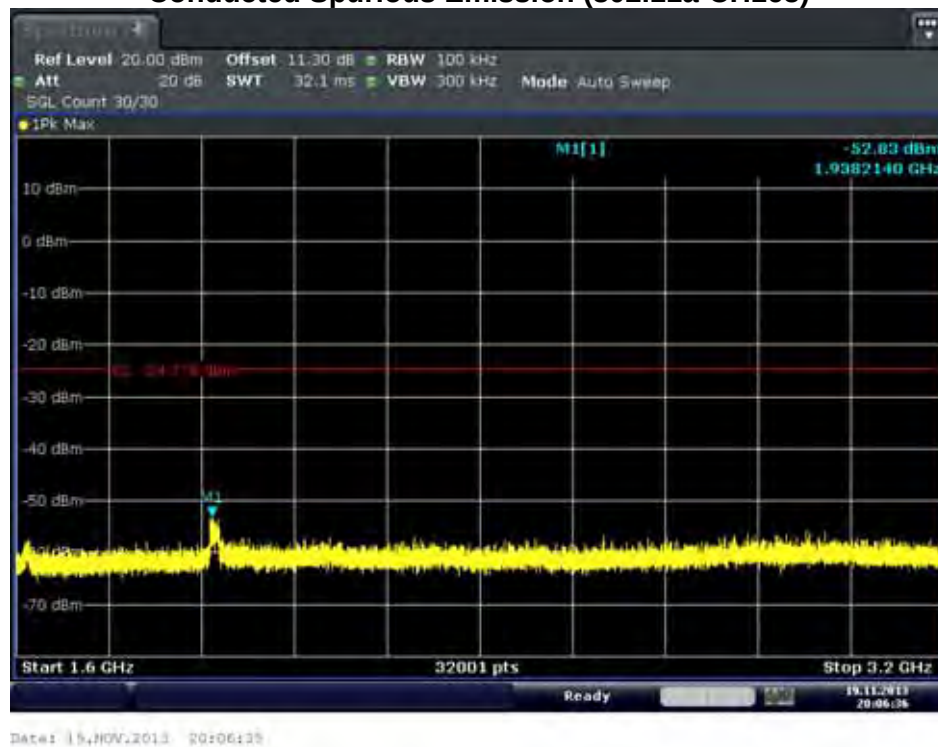


Date: 15, NOV, 2013 20:06:21

FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1312FR13-1	Date of Issue: January 02, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA303I

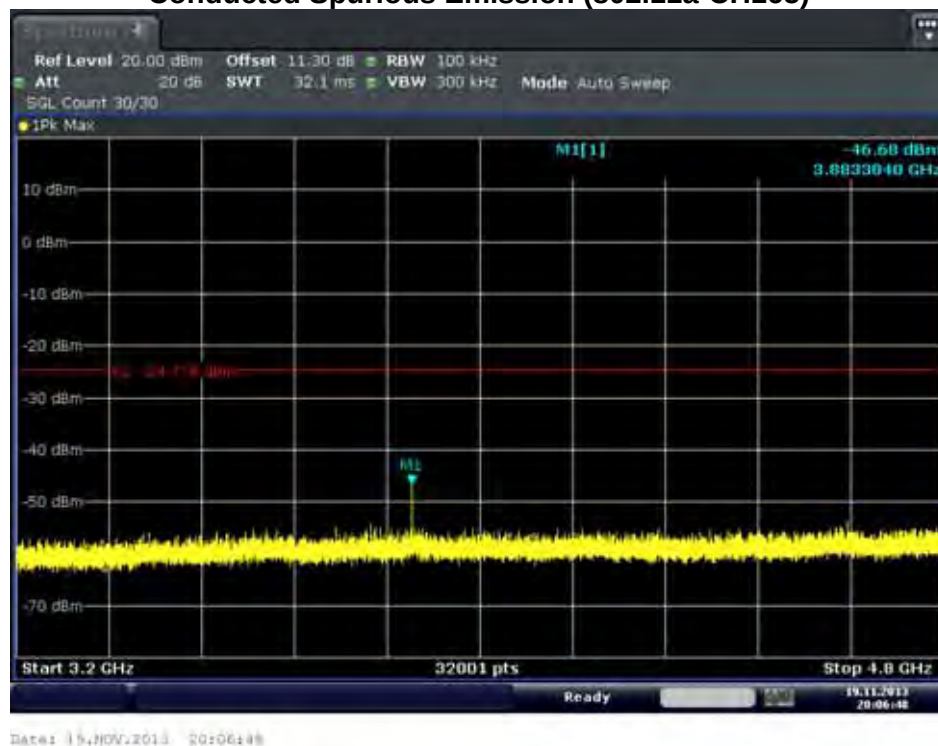
1.6 GHz ~ 3.2 GHz

Conducted Spurious Emission (802.11a-CH165)



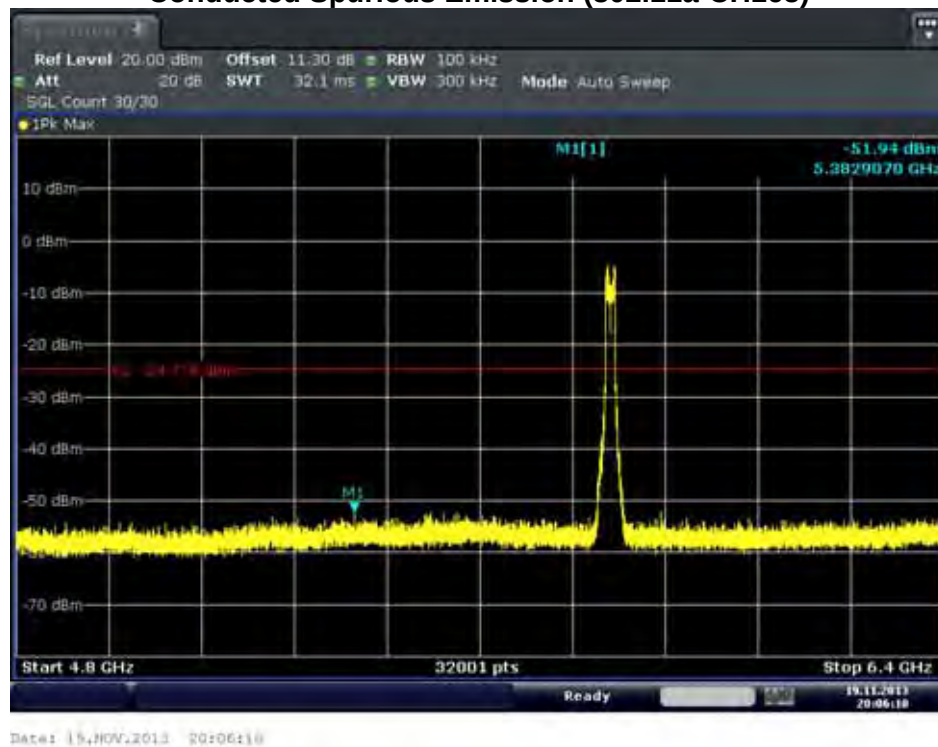
3.2 GHz ~ 4.8 GHz

Conducted Spurious Emission (802.11a-CH165)



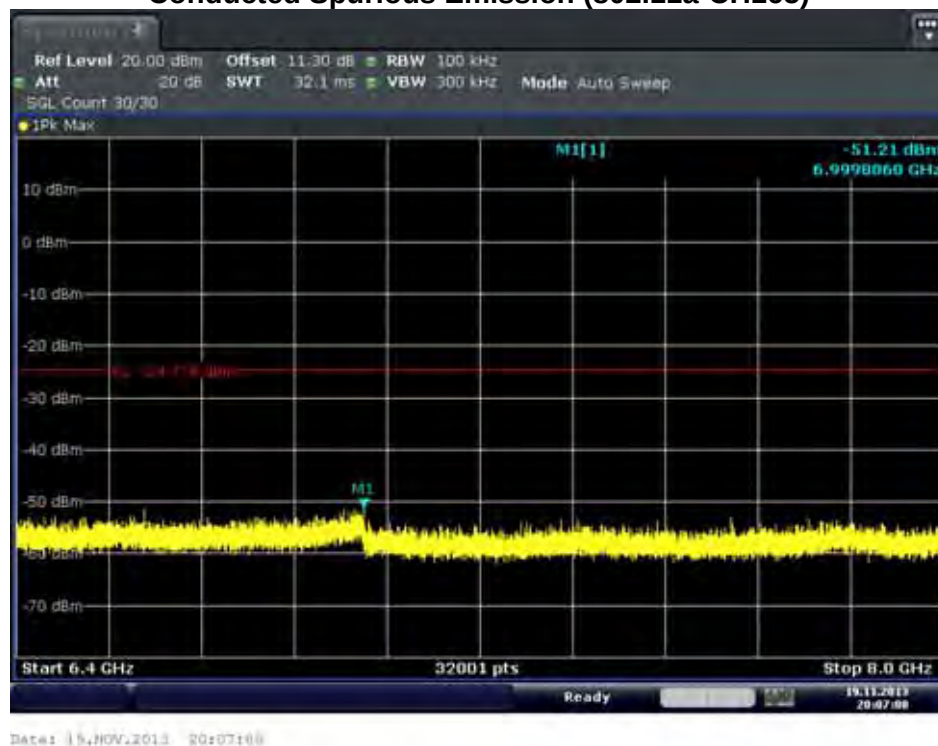
4.8 GHz ~ 6.4 GHz

Conducted Spurious Emission (802.11a-CH165)



6.4 GHz ~ 8 GHz

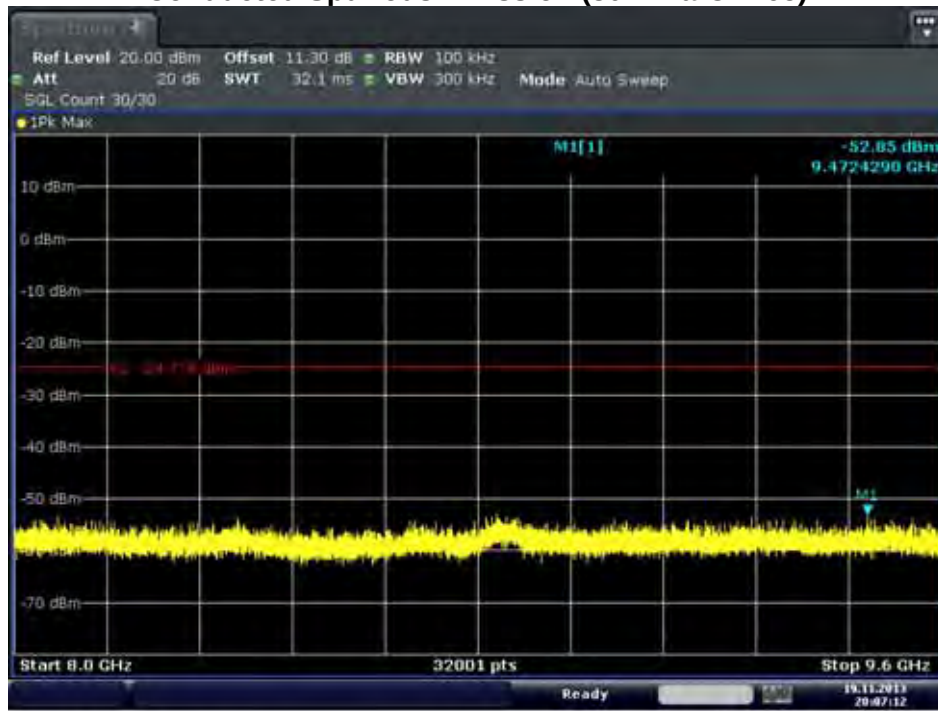
Conducted Spurious Emission (802.11a-CH165)



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1312FR13-1	Date of Issue: January 02, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA303I

8 GHz ~ 9.6 GHz

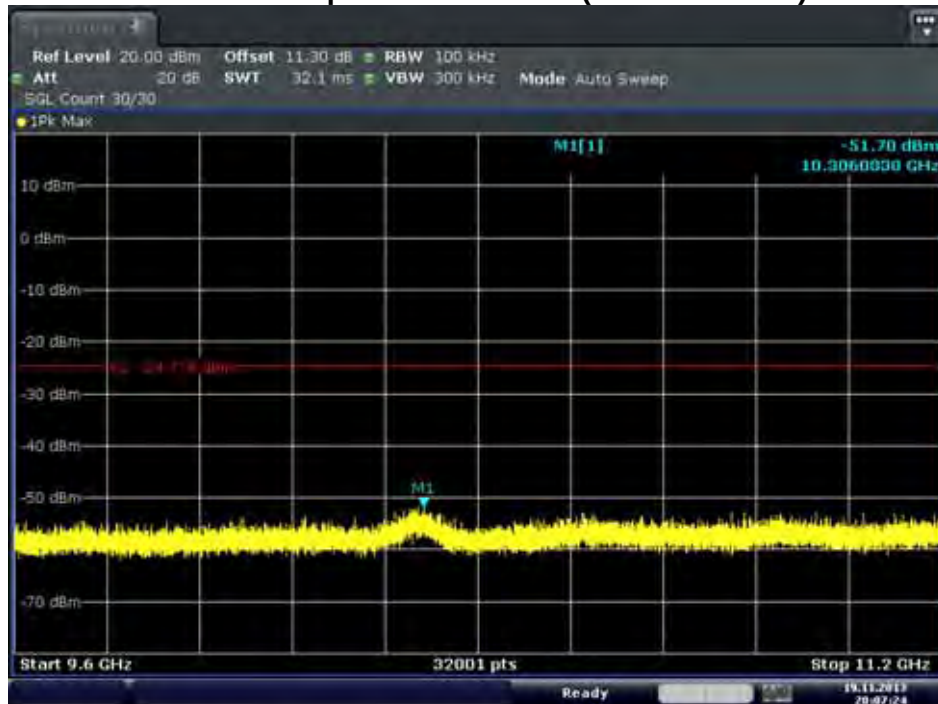
Conducted Spurious Emission (802.11a-CH165)



Date: 19, NOV, 2013 20:07:12

9.6 GHz ~ 11.2 GHz

Conducted Spurious Emission (802.11a-CH165)

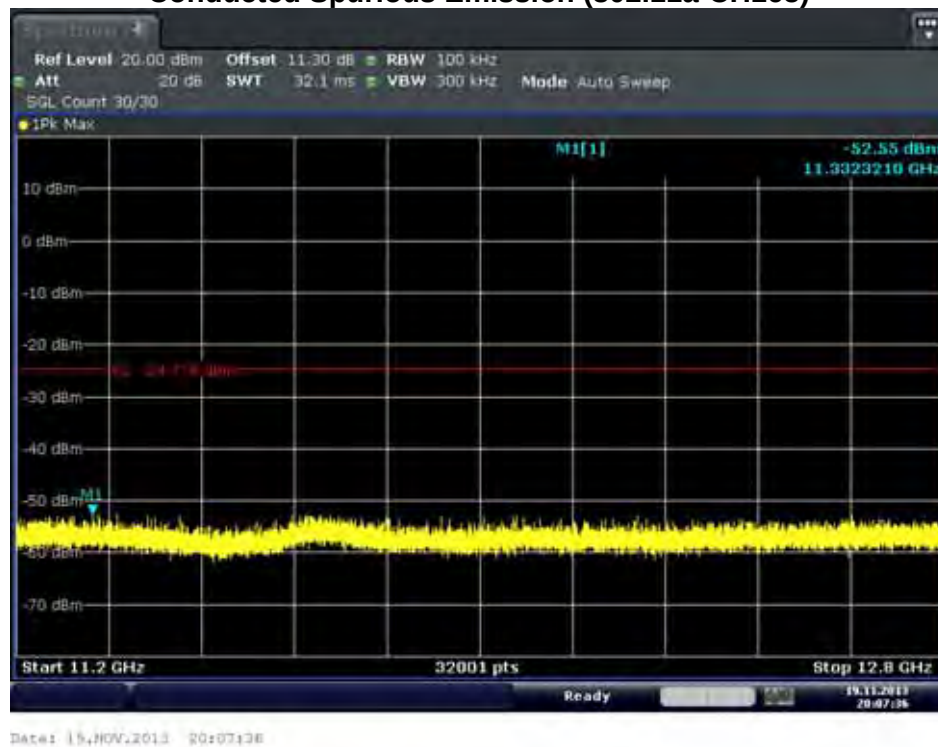


Date: 19, NOV, 2013 20:07:24

FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1312FR13-1	Date of Issue: January 02, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA303I

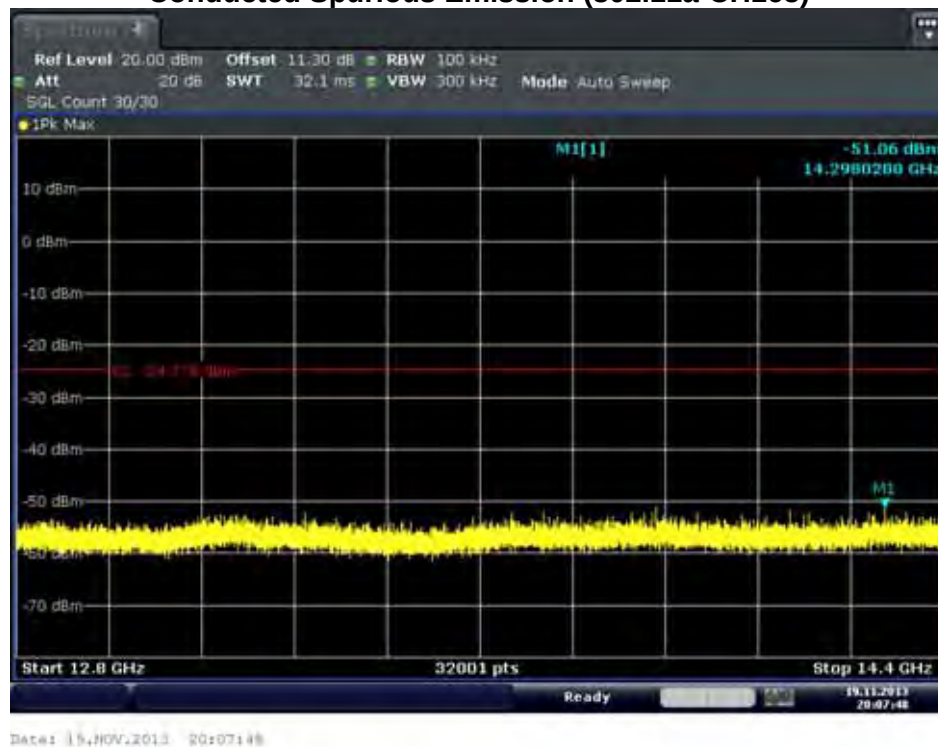
11.2 GHz ~ 12.8 GHz

Conducted Spurious Emission (802.11a-CH165)



12.8 GHz ~ 12.8 GHz

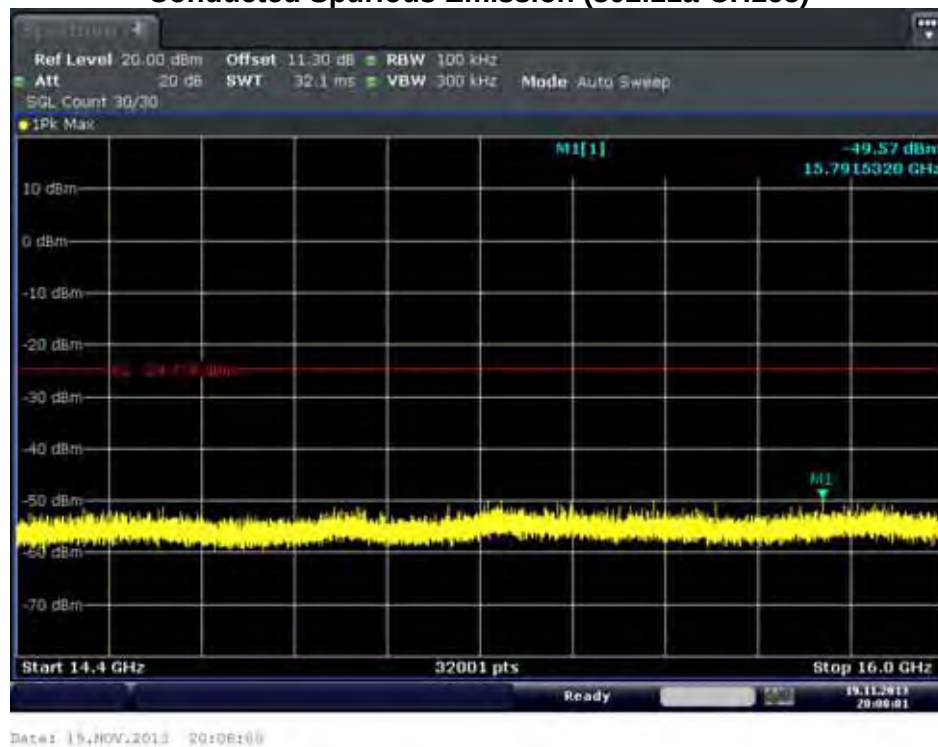
Conducted Spurious Emission (802.11a-CH165)



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1312FR13-1	Date of Issue: January 02, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA303I

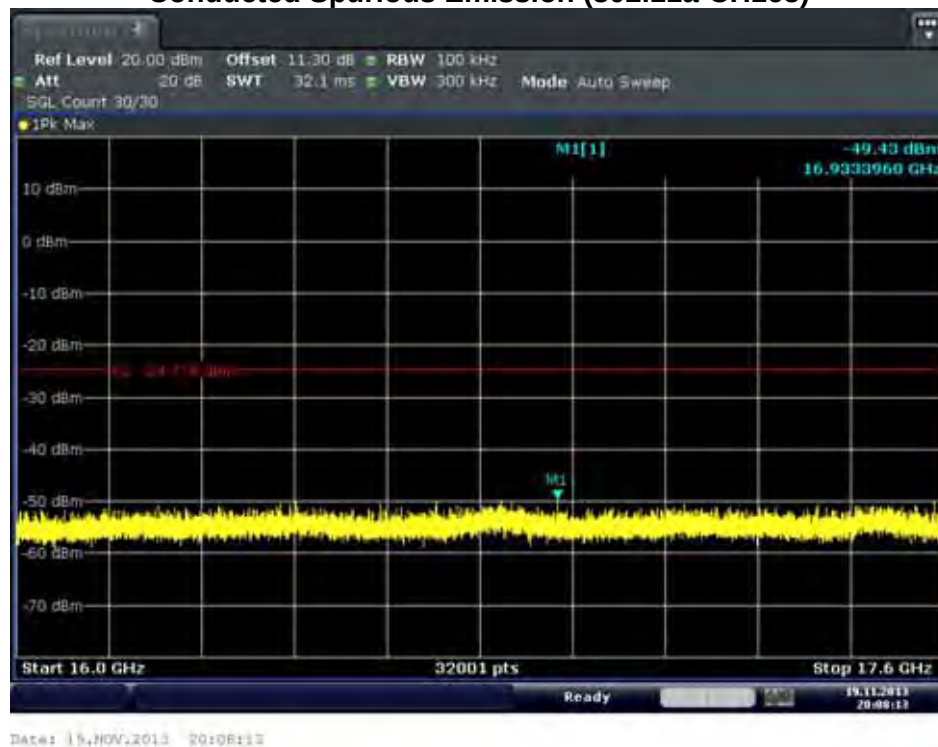
14.4 GHz ~ 16 GHz

Conducted Spurious Emission (802.11a-CH165)



16 GHz ~ 17.6 GHz

Conducted Spurious Emission (802.11a-CH165)



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1312FR13-1	Date of Issue: January 02, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA303I

17.6 GHz ~ 19.2 GHz

Conducted Spurious Emission (802.11a-CH165)



19.2 GHz ~ 20.8 GHz

Conducted Spurious Emission (802.11a-CH165)



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1312FR13-1	Date of Issue: January 02, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA303I

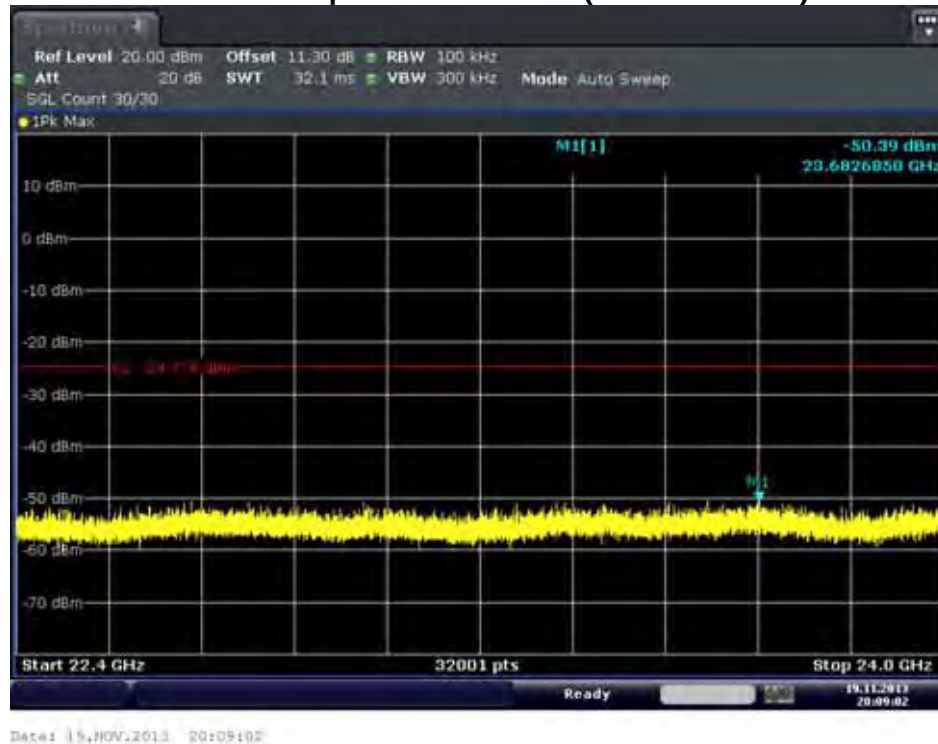
20.8 GHz ~ 22.4 GHz

Conducted Spurious Emission (802.11a-CH165)



22.4 GHz ~ 24 GHz

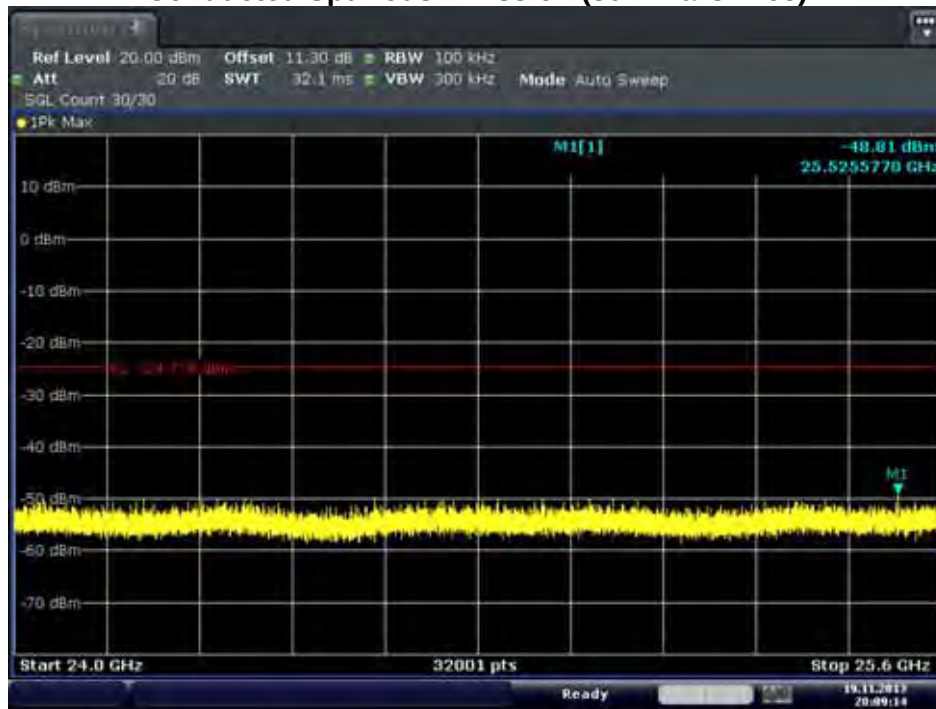
Conducted Spurious Emission (802.11a-CH165)



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1312FR13-1	Date of Issue: January 02, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA303I

24 GHz ~ 25.6 GHz

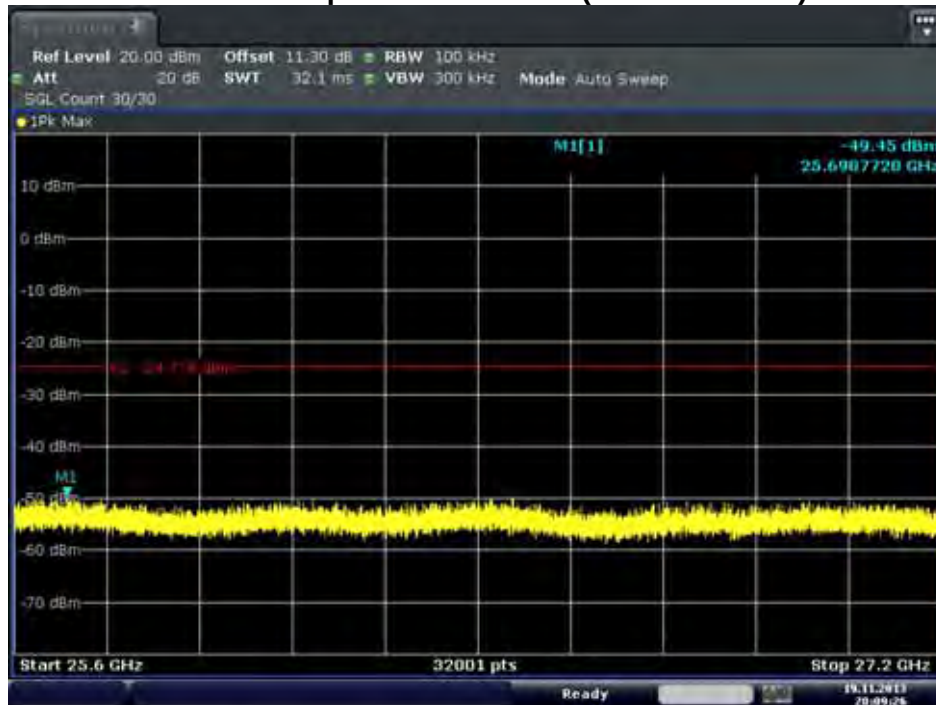
Conducted Spurious Emission (802.11a-CH165)



Date: 15, NOV, 2013 20:09:14

25.6 GHz ~ 27.2 GHz

Conducted Spurious Emission (802.11a-CH165)

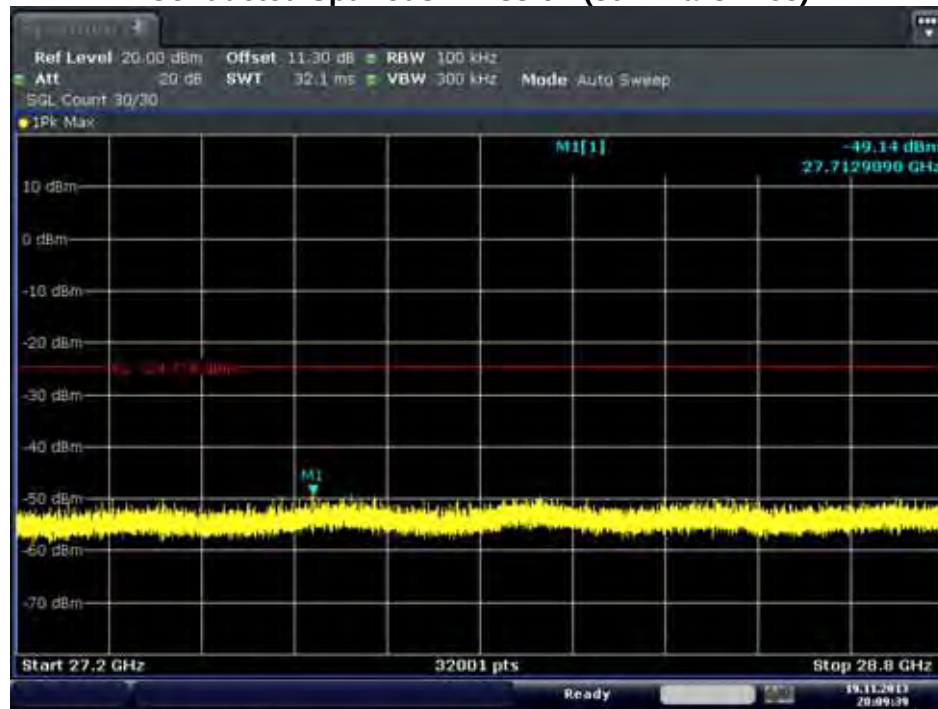


Date: 15, NOV, 2013 20:09:26

FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1312FR13-1	Date of Issue: January 02, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA303I

27.2 GHz ~ 28.8 GHz

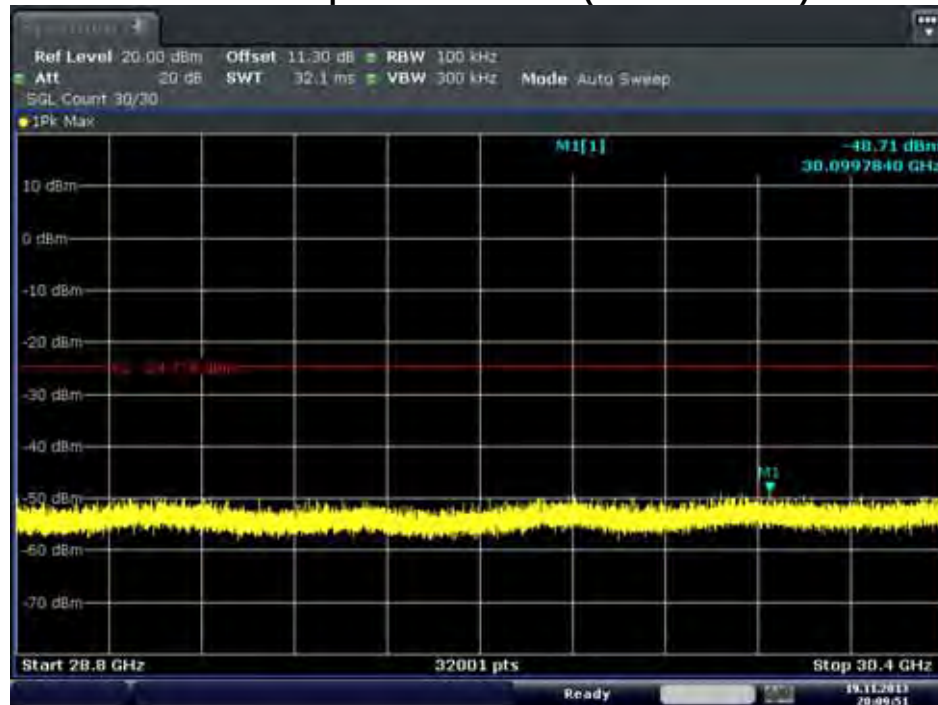
Conducted Spurious Emission (802.11a-CH165)



Date: 15, NOV, 2013 20:09:35

28.8 GHz ~ 30.4 GHz

Conducted Spurious Emission (802.11a-CH165)

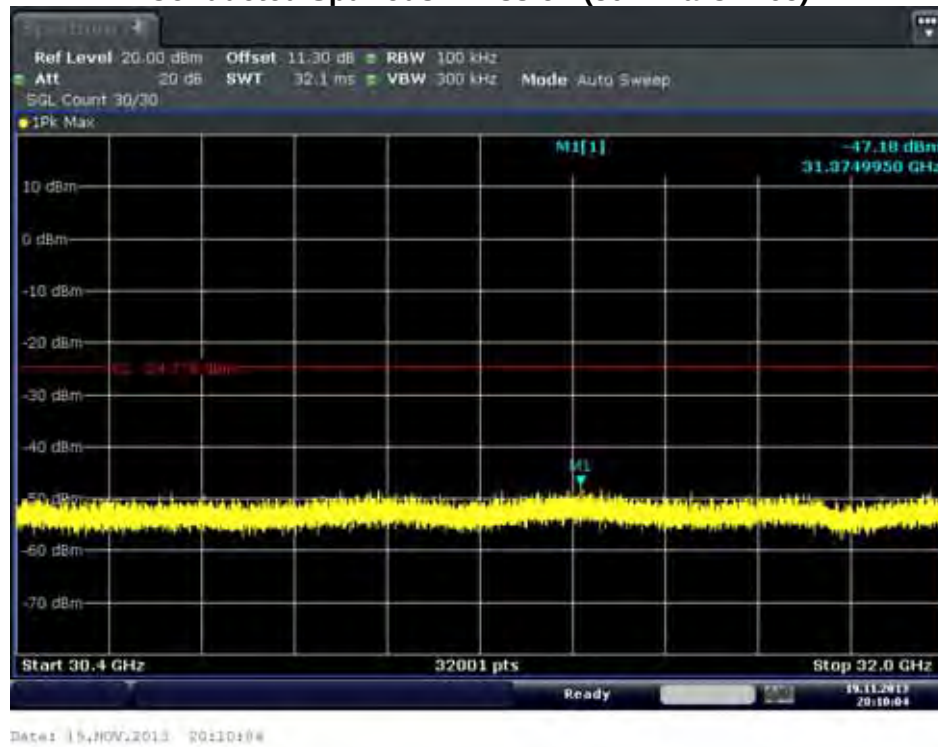


Date: 15, NOV, 2013 20:09:51

FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1312FR13-1	Date of Issue: January 02, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA303I

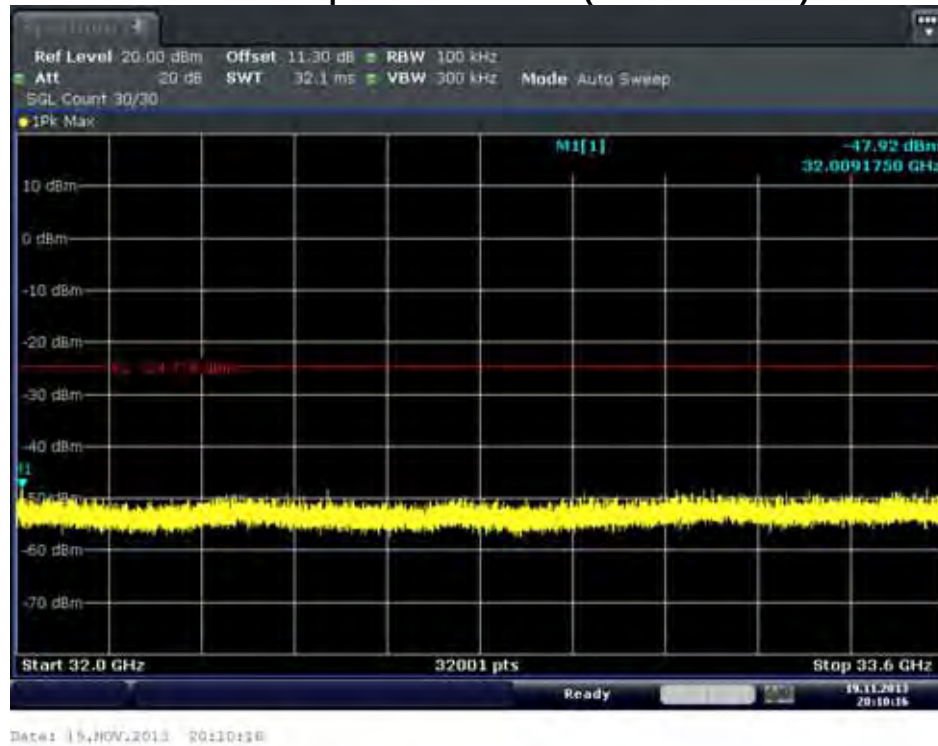
30.4 GHz ~ 32 GHz

Conducted Spurious Emission (802.11a-CH165)



32 GHz ~ 33.6 GHz

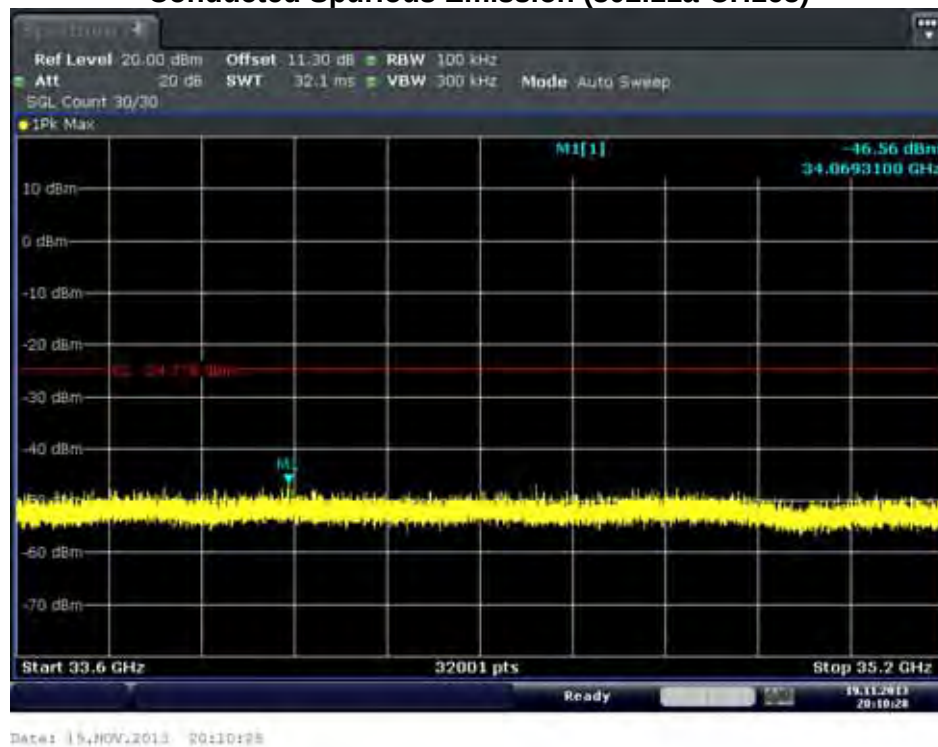
Conducted Spurious Emission (802.11a-CH165)



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1312FR13-1	Date of Issue: January 02, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA303I

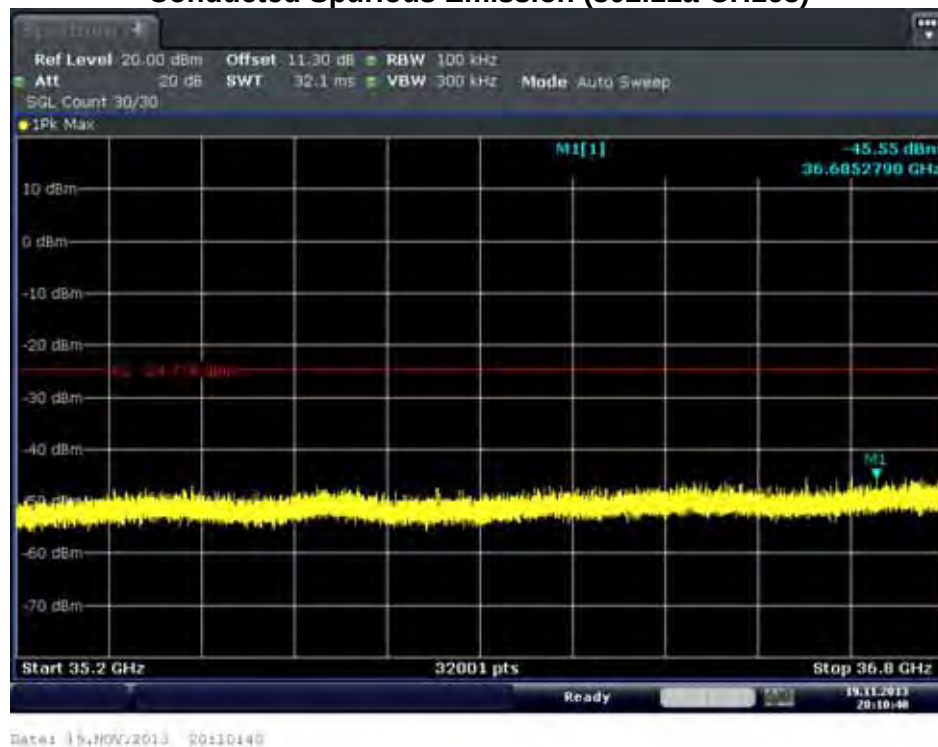
33.6 GHz ~ 35.2 GHz

Conducted Spurious Emission (802.11a-CH165)



35.2 GHz ~ 36.8 GHz

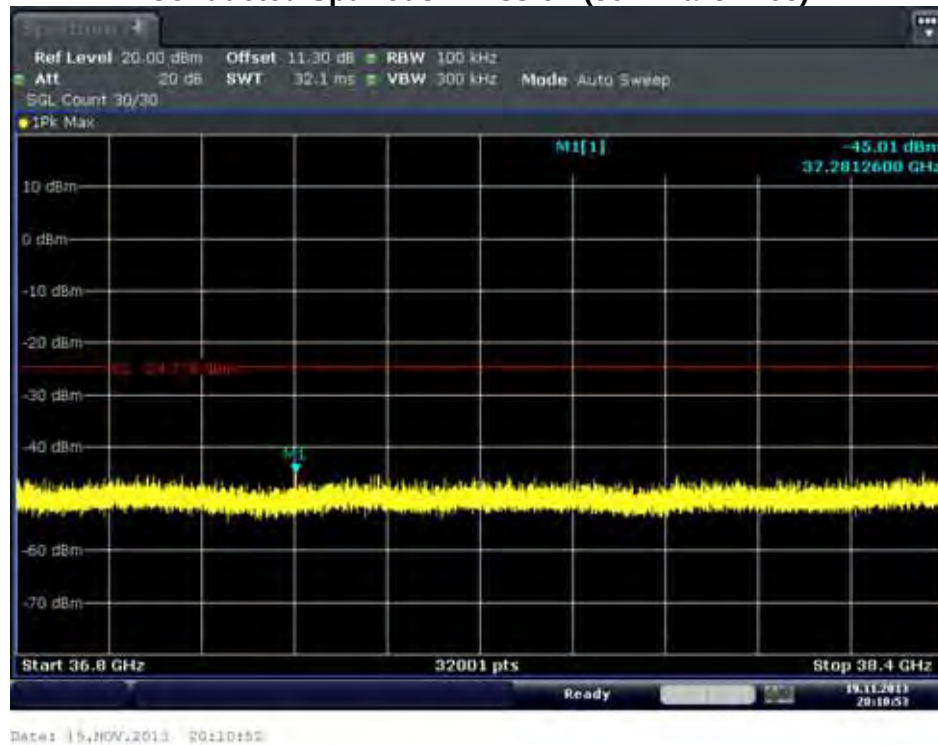
Conducted Spurious Emission (802.11a-CH165)



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1312FR13-1	Date of Issue: January 02, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA303I

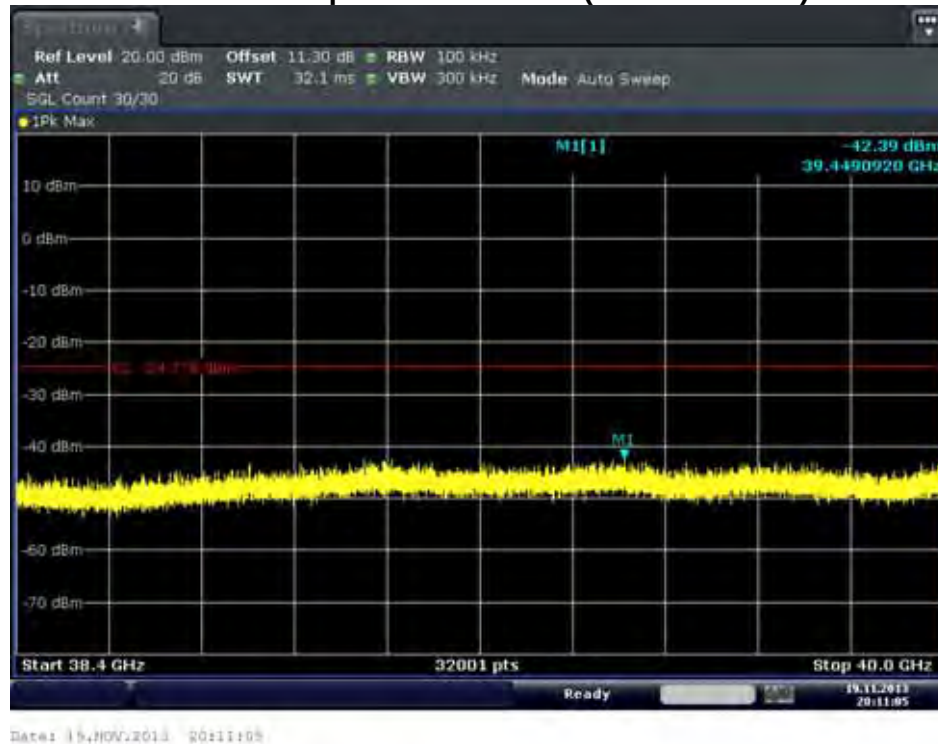
36.8 GHz ~ 38.4 GHz

Conducted Spurious Emission (802.11a-CH165)



38.4 GHz ~ 40 GHz

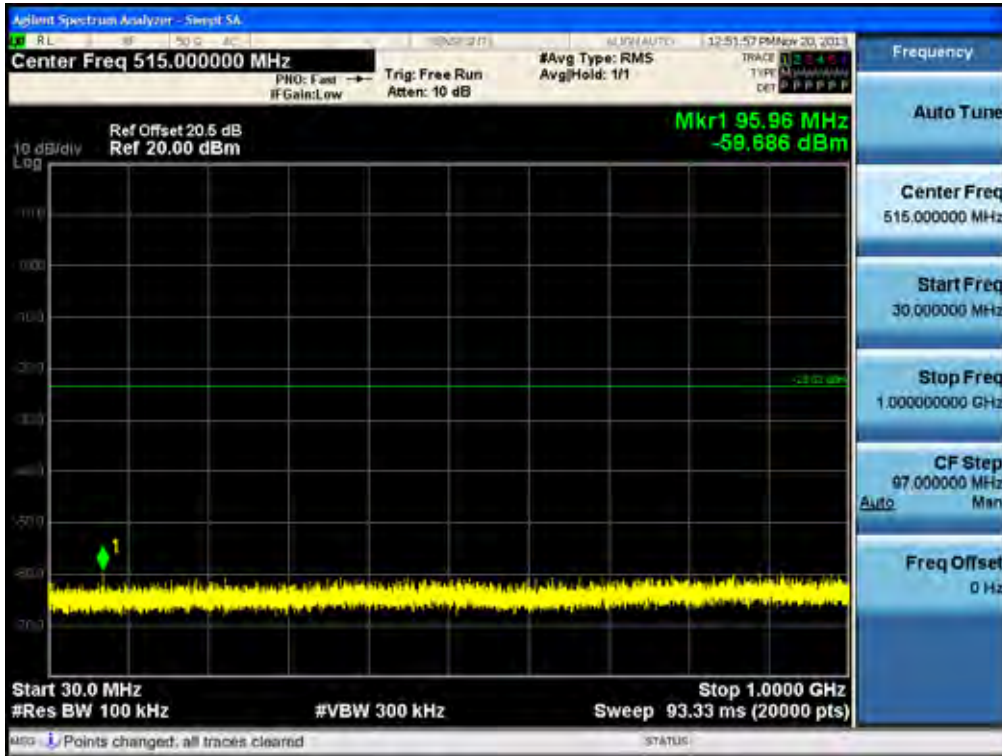
Conducted Spurious Emission (802.11a-CH165)



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1312FR13-1	Date of Issue: January 02, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA303I

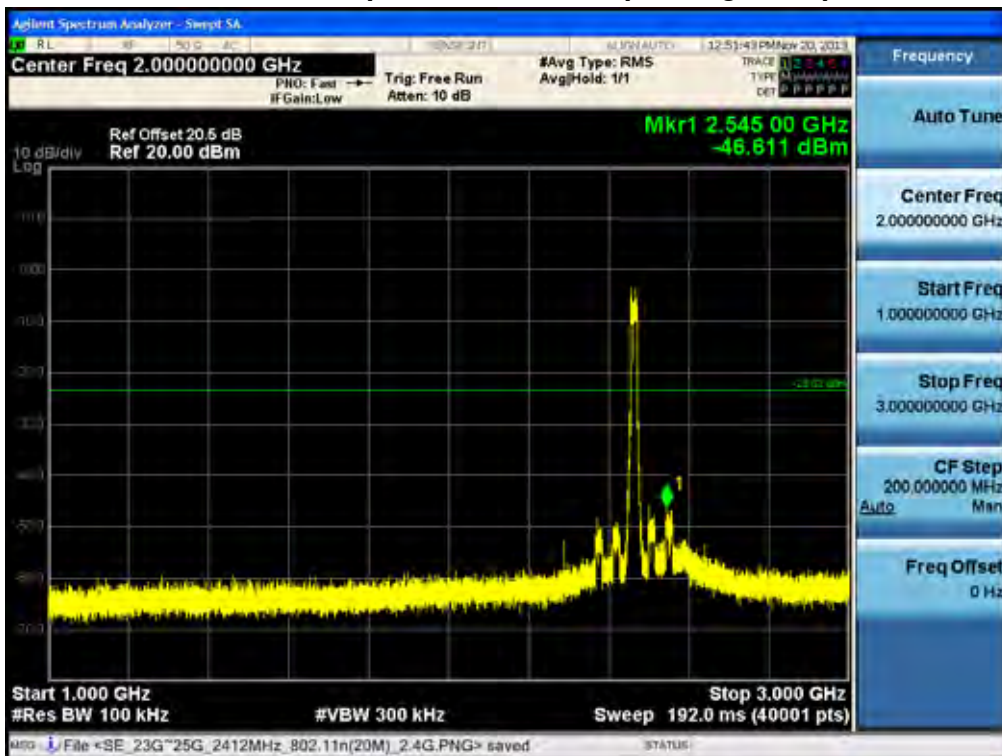
Service Port Ant.1
30 MHz ~ 1 GHz

Conducted Spurious Emission (802.11g-CH11)



1 GHz ~ 3 GHz

Conducted Spurious Emission (802.11g-CH11)



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1312FR13-1	Date of Issue: January 02, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA303I

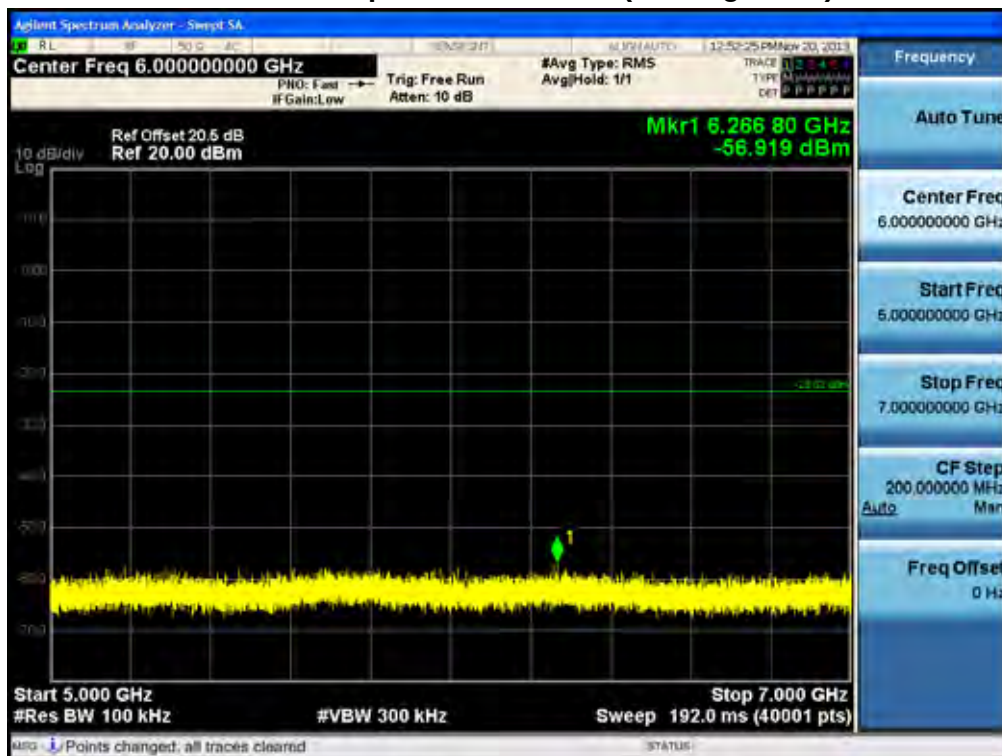
3 GHz ~ 5 GHz

Conducted Spurious Emission (802.11g-CH11)



5 GHz ~ 7 GHz

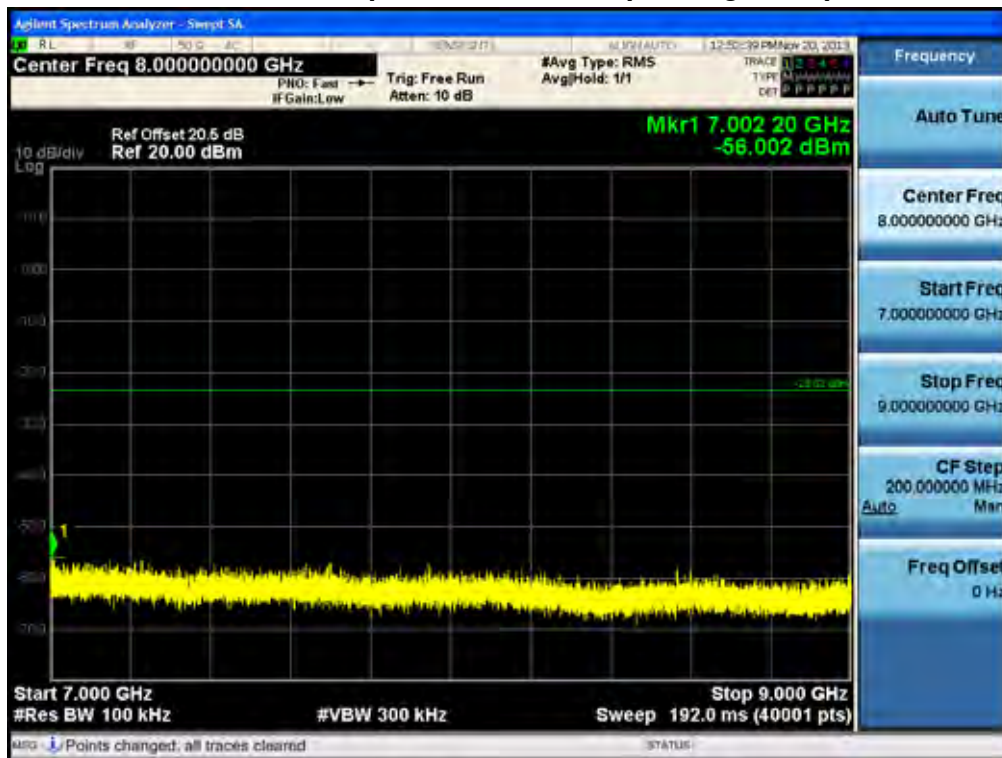
Conducted Spurious Emission (802.11g-CH11)



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1312FR13-1	Date of Issue: January 02, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA303I

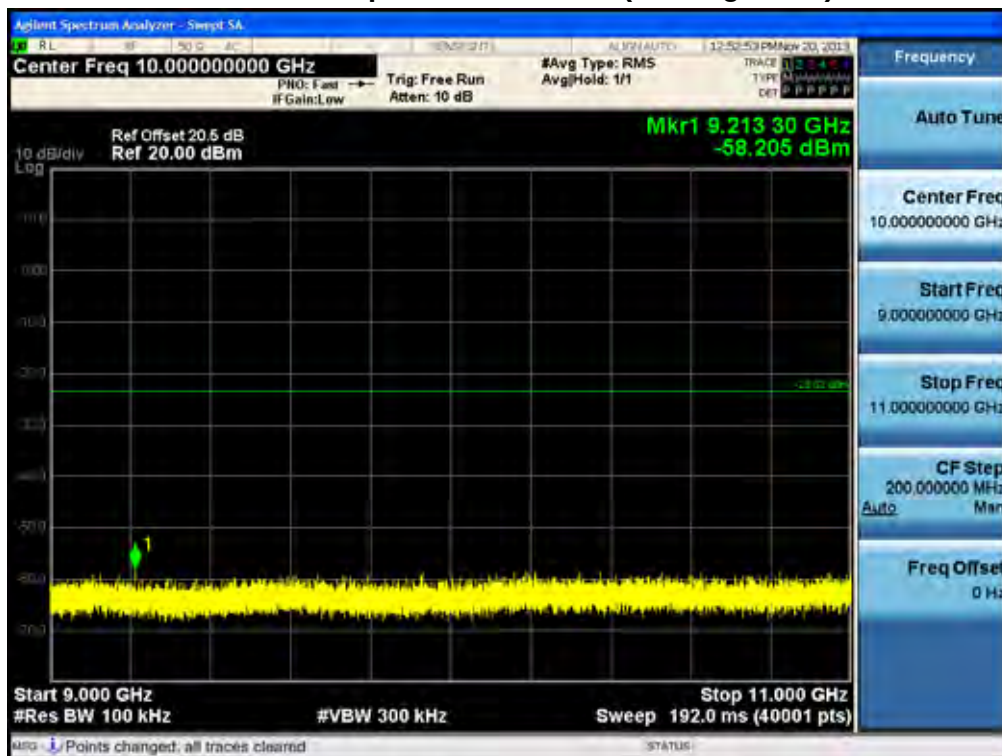
7 GHz ~ 9 GHz

Conducted Spurious Emission (802.11g-CH11)



9 GHz ~ 11 GHz

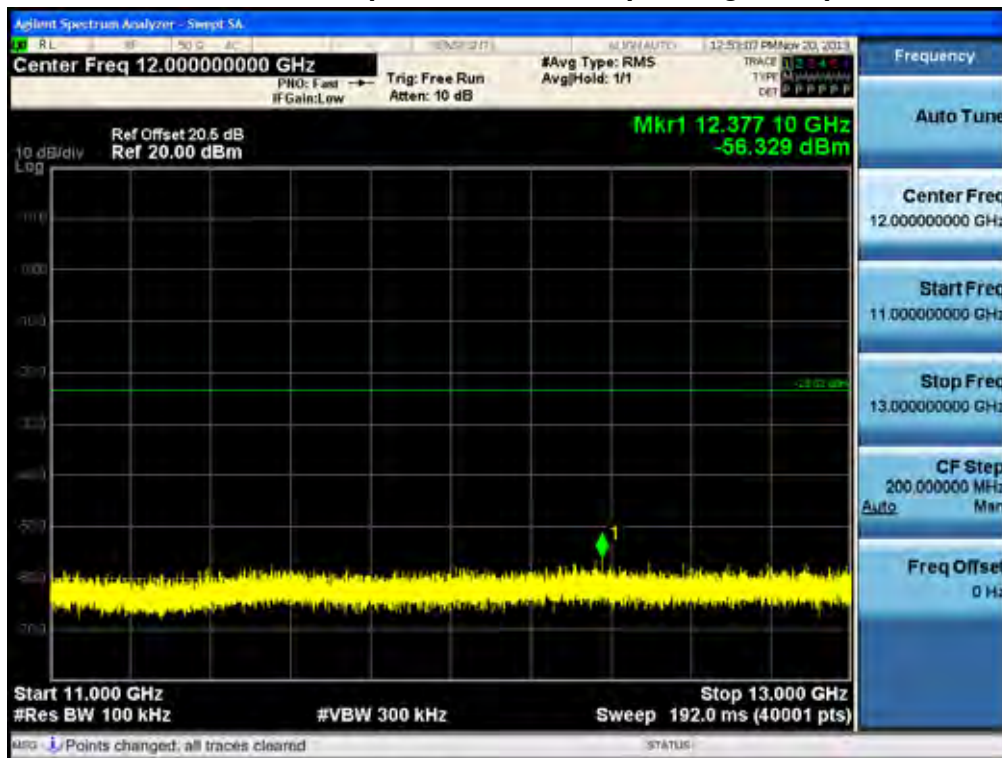
Conducted Spurious Emission (802.11g-CH11)



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1312FR13-1	Date of Issue: January 02, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA303I

11 GHz ~ 13 GHz

Conducted Spurious Emission (802.11g-CH11)



13 GHz ~ 15 GHz

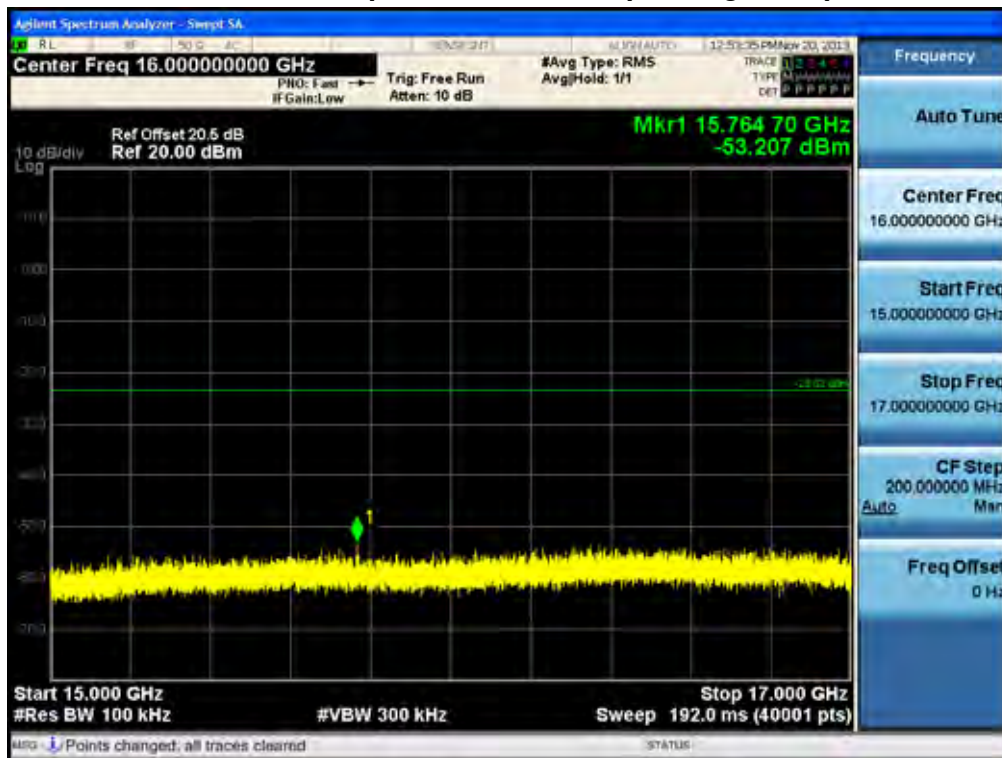
Conducted Spurious Emission (802.11g-CH11)



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1312FR13-1	Date of Issue: January 02, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA303I

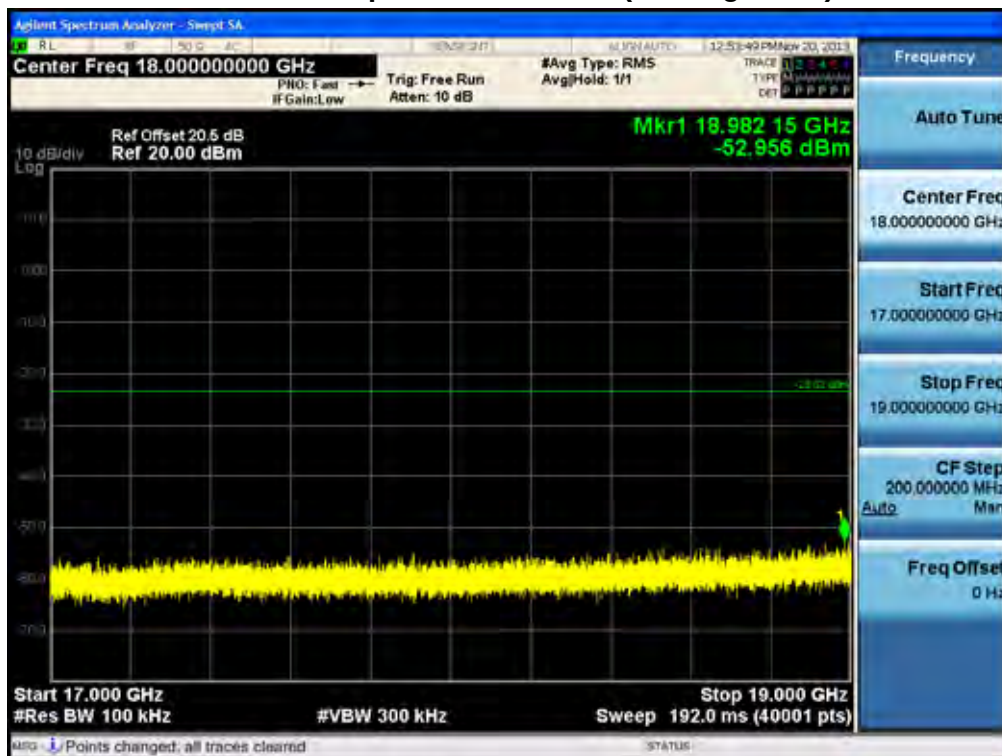
15 GHz ~ 17 GHz

Conducted Spurious Emission (802.11g-CH11)



17 GHz ~ 19 GHz

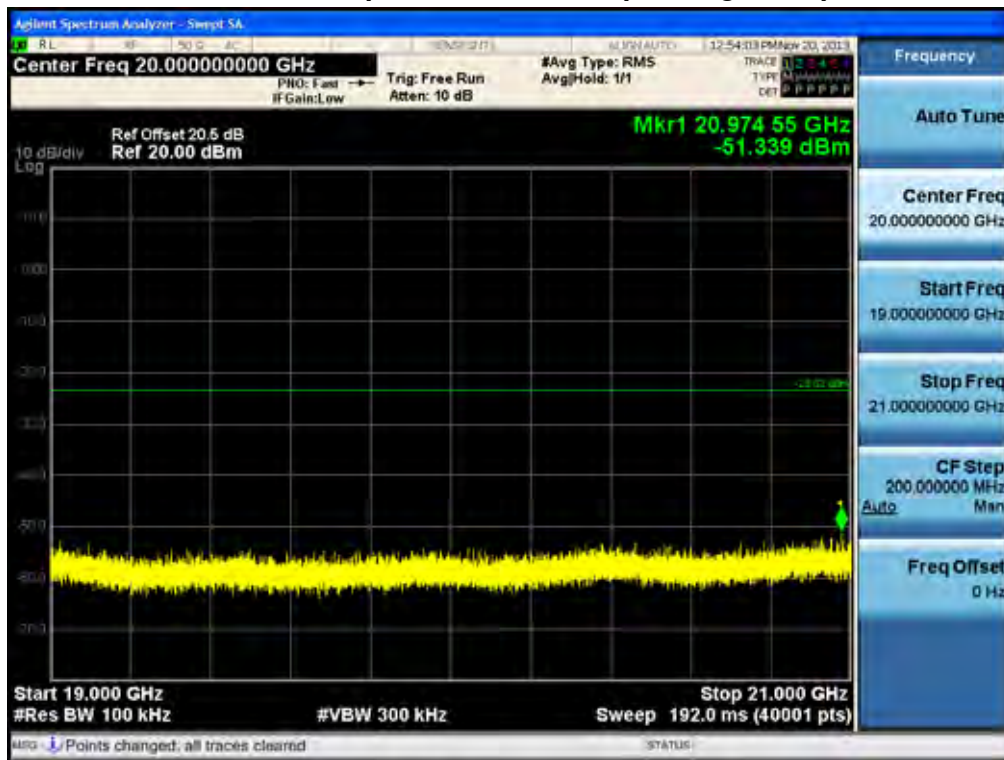
Conducted Spurious Emission (802.11g-CH11)



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1312FR13-1	Date of Issue: January 02, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA303I

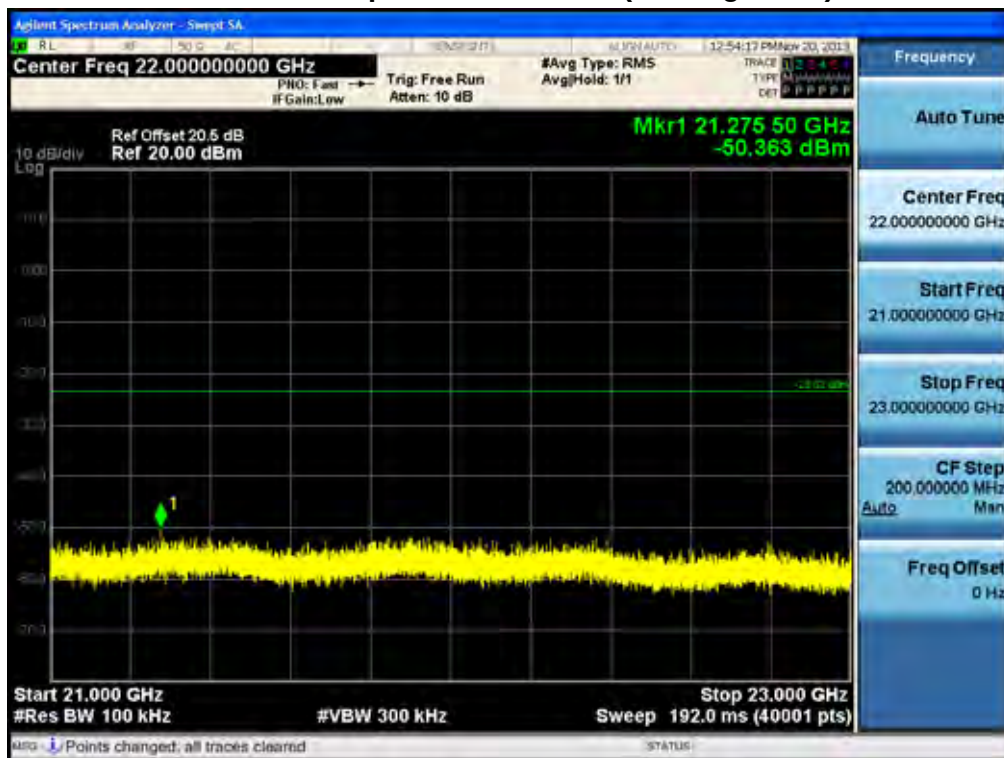
19 GHz ~ 21 GHz

Inducted Spurious Emission (802.11g-CH11)



21 GHz ~ 23 GHz

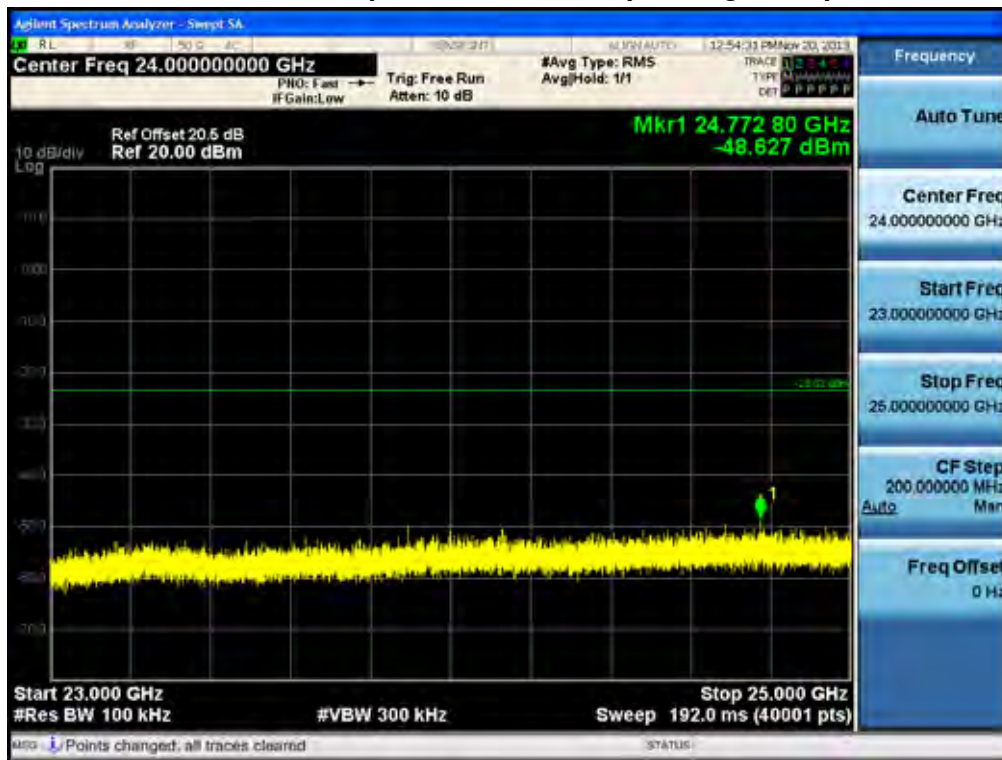
Conducted Spurious Emission (802.11g-CH11)



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1312FR13-1	Date of Issue: January 02, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA303I

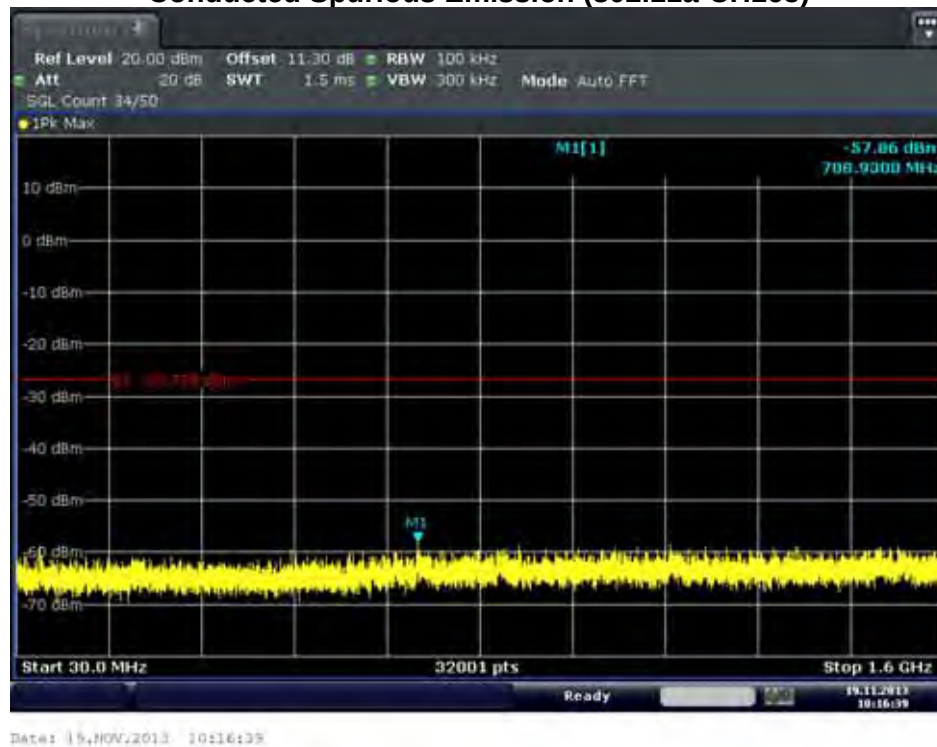
23 GHz ~ 25 GHz

Conducted Spurious Emission (802.11g-CH11)



30 MHz ~ 1.6 GHz

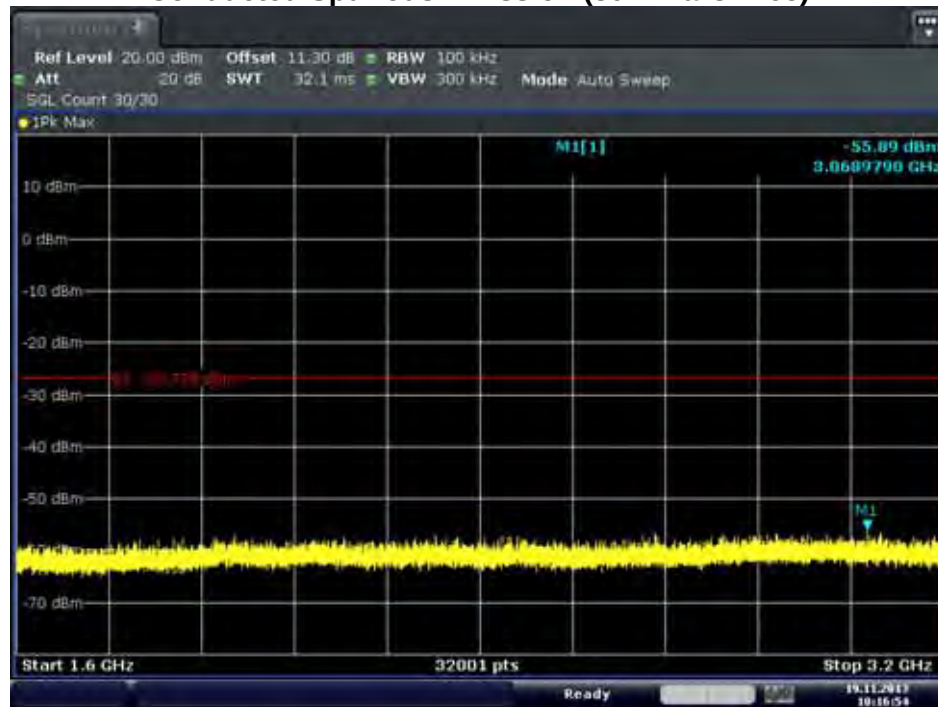
Conducted Spurious Emission (802.11a-CH165)



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1312FR13-1	Date of Issue: January 02, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA303I

1.6 GHz ~ 3.2 GHz

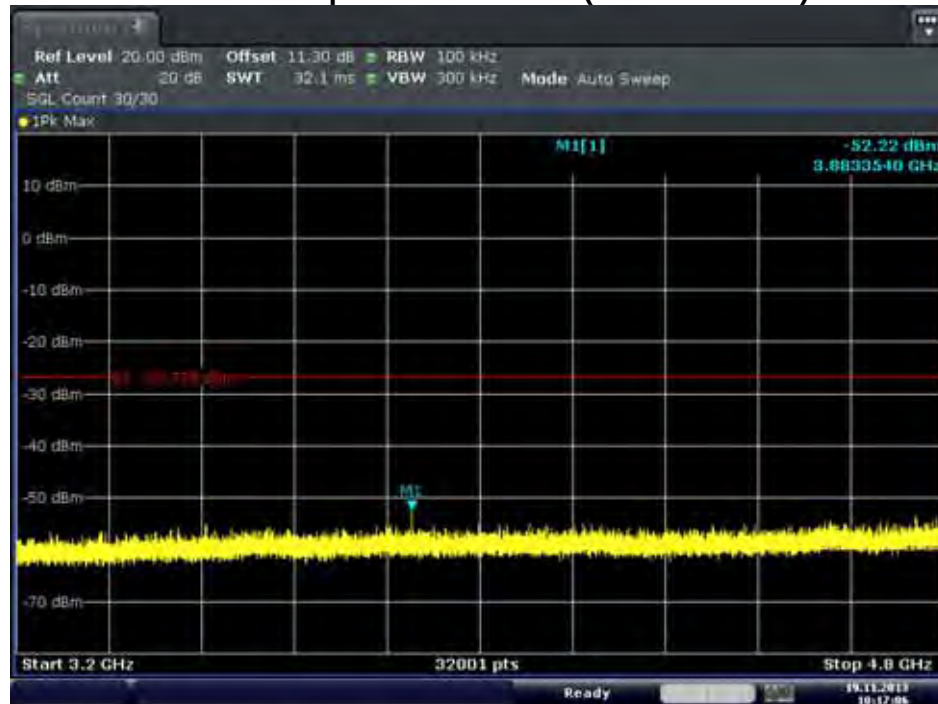
Conducted Spurious Emission (802.11a-CH165)



Date: 15, NOV, 2013 10:16:53

3.2 GHz ~ 4.8 GHz

Conducted Spurious Emission (802.11a-CH165)

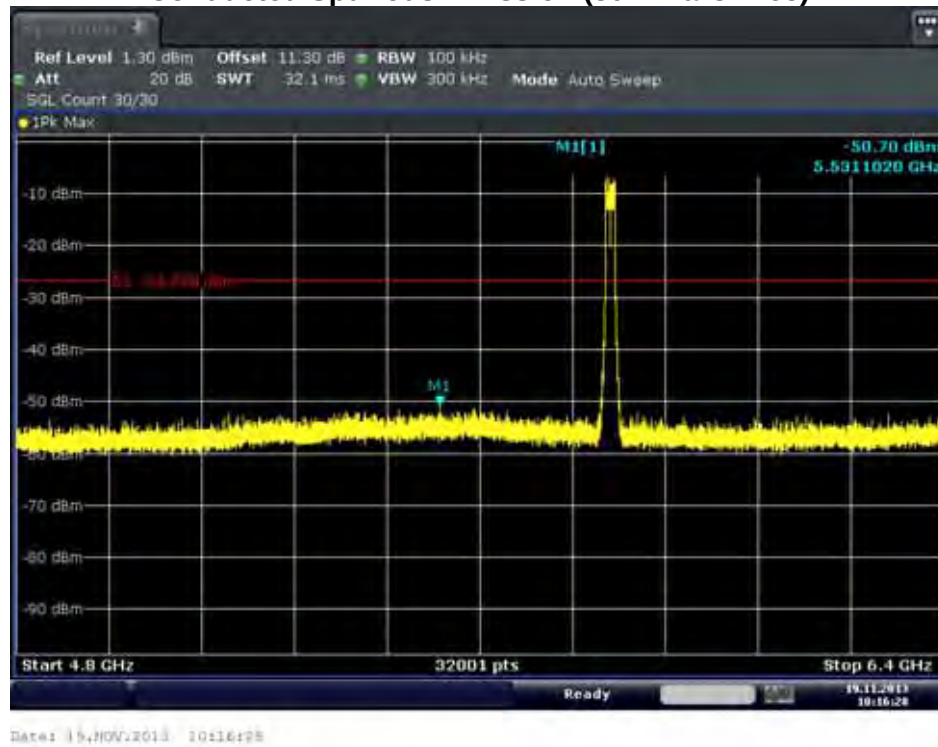


Date: 15, NOV, 2013 10:17:06

FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1312FR13-1	Date of Issue: January 02, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA303I

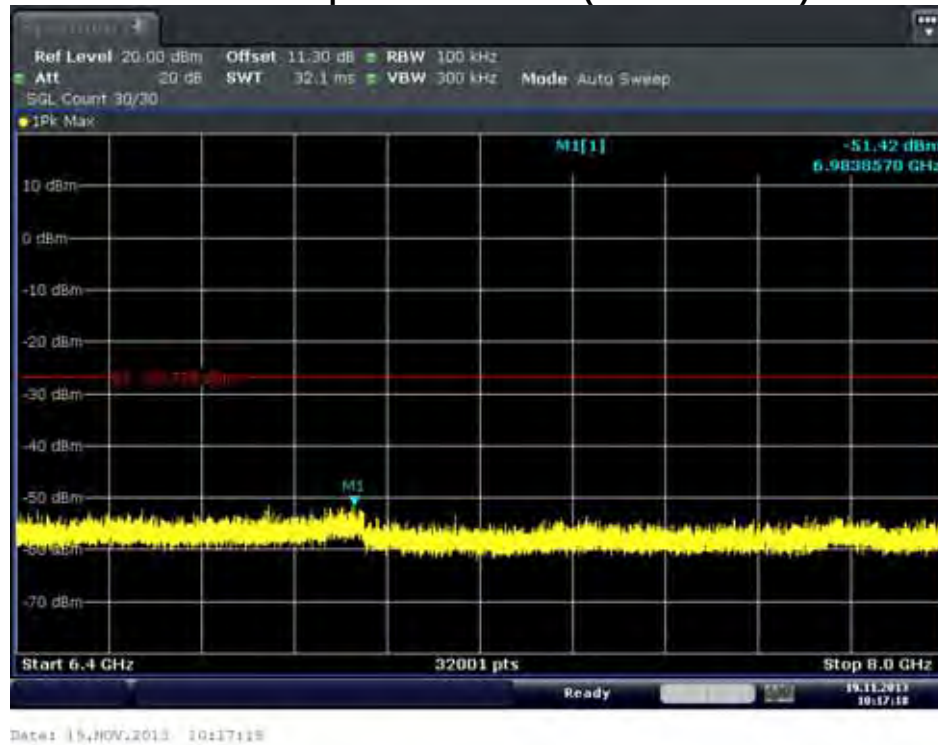
4.8 GHz ~ 6.4 GHz

Conducted Spurious Emission (802.11a-CH165)



6.4 GHz ~ 8 GHz

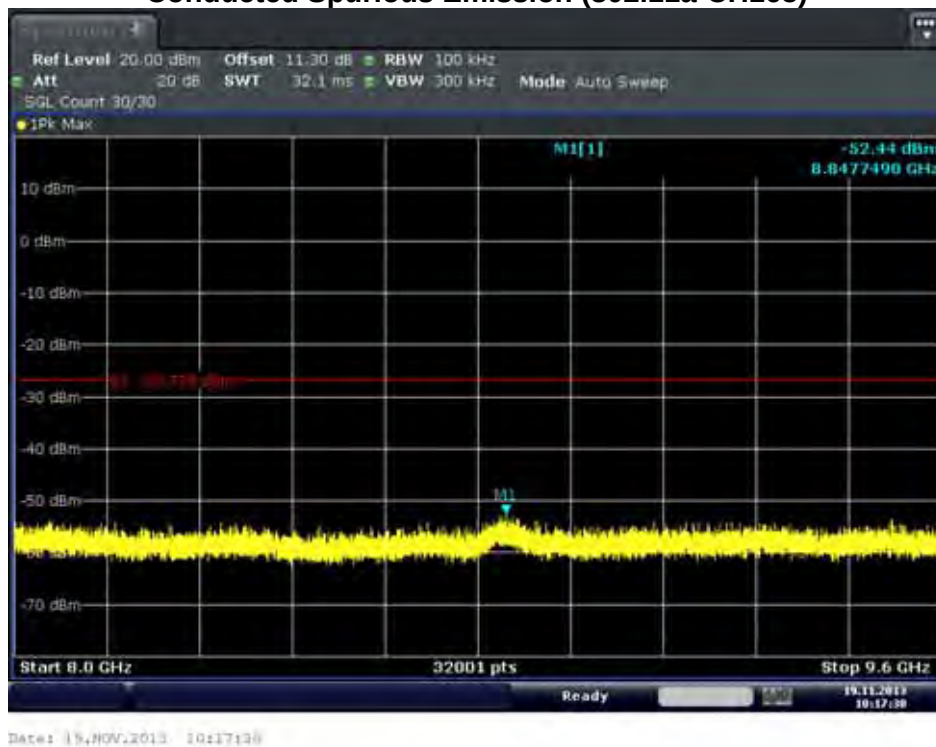
Conducted Spurious Emission (802.11a-CH165)



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1312FR13-1	Date of Issue: January 02, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA303I

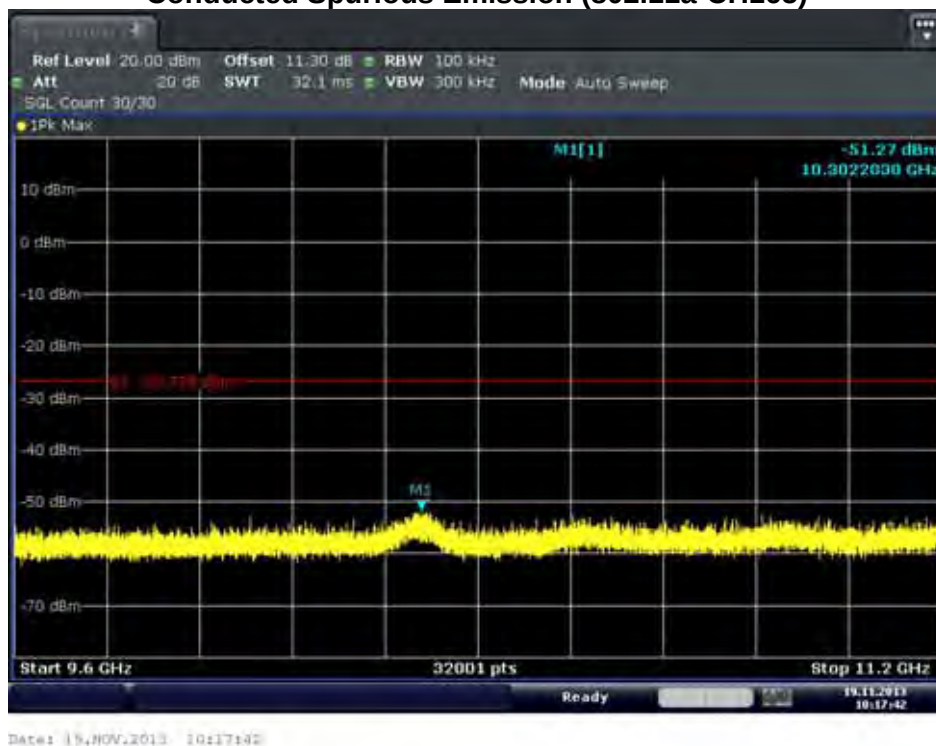
8 GHz ~ 9.6 GHz

Conducted Spurious Emission (802.11a-CH165)



9.6 GHz ~ 11.2 GHz

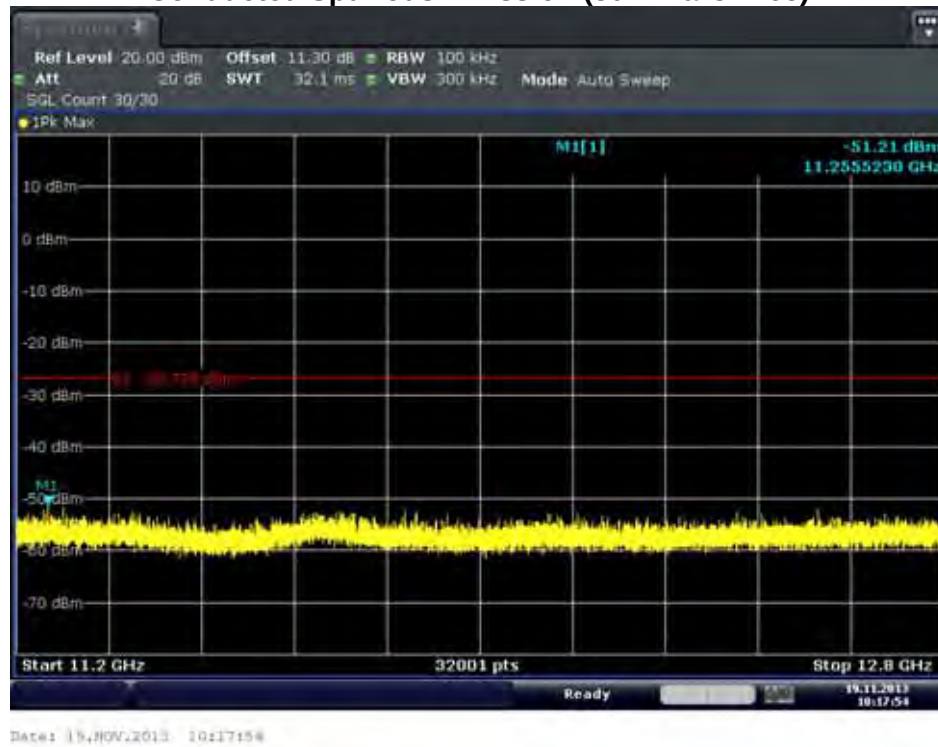
Conducted Spurious Emission (802.11a-CH165)



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1312FR13-1	Date of Issue: January 02,2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA303I

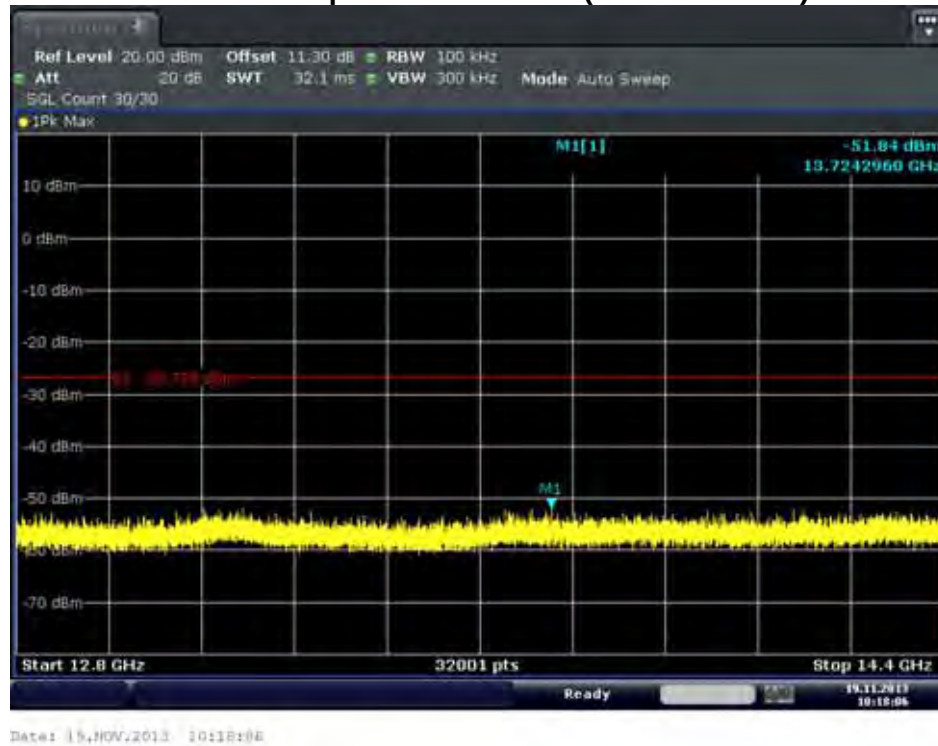
11.2 GHz ~ 12.8 GHz

Conducted Spurious Emission (802.11a-CH165)



12.8 GHz ~ 12.8 GHz

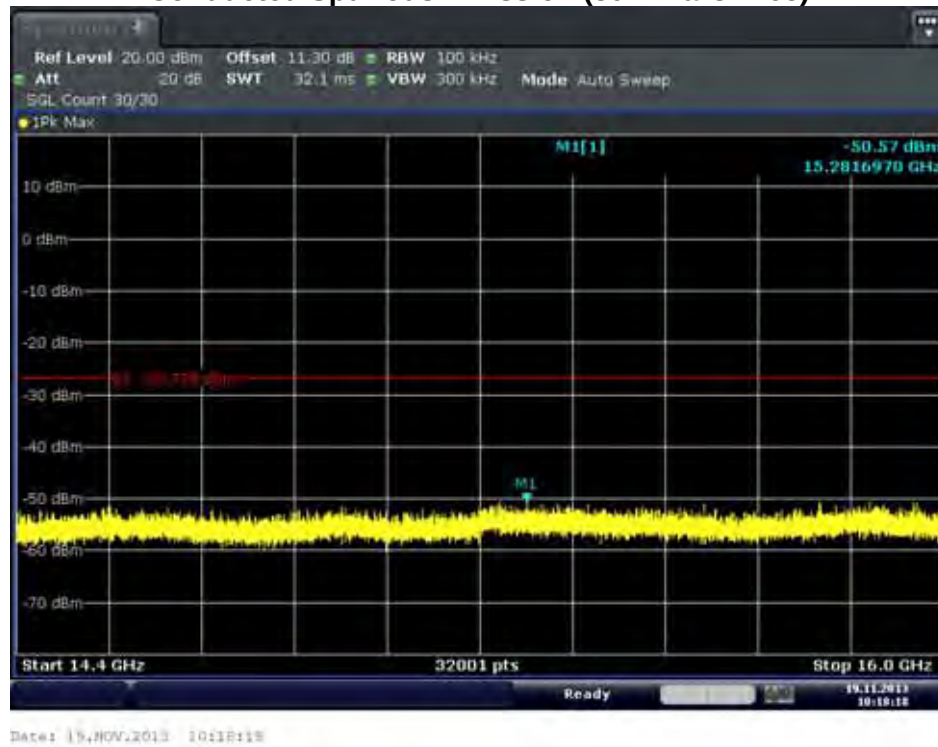
Conducted Spurious Emission (802.11a-CH165)



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1312FR13-1	Date of Issue: January 02,2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA303I

14.4 GHz ~ 16 GHz

Conducted Spurious Emission (802.11a-CH165)



16 GHz ~ 17.6 GHz

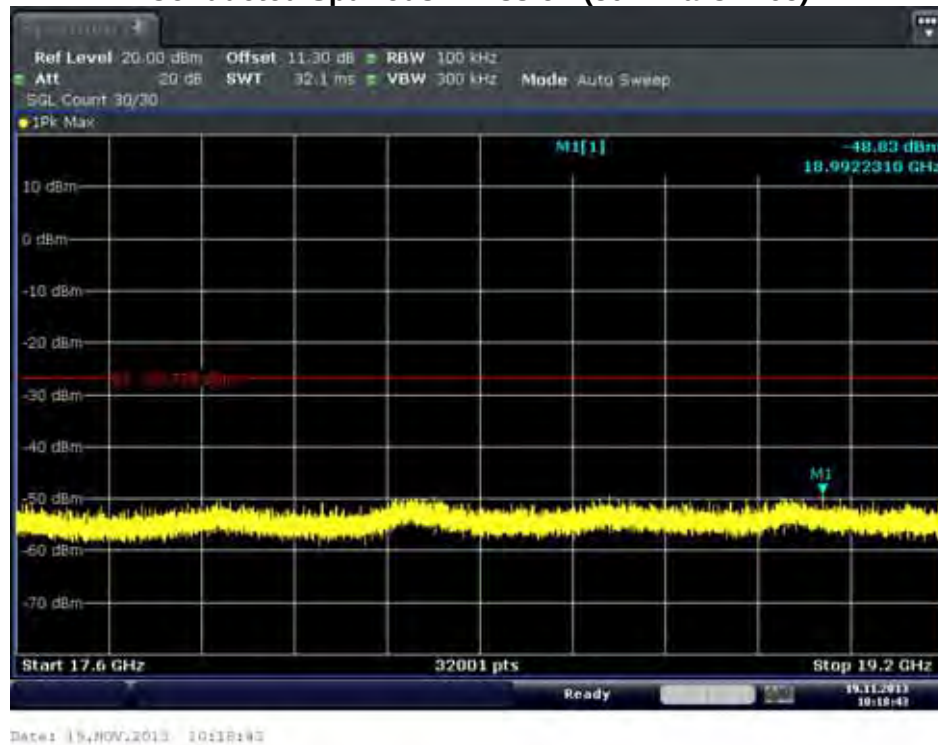
Conducted Spurious Emission (802.11a-CH165)



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1312FR13-1	Date of Issue: January 02, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA303I

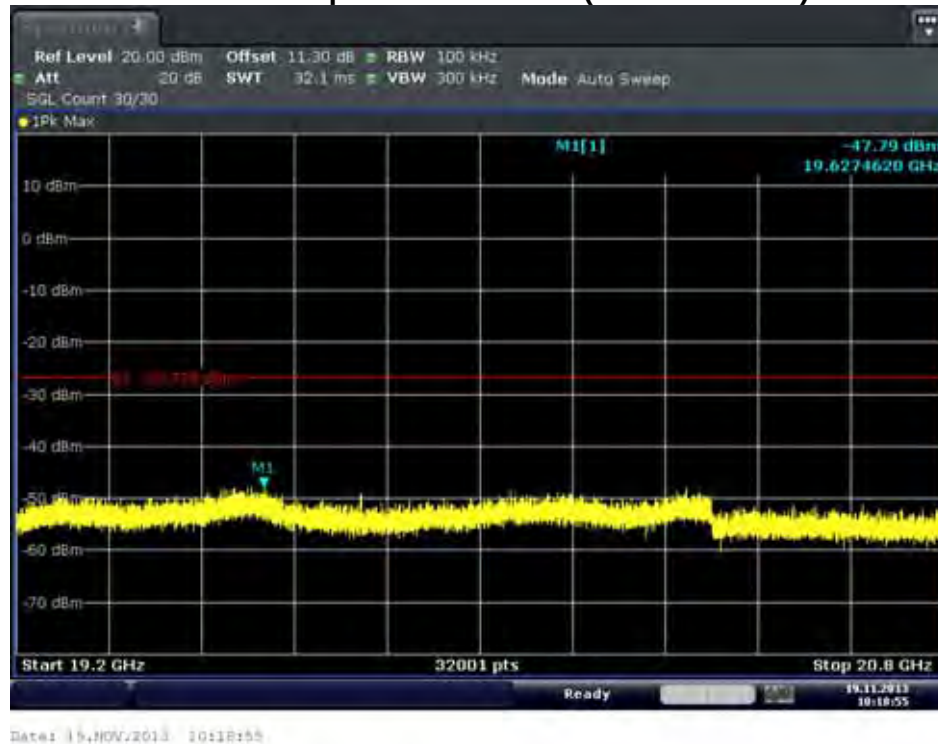
17.6 GHz ~ 19.2 GHz

Conducted Spurious Emission (802.11a-CH165)



19.2 GHz ~ 20.8 GHz

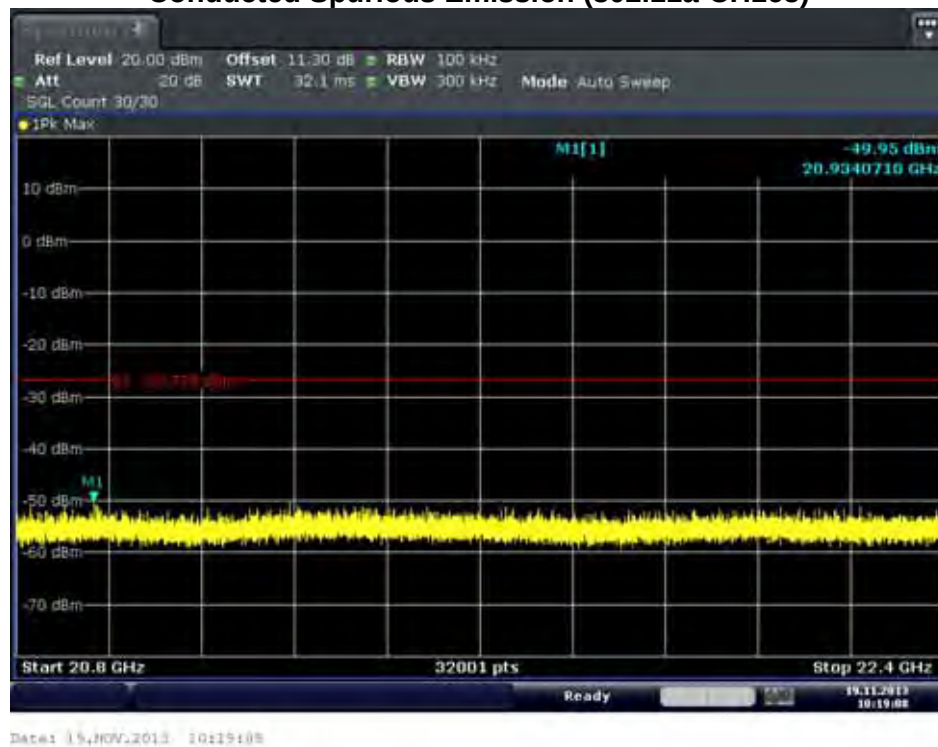
Conducted Spurious Emission (802.11a-CH165)



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1312FR13-1	Date of Issue: January 02, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA303I

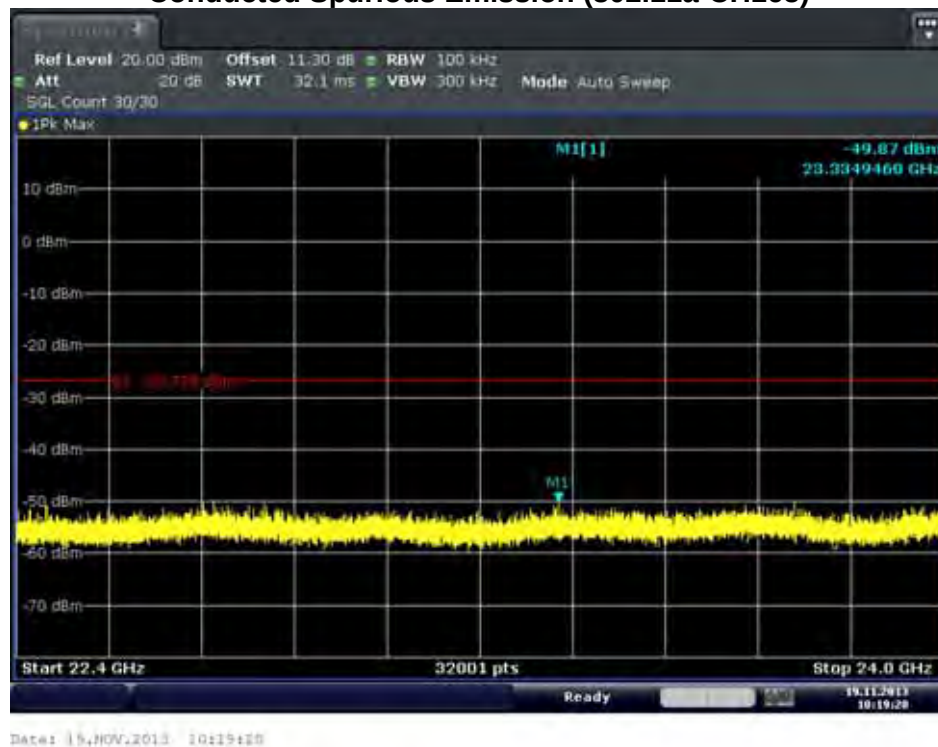
20.8 GHz ~ 22.4 GHz

Conducted Spurious Emission (802.11a-CH165)



22.4 GHz ~ 24 GHz

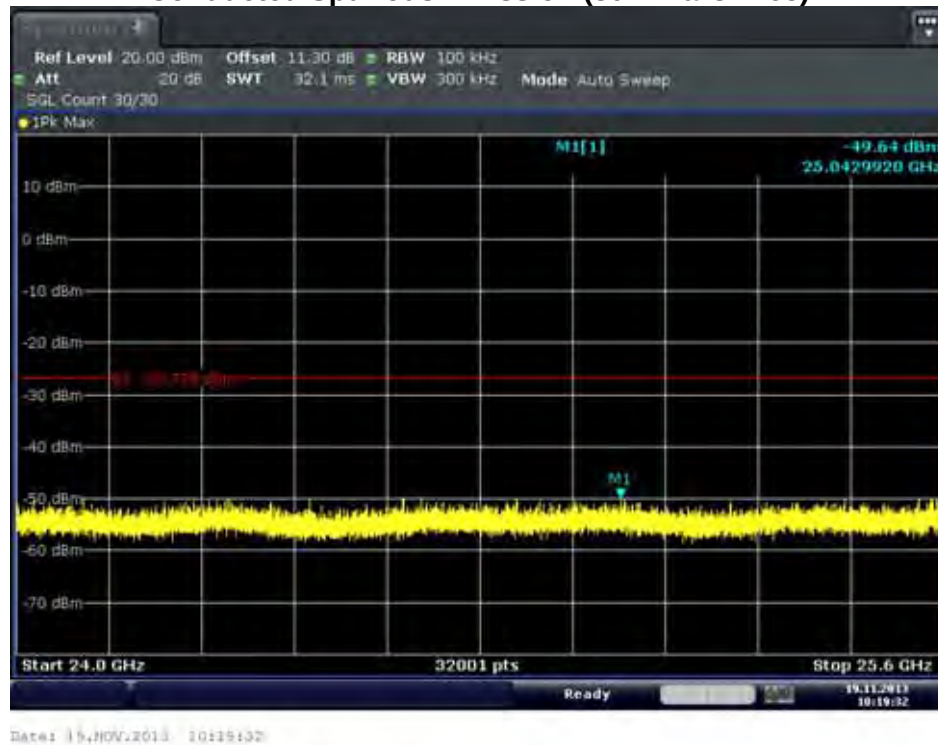
Conducted Spurious Emission (802.11a-CH165)



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1312FR13-1	Date of Issue: January 02, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA303I

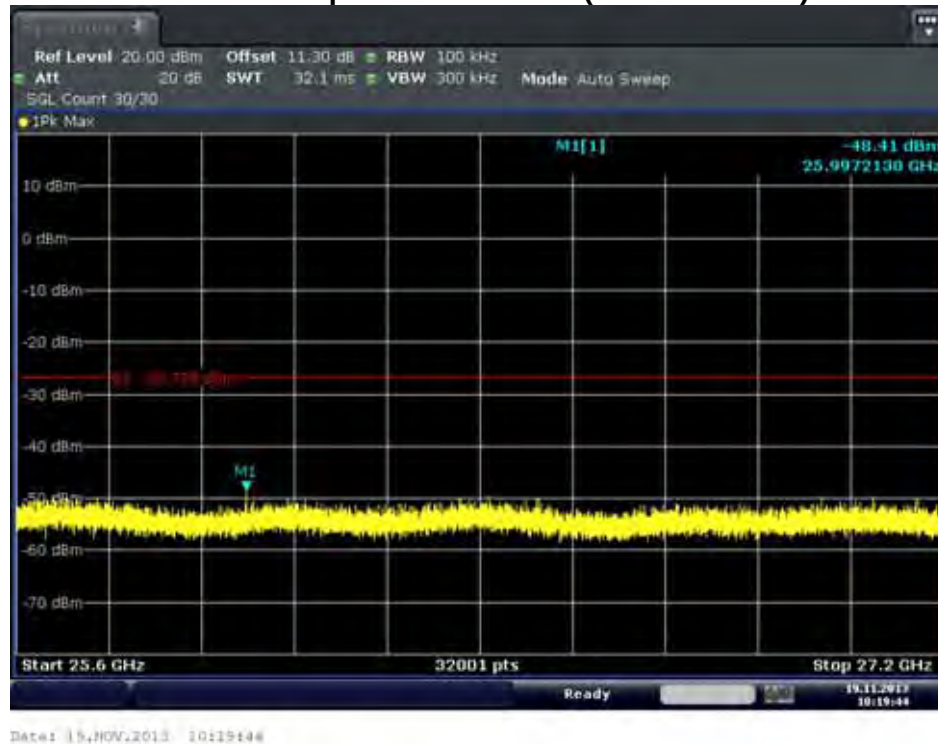
24 GHz ~ 25.6 GHz

Conducted Spurious Emission (802.11a-CH165)



25.6 GHz ~ 27.2 GHz

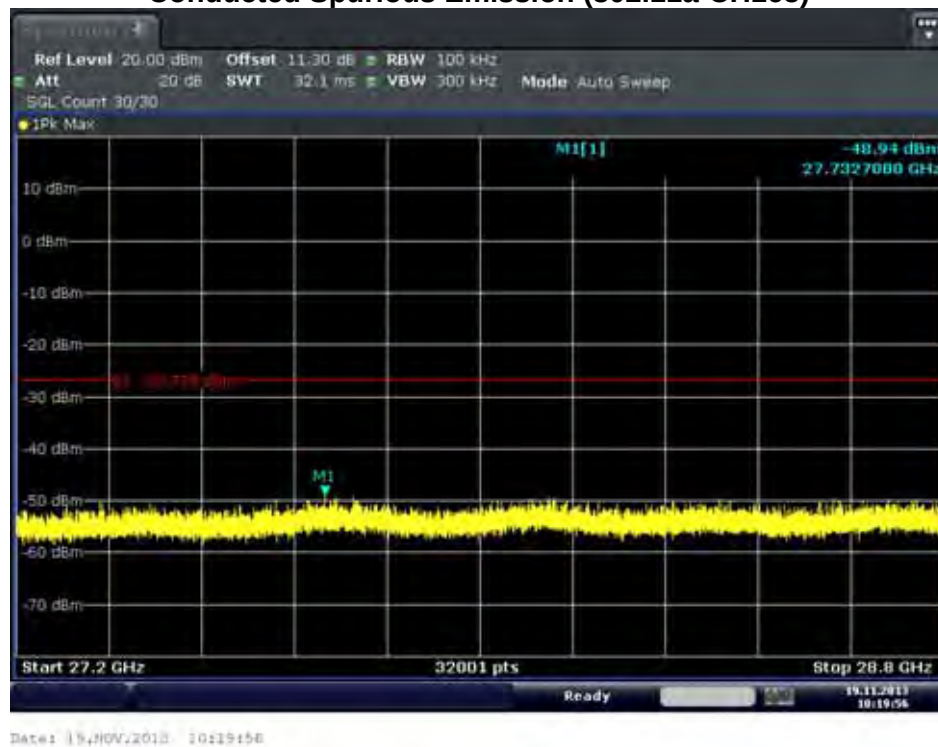
Conducted Spurious Emission (802.11a-CH165)



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1312FR13-1	Date of Issue: January 02, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA303I

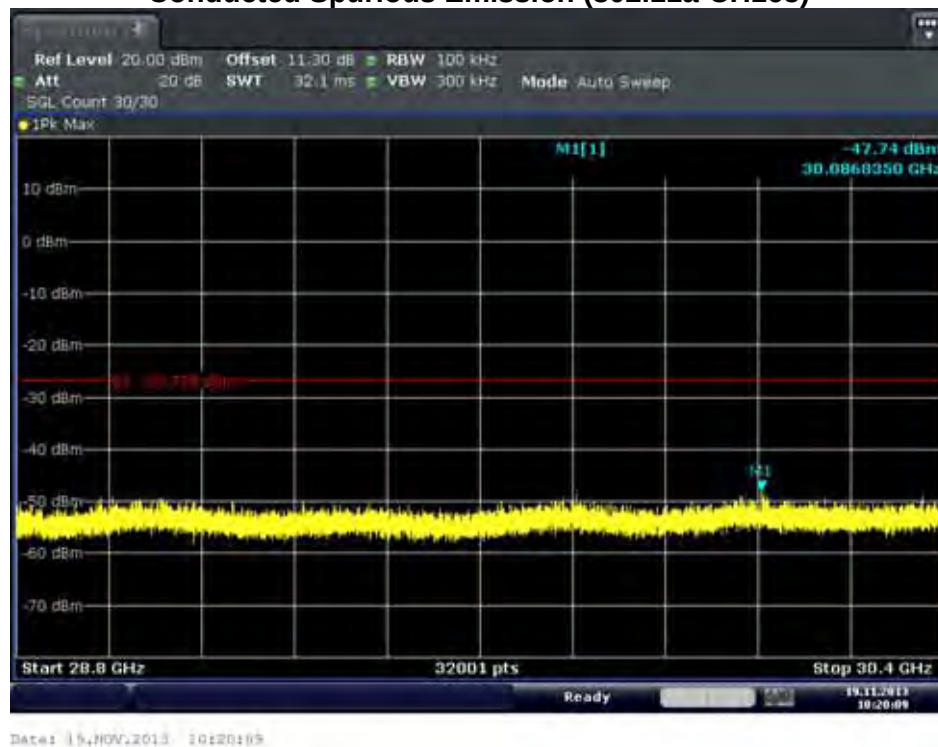
27.2 GHz ~ 28.8 GHz

Conducted Spurious Emission (802.11a-CH165)



28.8 GHz ~ 30.4 GHz

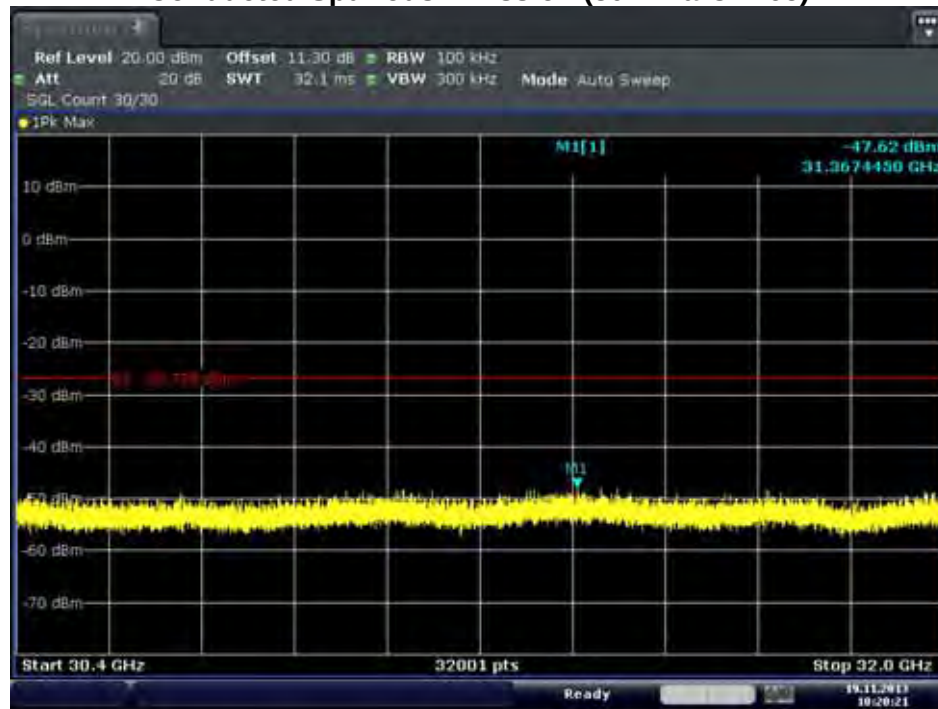
Conducted Spurious Emission (802.11a-CH165)



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1312FR13-1	Date of Issue: January 02, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA303I

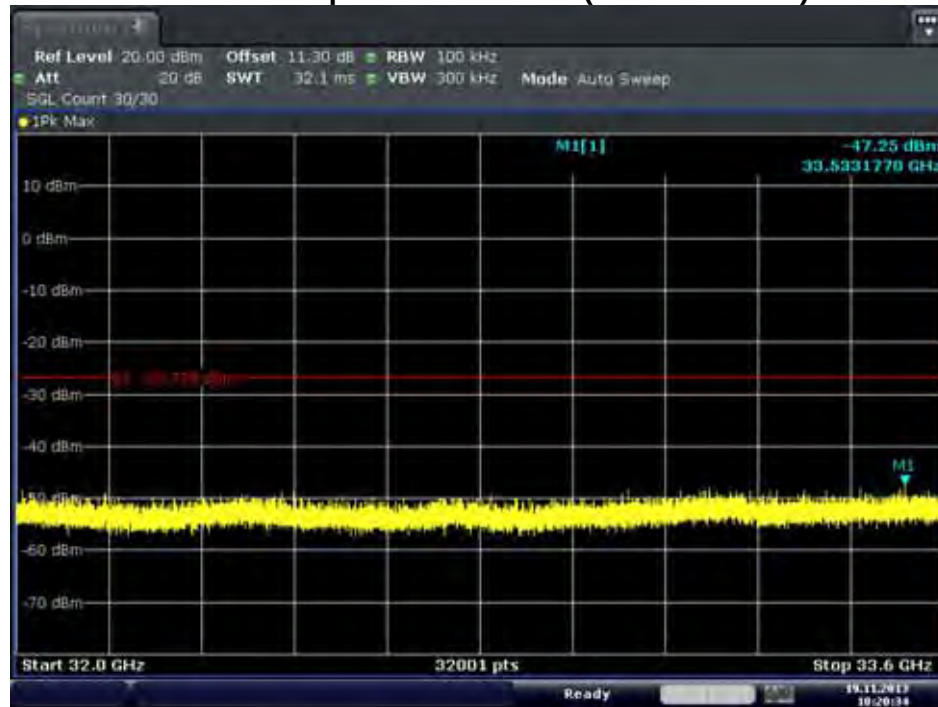
30.4 GHz ~ 32 GHz

Conducted Spurious Emission (802.11a-CH165)



32 GHz ~ 33.6 GHz

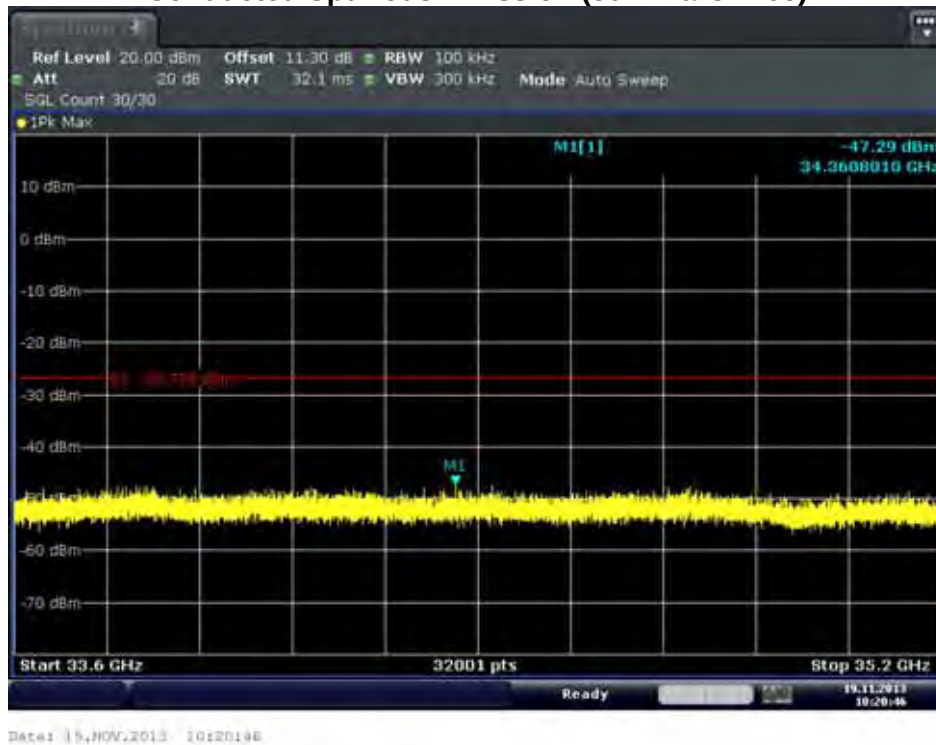
Conducted Spurious Emission (802.11a-CH165)



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1312FR13-1	Date of Issue: January 02, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA303I

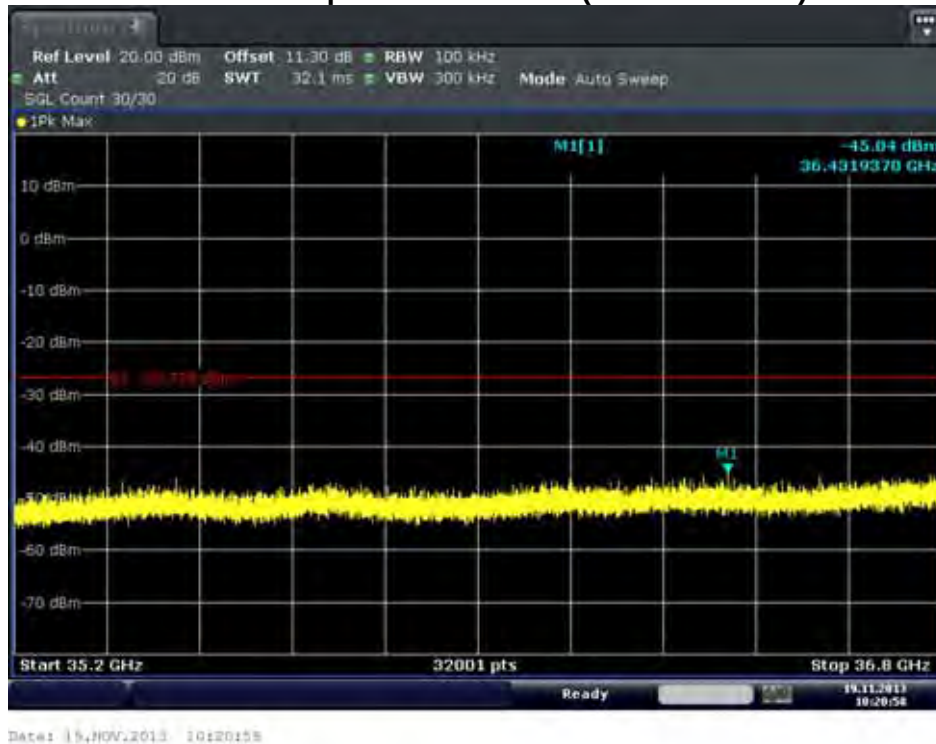
33.6 GHz ~ 35.2 GHz

Conducted Spurious Emission (802.11a-CH165)



35.2 GHz ~ 36.8 GHz

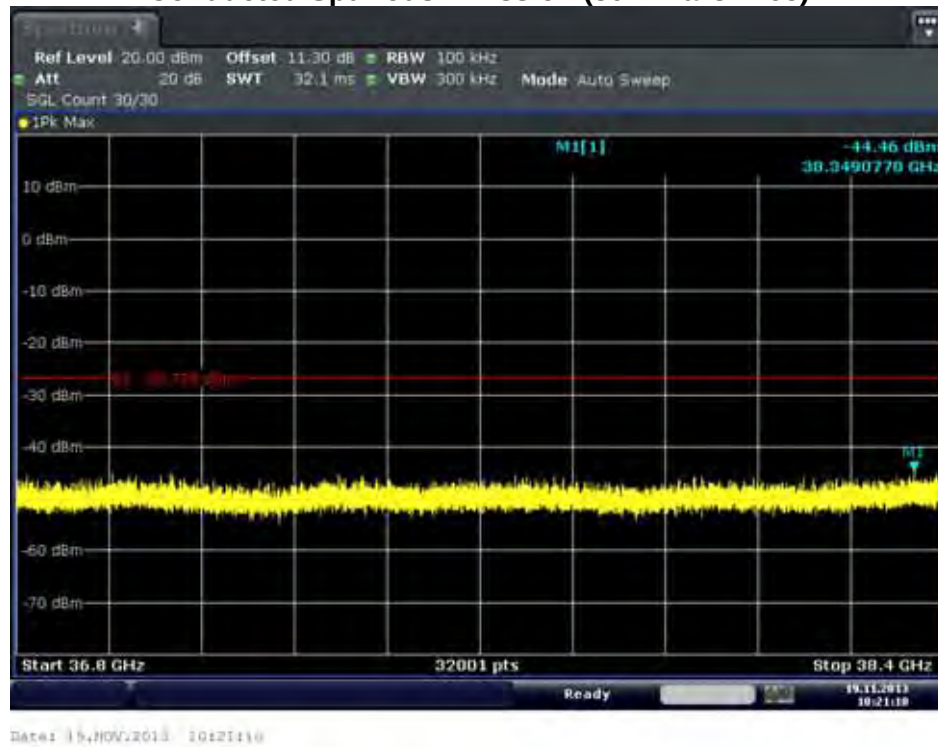
Conducted Spurious Emission (802.11a-CH165)



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1312FR13-1	Date of Issue: January 02, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA303I

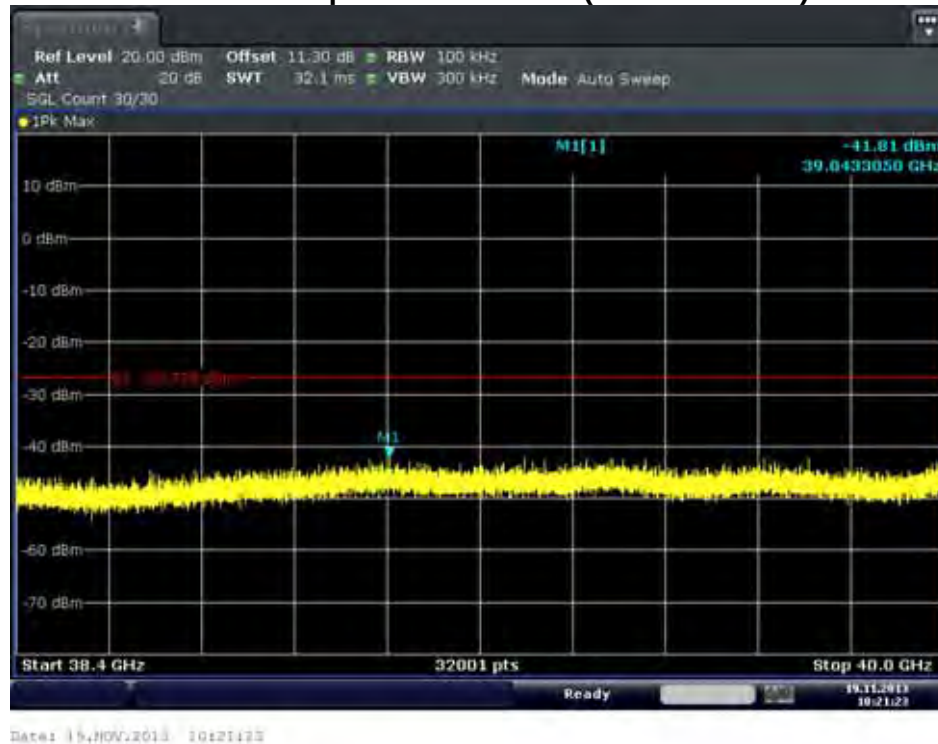
36.8 GHz ~ 38.4 GHz

Conducted Spurious Emission (802.11a-CH165)



38.4 GHz ~ 40 GHz

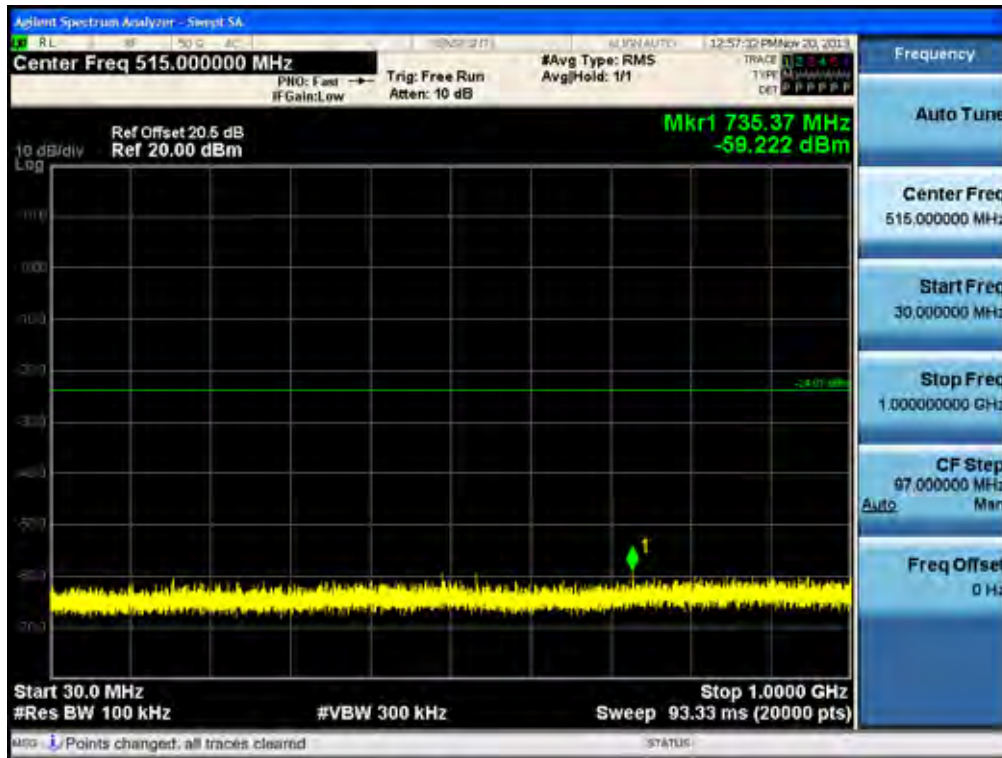
Conducted Spurious Emission (802.11a-CH165)



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1312FR13-1	Date of Issue: January 02, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA303I

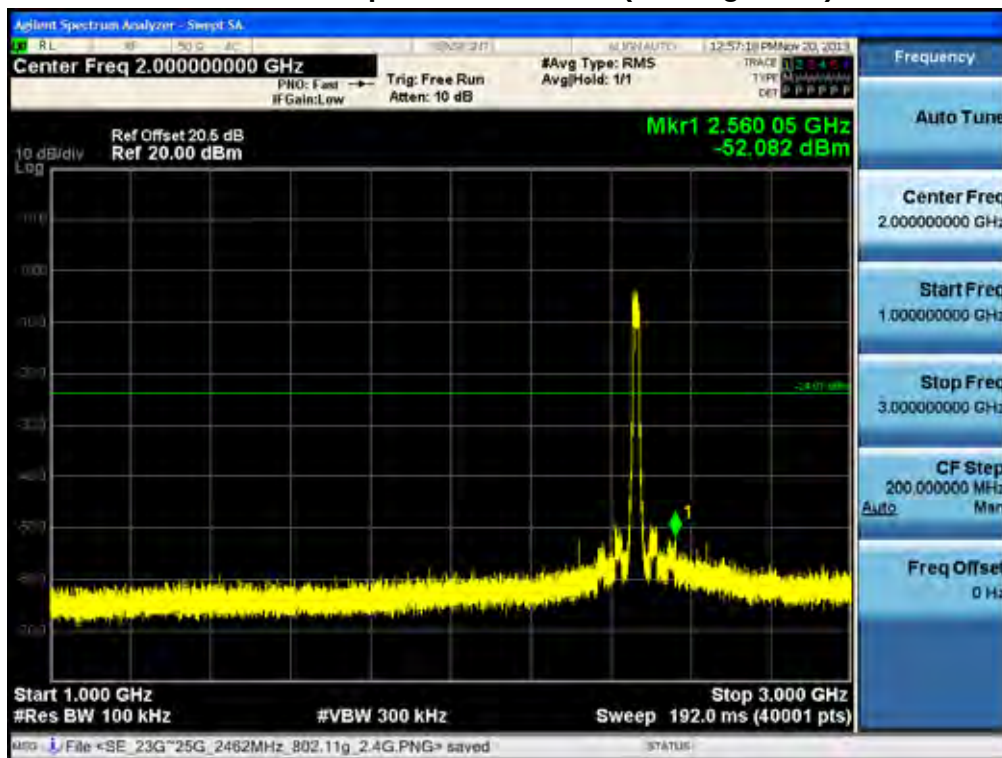
Service Port Ant.2
30 MHz ~ 1 GHz

Conducted Spurious Emission (802.11g-CH11)



1 GHz ~ 3 GHz

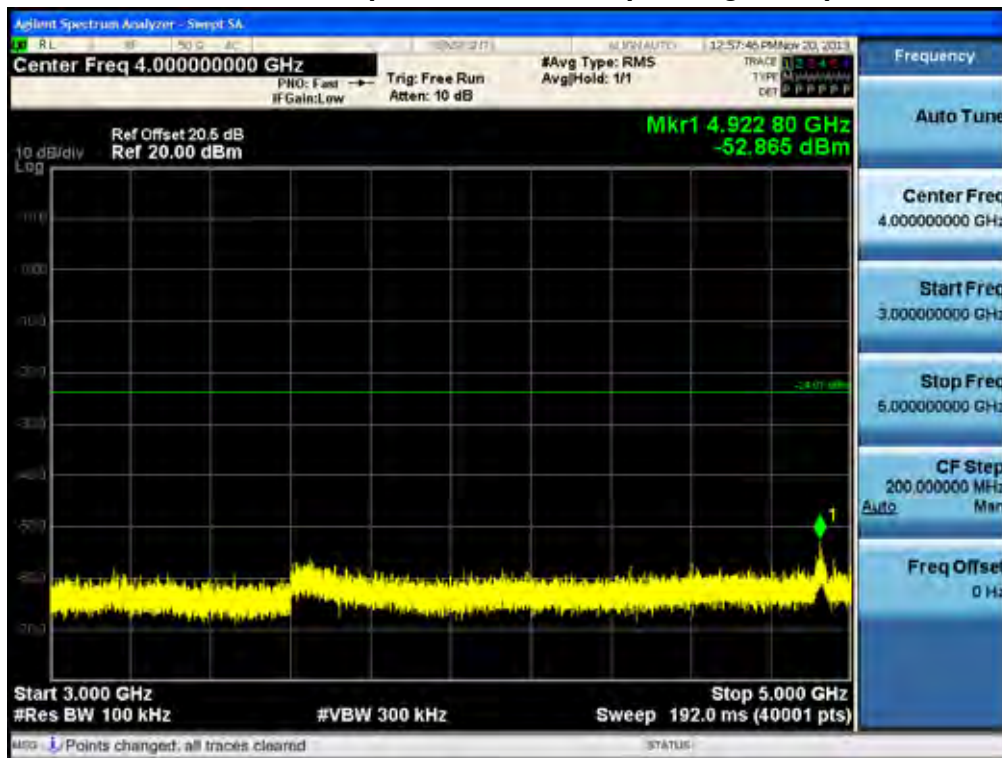
Conducted Spurious Emission (802.11g-CH11)



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1312FR13-1	Date of Issue: January 02,2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA303I

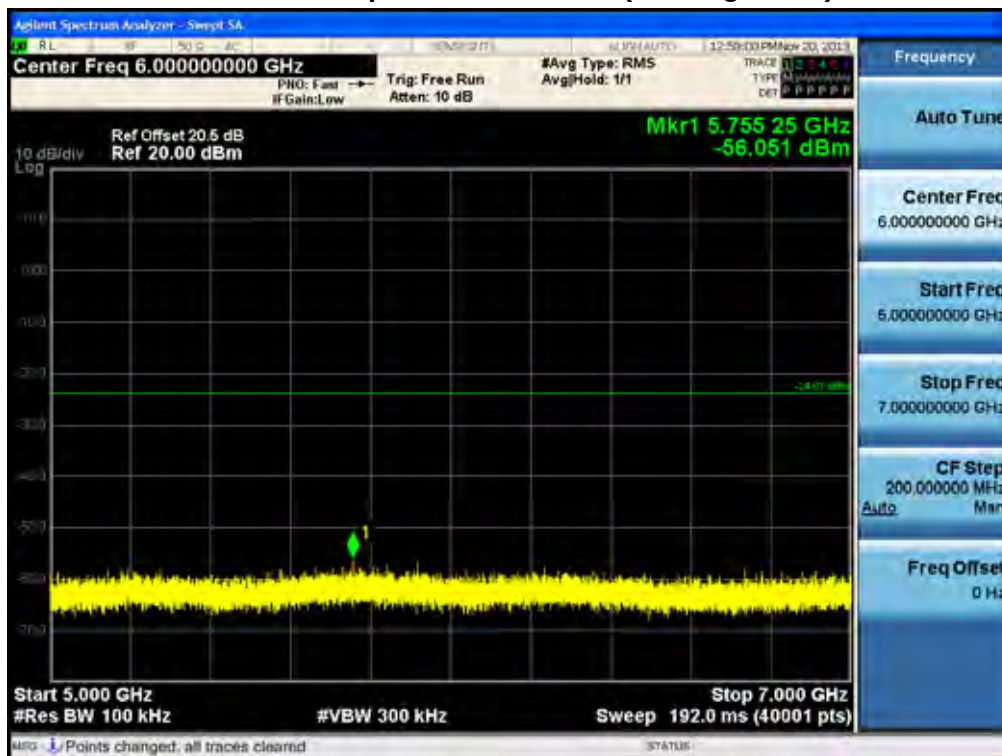
3 GHz ~ 5 GHz

Conducted Spurious Emission (802.11g-CH11)



5 GHz ~ 7 GHz

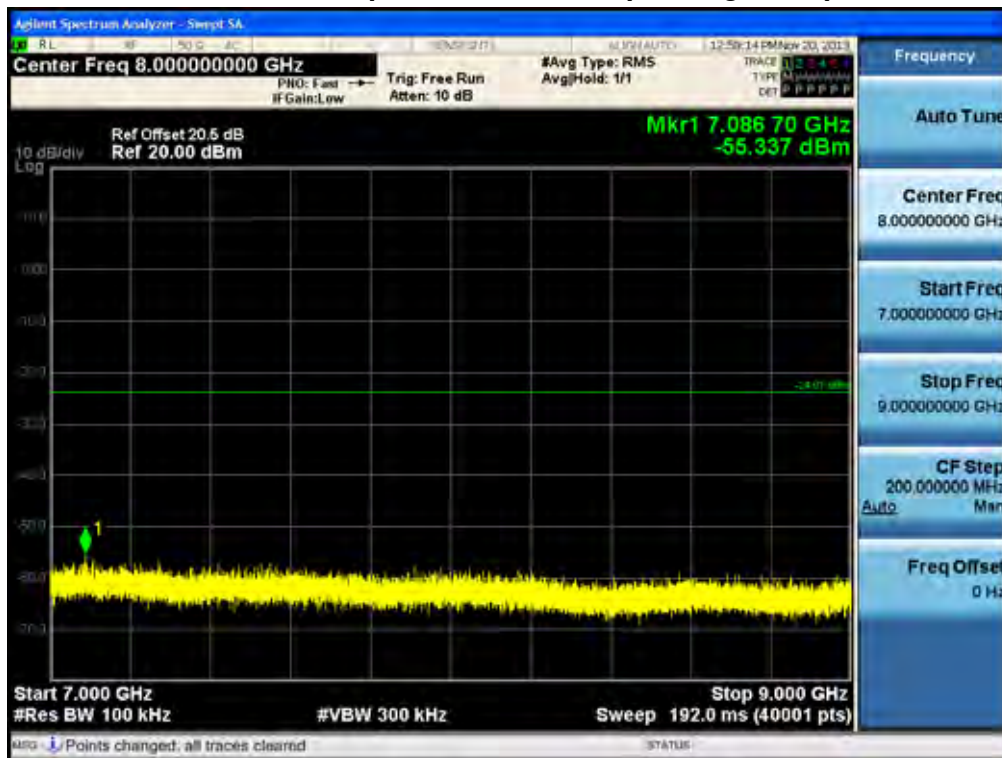
Conducted Spurious Emission (802.11g-CH11)



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1312FR13-1	Date of Issue: January 02, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA303I

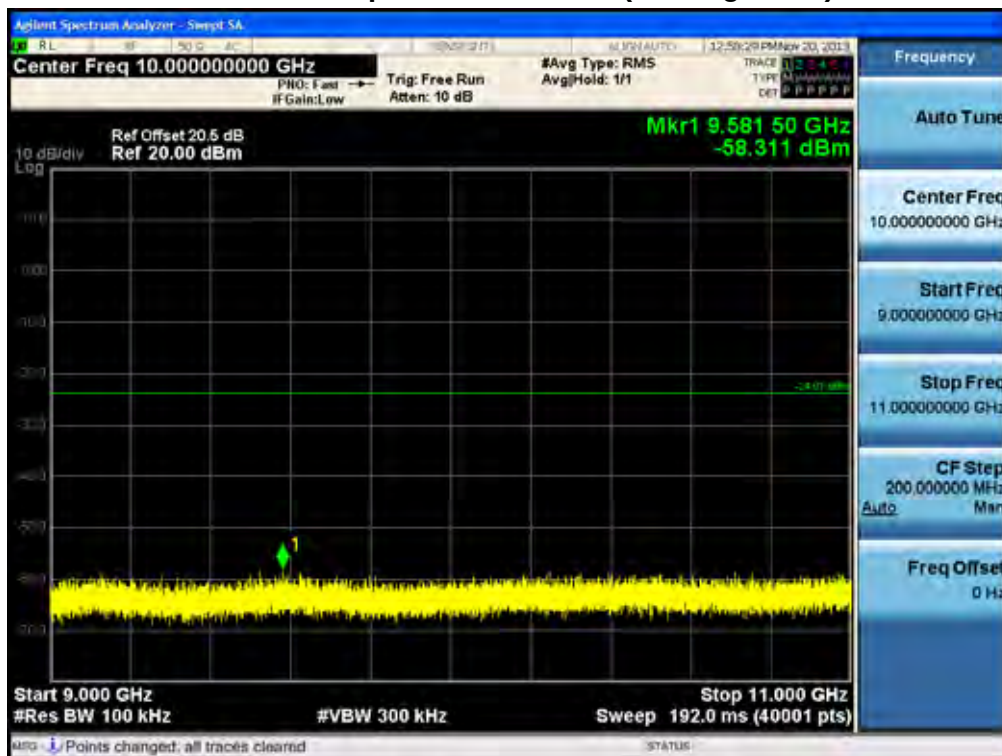
7 GHz ~ 9 GHz

Conducted Spurious Emission (802.11g-CH11)



9 GHz ~ 11 GHz

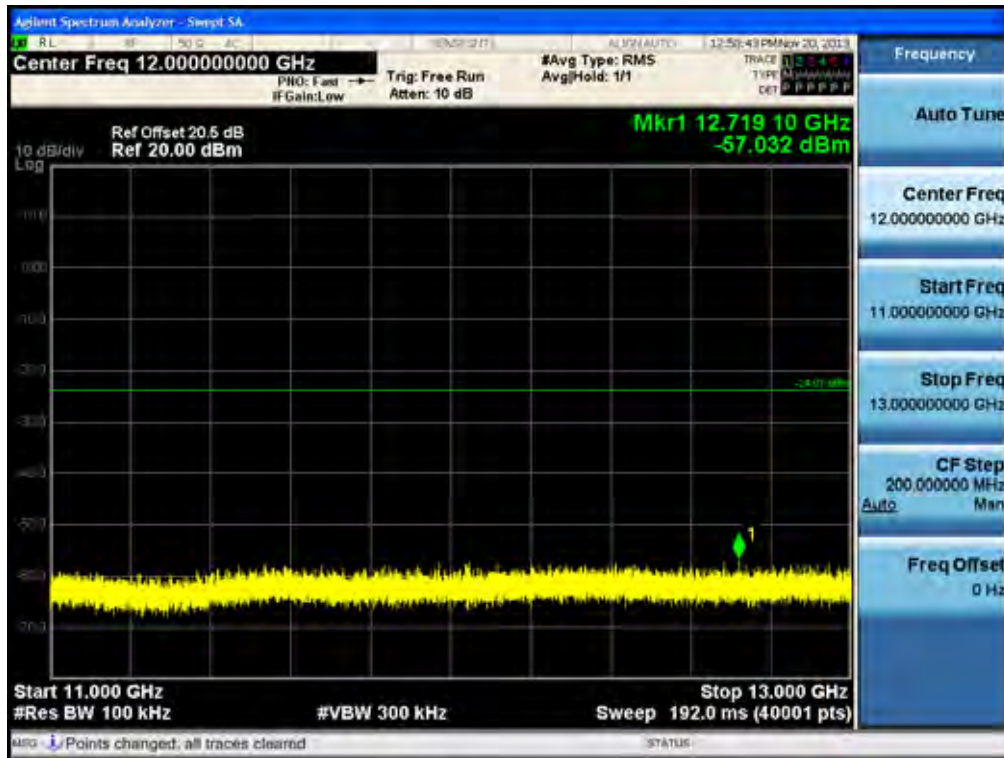
Conducted Spurious Emission (802.11g-CH11)



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1312FR13-1	Date of Issue: January 02, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA303I

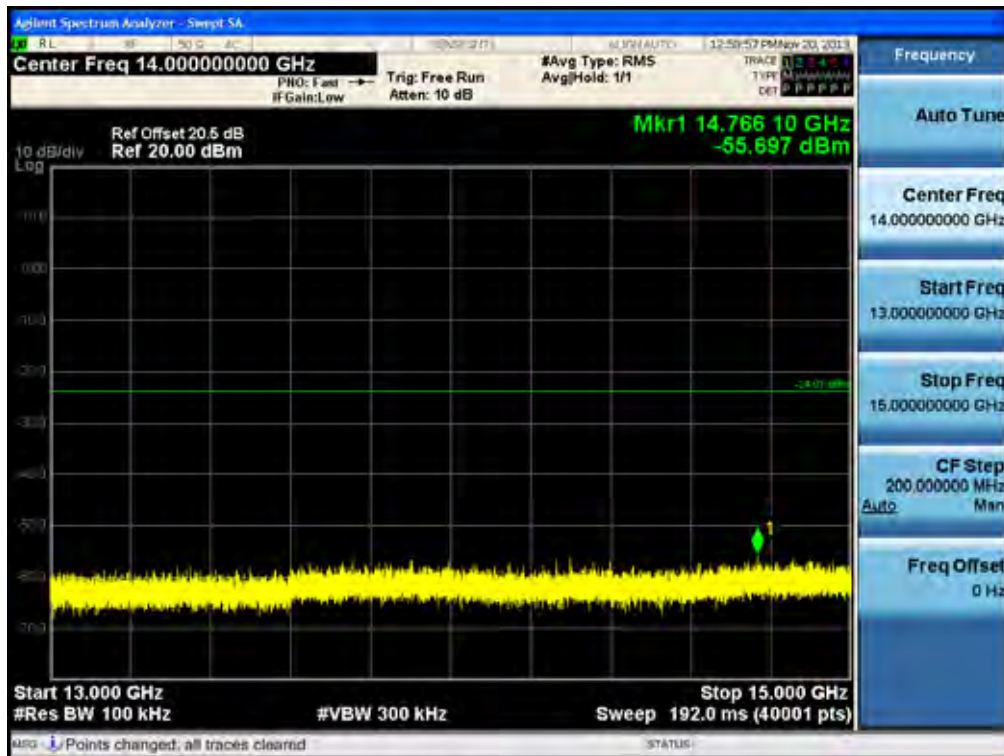
11 GHz ~ 13 GHz

Conducted Spurious Emission (802.11g-CH11)



13 GHz ~ 15 GHz

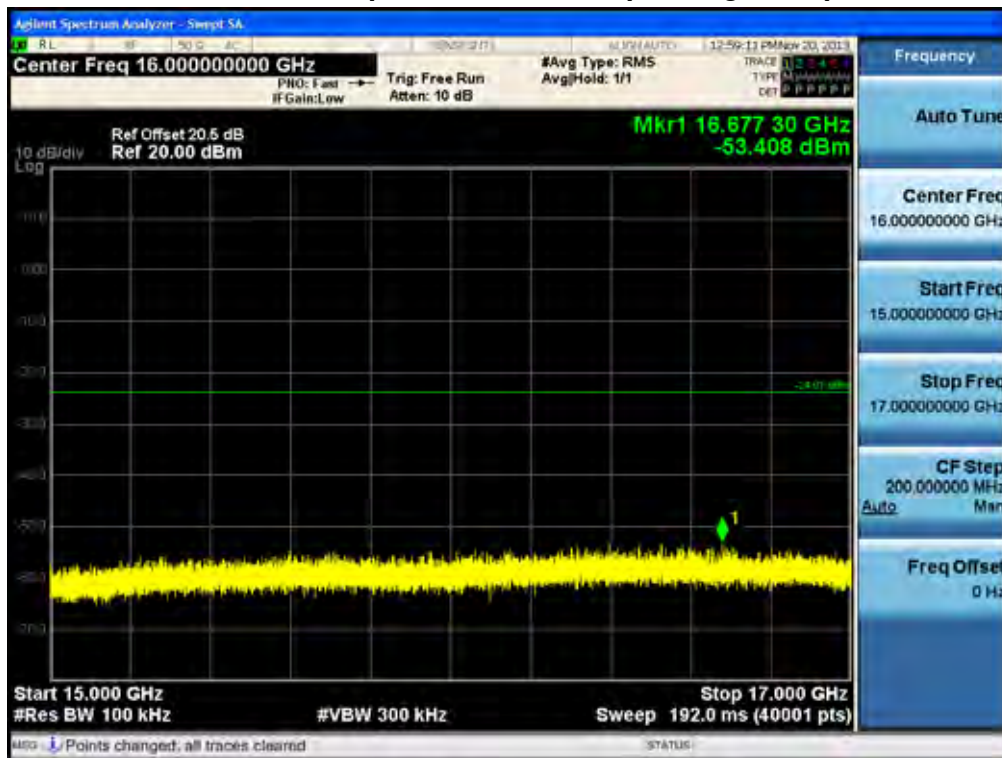
Conducted Spurious Emission (802.11g-CH11)



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1312FR13-1	Date of Issue: January 02, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA303I

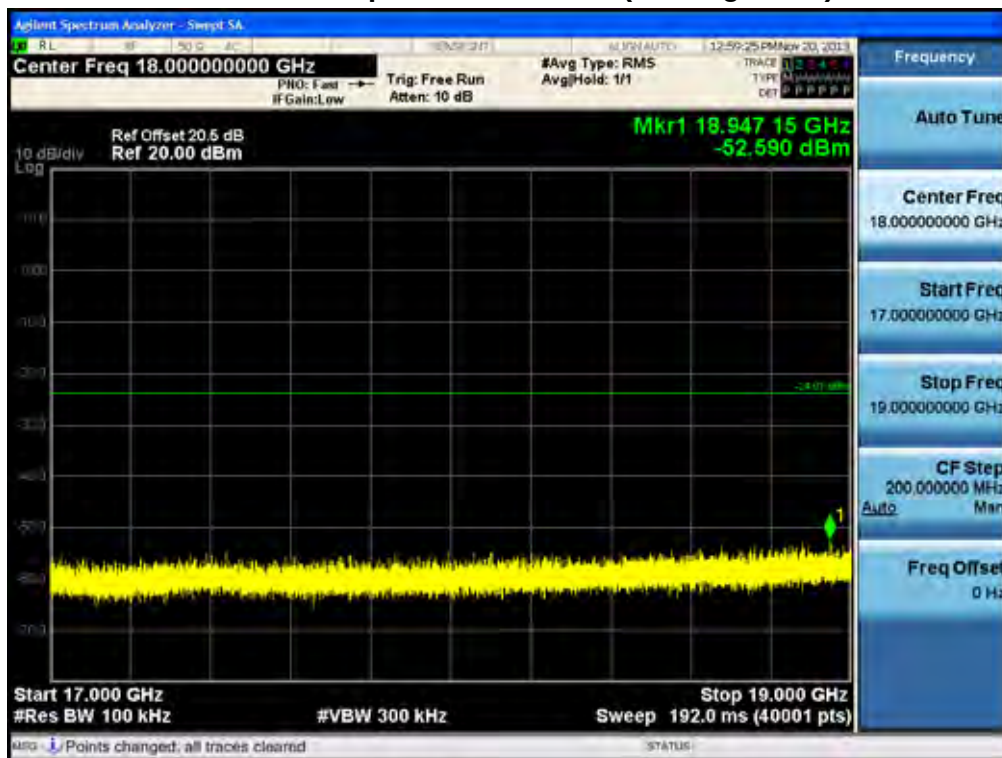
15 GHz ~ 17 GHz

Conducted Spurious Emission (802.11g-CH11)



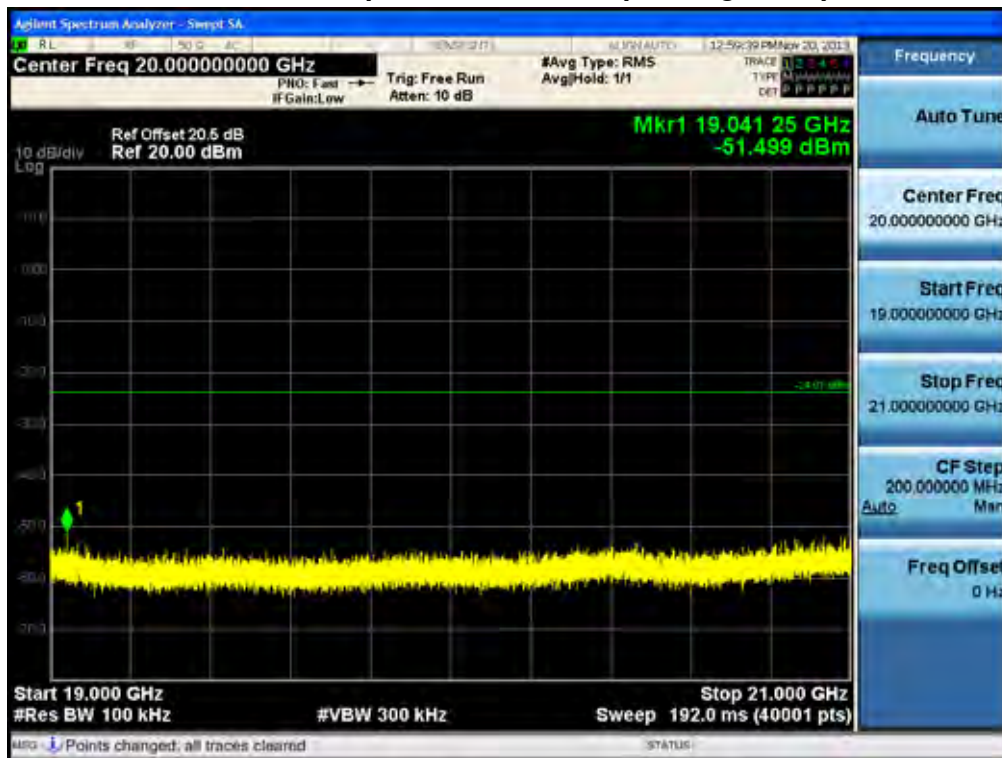
17 GHz ~ 19 GHz

Conducted Spurious Emission (802.11g-CH11)



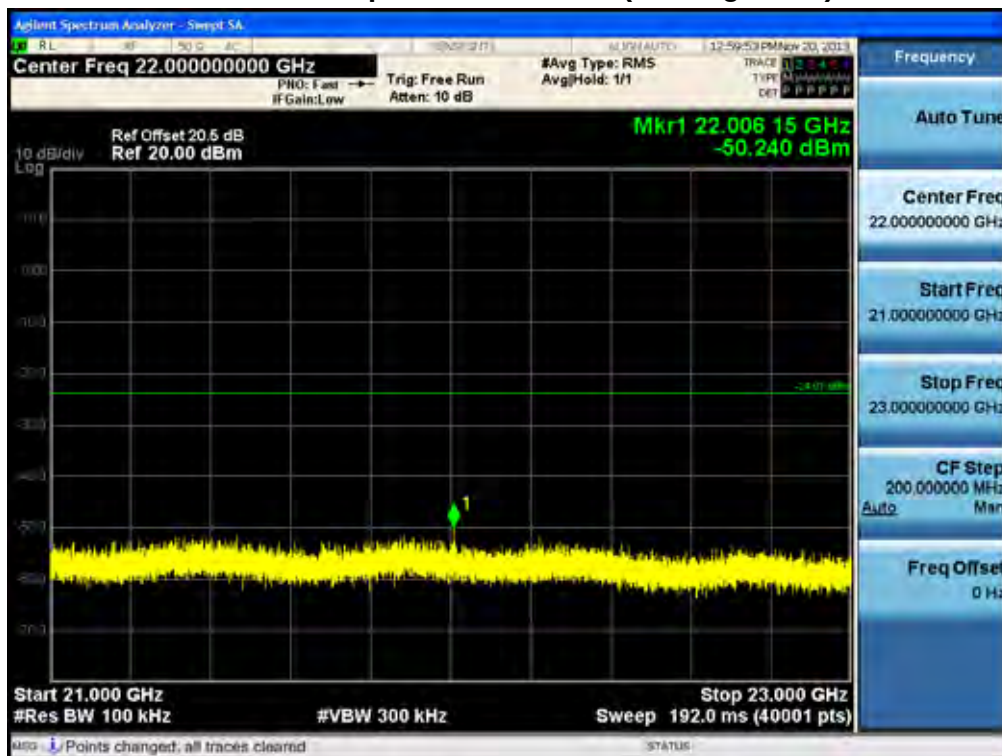
19 GHz ~ 21 GHz

Inducted Spurious Emission (802.11g-CH11)



21 GHz ~ 23 GHz

Conducted Spurious Emission (802.11g-CH11)



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1312FR13-1	Date of Issue: January 02, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA303I

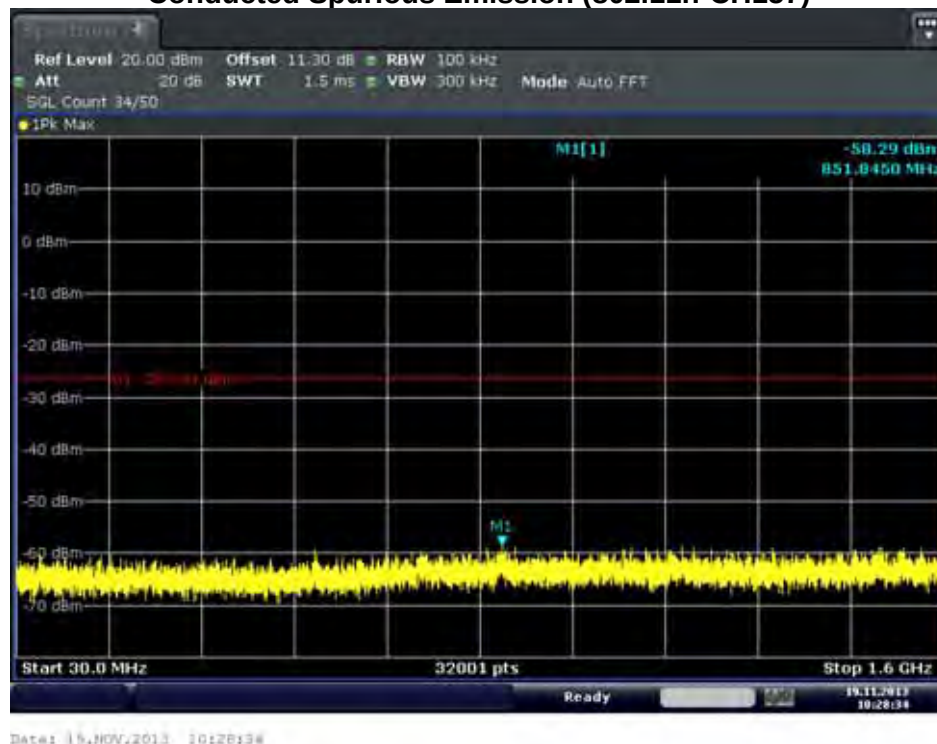
23 GHz ~ 25 GHz

Conducted Spurious Emission (802.11g-CH11)



30 MHz ~ 1.6 GHz

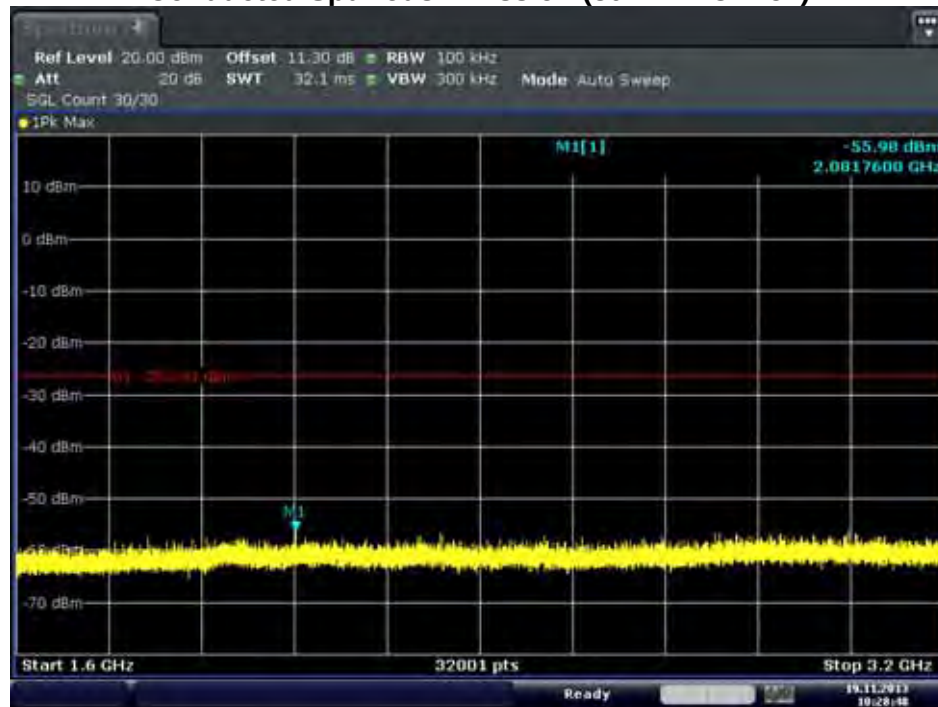
Conducted Spurious Emission (802.11n-CH157)



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1312FR13-1	Date of Issue: January 02, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA303I

1.6 GHz ~ 3.2 GHz

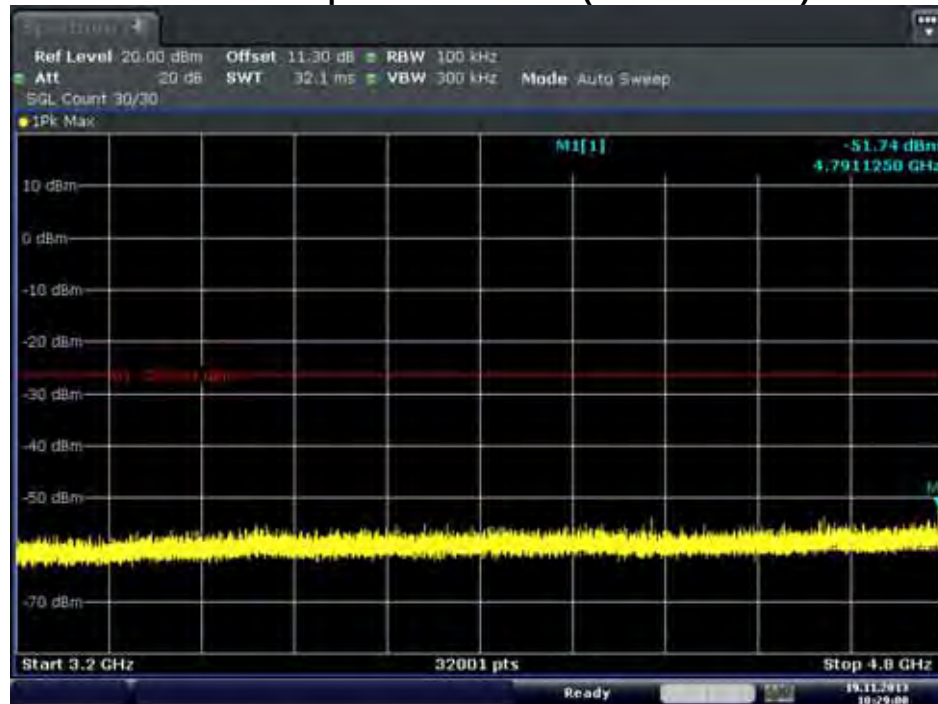
Conducted Spurious Emission (802.11n-CH157)



Date: 15, NOV, 2013 10:28:48

3.2 GHz ~ 4.8 GHz

Conducted Spurious Emission (802.11n-CH157)

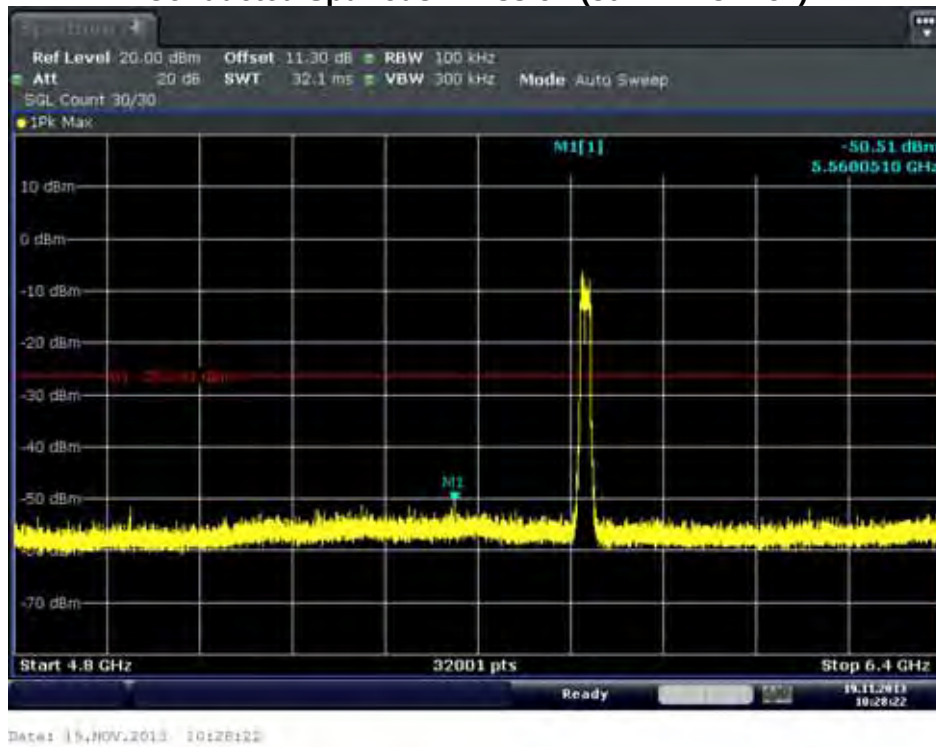


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FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1312FR13-1	Date of Issue: January 02, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA303I

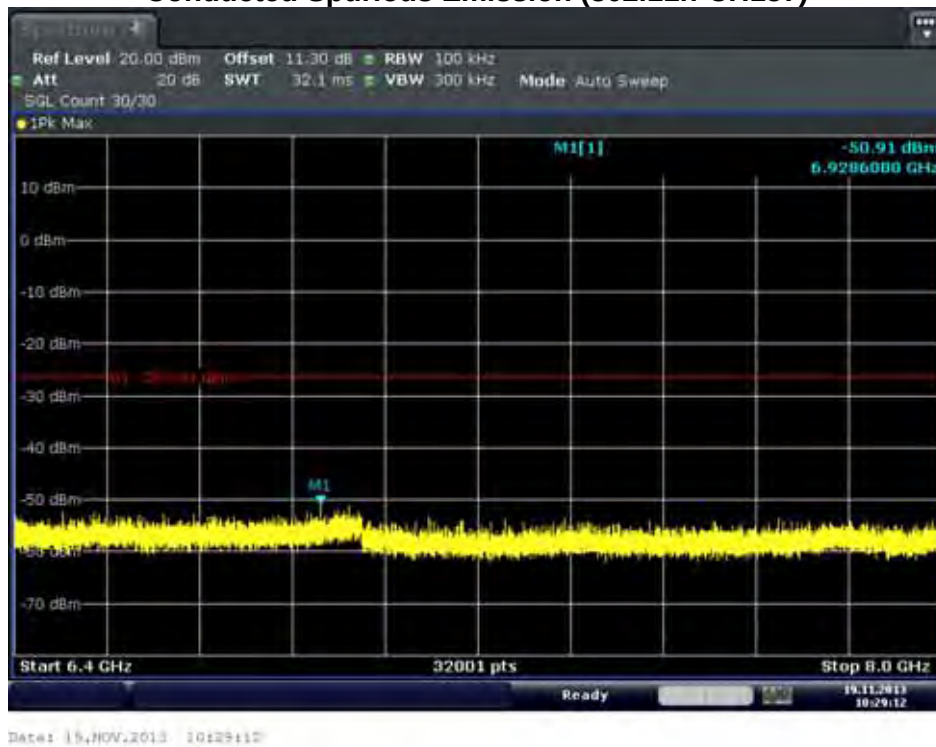
4.8 GHz ~ 6.4 GHz

Conducted Spurious Emission (802.11n-CH157)



6.4 GHz ~ 8 GHz

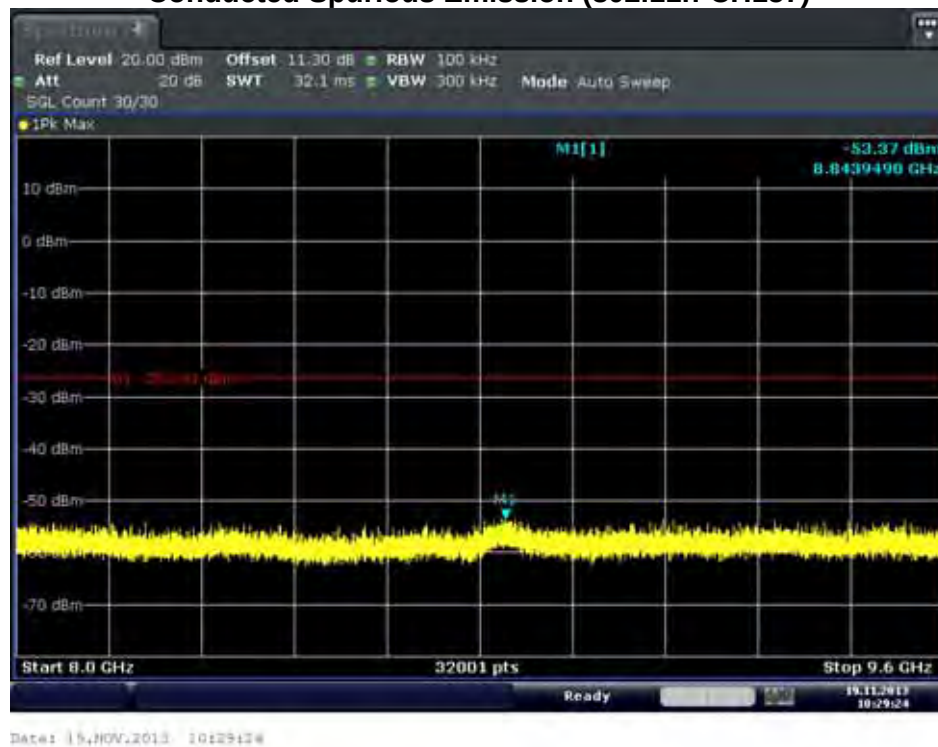
Conducted Spurious Emission (802.11n-CH157)



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1312FR13-1	Date of Issue: January 02, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA303I

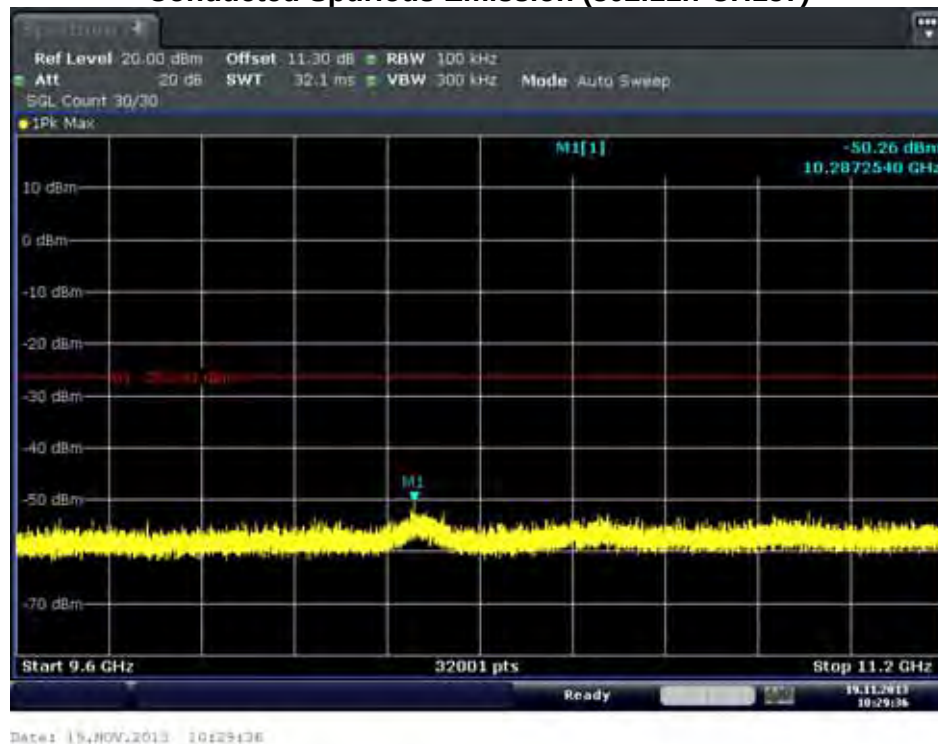
8 GHz ~ 9.6 GHz

Conducted Spurious Emission (802.11n-CH157)



9.6 GHz ~ 11.2 GHz

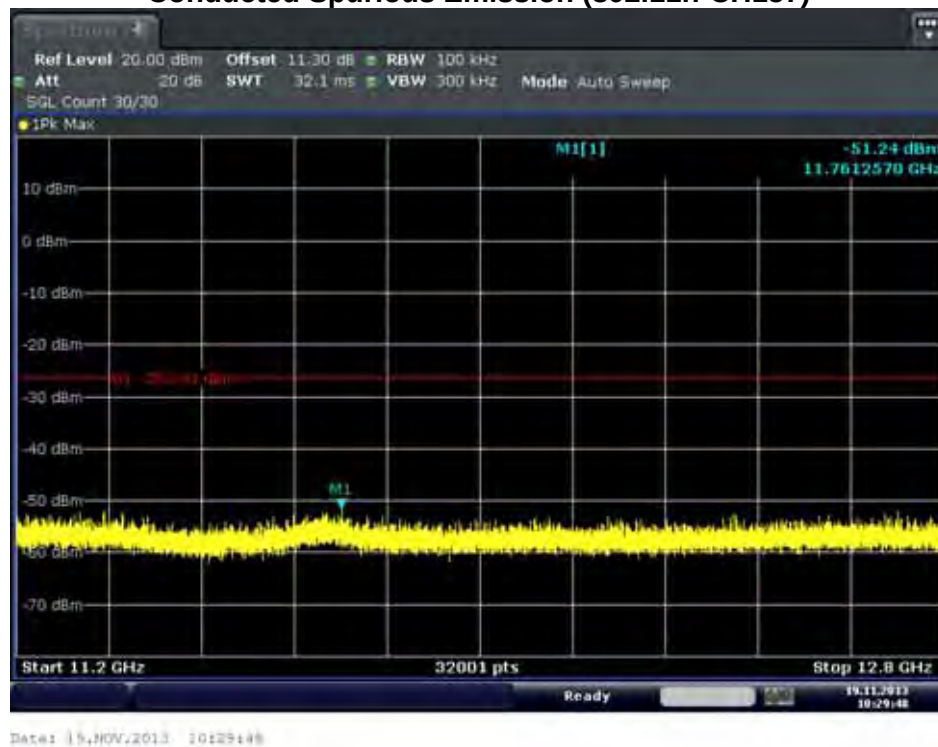
Conducted Spurious Emission (802.11n-CH157)



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1312FR13-1	Date of Issue: January 02,2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA303I

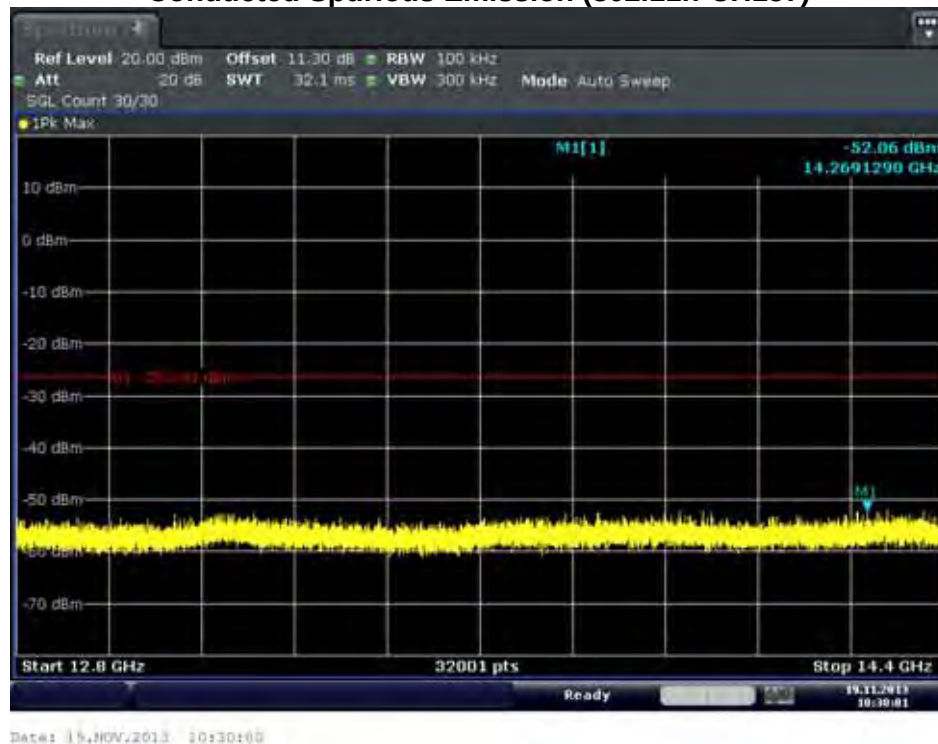
11.2 GHz ~ 12.8 GHz

Conducted Spurious Emission (802.11n-CH157)



12.8 GHz ~ 12.8 GHz

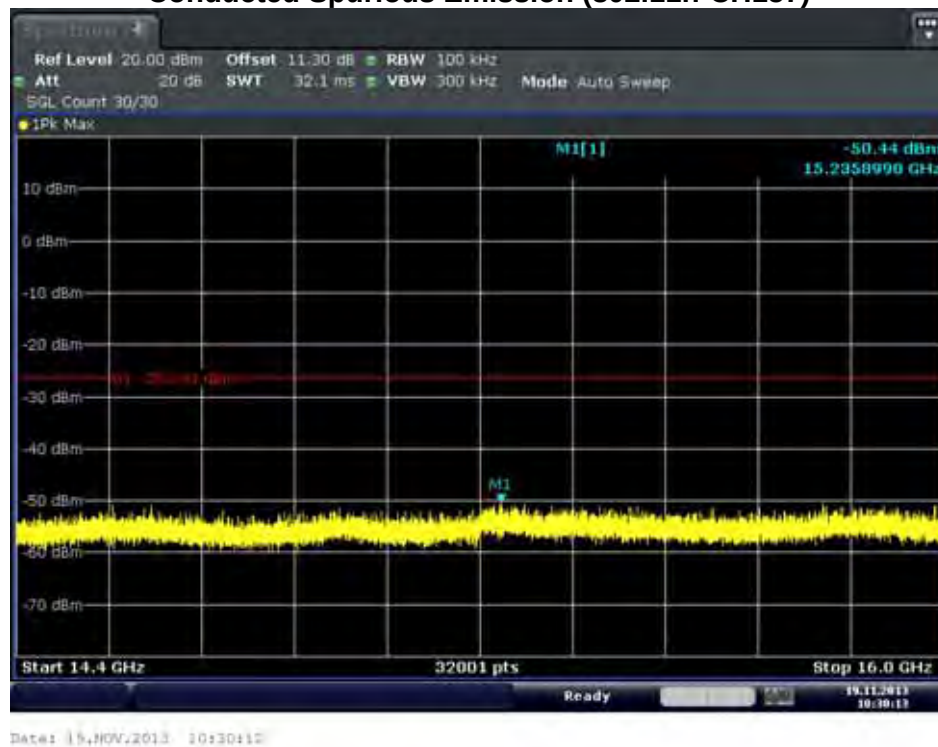
Conducted Spurious Emission (802.11n-CH157)



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1312FR13-1	Date of Issue: January 02, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA303I

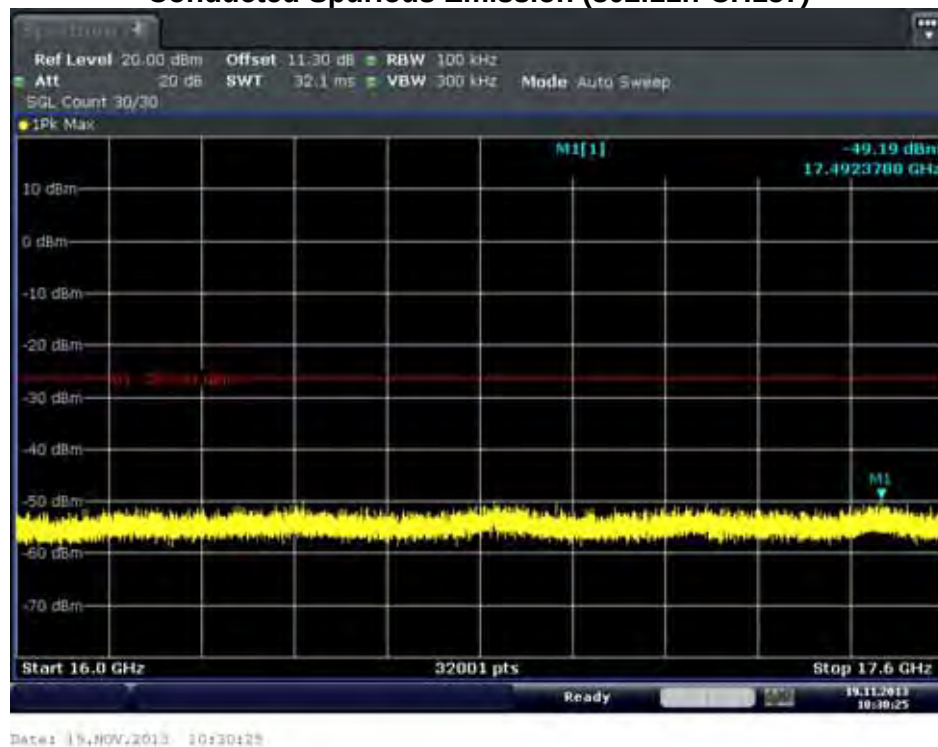
14.4 GHz ~ 16 GHz

Conducted Spurious Emission (802.11n-CH157)



16 GHz ~ 17.6 GHz

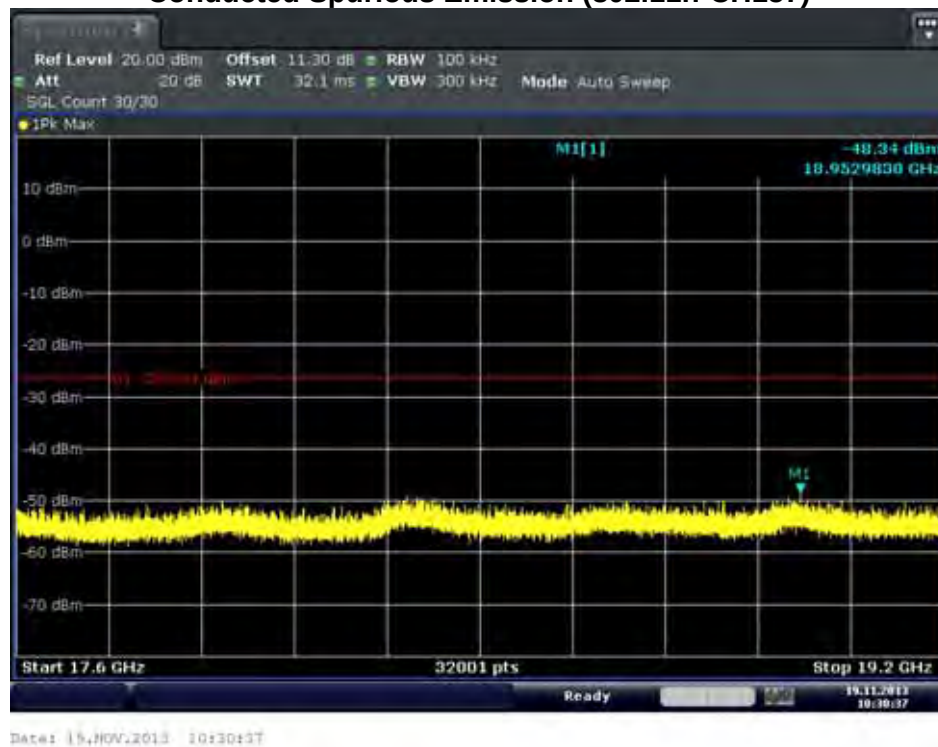
Conducted Spurious Emission (802.11n-CH157)



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1312FR13-1	Date of Issue: January 02, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA303I

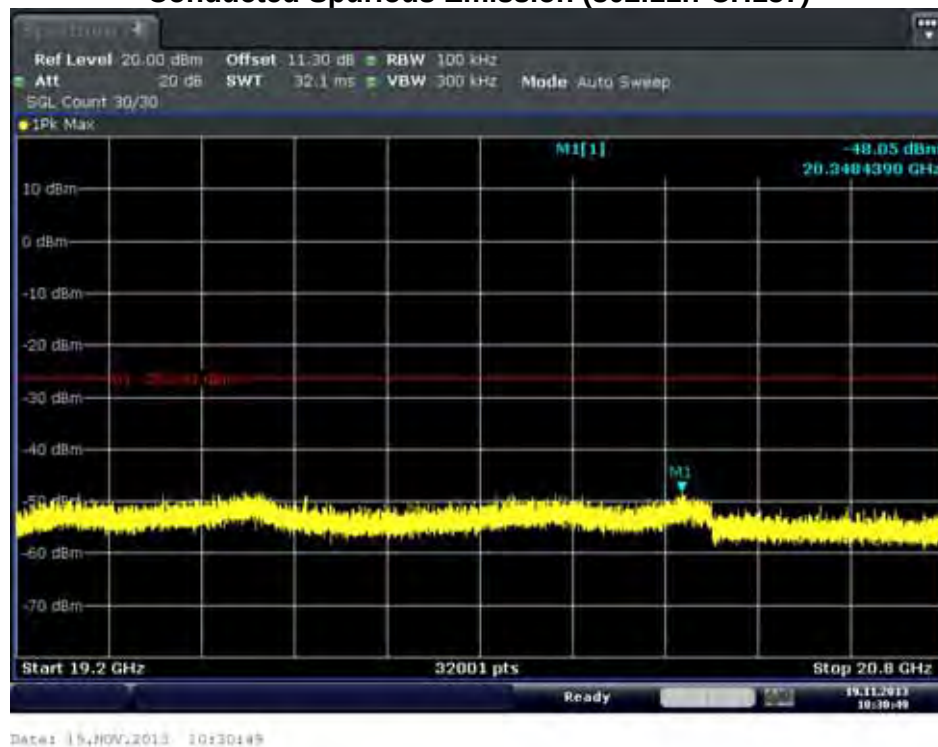
17.6 GHz ~ 19.2 GHz

Conducted Spurious Emission (802.11n-CH157)



19.2 GHz ~ 20.8 GHz

Conducted Spurious Emission (802.11n-CH157)



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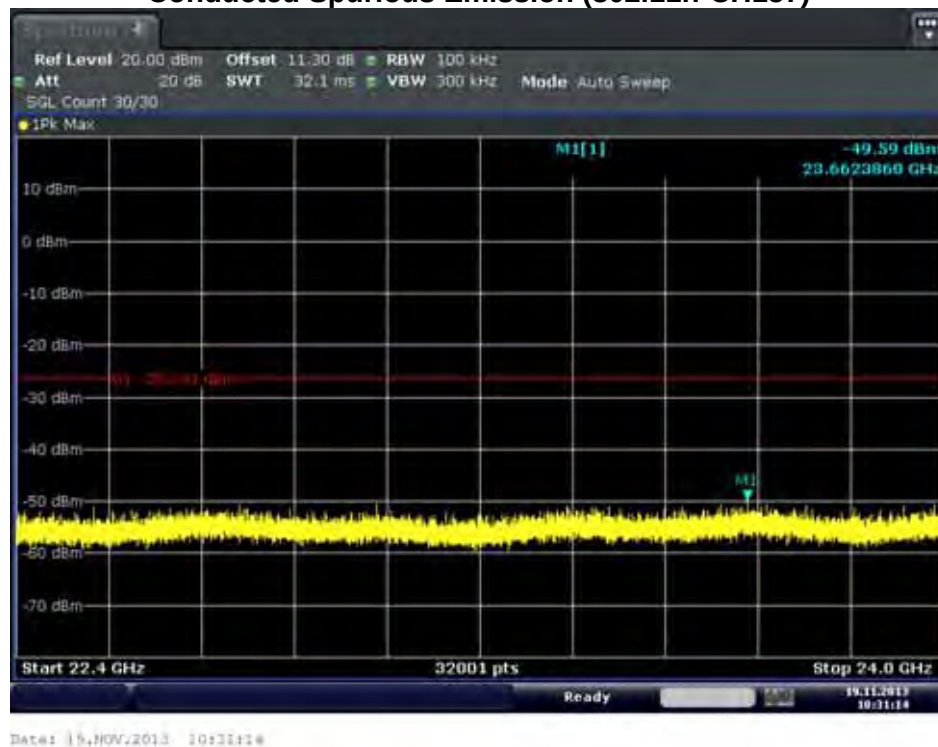
20.8 GHz ~ 22.4 GHz

Conducted Spurious Emission (802.11n-CH157)



22.4 GHz ~ 24 GHz

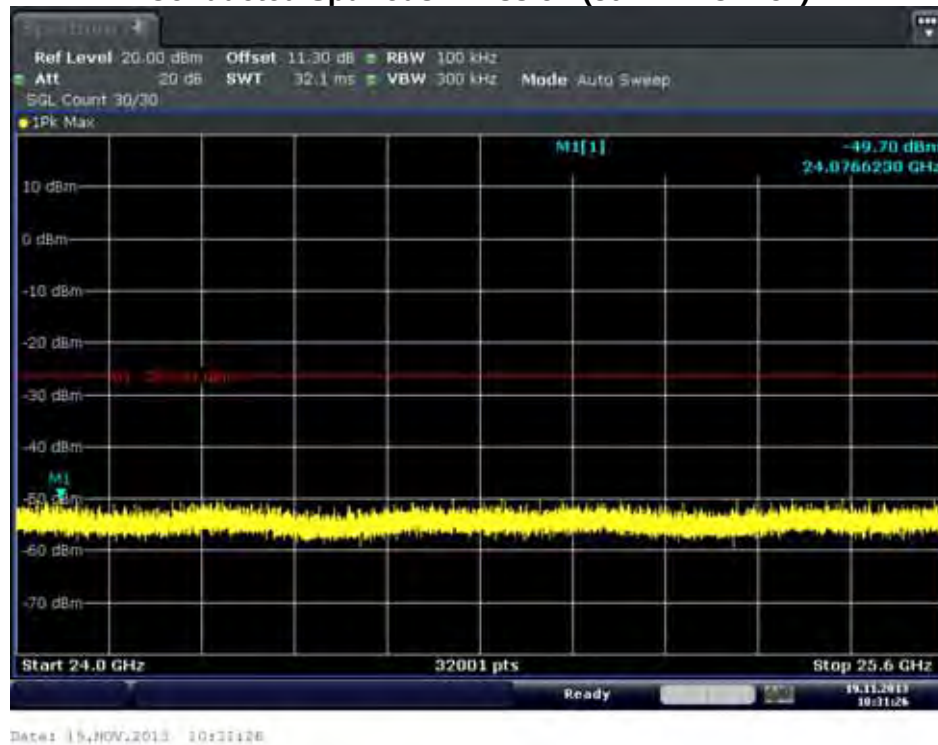
Conducted Spurious Emission (802.11n-CH157)



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1312FR13-1	Date of Issue: January 02, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA303I

24 GHz ~ 25.6 GHz

Conducted Spurious Emission (802.11n-CH157)



25.6 GHz ~ 27.2 GHz

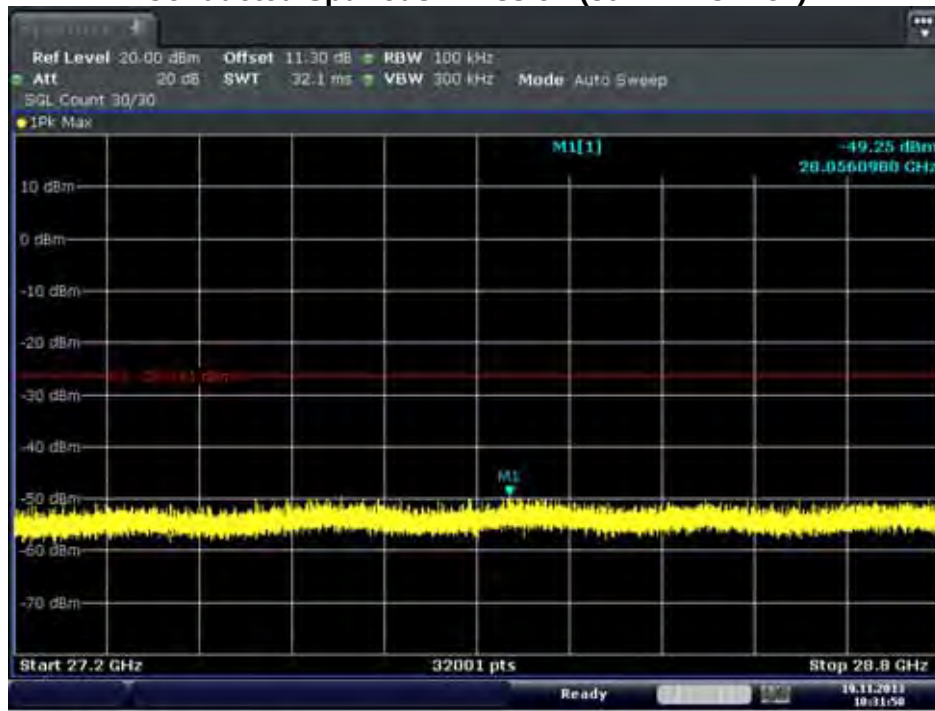
Conducted Spurious Emission (802.11n-CH157)



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1312FR13-1	Date of Issue: January 02, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA303I

27.2 GHz ~ 28.8 GHz

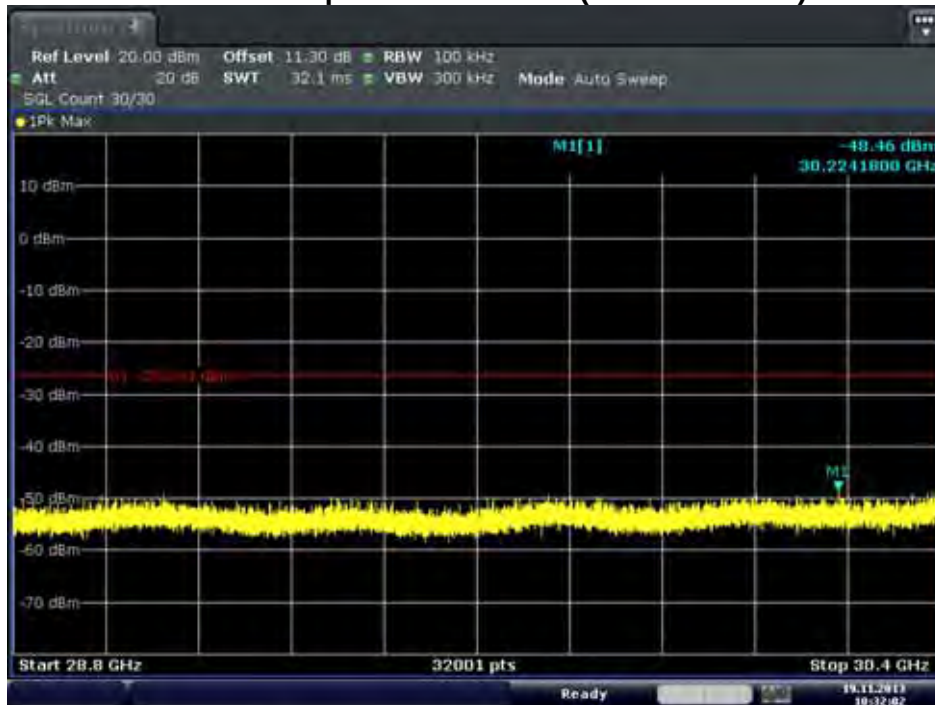
Conducted Spurious Emission (802.11n-CH157)



Date: 19, NOV, 2013 10:31:58

28.8 GHz ~ 30.4 GHz

Conducted Spurious Emission (802.11n-CH157)

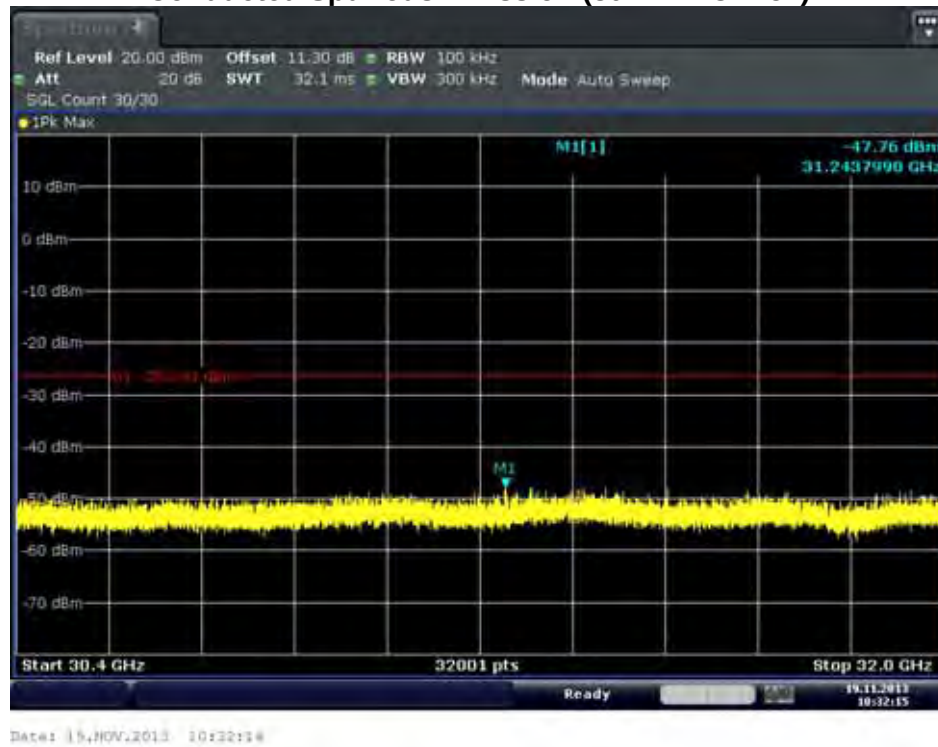


Date: 19, NOV, 2013 10:32:02

FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1312FR13-1	Date of Issue: January 02, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA303I

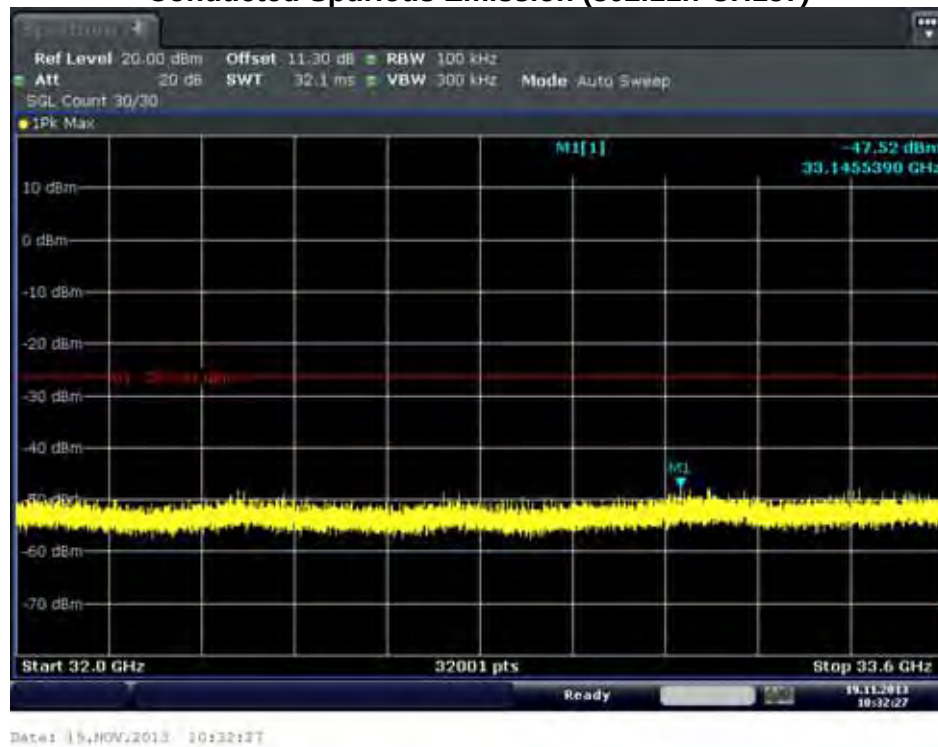
30.4 GHz ~ 32 GHz

Conducted Spurious Emission (802.11n-CH157)



32 GHz ~ 33.6 GHz

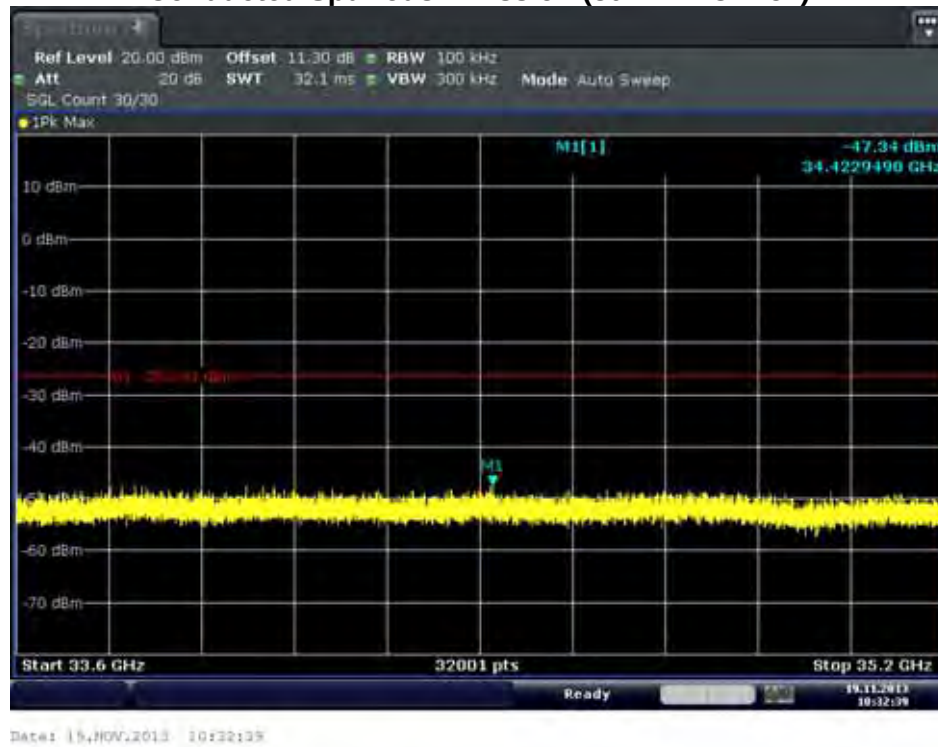
Conducted Spurious Emission (802.11n-CH157)



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1312FR13-1	Date of Issue: January 02, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA303I

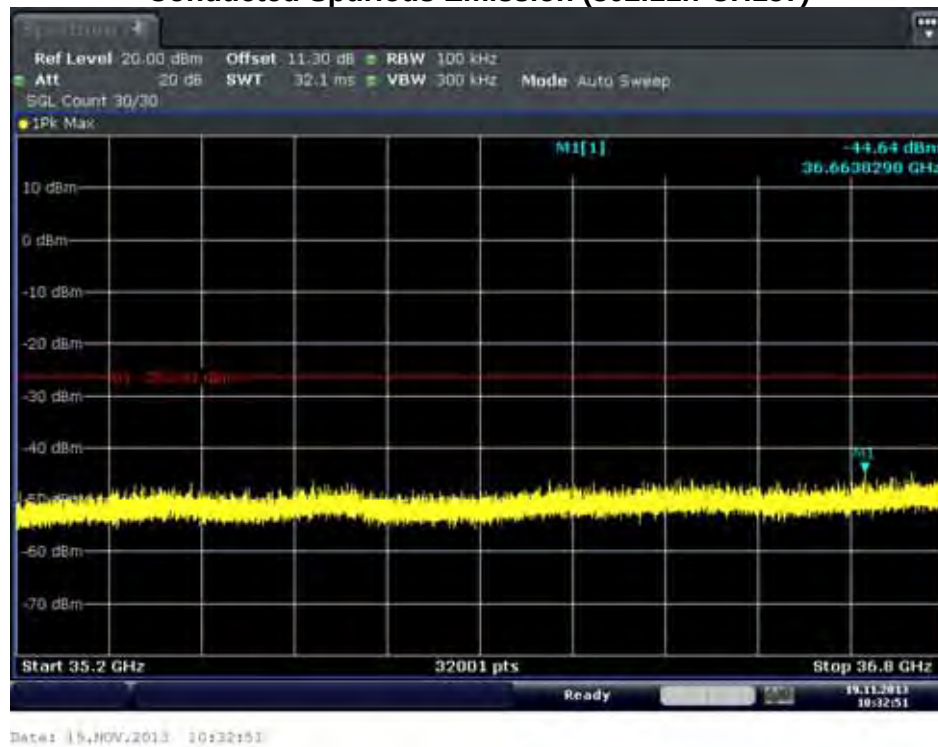
33.6 GHz ~ 35.2 GHz

Conducted Spurious Emission (802.11n-CH157)



35.2 GHz ~ 36.8 GHz

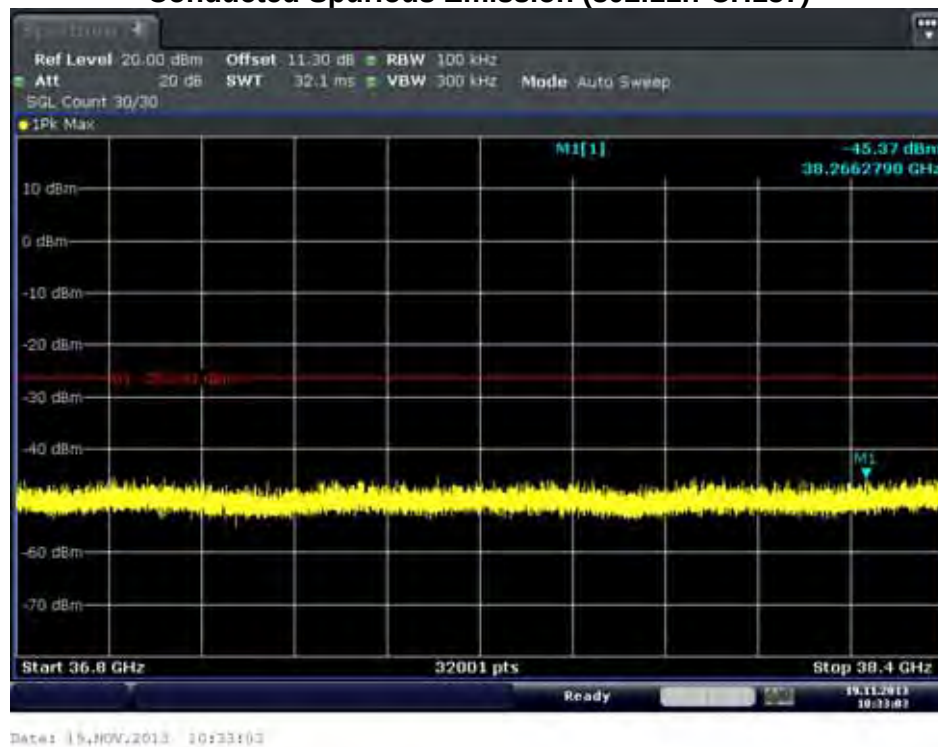
Conducted Spurious Emission (802.11n-CH157)



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1312FR13-1	Date of Issue: January 02, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA303I

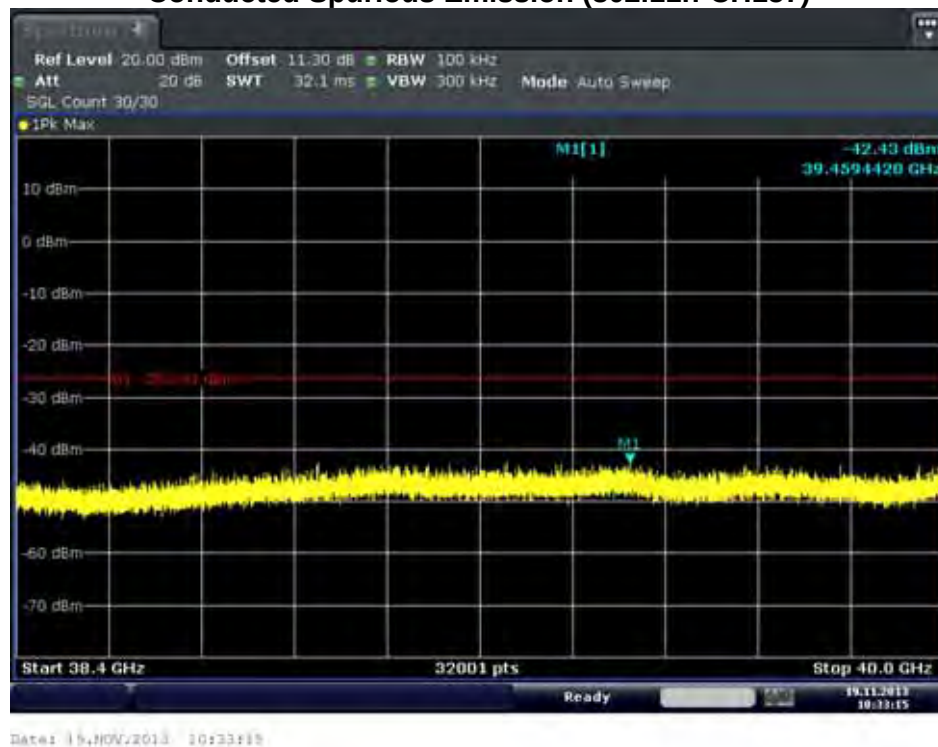
36.8 GHz ~ 38.4 GHz

Conducted Spurious Emission (802.11n-CH157)



38.4 GHz ~ 40 GHz

Conducted Spurious Emission (802.11n-CH157)



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
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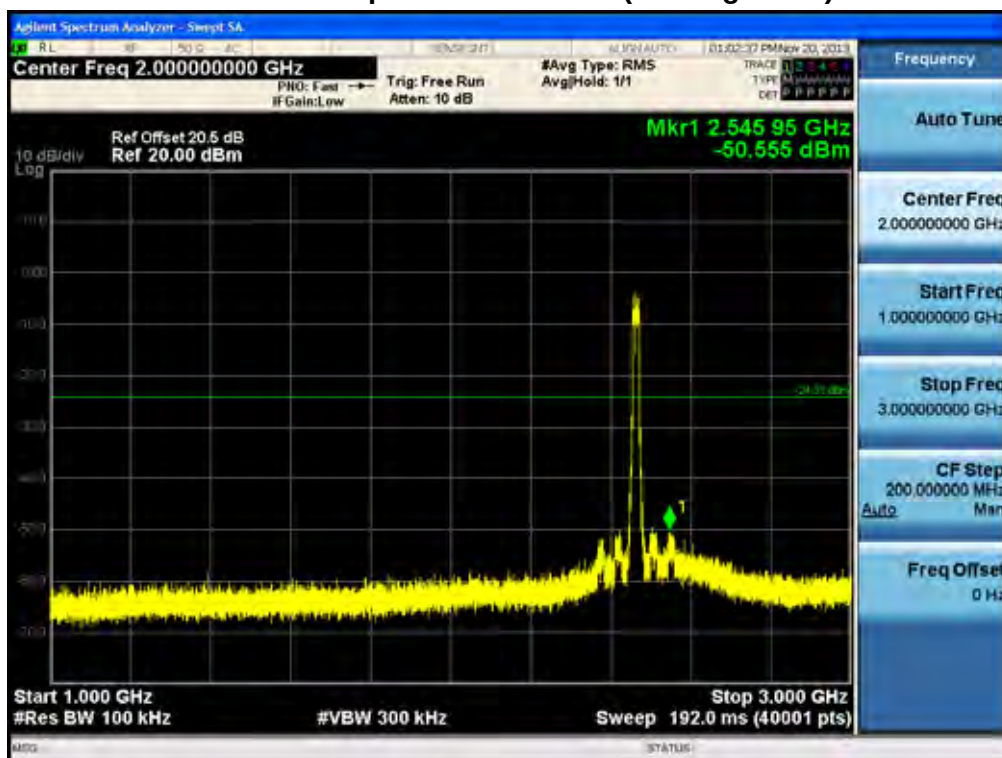
Service Port Ant.3
30 MHz ~ 1 GHz

Conducted Spurious Emission (802.11g-CH11)



1 GHz ~ 3 GHz

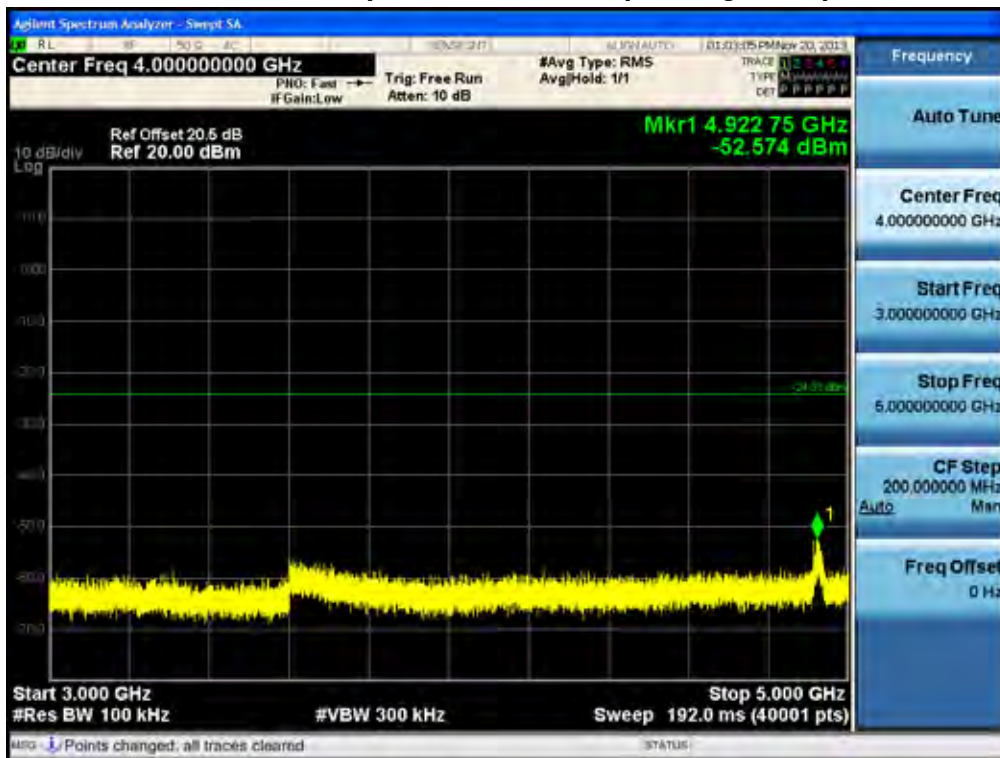
Conducted Spurious Emission (802.11g-CH11)



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1312FR13-1	Date of Issue: January 02,2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA303I

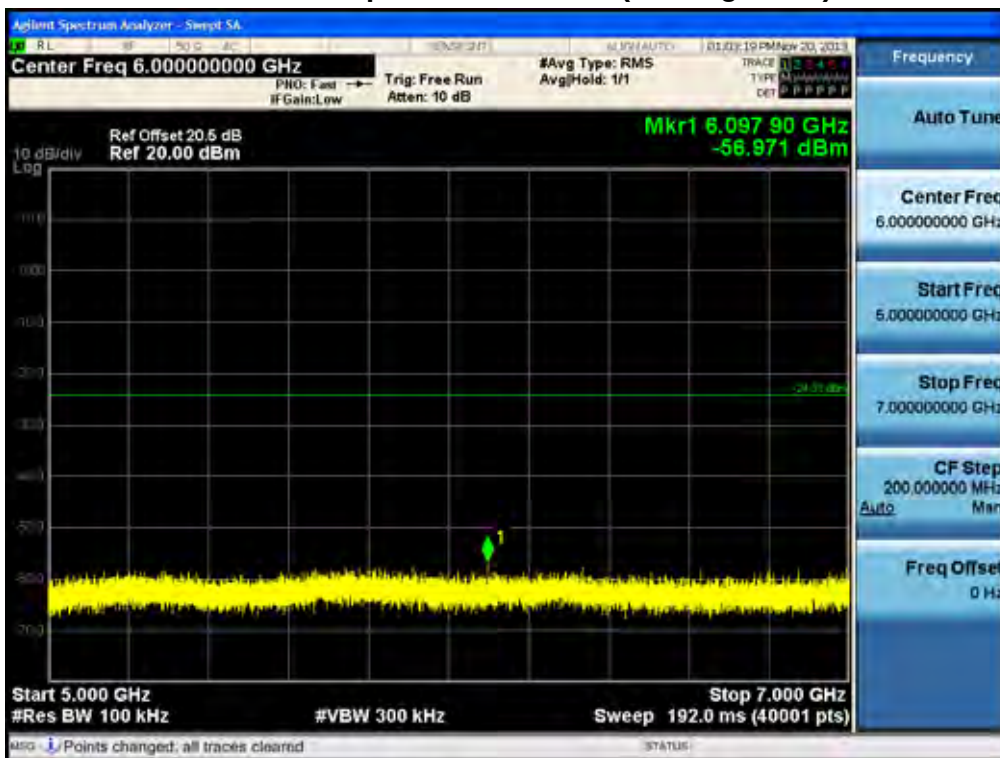
3 GHz ~ 5 GHz

Conducted Spurious Emission (802.11g-CH11)



5 GHz ~ 7 GHz

Conducted Spurious Emission (802.11g-CH11)



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1312FR13-1	Date of Issue: January 02, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA303I

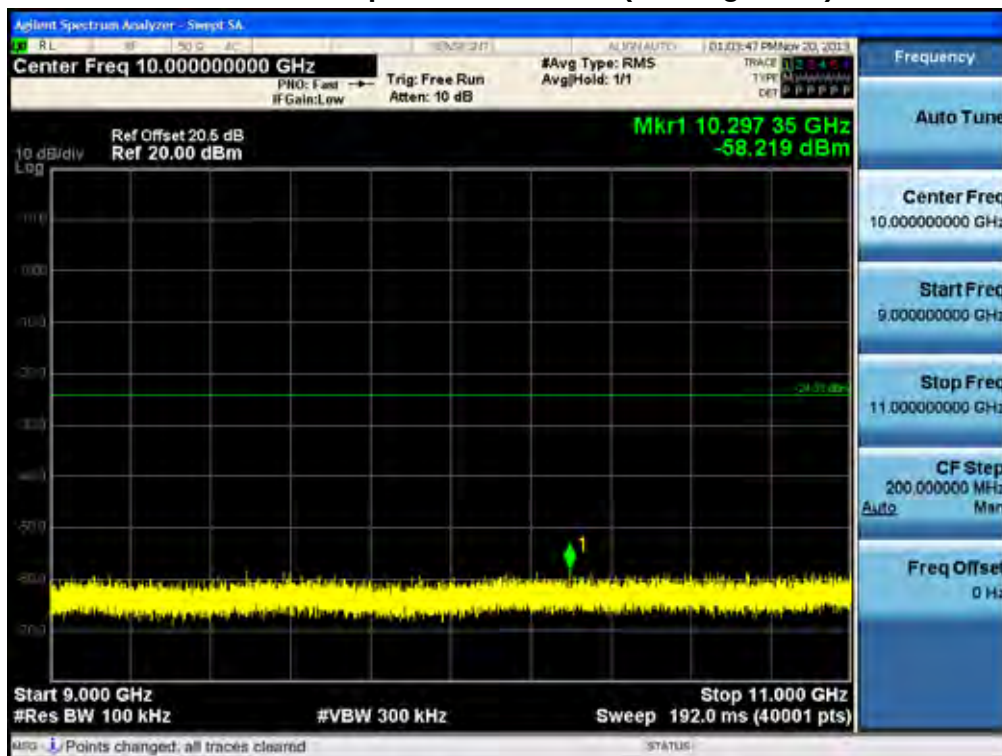
7 GHz ~ 9 GHz

Conducted Spurious Emission (802.11g-CH11)



9 GHz ~ 11 GHz

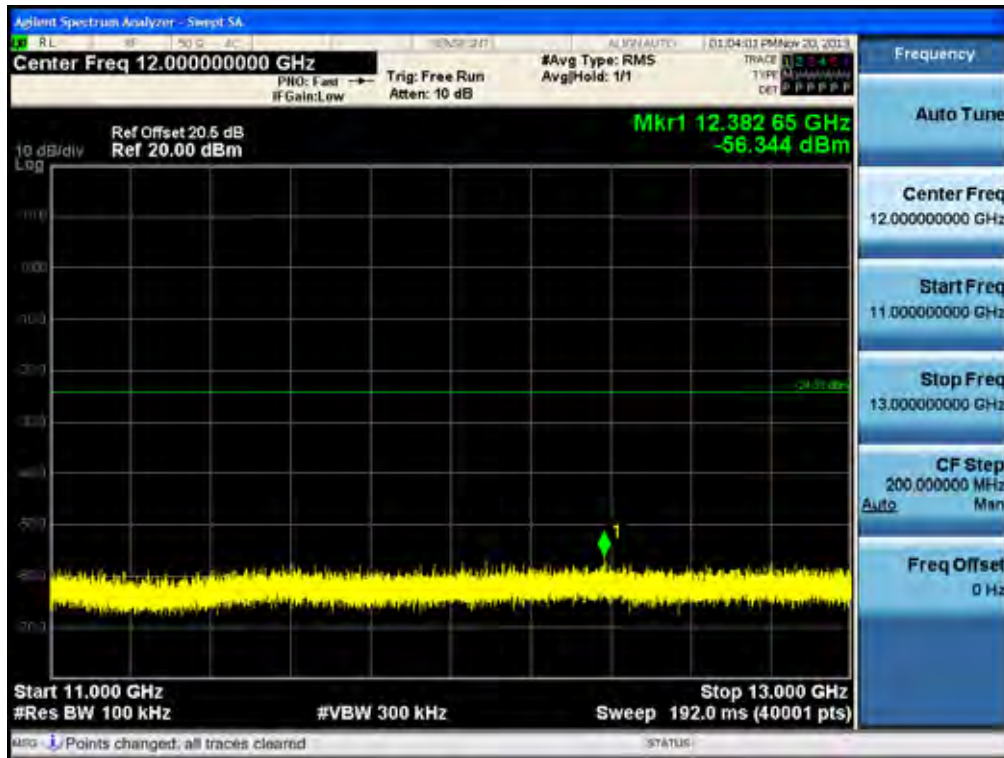
Conducted Spurious Emission (802.11g-CH11)



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1312FR13-1	Date of Issue: January 02, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA303I

11 GHz ~ 13 GHz

Conducted Spurious Emission (802.11g-CH11)



13 GHz ~ 15 GHz

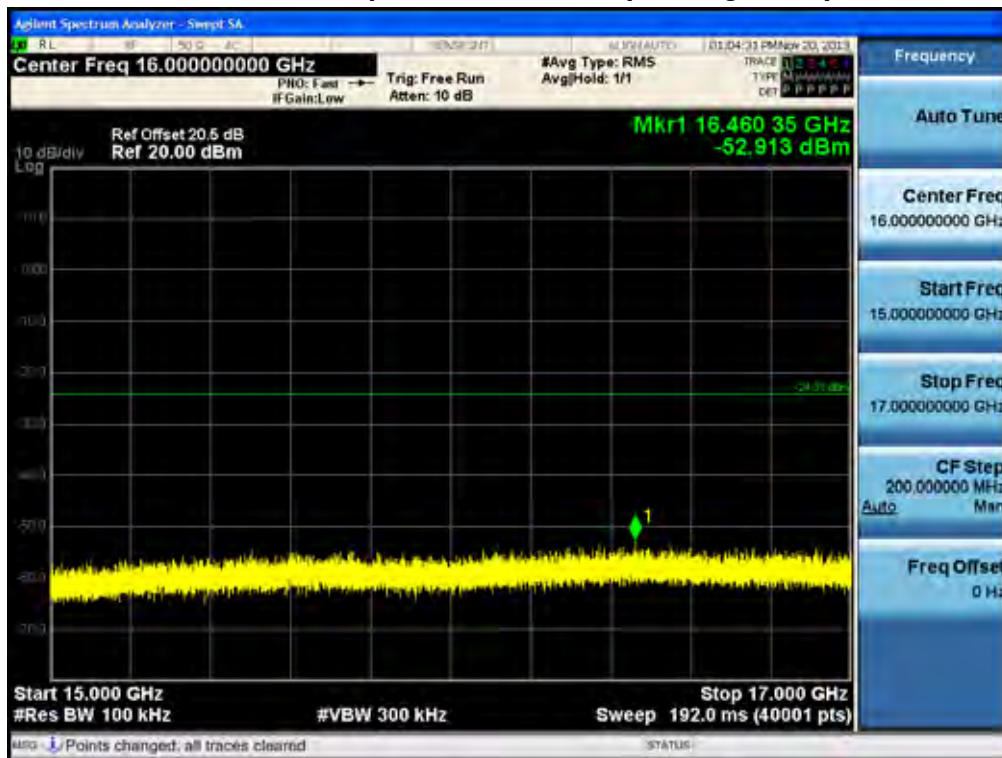
Conducted Spurious Emission (802.11g-CH11)



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1312FR13-1	Date of Issue: January 02, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA303I

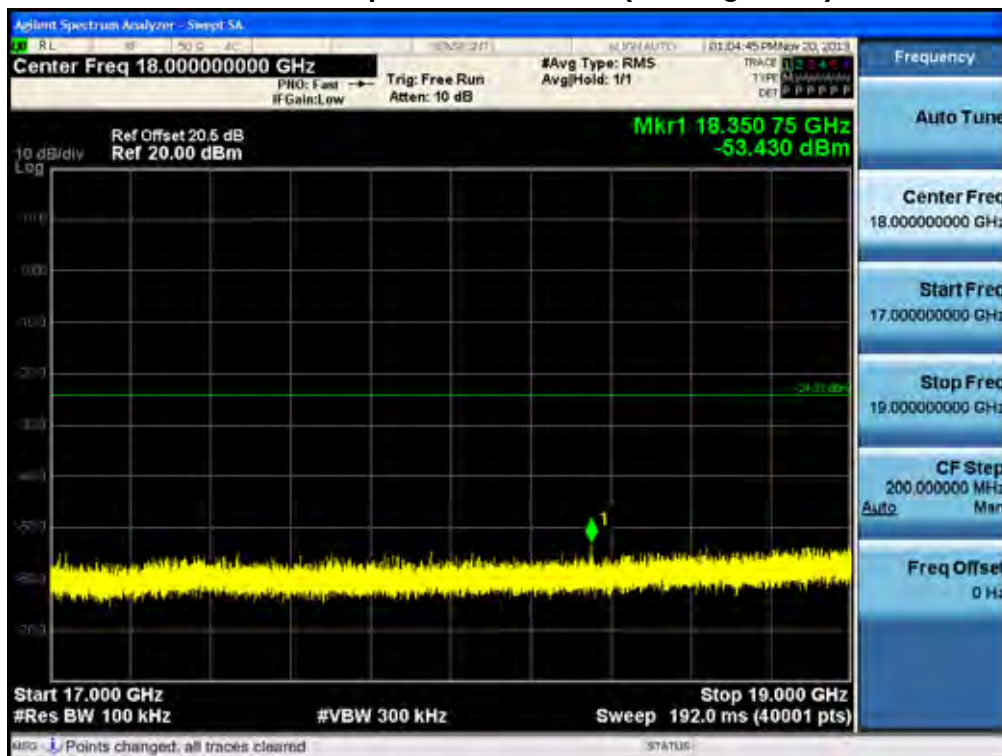
15 GHz ~ 17 GHz

Conducted Spurious Emission (802.11g-CH11)



17 GHz ~ 19 GHz

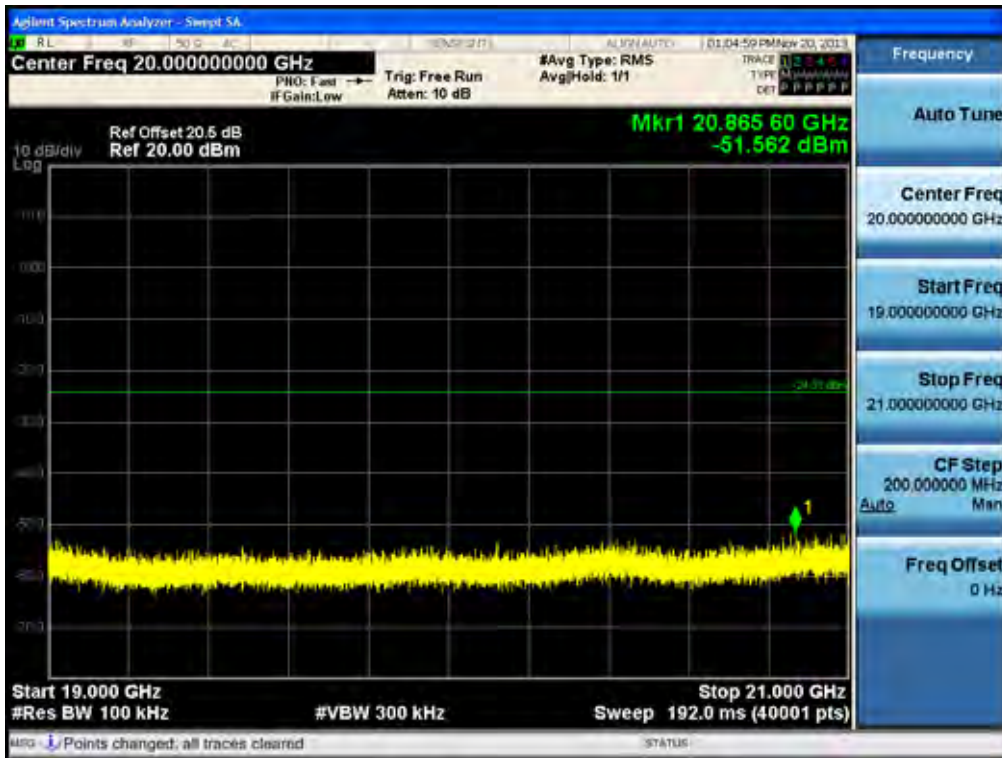
Conducted Spurious Emission (802.11g-CH11)



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1312FR13-1	Date of Issue: January 02, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA303I

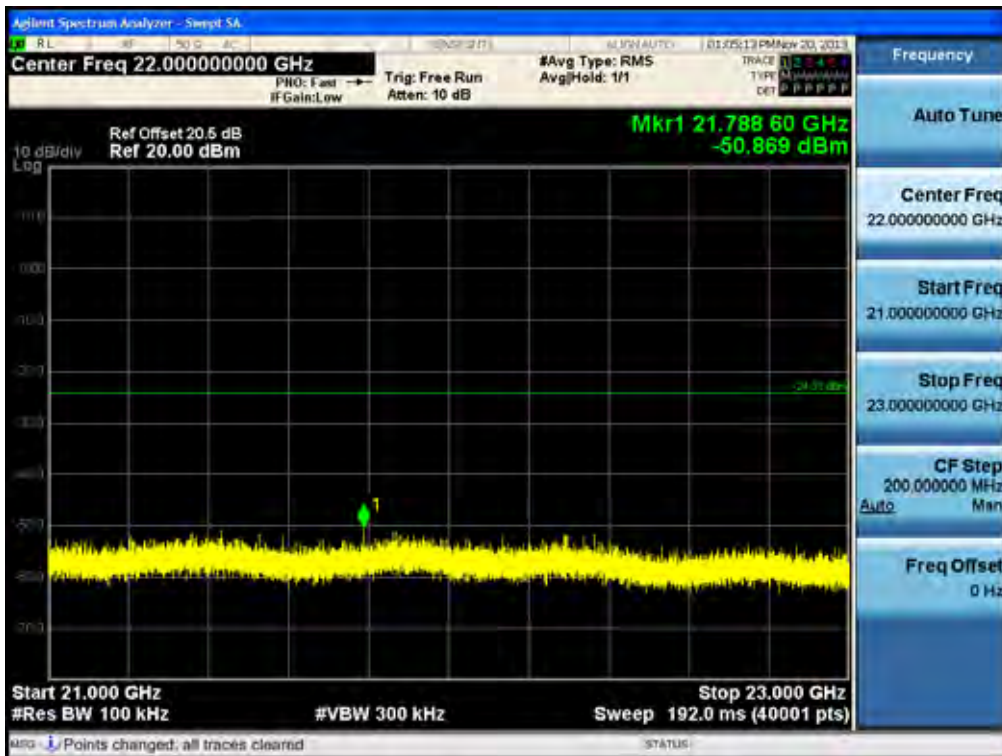
19 GHz ~ 21 GHz

Inducted Spurious Emission (802.11g-CH11)



21 GHz ~ 23 GHz

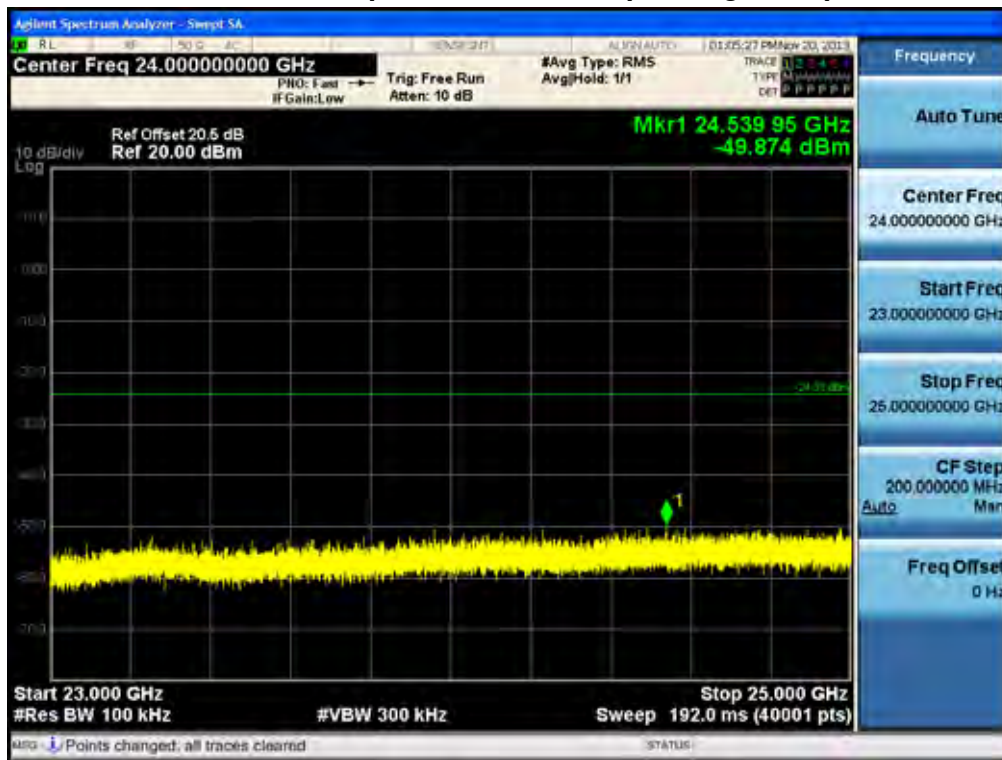
Conducted Spurious Emission (802.11g-CH11)



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1312FR13-1	Date of Issue: January 02, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA303I

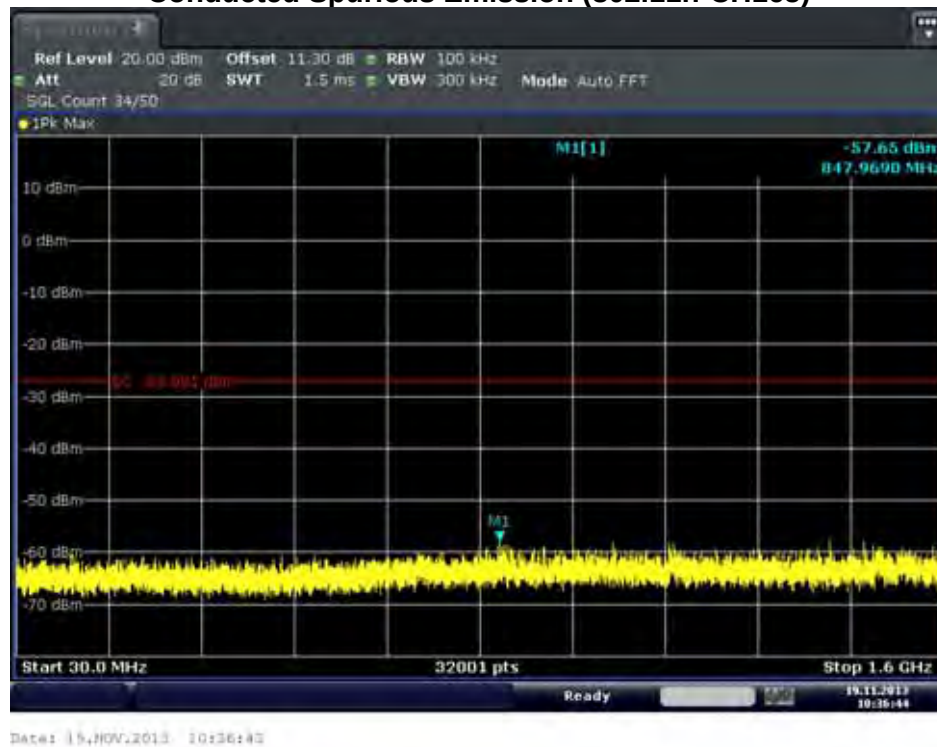
23 GHz ~ 25 GHz

Conducted Spurious Emission (802.11g-CH11)



30 MHz ~ 1.6 GHz

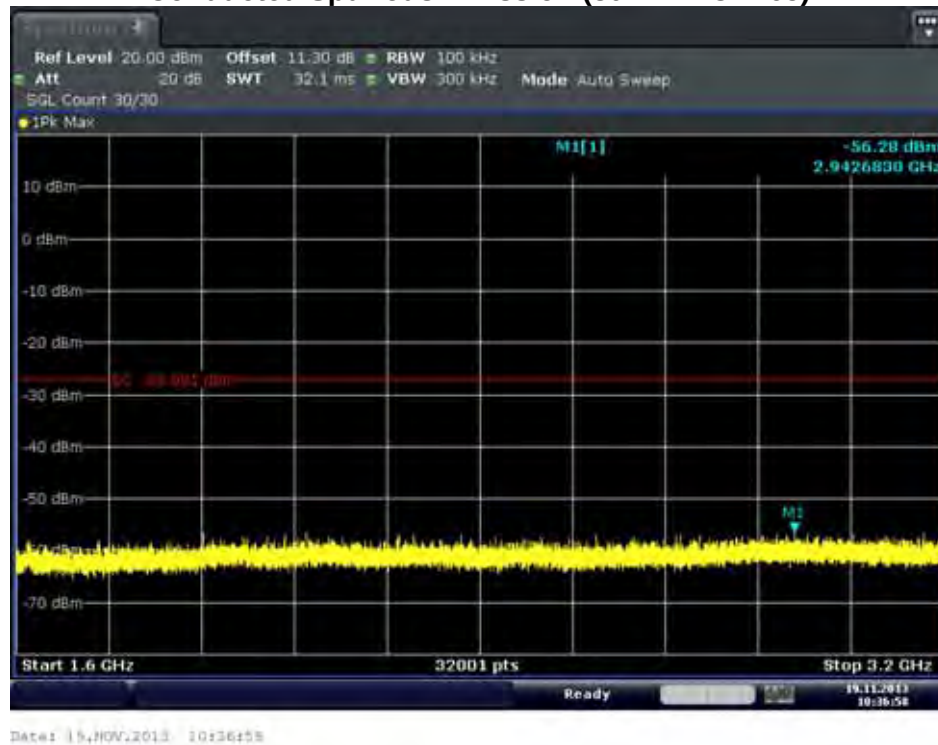
Conducted Spurious Emission (802.11n-CH165)



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1312FR13-1	Date of Issue: January 02, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA303I

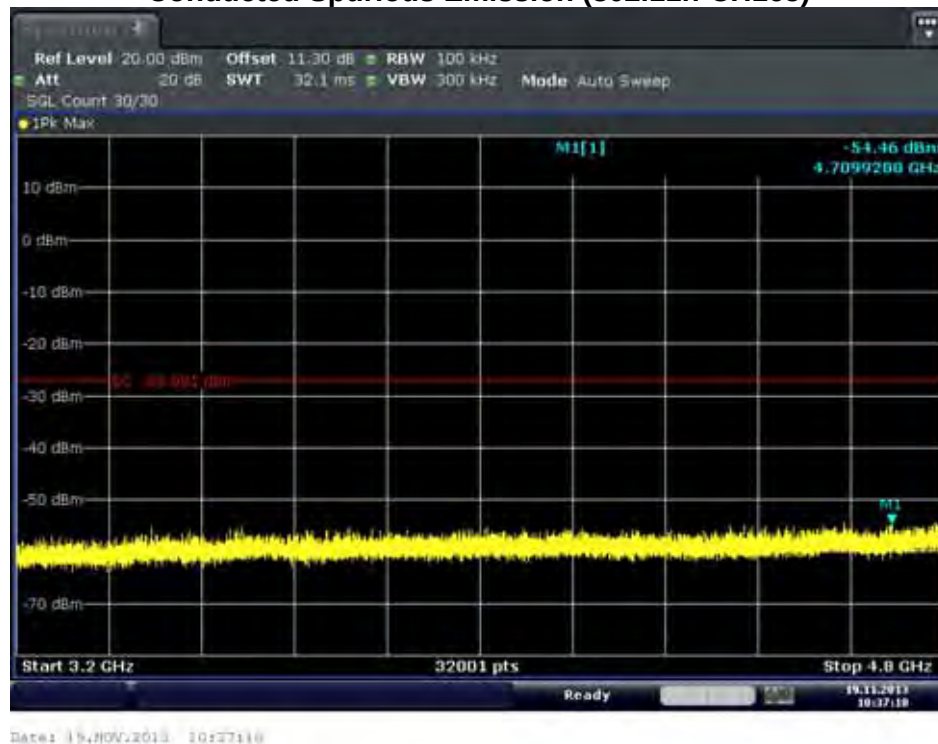
1.6 GHz ~ 3.2 GHz

Conducted Spurious Emission (802.11n-CH165)



3.2 GHz ~ 4.8 GHz

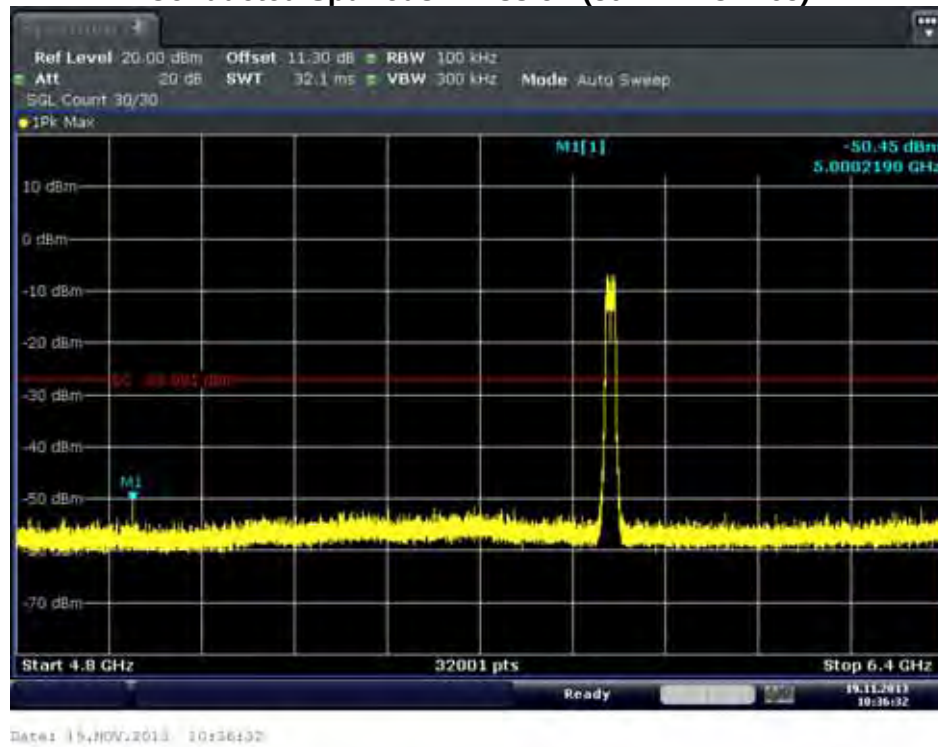
Conducted Spurious Emission (802.11n-CH165)



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1312FR13-1	Date of Issue: January 02, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA303I

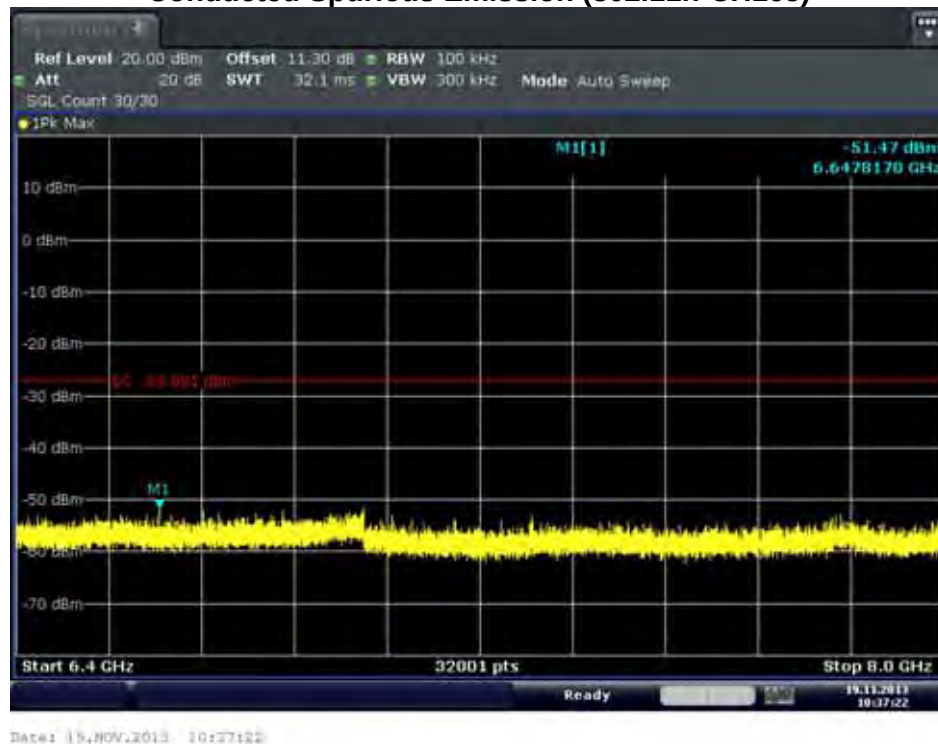
4.8 GHz ~ 6.4 GHz

Conducted Spurious Emission (802.11n-CH165)



6.4 GHz ~ 8 GHz

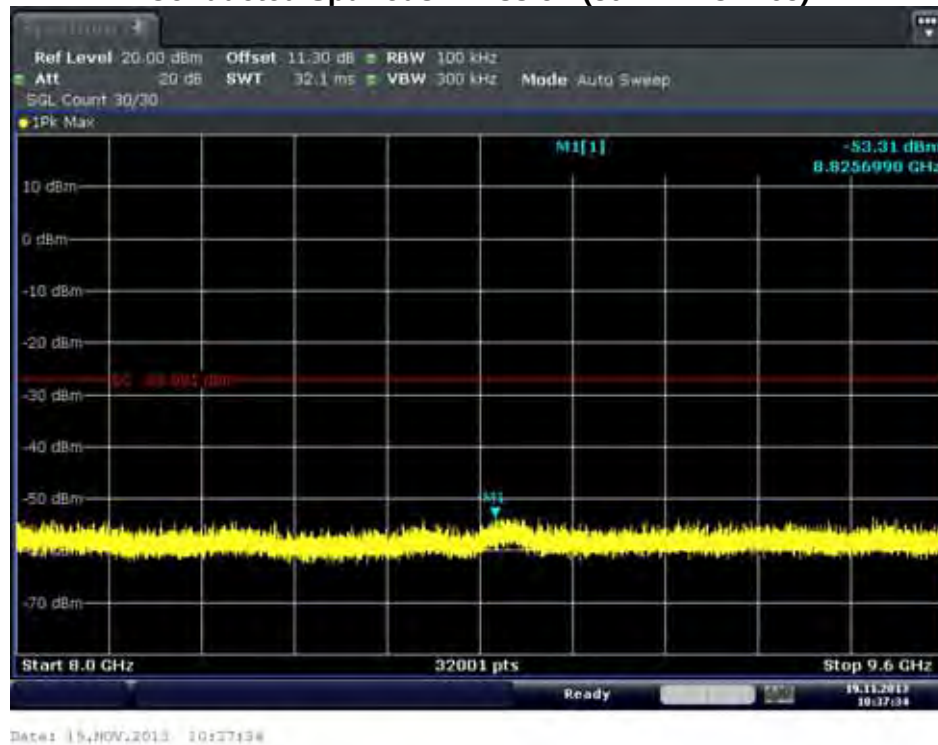
Conducted Spurious Emission (802.11n-CH165)



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1312FR13-1	Date of Issue: January 02,2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA303I

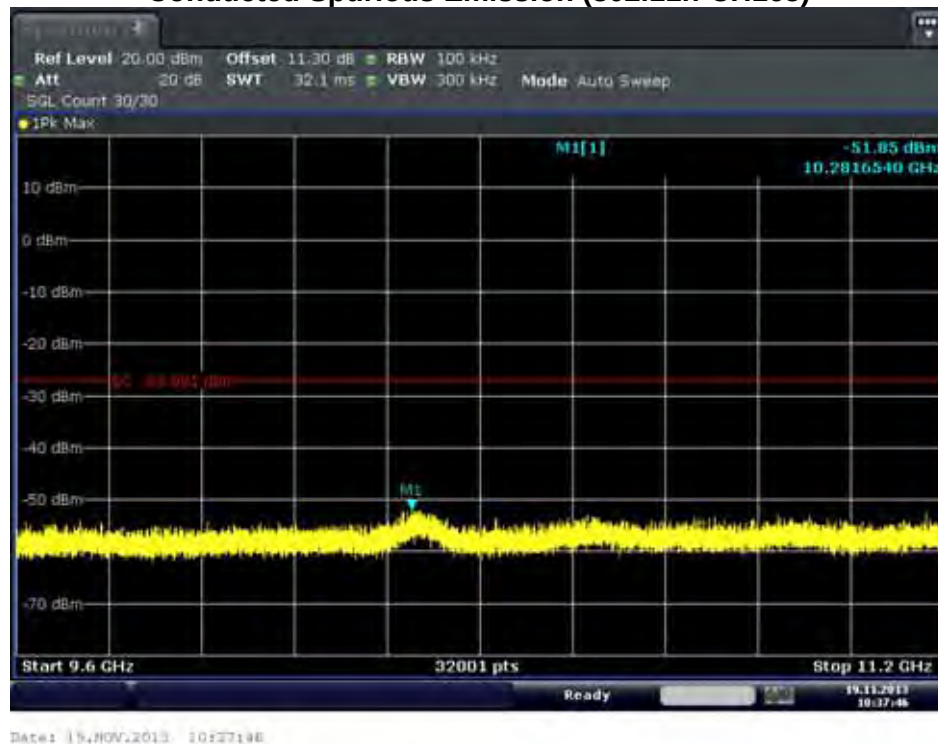
8 GHz ~ 9.6 GHz

Conducted Spurious Emission (802.11n-CH165)



9.6 GHz ~ 11.2 GHz

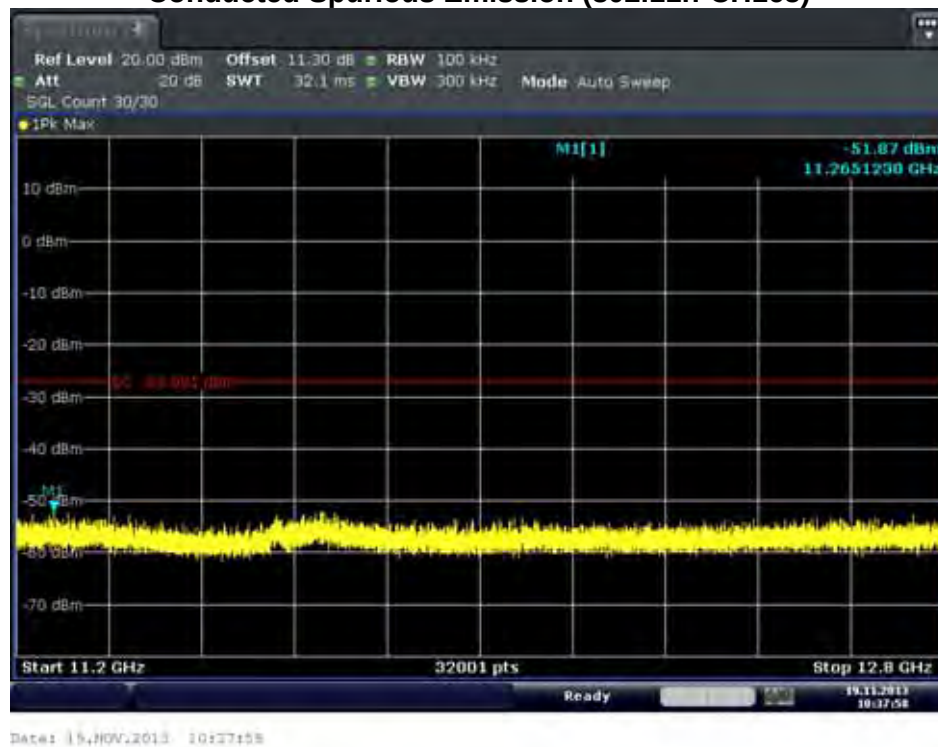
Conducted Spurious Emission (802.11n-CH165)



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1312FR13-1	Date of Issue: January 02, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA303I

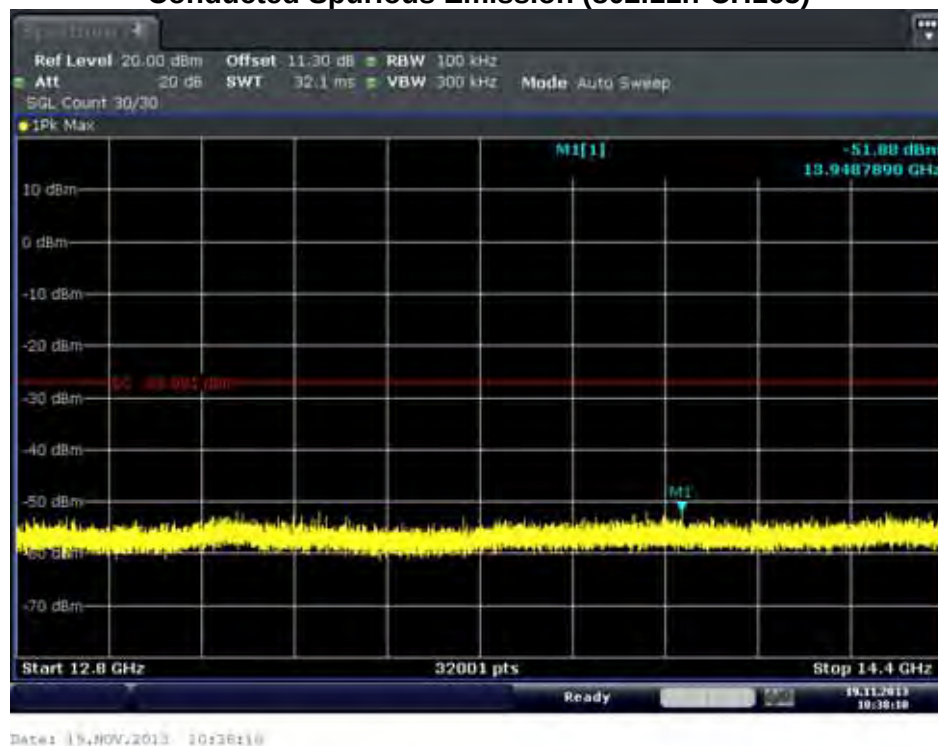
11.2 GHz ~ 12.8 GHz

Conducted Spurious Emission (802.11n-CH165)



12.8 GHz ~ 12.8 GHz

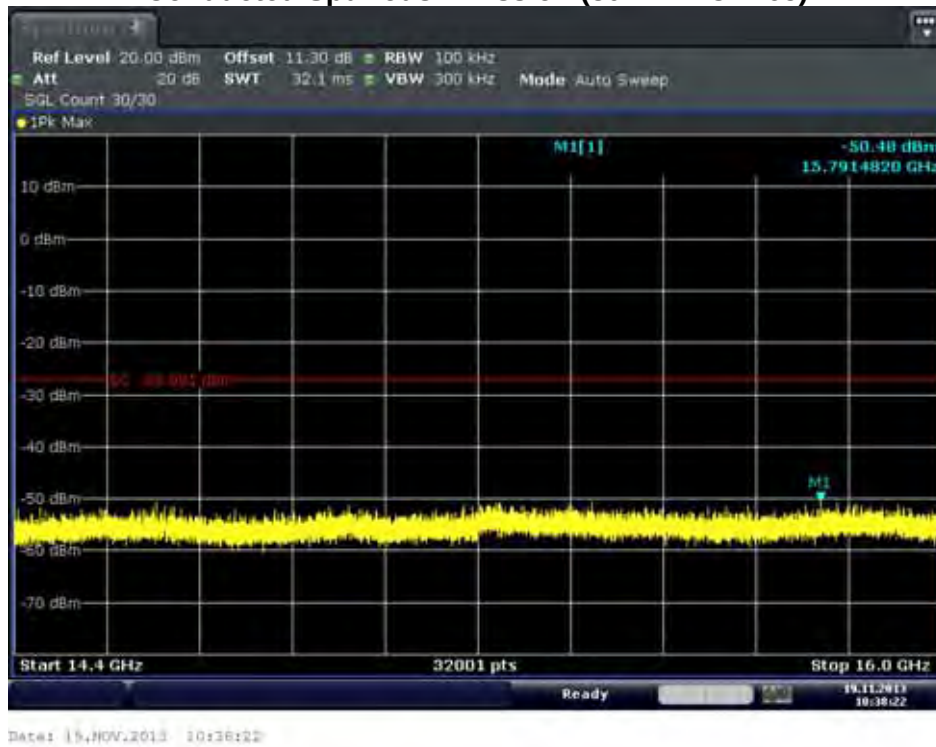
Conducted Spurious Emission (802.11n-CH165)



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1312FR13-1	Date of Issue: January 02, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA303I

14.4 GHz ~ 16 GHz

Conducted Spurious Emission (802.11n-CH165)



16 GHz ~ 17.6 GHz

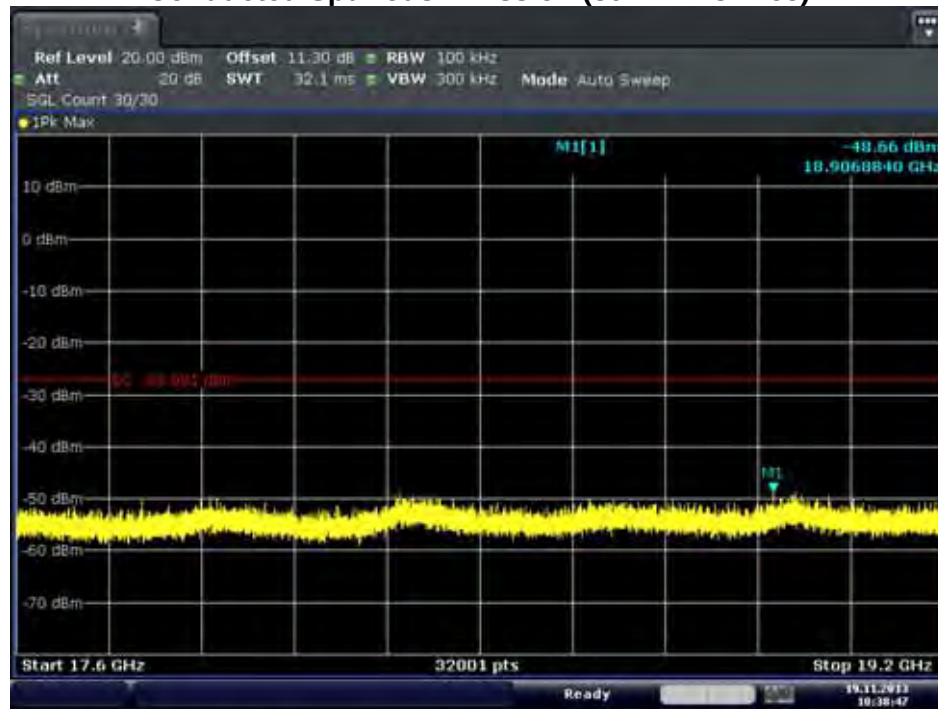
Conducted Spurious Emission (802.11n-CH165)



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1312FR13-1	Date of Issue: January 02, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA303I

17.6 GHz ~ 19.2 GHz

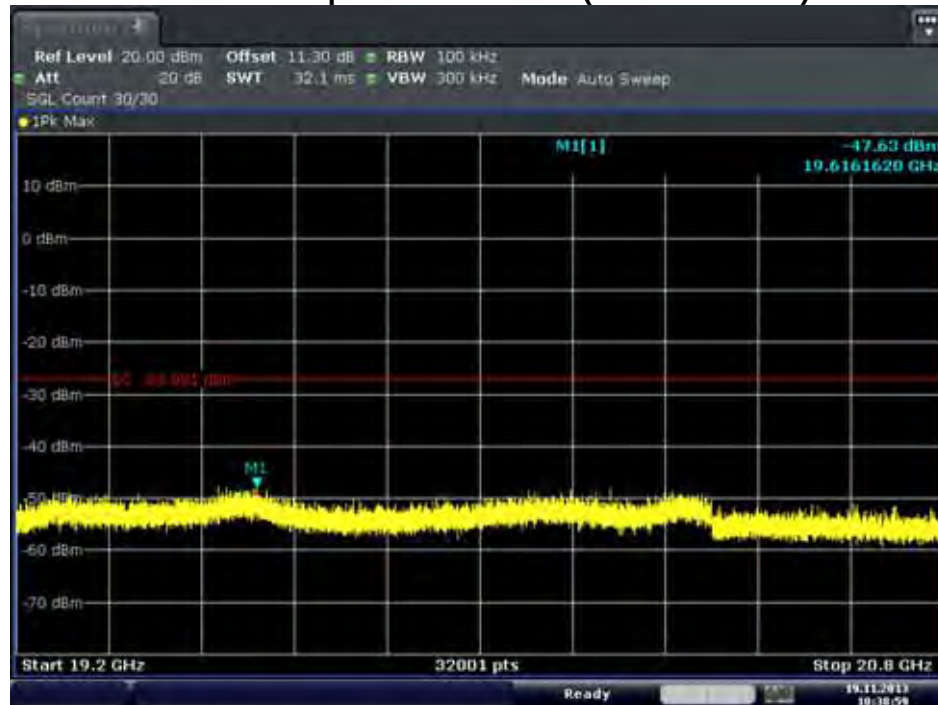
Conducted Spurious Emission (802.11n-CH165)



Date: 15, NOV, 2013 10:38:47

19.2 GHz ~ 20.8 GHz

Conducted Spurious Emission (802.11n-CH165)



Date: 15, NOV, 2013 10:38:58

FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1312FR13-1	Date of Issue: January 02, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA303I

20.8 GHz ~ 22.4 GHz

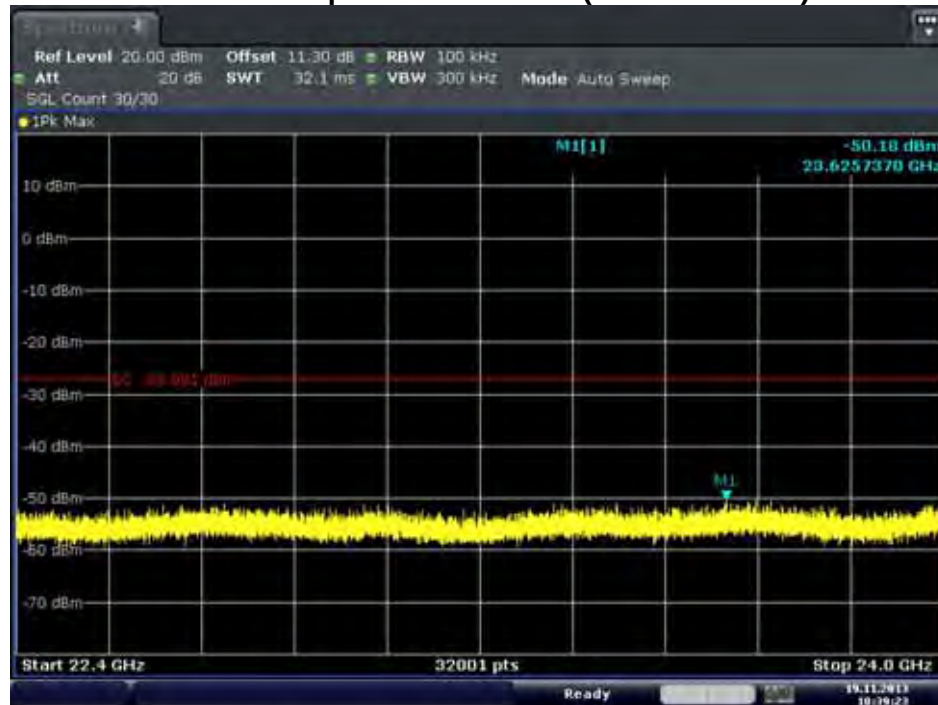
Conducted Spurious Emission (802.11n-CH165)



Date: 15, NOV, 2013 10:39:11

22.4 GHz ~ 24 GHz

Conducted Spurious Emission (802.11n-CH165)

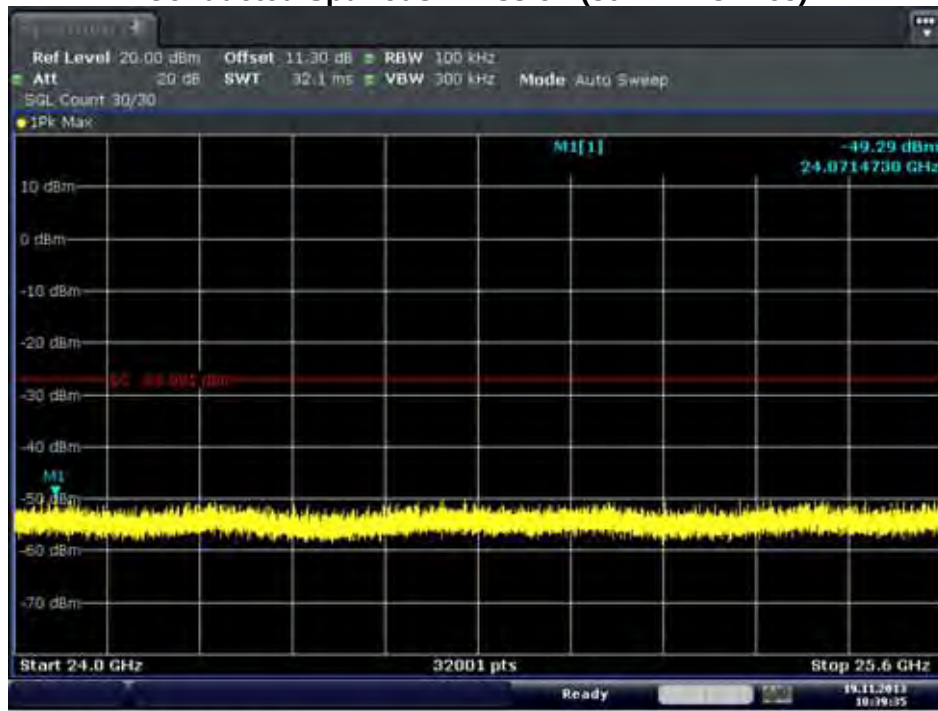


Date: 15, NOV, 2013 10:39:23

FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1312FR13-1	Date of Issue: January 02, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA303I

24 GHz ~ 25.6 GHz

Conducted Spurious Emission (802.11n-CH165)



25.6 GHz ~ 27.2 GHz

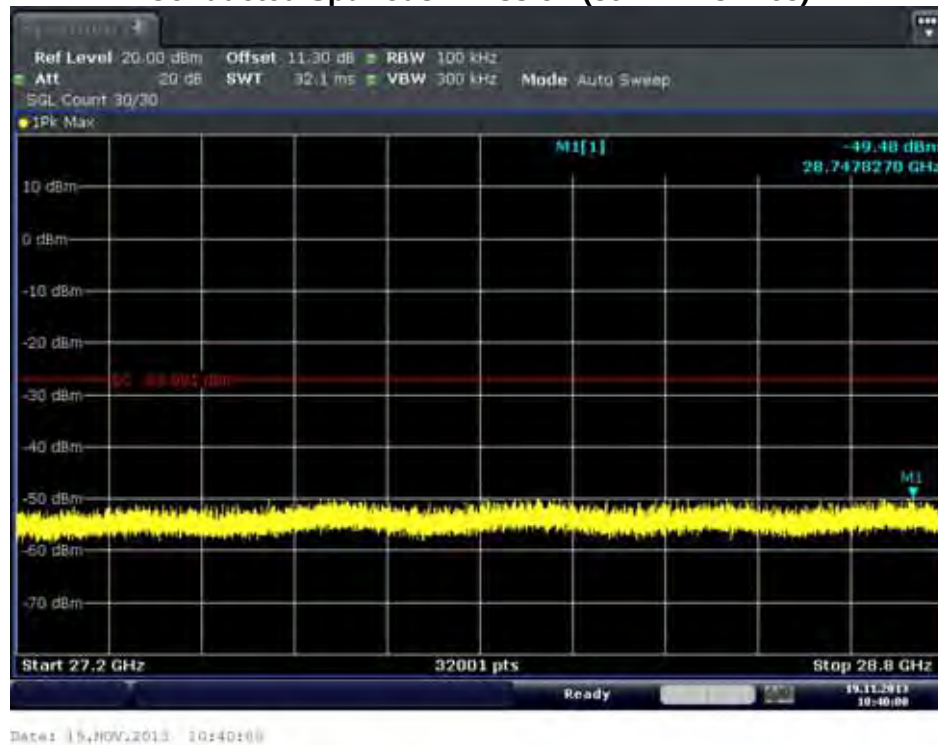
Conducted Spurious Emission (802.11n-CH165)



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1312FR13-1	Date of Issue: January 02, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA303I

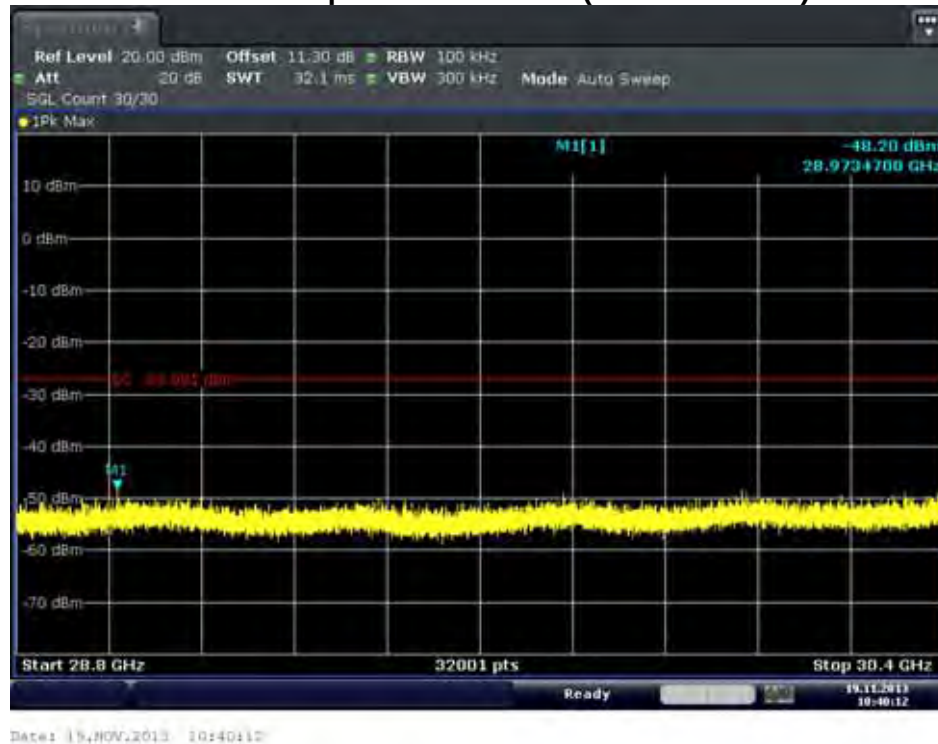
27.2 GHz ~ 28.8 GHz

Conducted Spurious Emission (802.11n-CH165)



28.8 GHz ~ 30.4 GHz

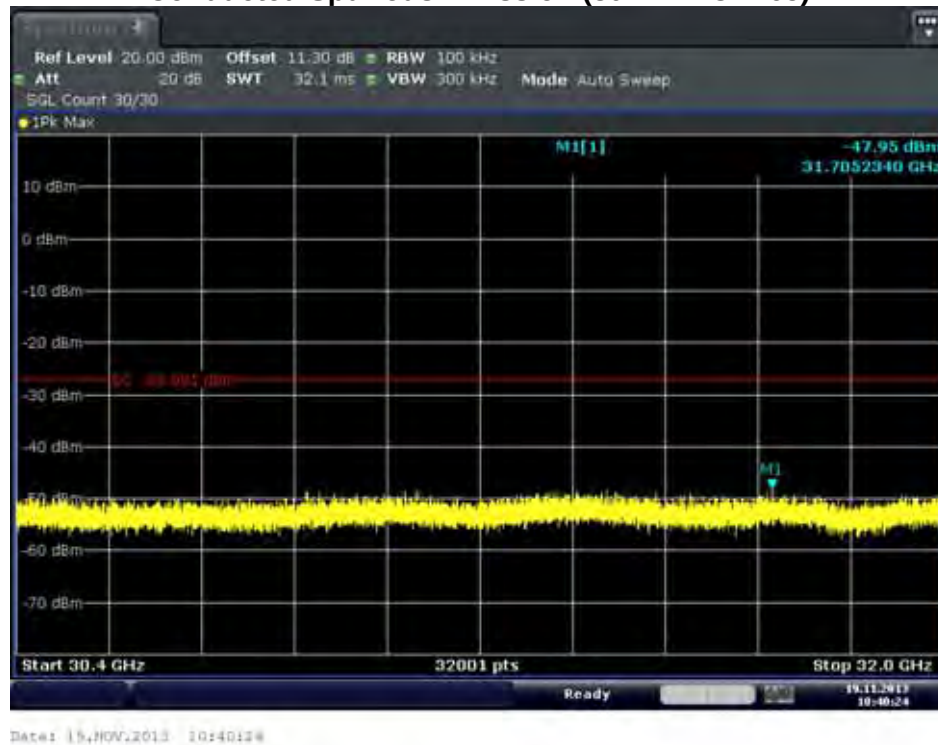
Conducted Spurious Emission (802.11n-CH165)



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1312FR13-1	Date of Issue: January 02, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA303I

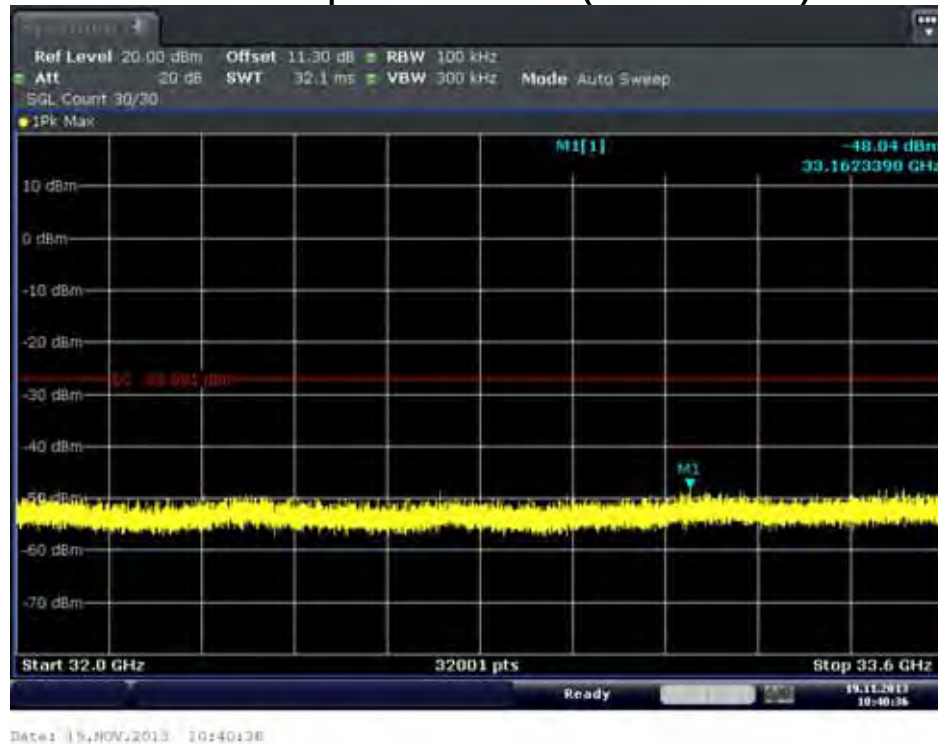
30.4 GHz ~ 32 GHz

Conducted Spurious Emission (802.11n-CH165)



32 GHz ~ 33.6 GHz

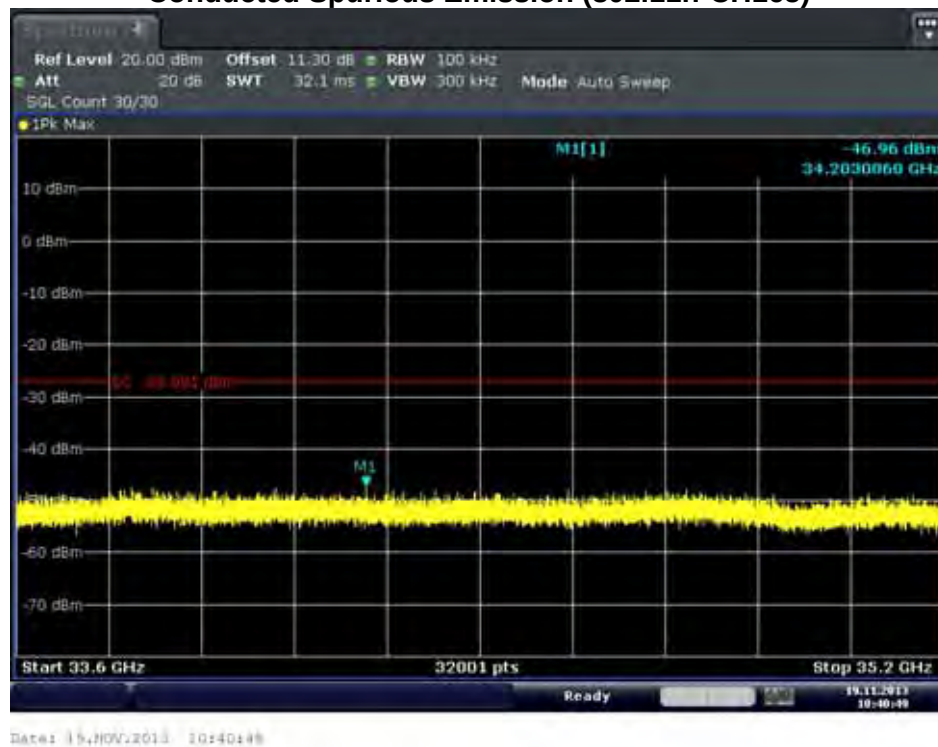
Conducted Spurious Emission (802.11n-CH165)



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1312FR13-1	Date of Issue: January 02, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA303I

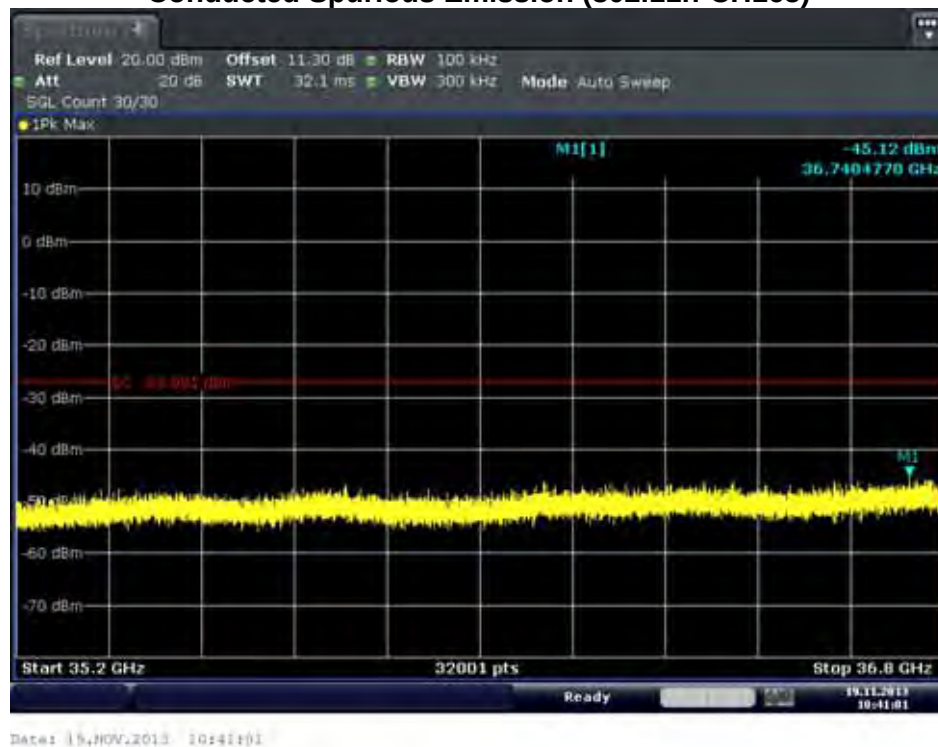
33.6 GHz ~ 35.2 GHz

Conducted Spurious Emission (802.11n-CH165)



35.2 GHz ~ 36.8 GHz

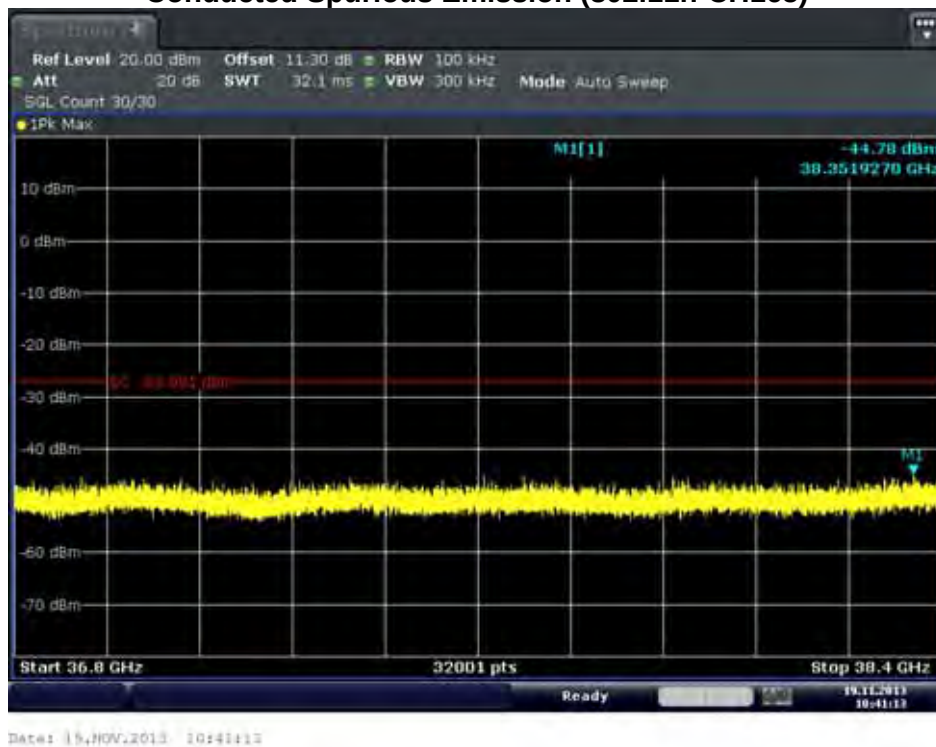
Conducted Spurious Emission (802.11n-CH165)



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1312FR13-1	Date of Issue: January 02, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA303I

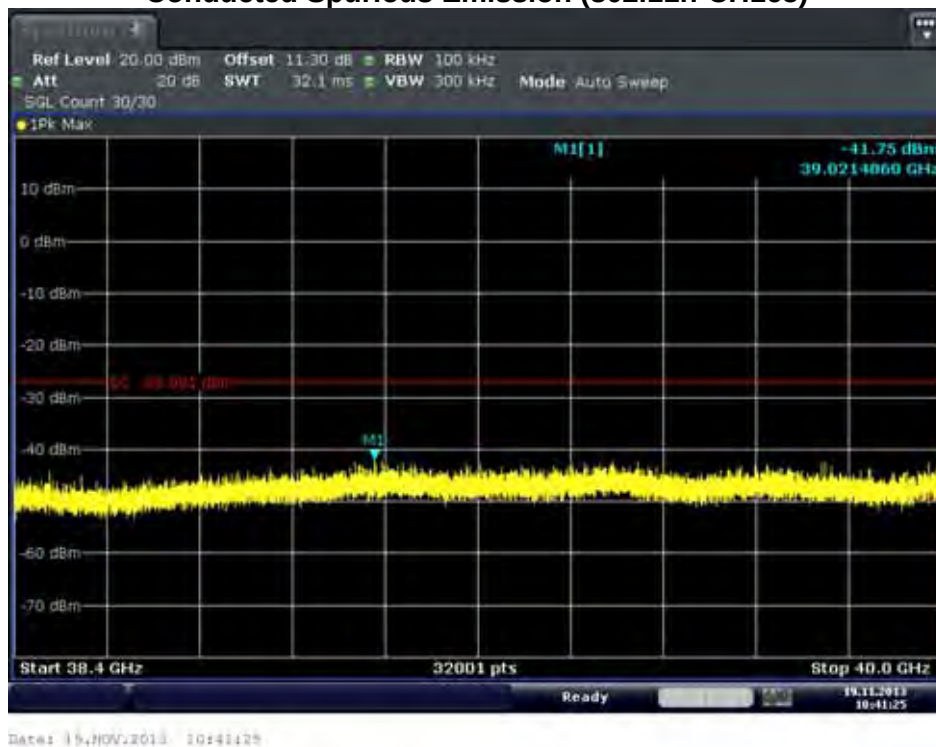
36.8 GHz ~ 38.4 GHz

Conducted Spurious Emission (802.11n-CH165)



38.4 GHz ~ 40 GHz

Conducted Spurious Emission (802.11n-CH165)



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1312FR13-1	Date of Issue: January 02, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA303I

8.6 RADIATED MEASUREMENT.

8.6.1 RADIATED SPURIOUS EMISSIONS.

Test Requirements and limit, §15.205, §15.209

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

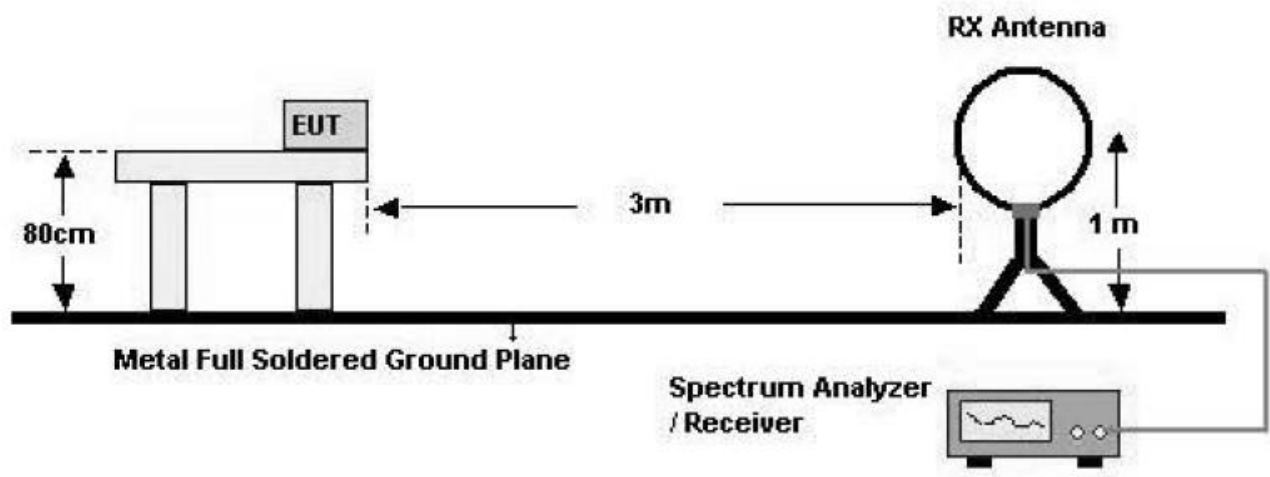
■ Test case

Monitoring	SISO	Ant 1
		Ant 2
	MIMO	Ant 1 & 2
Service	SISO	Ant 1
		Ant 2
		Ant 3
	MIMO	Ant 1 & 2
		Ant 1 & 2 & 3

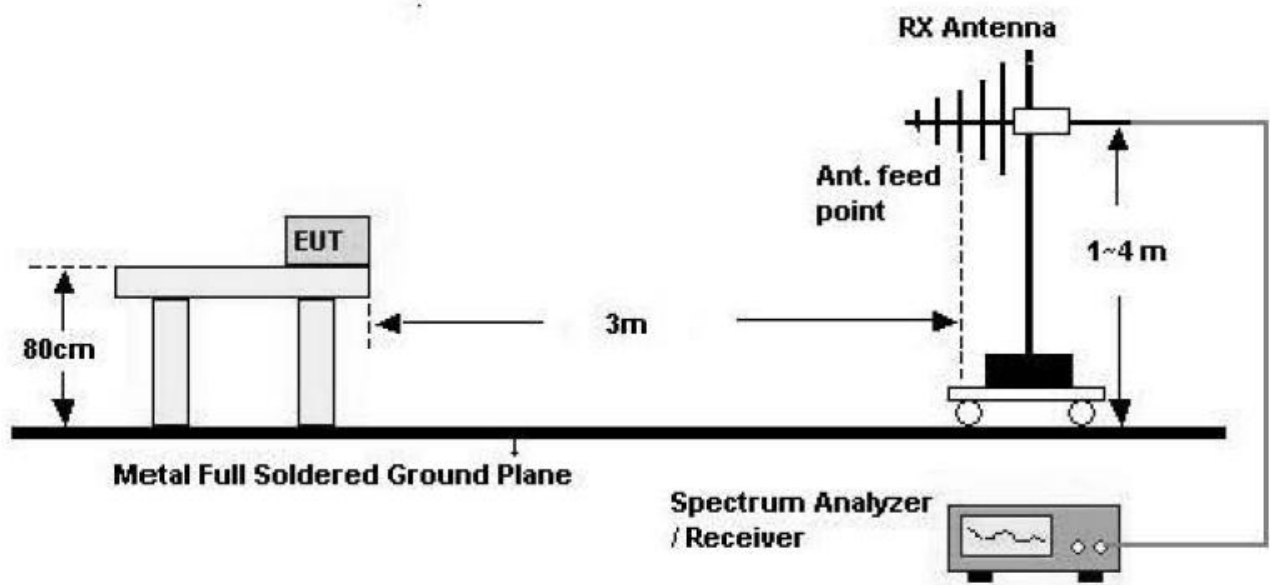
Note : We have done all test case. Worst case is Ant 1 & 2 for monitoring and Ant 1 & 2 & 3 for service. So, we attached the results of only worst case.

Test Configuration

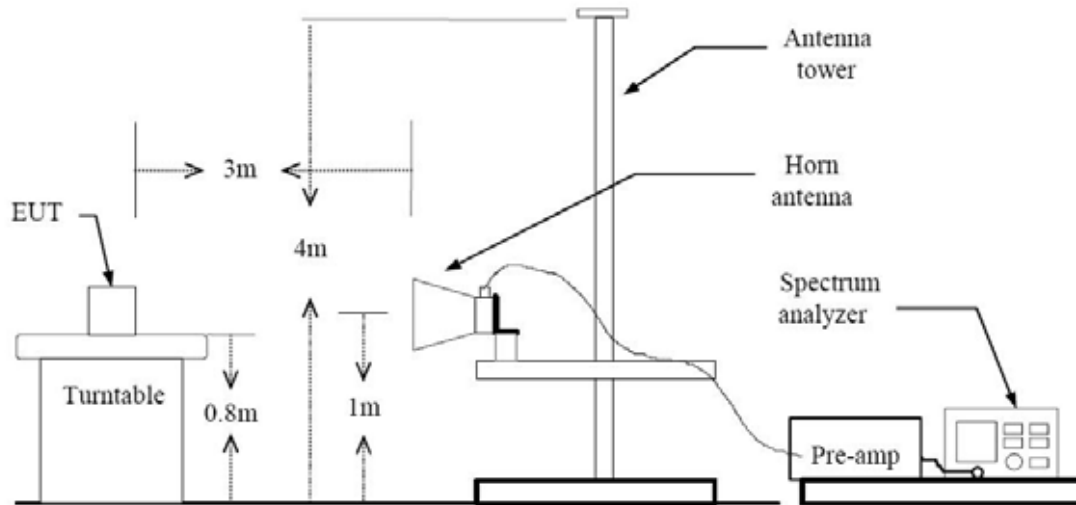
Below 30 MHz



30 MHz - 1 GHz



Above 1 GHz



TEST PROCEDURE USED

ANSI C63.4(2003)

Method 12.2.4 in KDB 558074, issued 04/09/2013 (Peak)

Method 12.2.5.1 in KDB 558074, issued 04/09/2013(Average Case 1)

Method 12.2.5.3 in KDB 558074, issued 04/09/2013(Average Case 2)

Spectrum Setting

- Peak

Peak emission levels are measured by setting the instrument as follows:

RBW = cf. Table 1.

VBW $\geq 3 \times$ RBW.

Detector = Peak.

Sweep time = auto.

Trace mode = max hold.

Allow sweeps to continue until the trace stabilizes.

(Note that the required measurement time may be longer for low duty cycle applications).

Table 1 —RBW as a function of frequency

Frequency	RBW
9-150 kHz	200-300 Hz
0.15-30 MHz	9-10 kHz
30-1000 MHz	100-120 kHz
> 1000 MHz	1 MHz

- Average

Case 1

If the EUT can be configured or modified to transmit continuously (duty cycle ≥ 98 percent) then the average emission levels shall be measured using the following method (with EUT transmitting continuously).

RBW = 1 MHz (unless otherwise specified).

VBW $\geq 3 \times$ RBW.

Detector = RMS, if span/(# of points in sweep) $\leq$ (RBW/2). Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak.

Averaging type = power (i.e., RMS).

- 1) As an alternative, the detector and averaging type may be set for linear voltage averaging.
- 2) Some instruments require linear display mode in order to use linear voltage averaging. Log or dB averaging shall not be used.

Sweep time = auto.

Perform a trace average of at least 100 traces.

Case 2

If continuous transmission of the EUT (i.e., duty cycle ≥ 98 percent) cannot be achieved and the duty cycle is not constant (i.e., duty cycle variations exceed ± 2 percent), then the following procedure shall be used:

Set RBW = 1 MHz.

Set VBW $\geq 1/T$.

Video bandwidth mode or display mode

- 1) The instrument shall be set to ensure that video filtering is applied in the power domain. Typically, this requires setting the detector mode to RMS and setting the Average-VBW Type to Power (RMS).
- 2) As an alternative, the instrument may be set to linear detector mode. Ensure that video filtering is applied in linear voltage domain (rather than in a log or dB domain). Some instruments require linear display mode in order to accomplish this. Others have a setting for Average-VBW Type, which can be set to "Voltage" regardless of the display mode.

Detector = Peak.

Sweep time = auto.

Trace mode = max hold.

Allow max hold to run for at least 50 times (1/duty cycle) traces.

Note :

1. We used the case 1 for 802.11b mode and the case 2 for 802.11a/g/n_20/n_40 to perform the average filed strength measurements for RSE and radiated band edge test.
2. The actual setting value of VBW for 802.11a/g/n_20/n_40.

FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1312FR13-1	Date of Issue: January 02, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA303I

Monitoring

Mode	Worst Data rate (Mbps)	T _{on} (ms)	T _{total} (ms)	Duty Cycle (%)	VBW(1/T) (Hz)	The actual setting value of VBW (Hz)
g	6	2.020	2.070	97.6	495.0	1000
a	6	2.020	2.070	97.6	495.0	1000
n_20	6.5	1.885	1.930	97.7	530.5	1000
n_40	13.5	0.926	0.960	96.5	1079.9	3000

Service

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	1.335	1.405	95.0	749.1	1000
g	6	1.335	1.405	95.0	749.1	1000
n_20	6.5	1.269	1.317	96.4	788.0	1000
n_40	13.5	0.630	0.664	94.9	1587.3	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/m	dBm /m	dBm	(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 (dB μ V) + Distance extrapolation factor
5. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

TEST RESULTS

Below 1 GHz

Operation Mode: Normal Mode

Frequency	Reading	Ant. factor	Cable loss	Ant. POL	Total	Limit	Margin
MHz	dB μ V/m	dBm /m	dBm	(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.

Above 1 GHz

Monitoring MIMO (Ant 1 & 2)

Operation Mode:	802.11 b
Transfer Rate:	1 Mbps
Operating Frequency	2412
Channel No.	01 Ch

Frequency [MHz]	Reading [dBuV/m]	AN.+CL-AMP G [dBm]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
4824	53.66	-4.25	V	49.41	73.98	24.57	PK
4824	45.00	-4.25	V	40.75	53.98	13.23	AV
7236	54.69	5.21	V	59.90	73.98	14.08	PK
7236	44.67	5.21	V	49.88	53.98	4.10	AV
4824	55.56	-4.25	H	51.31	73.98	22.67	PK
4824	48.24	-4.25	H	43.99	53.98	9.99	AV
7236	55.44	5.21	H	60.65	73.98	13.33	PK
7236	45.15	5.21	H	50.36	53.98	3.62	AV

Operation Mode:	802.11 b
Transfer Rate:	1 Mbps
Operating Frequency	2437
Channel No.	06 Ch

Frequency [MHz]	Reading [dBuV/m]	AN.+CL-AMP G [dBm]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
4874	51.96	-3.93	V	48.03	73.98	25.95	PK
4874	41.98	-3.93	V	38.05	53.98	15.93	AV
7311	53.19	4.97	V	58.16	73.98	15.82	PK
7311	40.95	4.97	V	45.92	53.98	8.06	AV
4874	53.82	-3.93	H	49.89	73.98	24.09	PK
4874	44.16	-3.93	H	40.23	53.98	13.75	AV
7311	53.68	4.97	H	58.65	73.98	15.33	PK
7311	40.94	4.97	H	45.91	53.98	8.07	AV

Operation Mode: 802.11 b

Transfer Rate: 1 Mbps

Operating Frequency: 2462

Channel No. 11 Ch

Frequency [MHz]	Reading [dBuV/m]	AN.+CL-AMP G [dBm]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
4924	52.01	-3.75	V	48.26	73.98	25.72	PK
4924	41.09	-3.75	V	37.34	53.98	16.64	AV
7386	52.64	5.60	V	58.24	73.98	15.74	PK
7386	40.35	5.60	V	45.95	53.98	8.03	AV
4924	52.86	-3.75	H	49.11	73.98	24.87	PK
4924	43.60	-3.75	H	39.85	53.98	14.13	AV
7386	52.13	5.60	H	57.73	73.98	16.25	PK
7386	40.19	5.60	H	45.79	53.98	8.19	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 802.11b mode and all data rate. Worst data rate is the lowest data of each mode.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.



Operation Mode: 802.11 g

Transfer Rate: 6 Mbps

Operating Frequency: 2412

Channel No. 01 Ch

Frequency [MHz]	Reading [dBuV/m]	AN.+CL-AMP G [dBm]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
4824	52.94	-4.25	V	48.69	73.98	25.29	PK
4824	39.87	-4.25	V	35.62	53.98	18.36	AV
7236	52.44	5.21	V	57.65	73.98	16.33	PK
7236	39.50	5.21	V	44.71	53.98	9.27	AV
4824	53.42	-4.25	H	49.17	73.98	24.81	PK
4824	39.99	-4.25	H	35.74	53.98	18.24	AV
7236	52.59	5.21	H	57.80	73.98	16.18	PK
7236	39.51	5.21	H	44.72	53.98	9.26	AV

Operation Mode: 802.11 g

Transfer Rate: 6 Mbps

Operating Frequency: 2437

Channel No. 06 Ch

Frequency [MHz]	Reading [dBuV/m]	AN.+CL-AMP G [dBm]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
4874	51.99	-3.93	V	48.06	73.98	25.92	PK
4874	38.26	-3.93	V	34.33	53.98	19.65	AV
7311	52.63	4.97	V	57.60	73.98	16.38	PK
7311	38.80	4.97	V	43.77	53.98	10.21	AV
4874	51.94	-3.93	H	48.01	73.98	25.97	PK
4874	38.31	-3.93	H	34.38	53.98	19.60	AV
7311	52.94	4.97	H	57.91	73.98	16.07	PK
7311	38.82	4.97	H	43.79	53.98	10.19	AV

Operation Mode:	802.11 g
Transfer Rate:	6 Mbps
Operating Frequency	2462
Channel No.	11 Ch

Frequency [MHz]	Reading [dBuV/m]	AN.+CL-AMP G [dBm]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
4924	51.25	-3.75	V	47.50	73.98	26.48	PK
4924	37.69	-3.75	V	33.94	53.98	20.04	AV
7386	52.61	5.60	V	58.21	73.98	15.77	PK
7386	38.99	5.60	V	44.59	53.98	9.39	AV
4924	51.56	-3.75	H	47.81	73.98	26.17	PK
4924	37.68	-3.75	H	33.93	53.98	20.05	AV
7386	52.86	5.60	H	58.46	73.98	15.52	PK
7386	38.91	5.60	H	44.51	53.98	9.47	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 802.11g mode and all data rate. Worst data rate is the lowest data of each mode.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

Operation Mode: 802.11 n

Transfer Rate: 6.5 Mbps

Operating Frequency: 2412

Channel No. 01 Ch

Frequency [MHz]	Reading [dBuV/m]	AN.+CL-AMP G [dBm]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
4824	52.69	-4.25	V	48.44	73.98	25.54	PK
4824	39.20	-4.25	V	34.95	53.98	19.03	AV
7236	52.19	5.21	V	57.40	73.98	16.58	PK
7236	39.46	5.21	V	44.67	53.98	9.31	AV
4824	52.42	-4.25	H	48.17	73.98	25.81	PK
4824	39.17	-4.25	H	34.92	53.98	19.06	AV
7236	52.89	5.21	H	58.10	73.98	15.88	PK
7236	39.68	5.21	H	44.89	53.98	9.09	AV

Operation Mode: 802.11 n

Transfer Rate: 6.5 Mbps

Operating Frequency: 2437

Channel No. 06 Ch

Frequency [MHz]	Reading [dBuV/m]	AN.+CL-AMP G [dBm]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
4874	52.06	-3.93	V	48.13	73.98	25.85	PK
4874	38.24	-3.93	V	34.31	53.98	19.67	AV
7311	52.55	4.97	V	57.52	73.98	16.46	PK
7311	38.77	4.97	V	43.74	53.98	10.24	AV
4874	51.87	-3.93	H	47.94	73.98	26.04	PK
4874	38.29	-3.93	H	34.36	53.98	19.62	AV
7311	52.67	4.97	H	57.64	73.98	16.34	PK
7311	38.74	4.97	H	43.71	53.98	10.27	AV

Operation Mode:	802.11 n
Transfer Rate:	6.5 Mbps
Operating Frequency	2462
Channel No.	11 Ch

Frequency [MHz]	Reading [dBuV/m]	AN.+CL-AMP G [dBm]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
4924	51.96	-3.75	V	48.21	73.98	25.77	PK
4924	37.74	-3.75	V	33.99	53.98	19.99	AV
7386	52.47	5.60	V	58.07	73.98	15.91	PK
7386	38.75	5.60	V	44.35	53.98	9.63	AV
4924	52.01	-3.75	H	48.26	73.98	25.72	PK
4924	37.81	-3.75	H	34.06	53.98	19.92	AV
7386	52.99	5.60	H	58.59	73.98	15.39	PK
7386	38.96	5.60	H	44.56	53.98	9.42	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 802.11n mode and all data rate. Worst data rate is the lowest data of each mode.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

Band :	5.8 GHz
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5745 MHz
Channel No.	149 Ch

Frequency [MHz]	Reading [dBuV/m]	AN.+CL-AMP G [dBm]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
11490	54.55	11.22	V	65.77	73.98	8.21	PK
11490	39.70	11.22	V	50.92	53.98	3.06	AV
11490	52.31	11.22	H	63.53	73.98	10.45	PK
11490	37.54	11.22	H	48.76	53.98	5.22	AV

Band :	5.8 GHz
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5785 MHz
Channel No.	157 Ch

Frequency [MHz]	Reading [dBuV/m]	AN.+CL-AMP G [dBm]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
11570	55.53	11.71	V	67.24	73.98	6.74	PK
11570	39.17	11.71	V	50.88	53.98	3.10	AV
11570	52.99	11.71	H	64.70	73.98	9.28	PK
11570	37.21	11.71	H	48.92	53.98	5.06	AV

Band :	5.8 GHz
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5825 MHz
Channel No.	165 Ch

Frequency [MHz]	Reading [dBuV/m]	AN.+CL-AMP G [dBm]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
11650	54.72	11.34	V	66.06	73.98	7.92	PK
11650	39.36	11.34	V	50.70	53.98	3.28	AV
11650	52.98	11.34	H	64.32	73.98	9.66	PK
11650	37.38	11.34	H	48.72	53.98	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. We have done 802.11a mode and all data rate. Worst data rate is the lowest data of each mode
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

Band :	5.8 GHz
Operation Mode:	802.11 n_20 MHz BW
Transfer Rate:	6.5 Mbps
Operating Frequency	5745 MHz
Channel No.	149 Ch

Frequency [MHz]	Reading [dBuV/m]	AN.+CL-AMP G [dBm]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
11490	55.21	11.22	V	66.43	73.98	7.55	PK
11490	39.67	11.22	V	50.89	53.98	3.09	AV
11490	53.64	11.22	H	64.86	73.98	9.12	PK
11490	37.89	11.22	H	49.11	53.98	4.87	AV

Band :	5.8 GHz
Operation Mode:	802.11 n_20 MHz BW
Transfer Rate:	6.5 Mbps
Operating Frequency	5785 MHz
Channel No.	157 Ch

Frequency [MHz]	Reading [dBuV/m]	AN.+CL-AMP G [dBm]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
11570	54.11	11.71	V	65.82	73.98	8.16	PK
11570	38.84	11.71	V	50.55	53.98	3.43	AV
11570	52.44	11.71	H	64.15	73.98	9.83	PK
11570	36.87	11.71	H	48.58	53.98	5.40	AV

Band :	5.8 GHz
Operation Mode:	802.11 n_20 MHz BW
Transfer Rate:	6.5 Mbps
Operating Frequency	5825 MHz
Channel No.	165 Ch

Frequency [MHz]	Reading [dBuV/m]	AN.+CL-AMP G [dBm]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
11650	53.20	11.34	V	64.54	73.98	9.44	PK
11650	38.79	11.34	V	50.13	53.98	3.85	AV
11650	51.64	11.34	H	62.98	73.98	11.00	PK
11650	37.01	11.34	H	48.35	53.98	5.63	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 802.11n_20 MHz BW mode and all data rate. Worst data rate is the lowest data of each mode
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna

Band :	5.8 GHz
Operation Mode:	802.11 n_40 MHz BW
Transfer Rate:	13.5 Mbps
Operating Frequency	5755 MHz
Channel No.	151 Ch

Frequency [MHz]	Reading [dBuV/m]	AN.+CL-AMP G [dBm]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
11510	50.45	11.53	V	61.98	73.98	12.00	PK
11510	37.19	11.53	V	48.72	53.98	5.26	AV
11510	48.77	11.53	H	60.30	73.98	13.68	PK
11510	35.33	11.53	H	46.86	53.98	7.12	AV

Band :	5.8 GHz
Operation Mode:	802.11 n_40 MHz BW
Transfer Rate:	13.5 Mbps
Operating Frequency	5795 MHz
Channel No.	159 Ch

Frequency [MHz]	Reading [dBuV/m]	AN.+CL-AMP G [dBm]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
11590	50.97	11.64	V	62.61	73.98	11.37	PK
11590	37.50	11.64	V	49.14	53.98	4.84	AV
11590	49.21	11.64	H	60.85	73.98	13.13	PK
11590	35.71	11.64	H	47.35	53.98	6.63	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 802.11n_40 MHz BW mode and all data rate. Worst data rate is the lowest data of each mode
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 CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1312FR13-1	Date of Issue: January 02,2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA303I

Service MIMO (Ant 1 & 2 & 3)

Operation Mode: 802.11 b
 Transfer Rate: 1 Mbps
 Operating Frequency: 2412
 Channel No. 01 Ch

Frequency [MHz]	Reading [dBuV/m]	AN.+CL-AMP G [dBm]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
4824	57.00	-4.25	V	52.75	73.98	21.23	PK
4824	49.82	-4.25	V	45.57	53.98	8.41	AV
7236	54.09	5.21	V	59.30	73.98	14.68	PK
7236	43.38	5.21	V	48.59	53.98	5.39	AV
4824	54.69	-4.25	H	50.44	73.98	23.54	PK
4824	45.55	-4.25	H	41.30	53.98	12.68	AV
7236	55.01	5.21	H	60.22	73.98	13.76	PK
7236	44.67	5.21	H	49.88	53.98	4.10	AV

Operation Mode: 802.11 b
 Transfer Rate: 1 Mbps
 Operating Frequency: 2437
 Channel No. 06 Ch

Frequency [MHz]	Reading [dBuV/m]	AN.+CL-AMP G [dBm]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
4874	58.41	-3.93	V	54.48	73.98	19.50	PK
4874	54.03	-3.93	V	50.10	53.98	3.88	AV
7311	55.01	4.97	V	59.98	73.98	14.00	PK
7311	44.33	4.97	V	49.30	53.98	4.68	AV
4874	56.03	-3.93	H	52.10	73.98	21.88	PK
4874	50.31	-3.93	H	46.38	53.98	7.60	AV
7311	55.76	4.97	H	60.73	73.98	13.25	PK
7311	45.50	4.97	H	50.47	53.98	3.51	AV

Operation Mode:	802.11 b
Transfer Rate:	1 Mbps
Operating Frequency	2462
Channel No.	11 Ch

Frequency [MHz]	Reading [dBuV/m]	AN.+CL-AMP G [dBm]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
4924	60.48	-3.75	V	56.73	73.98	17.25	PK
4924	54.00	-3.75	V	50.25	53.98	3.73	AV
7386	53.99	5.60	V	59.59	73.98	14.39	PK
7386	43.61	5.60	V	49.21	53.98	4.77	AV
4924	57.34	-3.75	H	53.59	73.98	20.39	PK
4924	51.37	-3.75	H	47.62	53.98	6.36	AV
7386	54.89	5.60	H	60.49	73.98	13.49	PK
7386	44.80	5.60	H	50.40	53.98	3.58	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. We have done 802.11b mode and all data rate. Worst data rate is the lowest data of each mode.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

Operation Mode: 802.11 g

Transfer Rate: 6 Mbps

Operating Frequency: 2412

Channel No. 01 Ch

Frequency [MHz]	Reading [dBuV/m]	AN.+CL-AMP G [dBm]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
4824	60.09	-4.25	V	55.84	73.98	18.14	PK
4824	43.51	-4.25	V	39.26	53.98	14.72	AV
7236	64.77	5.21	V	69.98	73.98	4.00	PK
7236	43.05	5.21	V	48.26	53.98	5.72	AV
4824	57.39	-4.25	H	53.14	73.98	20.84	PK
4824	41.59	-4.25	H	37.34	53.98	16.64	AV
7236	65.29	5.21	H	70.50	73.98	3.48	PK
7236	44.20	5.21	H	49.41	53.98	4.57	AV

Operation Mode: 802.11 g

Transfer Rate: 6 Mbps

Operating Frequency: 2437

Channel No. 06 Ch

Frequency [MHz]	Reading [dBuV/m]	AN.+CL-AMP G [dBm]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
4874	62.29	-3.93	V	58.36	73.98	15.62	PK
4874	44.73	-3.93	V	40.80	53.98	13.18	AV
7311	64.66	4.97	V	69.63	73.98	4.35	PK
7311	40.55	4.97	V	45.52	53.98	8.46	AV
4874	59.87	-3.93	H	55.94	73.98	18.04	PK
4874	42.65	-3.93	H	38.72	53.98	15.26	AV
7311	65.33	4.97	H	70.30	73.98	3.68	PK
7311	40.98	4.97	H	45.95	53.98	8.03	AV

Operation Mode:	802.11 g
Transfer Rate:	6 Mbps
Operating Frequency	2462
Channel No.	11 Ch

Frequency [MHz]	Reading [dBuV/m]	AN.+CL-AMP G [dBm]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
4924	61.79	-3.75	V	58.04	73.98	15.94	PK
4924	46.26	-3.75	V	42.51	53.98	11.47	AV
7386	60.12	5.60	V	65.72	73.98	8.26	PK
7386	40.11	5.60	V	45.71	53.98	8.27	AV
4924	58.94	-3.75	H	55.19	73.98	18.79	PK
4924	44.57	-3.75	H	40.82	53.98	13.16	AV
7386	60.79	5.60	H	66.39	73.98	7.59	PK
7386	40.36	5.60	H	45.96	53.98	8.02	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 802.11g mode and all data rate. Worst data rate is the lowest data of each mode.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.



Operation Mode: 802.11 n

Transfer Rate: 6.5 Mbps

Operating Frequency: 2412

Channel No. 01 Ch

Frequency [MHz]	Reading [dBuV/m]	AN.+CL-AMP G [dBm]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
4824	57.39	-4.25	V	53.14	73.98	20.84	PK
4824	41.74	-4.25	V	37.49	53.98	16.49	AV
7236	65.01	5.21	V	70.22	73.98	3.76	PK
7236	43.61	5.21	V	48.82	53.98	5.16	AV
4824	54.98	-4.25	H	50.73	73.98	23.25	PK
4824	39.67	-4.25	H	35.42	53.98	18.56	AV
7236	65.68	5.21	H	70.89	73.98	3.09	PK
7236	44.55	5.21	H	49.76	53.98	4.22	AV

Operation Mode: 802.11 n

Transfer Rate: 6.5 Mbps

Operating Frequency: 2437

Channel No. 06 Ch

Frequency [MHz]	Reading [dBuV/m]	AN.+CL-AMP G [dBm]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
4874	58.75	-3.93	V	54.82	73.98	19.16	PK
4874	42.27	-3.93	V	38.34	53.98	15.64	AV
7311	64.87	4.97	V	69.84	73.98	4.14	PK
7311	40.31	4.97	V	45.28	53.98	8.70	AV
4874	55.05	-3.93	H	51.12	73.98	22.86	PK
4874	40.12	-3.93	H	36.19	53.98	17.79	AV
7311	65.92	4.97	H	70.89	73.98	3.09	PK
7311	41.29	4.97	H	46.26	53.98	7.72	AV

Operation Mode:	802.11 n
Transfer Rate:	6.5 Mbps
Operating Frequency	2462
Channel No.	11 Ch

Frequency [MHz]	Reading [dBuV/m]	AN.+CL-AMP G [dBm]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
4924	65.34	-3.75	V	61.59	73.98	12.39	PK
4924	45.63	-3.75	V	41.88	53.98	12.10	AV
7386	64.09	5.60	V	69.69	73.98	4.29	PK
7386	41.42	5.60	V	47.02	53.98	6.96	AV
4924	62.99	-3.75	H	59.24	73.98	14.74	PK
4924	43.10	-3.75	H	39.35	53.98	14.63	AV
7386	64.88	5.60	H	70.48	73.98	3.50	PK
7386	42.28	5.60	H	47.88	53.98	6.10	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 802.11n mode and all data rate. Worst data rate is the lowest data of each mode.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

Band :	5.8 GHz
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5745 MHz
Channel No.	149 Ch

Frequency [MHz]	Reading [dBuV/m]	AN.+CL-AMP G [dBm]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
11490	54.62	11.22	V	65.84	73.98	8.14	PK
11490	39.68	11.22	V	50.90	53.98	3.08	AV
11490	53.04	11.22	H	64.26	73.98	9.72	PK
11490	37.74	11.22	H	48.96	53.98	5.02	AV

Band :	5.8 GHz
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5785 MHz
Channel No.	157 Ch

Frequency [MHz]	Reading [dBuV/m]	AN.+CL-AMP G [dBm]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
11570	53.79	11.71	V	65.50	73.98	8.48	PK
11570	38.99	11.71	V	50.70	53.98	3.28	AV
11570	51.28	11.71	H	62.99	73.98	10.99	PK
11570	37.01	11.71	H	48.72	53.98	5.26	AV

Band :	5.8 GHz
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5825 MHz
Channel No.	165 Ch

Frequency [MHz]	Reading [dBuV/m]	AN.+CL-AMP G [dBm]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
11650	55.67	11.34	V	67.01	73.98	6.97	PK
11650	39.05	11.34	V	50.39	53.98	3.59	AV
11650	53.66	11.34	H	65.00	73.98	8.98	PK
11650	37.21	11.34	H	48.55	53.98	5.43	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 802.11a mode and all data rate. Worst data rate is the lowest data of each mode
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

Band :	5.8 GHz
Operation Mode:	802.11 n_20 MHz BW
Transfer Rate:	6.5 Mbps
Operating Frequency	5745 MHz
Channel No.	149 Ch

Frequency [MHz]	Reading [dBuV/m]	AN.+CL-AMP G [dBm]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
11490	54.75	11.22	V	65.97	73.98	8.01	PK
11490	39.49	11.22	V	50.71	53.98	3.27	AV
11490	52.98	11.22	H	64.20	73.98	9.78	PK
11490	37.55	11.22	H	48.77	53.98	5.21	AV

Band :	5.8 GHz
Operation Mode:	802.11 n_20 MHz BW
Transfer Rate:	6.5 Mbps
Operating Frequency	5785 MHz
Channel No.	157 Ch

Frequency [MHz]	Reading [dBuV/m]	AN.+CL-AMP G [dBm]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
11570	54.89	11.71	V	66.60	73.98	7.38	PK
11570	39.25	11.71	V	50.96	53.98	3.02	AV
11570	53.31	11.71	H	65.02	73.98	8.96	PK
11570	37.84	11.71	H	49.55	53.98	4.43	AV

Band :	5.8 GHz
Operation Mode:	802.11 n_20 MHz BW
Transfer Rate:	6.5 Mbps
Operating Frequency	5825 MHz
Channel No.	165 Ch

Frequency [MHz]	Reading [dBuV/m]	AN.+CL-AMP G [dBm]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
11650	55.52	11.34	V	66.86	73.98	7.12	PK
11650	39.00	11.34	V	50.34	53.98	3.64	AV
11650	53.99	11.34	H	65.33	73.98	8.65	PK
11650	37.05	11.34	H	48.39	53.98	5.59	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 802.11n_20 MHz BW mode and all data rate. Worst data rate is the lowest data of each mode
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna

Band :	5.8 GHz
Operation Mode:	802.11 n_40 MHz BW
Transfer Rate:	13.5 Mbps
Operating Frequency	5755 MHz
Channel No.	151 Ch

Frequency [MHz]	Reading [dBuV/m]	AN.+CL-AMP G [dBm]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
11510	54.09	11.53	V	65.62	73.98	8.36	PK
11510	39.11	11.53	V	50.64	53.98	3.34	AV
11510	52.96	11.53	H	64.49	73.98	9.49	PK
11510	37.54	11.53	H	49.07	53.98	4.91	AV

Band :	5.8 GHz
Operation Mode:	802.11 n_40 MHz BW
Transfer Rate:	13.5 Mbps
Operating Frequency	5795 MHz
Channel No.	159 Ch

Frequency [MHz]	Reading [dBuV/m]	AN.+CL-AMP G [dBm]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
11590	52.97	11.64	V	64.61	73.98	9.37	PK
11590	39.03	11.64	V	50.67	53.98	3.31	AV
11590	52.00	11.64	H	63.64	73.98	10.34	PK
11590	37.34	11.64	H	48.98	53.98	5.00	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 802.11n_40 MHz BW mode and all data rate. Worst data rate is the lowest data of each mode
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 CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1312FR13-1	Date of Issue: January 02,2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA303I

8.6.2 RADIATED RESTRICTED BAND EDGES

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)).

Monitoring MIMO (Ant 1 & 2)

Operation Mode:	802.11g
Transfer Rate:	6 Mbps
Operating Frequency	2412 MHz, 2462 MHz
Channel No.	01 Ch, 11 Ch

Frequency [MHz]	Reading [dBuV/m]	AN.+CL [dBm]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
2390.0	36.44	33.90	H	70.34	73.98	3.64	PK
2390.0	16.07	33.90	H	49.97	53.98	4.01	AV
2390.0	30.77	33.90	V	64.67	73.98	9.31	PK
2390.0	13.52	33.90	V	47.42	53.98	6.56	AV
2483.5	34.86	33.99	H	68.85	73.98	5.13	PK
2483.5	15.56	33.99	H	49.55	53.98	4.43	AV
2483.5	25.67	33.99	V	59.66	73.98	14.32	PK
2483.5	12.85	33.99	V	46.84	53.98	7.14	AV

Operation Mode: 802.11b

Transfer Rate: 1 Mbps

Operating Frequency: 2412 MHz, 2462 MHz

Channel No. 01 Ch, 11 Ch

Frequency [MHz]	Reading [dBuV/m]	AN.+CL [dBm]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
2390.0	25.05	33.90	H	58.95	73.98	15.03	PK
2390.0	13.74	33.90	H	47.64	53.98	6.34	AV
2390.0	25.13	33.90	V	59.03	73.98	14.95	PK
2390.0	13.66	33.90	V	47.56	53.98	6.42	AV
2483.5	25.55	33.99	H	59.54	73.98	14.44	PK
2483.5	13.70	33.99	H	47.69	53.98	6.29	AV
2483.5	25.41	33.99	V	59.40	73.98	14.58	PK
2483.5	13.69	33.99	V	47.68	53.98	6.30	AV

Operation Mode: 802.11n

Transfer Rate: 6.5 Mbps

Operating Frequency: 2412 MHz, 2462 MHz

Channel No. 01 Ch, 11 Ch

Frequency [MHz]	Reading [dBuV/m]	AN.+CL [dBm]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
2390.0	35.71	33.90	H	69.61	73.98	4.37	PK
2390.0	16.30	33.90	H	50.20	53.98	3.78	AV
2390.0	31.26	33.90	V	65.16	73.98	8.82	PK
2390.0	13.94	33.90	V	47.84	53.98	6.14	AV
2483.5	35.96	33.99	H	69.95	73.98	4.03	PK
2483.5	16.91	33.99	H	50.90	53.98	3.08	AV
2483.5	32.65	33.99	V	66.64	73.98	7.34	PK
2483.5	14.67	33.99	V	48.66	53.98	5.32	AV

Notes:

1. Total = Reading Value + Antenna Factor + Cable Loss
2. We have done 802.11b/g/n mode and all data rate. Worst data rate is the lowest data of each mode.
3. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

Service MIMO (Ant 1 & 2 & 3)

Operation Mode:	802.11g
Transfer Rate:	6 Mbps
Operating Frequency	2412 MHz, 2462 MHz
Channel No.	01 Ch, 11 Ch

Frequency [MHz]	Reading [dBuV/m]	AN.+CL [dBm]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
2390.0	29.21	33.90	H	63.11	73.98	10.87	PK
2390.0	16.55	33.90	H	50.45	53.98	3.53	AV
2390.0	28.75	33.90	V	62.65	73.98	11.33	PK
2390.0	16.03	33.90	V	49.93	53.98	4.05	AV
2483.5	29.68	33.99	H	63.67	73.98	10.31	PK
2483.5	16.95	33.99	H	50.94	53.98	3.04	AV
2483.5	28.77	33.99	V	62.76	73.98	11.22	PK
2483.5	16.54	33.99	V	50.53	53.98	3.45	AV

Operation Mode:	802.11b
Transfer Rate:	1 Mbps
Operating Frequency	2412 MHz, 2462 MHz
Channel No.	01 Ch, 11 Ch

Frequency [MHz]	Reading [dBuV/m]	AN.+CL [dBm]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
2390.0	27.28	33.90	H	61.18	73.98	12.80	PK
2390.0	16.96	33.90	H	50.86	53.98	3.12	AV
2390.0	27.03	33.90	V	60.93	73.98	13.05	PK
2390.0	16.77	33.90	V	50.67	53.98	3.31	AV
2483.5	25.86	33.99	H	59.85	73.98	14.13	PK
2483.5	15.33	33.99	H	49.32	53.98	4.66	AV
2483.5	25.55	33.99	V	59.54	73.98	14.44	PK
2483.5	14.96	33.99	V	48.95	53.98	5.03	AV

Operation Mode:	802.11n
Transfer Rate:	6.5 Mbps
Operating Frequency	2412 MHz, 2462 MHz
Channel No.	01 Ch, 11 Ch

Frequency [MHz]	Reading [dBuV/m]	AN.+CL [dBm]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
2390.0	30.02	33.90	H	63.92	73.98	10.06	PK
2390.0	16.68	33.90	H	50.58	53.98	3.40	AV
2390.0	29.44	33.90	V	63.34	73.98	10.64	PK
2390.0	16.21	33.90	V	50.11	53.98	3.87	AV
2483.5	29.51	33.99	H	63.50	73.98	10.48	PK
2483.5	16.95	33.99	H	50.94	53.98	3.04	AV
2483.5	28.49	33.99	V	62.48	73.98	11.50	PK
2483.5	16.39	33.99	V	50.38	53.98	3.60	AV

Notes:

1. Total = Reading Value + Antenna Factor + Cable Loss
2. We have done 802.11b/g/n mode and all data rate. Worst data rate is the lowest data of each mode.
3. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

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 (dBμV)	
	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 ground plane.
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 18 Mbps, Ch.11 and 802.11g(MIMO 3 TX). Because 802.11g mode is worst case.

RESULT PLOTS

Conducted Emissions (Line 1)

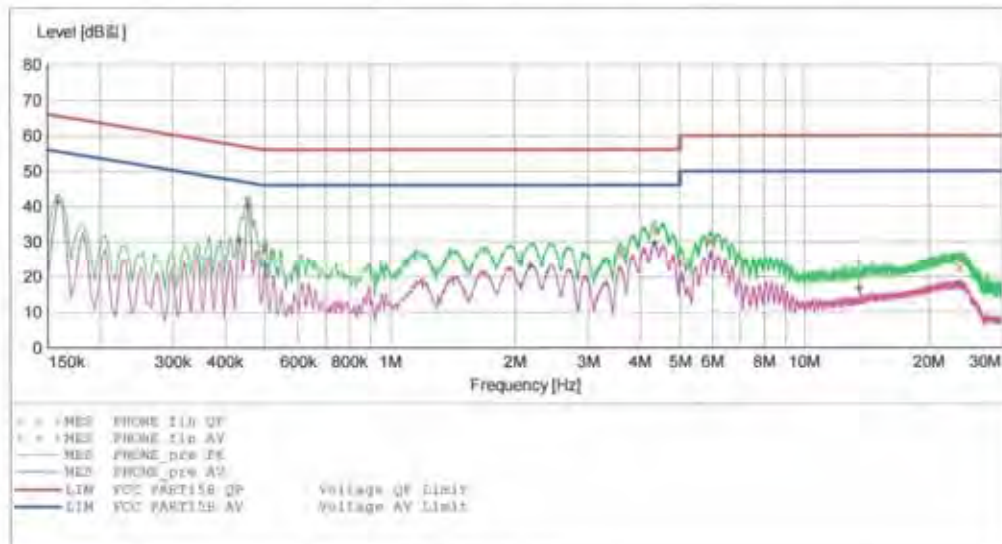
HCT

EMC

EUT: WEA303i
 Manufacturer: SAMSUNG
 Operating Condition: WLAN MODE(DTS)
 Test Site: SHIELD ROOM
 Operator: JS LEE
 Test Specification: FCC PART15B
 Comment: H
 Start of Test: 2013-11-28 / 2:18:21 오후

SCAN TABLE: "FCC CLASS B(H)"

Short Description:			FCC 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
			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"

2013-11-28 2:21 오후

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.158001	42.70	9.8	66	22.9	---	---
0.454001	41.60	9.8	57	15.2	---	---
0.498001	28.40	9.8	56	27.6	---	---
0.500000	28.20	9.8	56	27.8	---	---
3.592000	26.90	10.1	56	29.1	---	---
4.372000	33.40	10.2	56	22.6	---	---
5.000000	24.30	10.2	56	31.7	---	---
5.932000	30.50	10.2	60	29.5	---	---
23.732000	22.80	11.1	60	37.2	---	---

MEASUREMENT RESULT: "PHONE_fin AV"

2013-11-28 2:21오.후

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.158001	41.30	9.8	56	14.3	---	---
0.434001	30.60	9.8	47	16.6	---	---
0.454001	40.00	9.8	47	6.8	---	---
0.500000	23.50	9.8	46	22.5	---	---
2.176000	23.20	10.0	46	22.8	---	---
4.336000	29.50	10.2	46	16.5	---	---
5.000000	18.80	10.2	46	27.2	---	---
5.952000	26.30	10.2	50	23.7	---	---
13.560000	16.70	10.7	50	33.3	---	---

Conducted Emissions (Line 2)

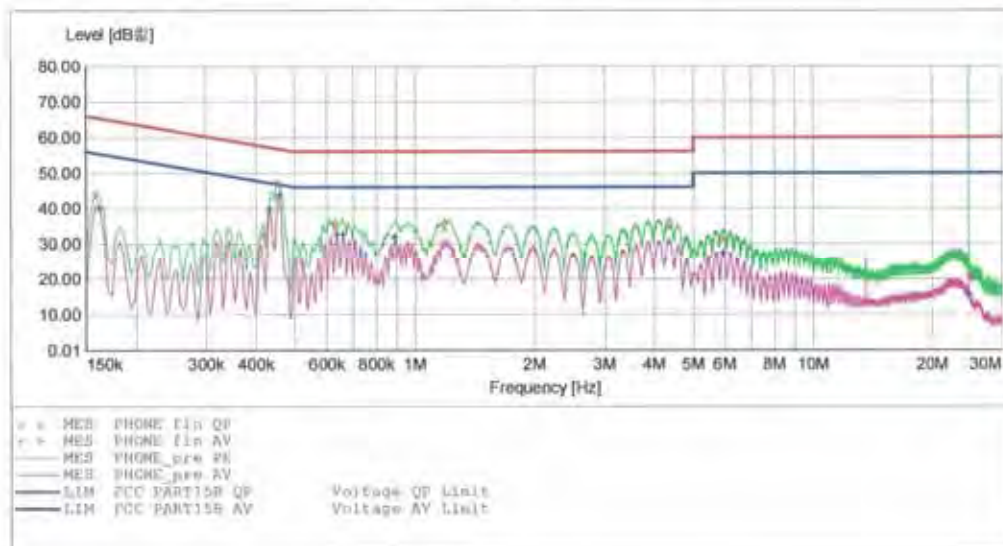
HCT

EMC

EUT: WEA3031
 Manufacturer: SAMSUNG
 Operating Condition: WLAN MODE(DTS)
 Test Site: SHIELD ROOM
 Operator: JS LEE
 Test Specification: FCC PART15B
 Comment: N
 Start of Test: 2013-11-28 / 2:23:30 오후

SCAN TABLE: "FCC CLASS B(N)"

Short Description:		FCC CLASS B(N)				
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
			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"

2013-11-28 2:26 오후

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.158001	43.60	10.0	66	22.0	---	---
0.418001	32.50	10.0	58	25.0	---	---
0.454001	47.00	10.0	57	9.8	---	---
0.632000	35.30	10.0	56	20.7	---	---
1.184000	35.10	10.1	56	20.9	---	---
4.356000	35.20	10.3	56	20.8	---	---
5.948000	31.80	10.4	60	28.2	---	---
24.824000	20.90	11.5	60	39.1	---	---
24.840000	20.70	11.5	60	39.3	---	---

MEASUREMENT RESULT: "PHONE_fin AV"

2013-11-28 2:26 오후

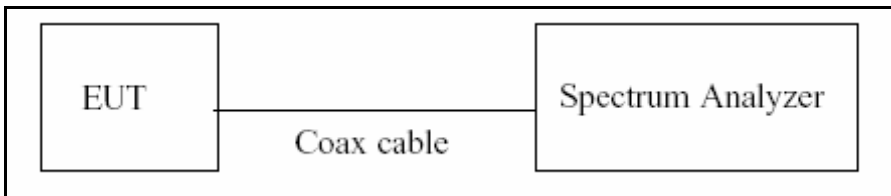
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.162001	40.10	10.0	55	15.2	---	---
0.434001	39.50	10.0	47	7.7	---	---
0.458001	43.60	10.0	47	3.1	---	---
0.636000	32.70	10.0	46	13.3	---	---
0.660000	32.50	10.0	46	13.5	---	---
0.888000	31.80	10.0	46	14.2	---	---
5.956000	27.40	10.4	50	22.6	---	---
24.824000	15.70	11.5	50	34.3	---	---
24.840000	15.70	11.5	50	34.3	---	---

9. TEST RESULT(POE)

9.1 DUTY CYCLE(802.11a/b/g/n)

The zero-span mode on a spectrum analyzer or EMI receiver if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the on and off times of the transmitted signal. Set the center frequency of the instrument to the center frequency of the transmission. Set RBW $\geq$ OBW if possible; otherwise, set RBW to the largest available value. Set VBW $\geq$ RBW. Set detector = peak or average. The zero-span measurement method shall not be used unless both RBW and VBW are $> 50/T$ and the number of sweep points across duration T exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring duty cycle shall not be used if $T \leq 16.7$ microseconds.)

▣ TEST CONFIGURATION



▣ TEST PROCEDURE

The transmitter output is connected to the Spectrum Analyzer. We tested according to the zero-span measurement method, 6.0)b) in KDB 558074(issued 04/09/2013)

The largest available value of RBW is 8 MHz and VBW is 50 MHz. The zero-span method of measuring duty cycle shall not be used if $T \leq 6.25$ microseconds. ($50/6.25 = 8$)

The zero-span method was used because all measured T data are > 6.25 microseconds and both RBW and VBW are $> 50/T$.

1. RBW = 8 MHz (the largest available value)
2. VBW = 8 MHz ($\geq$ RBW)
3. SPAN = 0 Hz
4. Detector = Peak
5. Number of points in sweep > 100
6. Trace mode = Clear write
7. Measure T_{total} and T_{on}
8. Calculate Duty Cycle = T_{on} / T_{total} and Duty Cycle Factor = $10 \cdot \log(1/\text{Duty Cycle})$

FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1312FR13-1	Date of Issue: January 02,2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA303I

Monitoring Port

☒ Duty Cycle Factor

Mode	Data Rate	T _{on} (ms)	T _{total} (ms)	Duty Cycle	Duty Cycle Factor (dB)
2.4 GHz Band 802.11b	1	12.160	12.240	0.99346405	0.028
	2	6.165	6.225	0.99036145	0.042
	5.5	2.365	2.418	0.97808106	0.096
	11	1.278	1.326	0.96380090	0.160
2.4 GHz Band 802.11g and 5.8 GHz Band 802.11a	6	2.020	2.070	0.97584541	0.106
	9	1.353	1.401	0.96573876	0.151
	12	1.020	1.068	0.95505618	0.200
	18	0.686	0.732	0.93715847	0.282
	24	0.523	0.569	0.91915641	0.366
	36	0.354	0.400	0.88500000	0.531
	48	0.271	0.316	0.85759494	0.667
	54	0.243	0.288	0.84375000	0.738
2.4 GHz Band 802.11n_20 MHz BW and 5.8 GHz Band 802.11n_20 MHz BW	6.5	1.885	1.930	0.97668394	0.102
	13	0.962	1.008	0.95436508	0.203
	19.5	0.654	0.700	0.93428571	0.295
	26	0.498	0.544	0.91544118	0.384
	39	0.347	0.392	0.88520408	0.530
	52	0.267	0.312	0.85576923	0.676
	58.5	0.243	0.289	0.84083045	0.753
	65	0.224	0.268	0.83582090	0.779
2.4 GHz & 5.8 GHz Band 802.11n_40 MHz BW	13.5	0.926	0.960	0.96458333	0.157
	27	0.482	0.516	0.93410853	0.296
	40.5	0.335	0.368	0.91032609	0.408
	54	0.260	0.292	0.89041096	0.504
	81	0.187	0.220	0.85000000	0.706
	108	0.147	0.180	0.81666667	0.880
	121.5	0.136	0.168	0.80952381	0.918
	135	0.128	0.160	0.80000000	0.969

Service Port

▣ Duty Cycle Factor

Mode	Data Rate	T _{on} (ms)	T _{total} (ms)	Duty Cycle	Duty Cycle Factor (dB)
2.4 GHz Band 802.11b	1	8.180	8.240	0.99271845	0.032
	2	4.180	4.240	0.98584906	0.062
	5.5	1.645	1.690	0.97337278	0.117
	11	0.918	0.964	0.95228216	0.212
2.4 GHz Band 802.11g and 5.8 GHz Band 802.11a	6	1.335	1.405	0.95017794	0.222
	9	0.909	0.957	0.94984326	0.223
	12	0.690	0.735	0.93877551	0.274
	18	0.466	0.512	0.91015625	0.409
	24	0.354	0.400	0.88500000	0.531
	36	0.243	0.288	0.84375000	0.738
	48	0.187	0.232	0.80603448	0.936
	54	0.171	0.216	0.79166667	1.015
2.4 GHz Band 802.11n_20 MHz BW and 5.8 GHz Band 802.11n_20 MHz BW	6.5	1.269	1.317	0.96355353	0.161
	13	0.655	0.701	0.93437946	0.295
	19.5	0.446	0.492	0.90650407	0.426
	26	0.348	0.393	0.88549618	0.528
	39	0.244	0.289	0.84429066	0.735
	52	0.192	0.236	0.81355932	0.896
	58.5	0.176	0.220	0.80000000	0.969
	65	0.159	0.204	0.77941176	1.082
2.4 GHz & 5.8 GHz Band 802.11n_40 MHz BW	13.5	0.630	0.664	0.94879518	0.228
	27	0.334	0.368	0.90760870	0.421
	40.5	0.236	0.268	0.88059701	0.552
	54	0.188	0.220	0.85454545	0.683
	81	0.135	0.168	0.80357143	0.950
	108	0.112	0.144	0.77777778	1.091
	121.5	0.104	0.136	0.76470588	1.165
	135	0.096	0.128	0.75000000	1.249

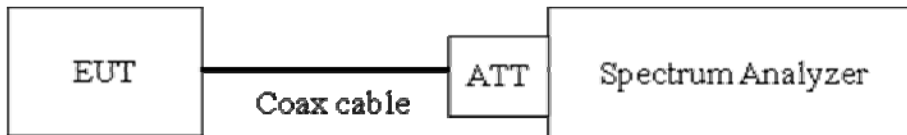
9.2 6dB BANDWIDTH (802.11a/b/g/n)

Test Requirements and limit, §15.247(a)(2)

The bandwidth at 6dB down from the highest in-band spectral density is measured with a spectrum analyzer connected to the receive antenna while the EUT is operating in transmission mode at the appropriate frequencies.

The minimum permissible 6dB bandwidth is 500 kHz.

▣ TEST CONFIGURATION



▣ TEST PROCEDURE

The transmitter output is connected to the Spectrum Analyzer.

The Spectrum Analyzer is set to (Page 5 in KDB 558074, issued 04/09/2013)

RBW = 100 kHz

VBW $\geq 3 \times$ RBW

Detector = Peak

Trace mode = max hold

Sweep = auto couple

Allow the trace to stabilize

Note : We tested 6 dB bandwidth using the automatic bandwidth measurement capability of a spectrum analyzer. X dB is set 6 dB.

Monitoring Port Ant.1

TEST RESULTS

2.4 GHz Band

Conducted 6dB Bandwidth Measurements for 802.11b

802.11b Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
2412	1	10.13	0.500	Pass
2437	6	10.13	0.500	Pass
2462	11	10.13	0.500	Pass

Conducted 6dB Bandwidth Measurements for 802.11g

802.11g Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
2412	1	16.38	0.500	Pass
2437	6	16.39	0.500	Pass
2462	11	16.39	0.500	Pass

Conducted 6dB Bandwidth Measurements for 802.11n_20 MHz BW

802.11n Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
2412	1	17.39	0.500	Pass
2437	6	17.57	0.500	Pass
2462	11	17.60	0.500	Pass

5.8 GHz Band

Conducted 6 dB Bandwidth Measurements for 802.11a

802.11a Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Frequency [MHz]			
5745	149	16.39	0.500	Pass
5785	157	16.36	0.500	Pass
5825	165	16.35	0.500	Pass

Conducted 6 dB Bandwidth Measurements for 802.11n_20 MHz BW

802.11n Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5745	149	17.58	0.500	Pass
5785	157	17.57	0.500	Pass
5825	165	17.20	0.500	Pass

Conducted 6 dB Bandwidth Measurements for 802.11n_40 MHz BW

802.11n Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5755	151	35.84	0.500	Pass
5795	159	36.33	0.500	Pass

Note : In order to simplify the report, attached plots were only the most wide 6 dB BW channel.

Monitoring Port Ant.2

TEST RESULTS

2.4 GHz Band

Conducted 6dB Bandwidth Measurements for 802.11b

802.11b Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
2412	1	10.14	0.500	Pass
2437	6	10.14	0.500	Pass
2462	11	10.12	0.500	Pass

Conducted 6dB Bandwidth Measurements for 802.11g

802.11g Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
2412	1	16.41	0.500	Pass
2437	6	16.41	0.500	Pass
2462	11	16.39	0.500	Pass

Conducted 6dB Bandwidth Measurements for 802.11n_20 MHz BW

802.11n Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
2412	1	17.57	0.500	Pass
2437	6	17.61	0.500	Pass
2462	11	17.57	0.500	Pass

5.8 GHz Band

Conducted 6 dB Bandwidth Measurements for 802.11a

802.11a Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Frequency [MHz]			
5745	149	16.36	0.500	Pass
5785	157	16.39	0.500	Pass
5825	165	16.36	0.500	Pass

Conducted 6 dB Bandwidth Measurements for 802.11n_20 MHz BW

802.11n Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5745	149	17.29	0.500	Pass
5785	157	17.59	0.500	Pass
5825	165	17.58	0.500	Pass

Conducted 6 dB Bandwidth Measurements for 802.11n_40 MHz BW

802.11n Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5755	151	36.03	0.500	Pass
5795	159	36.33	0.500	Pass

Note : In order to simplify the report, attached plots were only the most wide 6 dB BW channel.

Service Port Ant.1

▣ TEST RESULTS

2.4 GHz Band

Conducted 6dB Bandwidth Measurements for 802.11b

802.11b Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
2412	1	10.13	0.500	Pass
2437	6	10.09	0.500	Pass
2462	11	10.13	0.500	Pass

Conducted 6dB Bandwidth Measurements for 802.11g

802.11g Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
2412	1	16.41	0.500	Pass
2437	6	16.42	0.500	Pass
2462	11	16.40	0.500	Pass

Conducted 6dB Bandwidth Measurements for 802.11n_20 MHz BW

802.11n Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
2412	1	17.62	0.500	Pass
2437	6	17.61	0.500	Pass
2462	11	17.63	0.500	Pass

5.8 GHz Band

Conducted 6 dB Bandwidth Measurements for 802.11a

802.11a Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Frequency [MHz]			
5745	149	16.38	0.500	Pass
5785	157	16.36	0.500	Pass
5825	165	16.38	0.500	Pass

Conducted 6 dB Bandwidth Measurements for 802.11n_20 MHz BW

802.11n Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5745	149	17.31	0.500	Pass
5785	157	16.96	0.500	Pass
5825	165	16.94	0.500	Pass

Conducted 6 dB Bandwidth Measurements for 802.11n_40 MHz BW

802.11n Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5755	151	36.13	0.500	Pass
5795	159	36.50	0.500	Pass

Note : In order to simplify the report, attached plots were only the most wide 6 dB BW channel.

Service Port Ant.2

▣ TEST RESULTS

2.4 GHz Band

Conducted 6dB Bandwidth Measurements for 802.11b

802.11b Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
2412	1	10.13	0.500	Pass
2437	6	10.13	0.500	Pass
2462	11	10.13	0.500	Pass

Conducted 6dB Bandwidth Measurements for 802.11g

802.11g Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
2412	1	16.39	0.500	Pass
2437	6	16.40	0.500	Pass
2462	11	16.39	0.500	Pass

Conducted 6dB Bandwidth Measurements for 802.11n_20 MHz BW

802.11n Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
2412	1	17.60	0.500	Pass
2437	6	17.61	0.500	Pass
2462	11	17.57	0.500	Pass

5.8 GHz Band

Conducted 6 dB Bandwidth Measurements for 802.11a

802.11a Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Frequency [MHz]			
5745	149	16.39	0.500	Pass
5785	157	16.37	0.500	Pass
5825	165	16.38	0.500	Pass

Conducted 6 dB Bandwidth Measurements for 802.11n_20 MHz BW

802.11n Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5745	149	17.11	0.500	Pass
5785	157	17.34	0.500	Pass
5825	165	17.09	0.500	Pass

Conducted 6 dB Bandwidth Measurements for 802.11n_40 MHz BW

802.11n Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5755	151	35.74	0.500	Pass
5795	159	35.50	0.500	Pass

Note : In order to simplify the report, attached plots were only the most wide 6 dB BW channel.

Service Port Ant.3

▣ TEST RESULTS

2.4 GHz Band

Conducted 6dB Bandwidth Measurements for 802.11b

802.11b Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
2412	1	10.13	0.500	Pass
2437	6	10.12	0.500	Pass
2462	11	10.13	0.500	Pass

Conducted 6dB Bandwidth Measurements for 802.11g

802.11g Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
2412	1	16.40	0.500	Pass
2437	6	16.41	0.500	Pass
2462	11	16.43	0.500	Pass

Conducted 6dB Bandwidth Measurements for 802.11n_20 MHz BW

802.11n Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
2412	1	17.63	0.500	Pass
2437	6	17.62	0.500	Pass
2462	11	17.61	0.500	Pass

5.8 GHz Band

Conducted 6 dB Bandwidth Measurements for 802.11a

802.11a Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Frequency [MHz]			
5745	149	16.37	0.500	Pass
5785	157	16.38	0.500	Pass
5825	165	16.35	0.500	Pass

Conducted 6 dB Bandwidth Measurements for 802.11n_20 MHz BW

802.11n Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5745	149	17.58	0.500	Pass
5785	157	17.15	0.500	Pass
5825	165	17.24	0.500	Pass

Conducted 6 dB Bandwidth Measurements for 802.11n_40 MHz BW

802.11n Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5755	151	35.84	0.500	Pass
5795	159	36.37	0.500	Pass

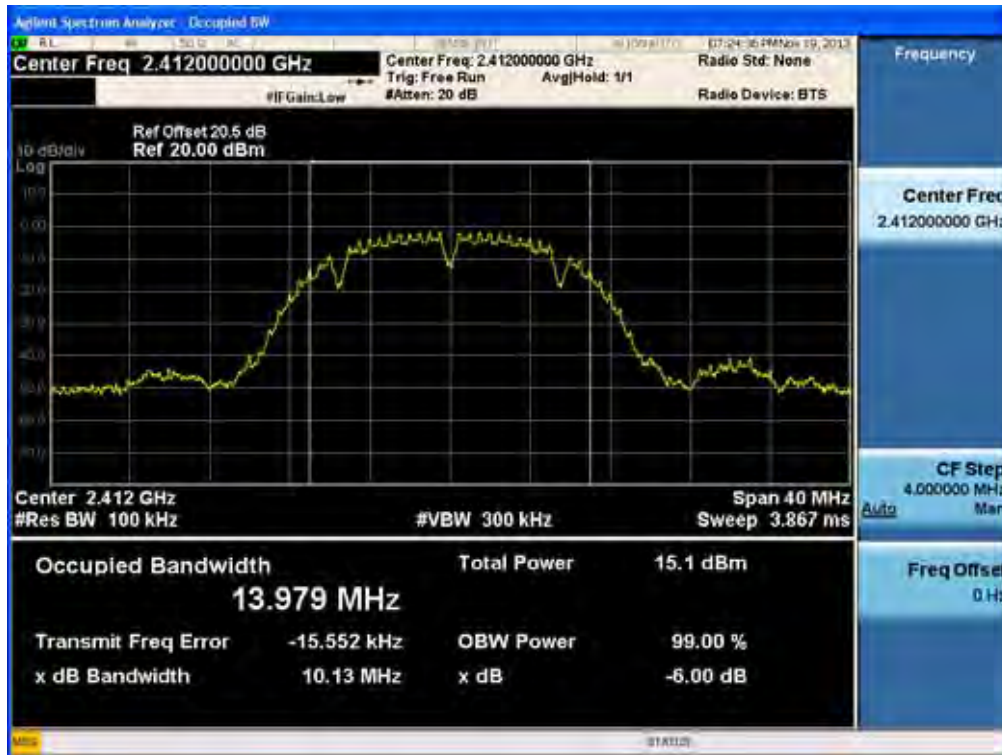
Note : In order to simplify the report, attached plots were only the most wide 6 dB BW channel.

Monitoring Port Ant.1

RESULT PLOTS

2.4 GHz Band

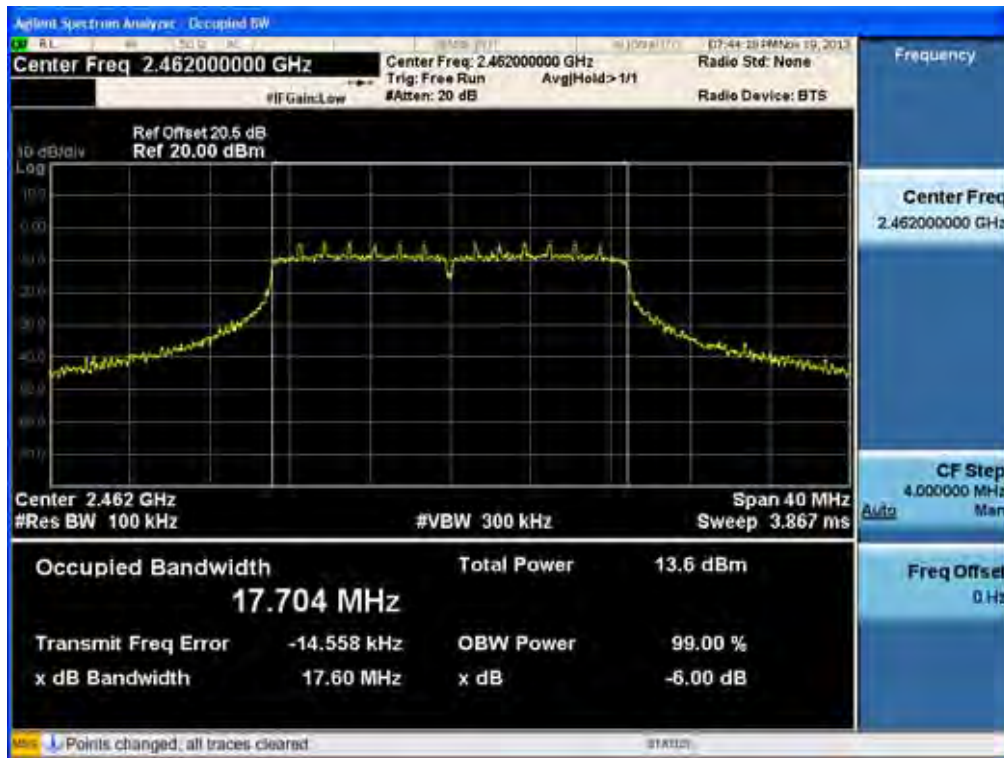
6dB Bandwidth plot (802.11b-CH 1)



6dB Bandwidth plot (802.11g-CH 6)

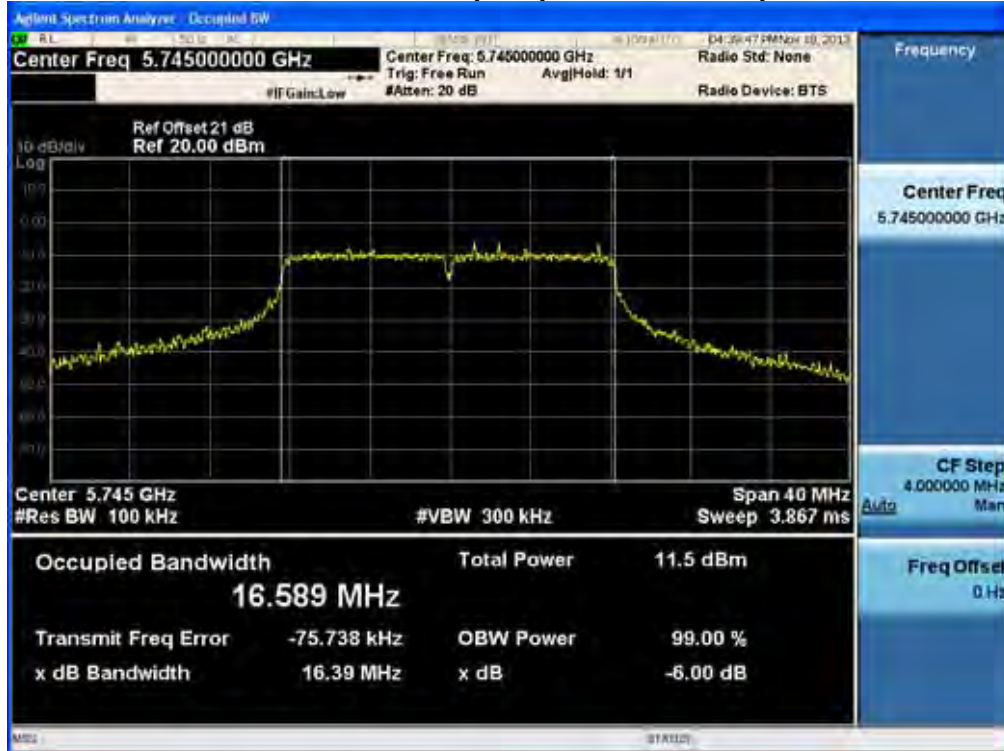


6dB Bandwidth plot (802.11n-CH 11)

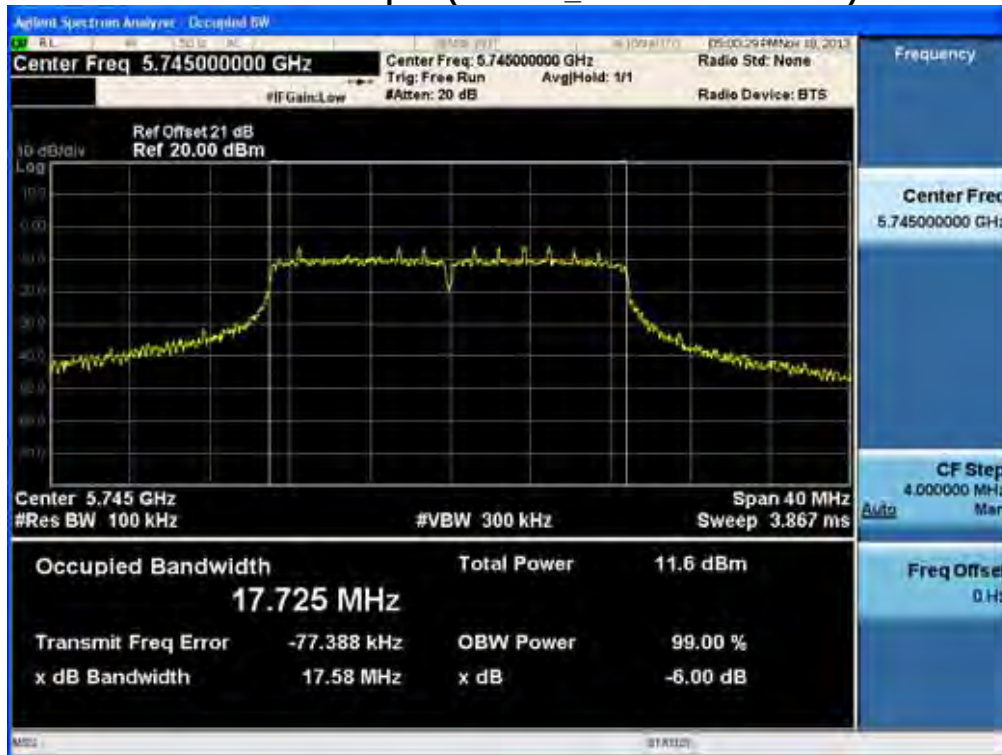


5.8 GHz Band

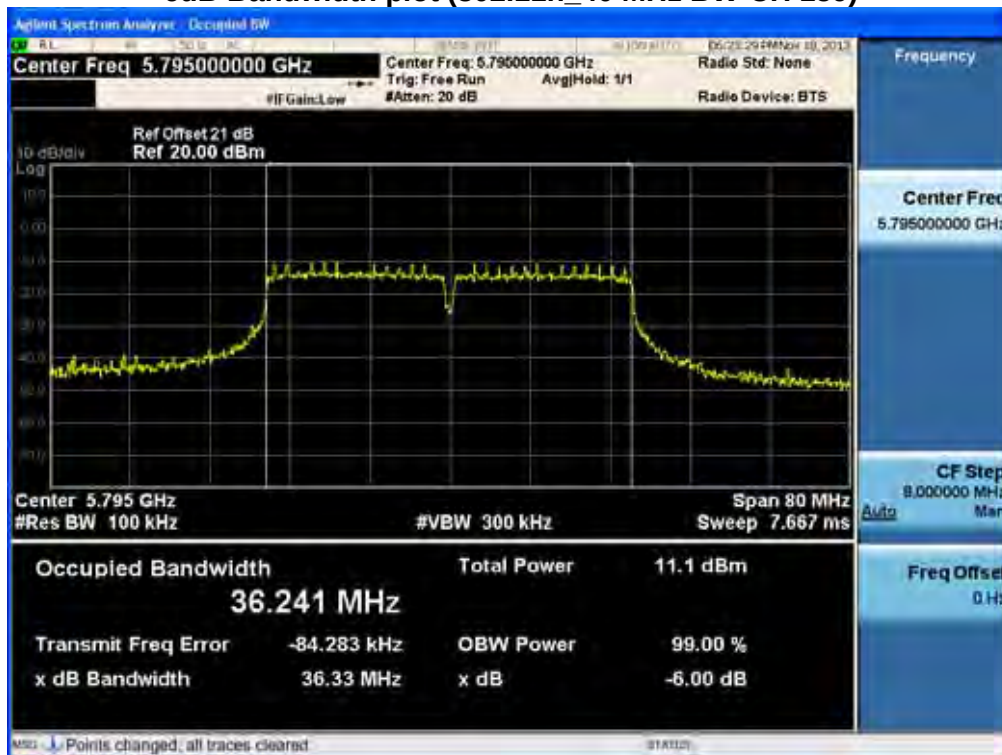
6dB Bandwidth plot (802.11a-CH 149)



6dB Bandwidth plot (802.11n_20 MHz BW-CH 149)



6dB Bandwidth plot (802.11n_40 MHz BW-CH 159)

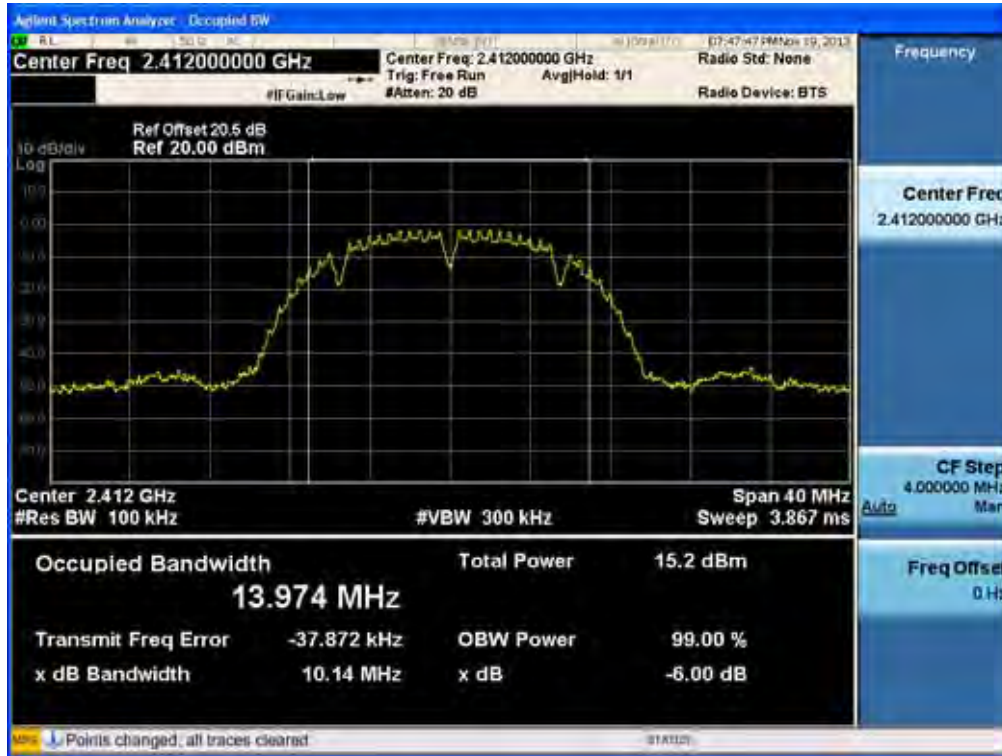


Monitoring Port Ant.2

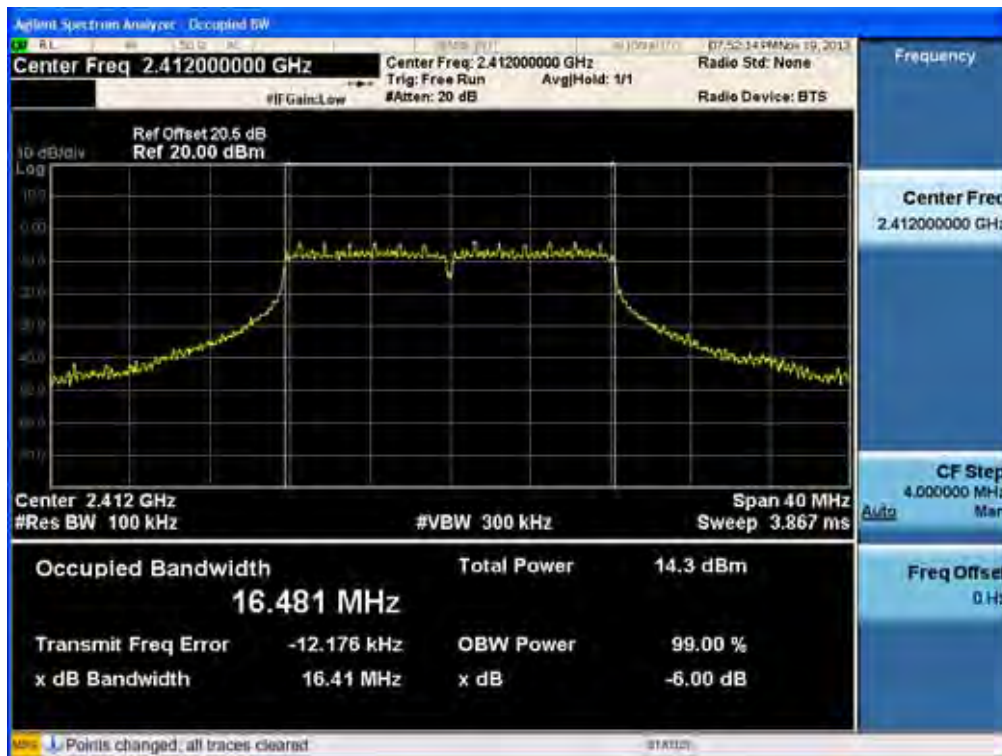
RESULT PLOTS

2.4 GHz Band

6dB Bandwidth plot (802.11b-CH 1)



6dB Bandwidth plot (802.11g-CH 1)

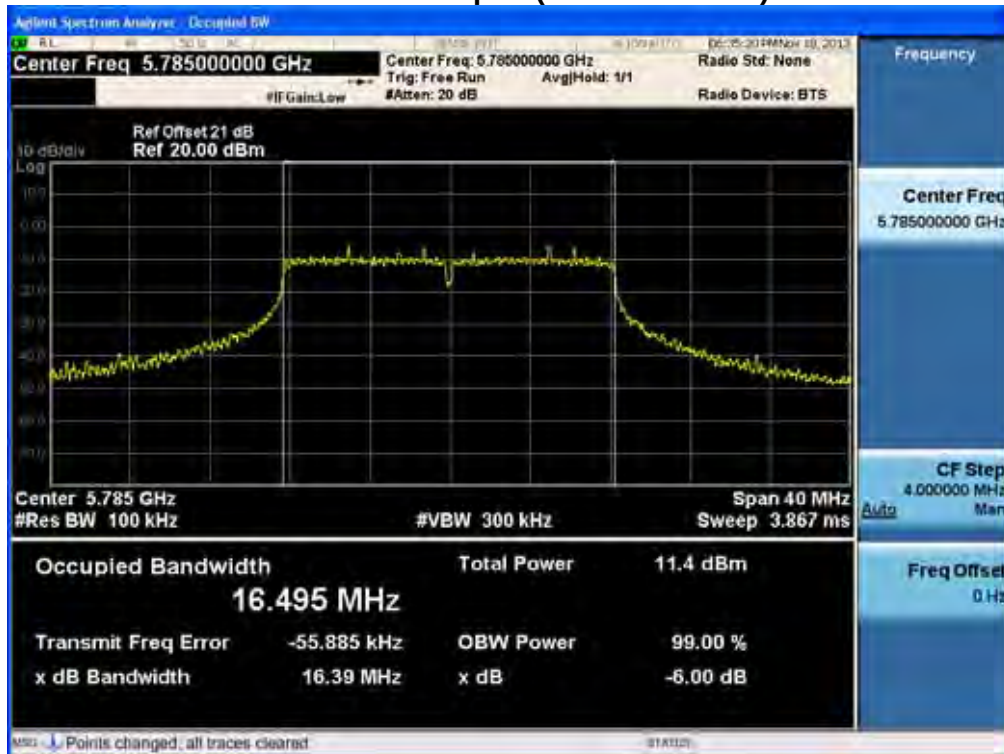


6dB Bandwidth plot (802.11n-CH 6)

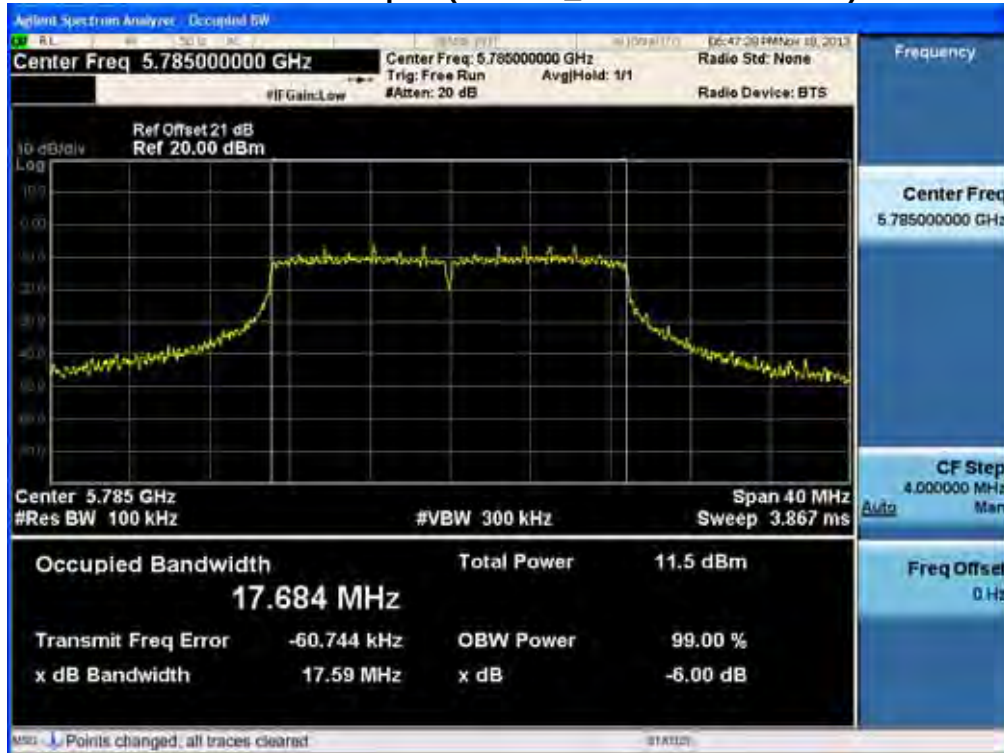


5.8 GHz Band

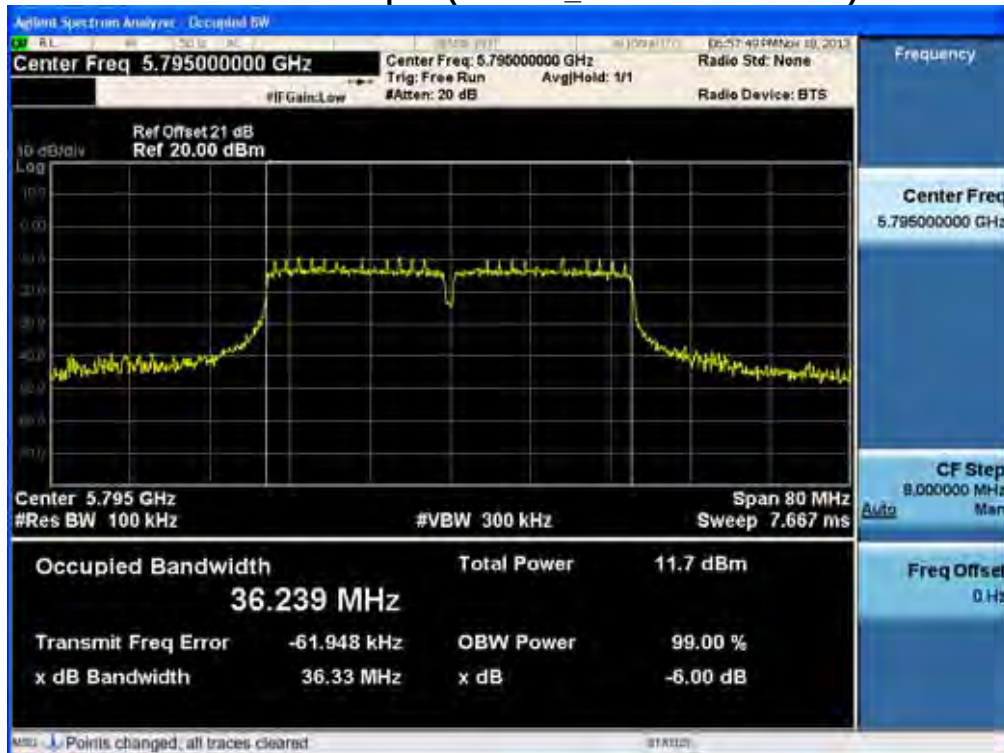
6dB Bandwidth plot (802.11a-CH 157)



6dB Bandwidth plot (802.11n_20 MHz BW-CH 157)



6dB Bandwidth plot (802.11n_40 MHz BW-CH 159)

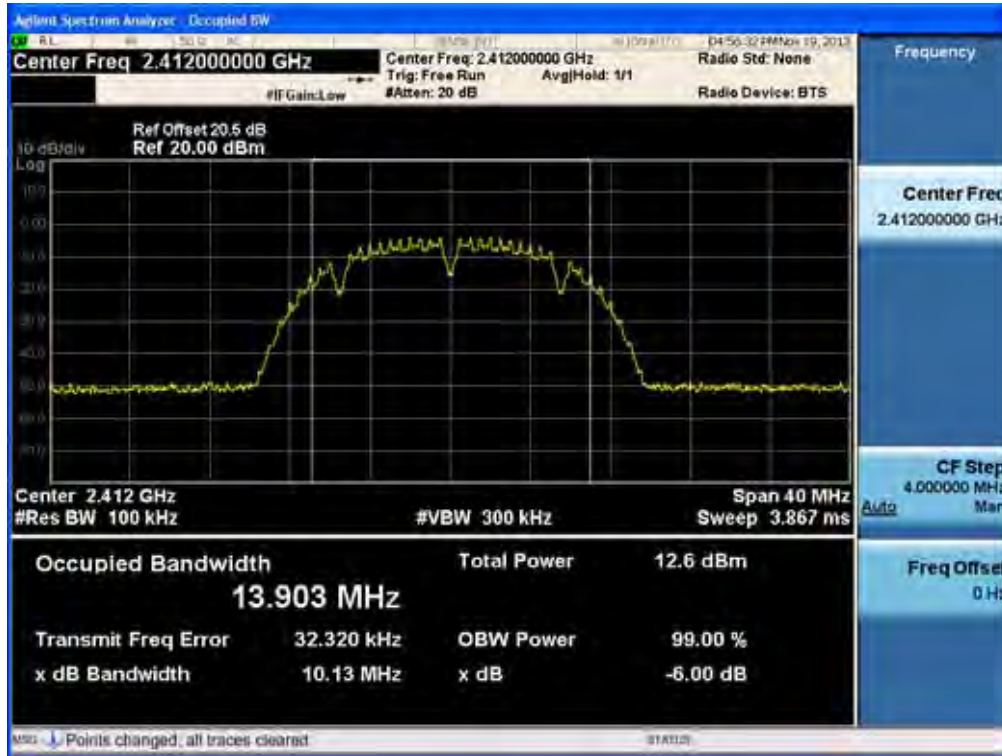


Service Port Ant.1

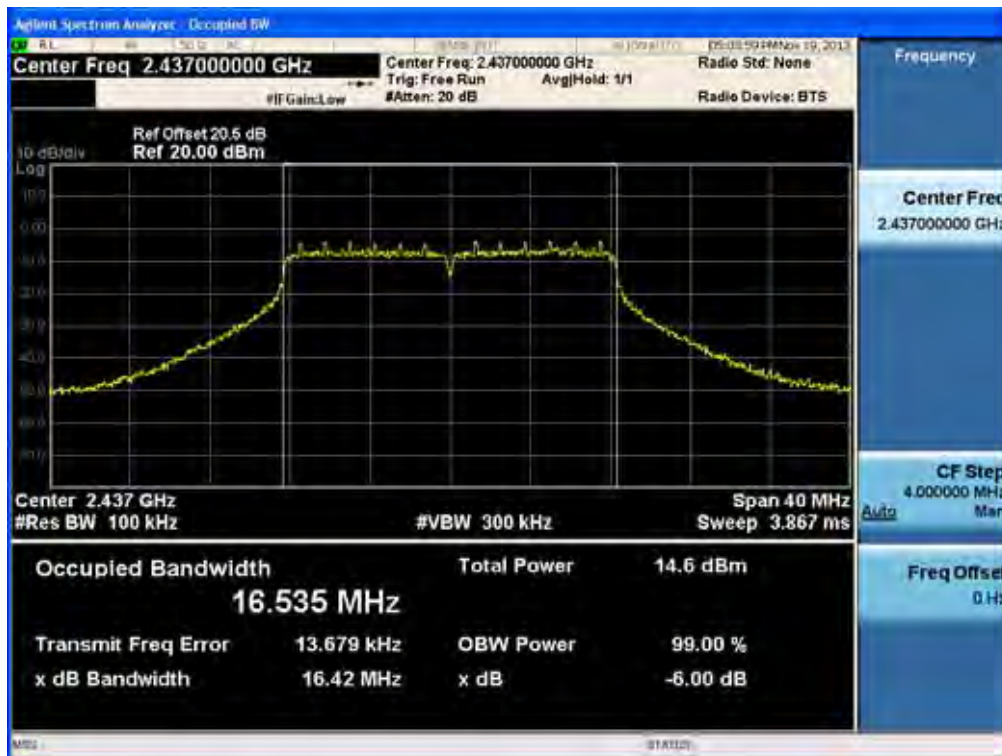
RESULT PLOTS

2.4 GHz Band

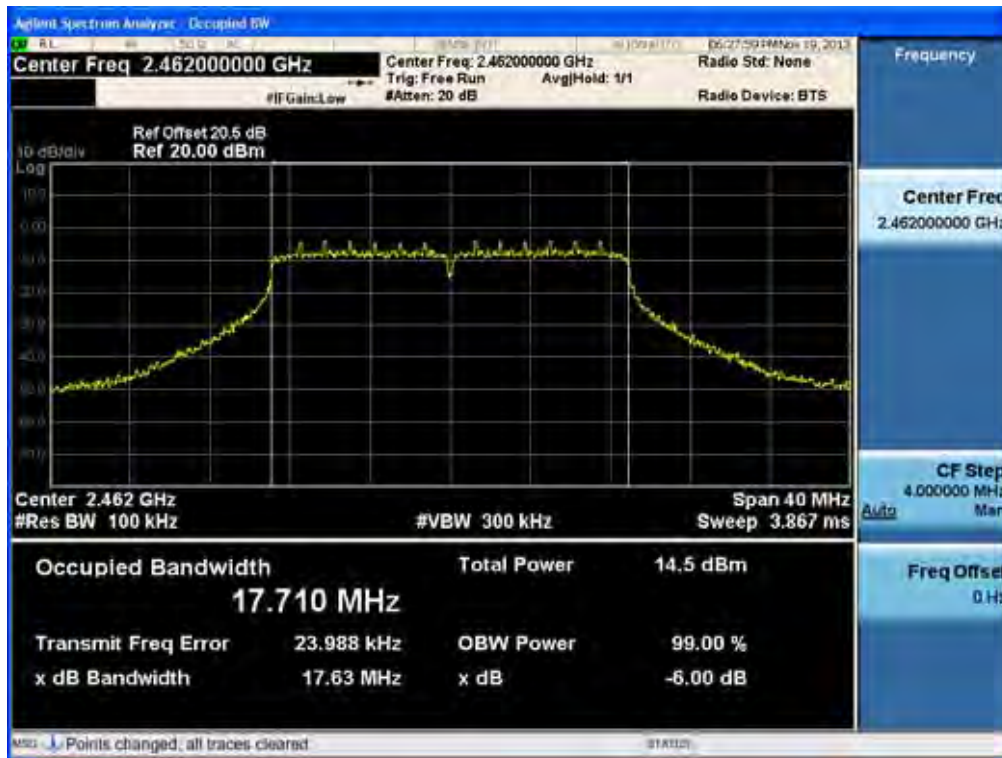
6dB Bandwidth plot (802.11b-CH 1)



6dB Bandwidth plot (802.11g-CH 6)

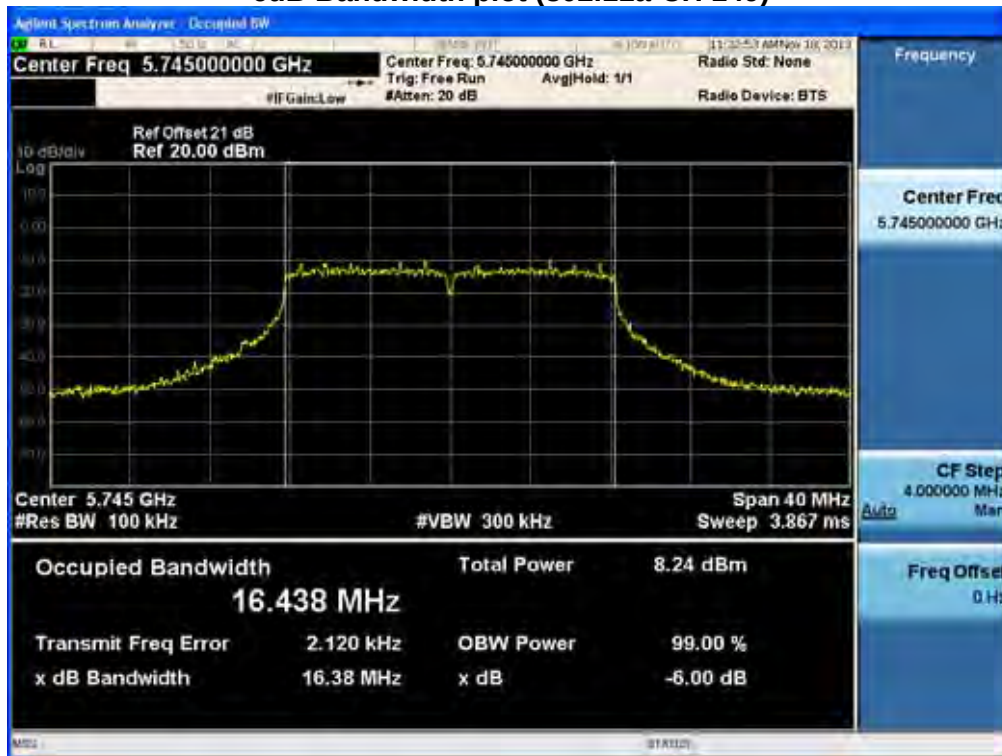


6dB Bandwidth plot (802.11n-CH 11)

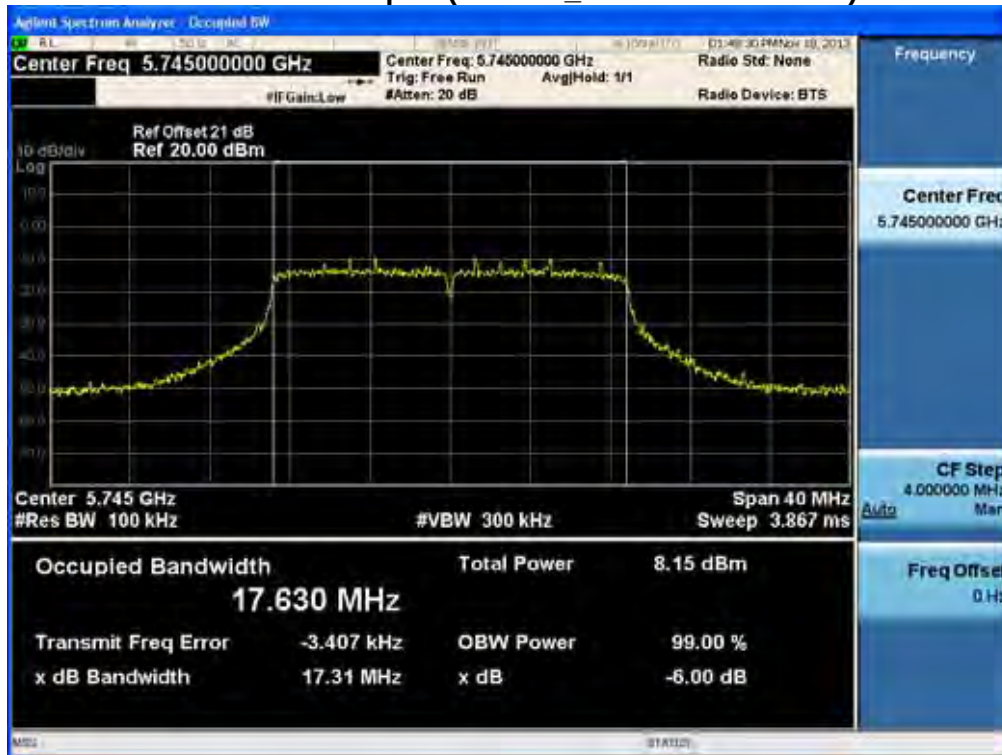


5.8 GHz Band

6dB Bandwidth plot (802.11a-CH 149)



6dB Bandwidth plot (802.11n_20 MHz BW-CH 149)



6dB Bandwidth plot (802.11n_40 MHz BW-CH 159)

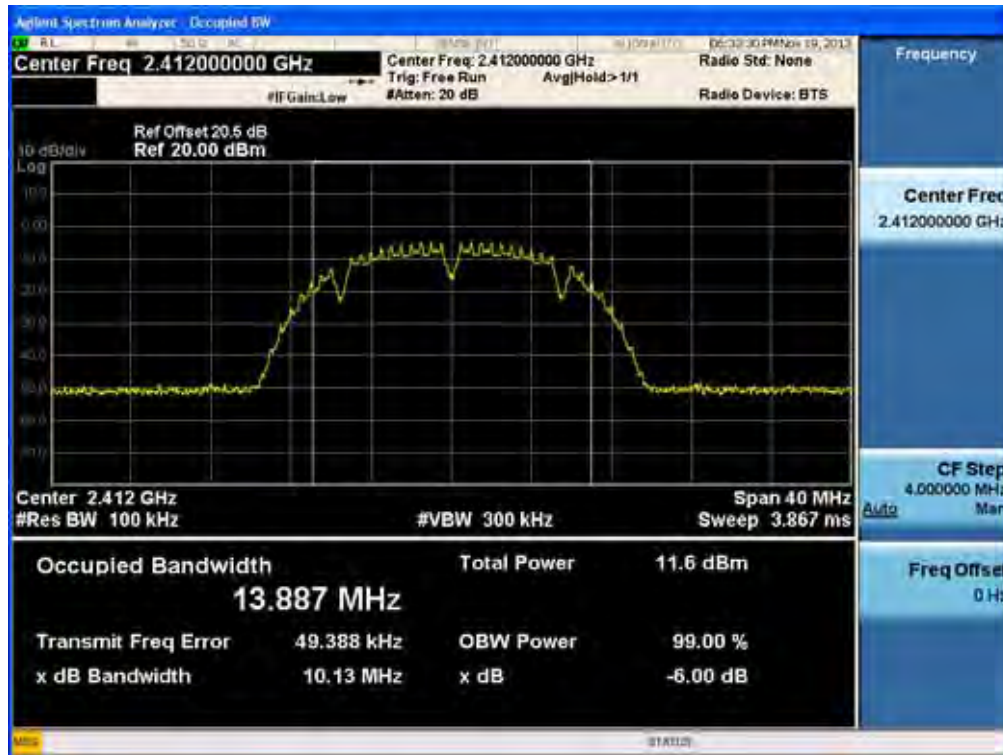


Service Port Ant.2

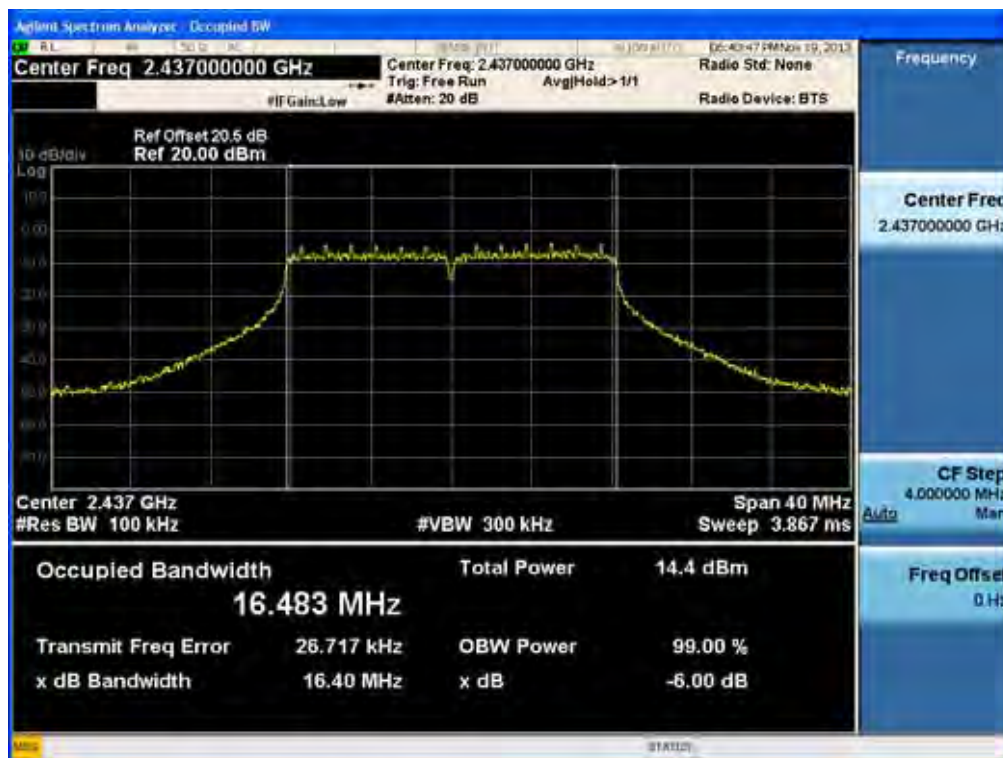
RESULT PLOTS

2.4 GHz Band

6dB Bandwidth plot (802.11b-CH 1)



6dB Bandwidth plot (802.11g-CH 6)

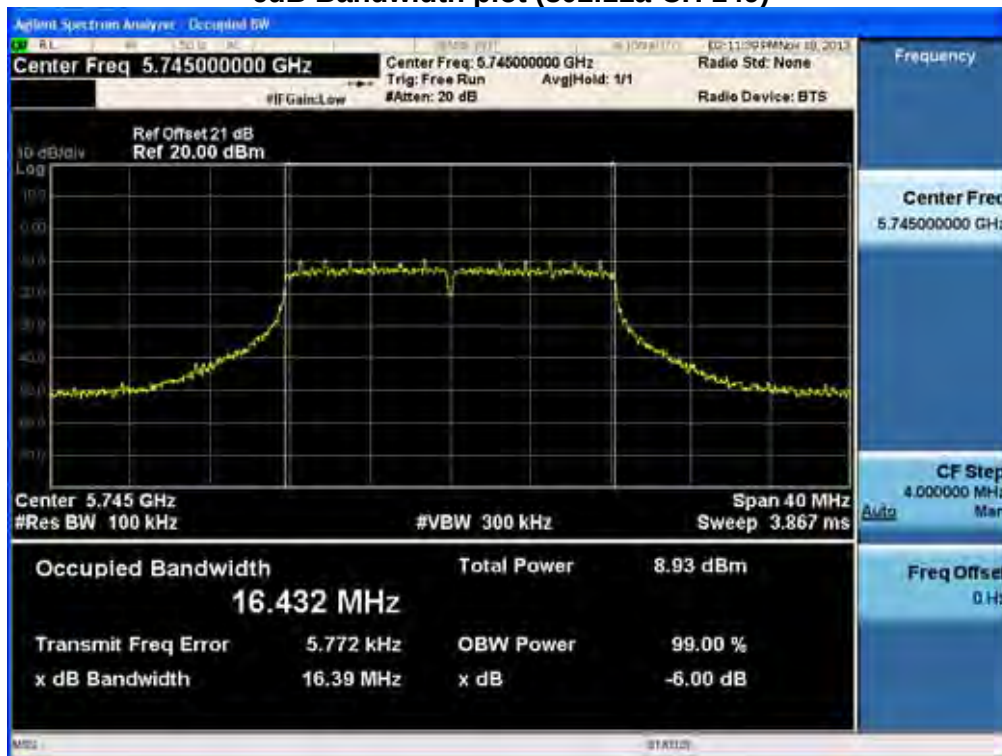


6dB Bandwidth plot (802.11n-CH 6)

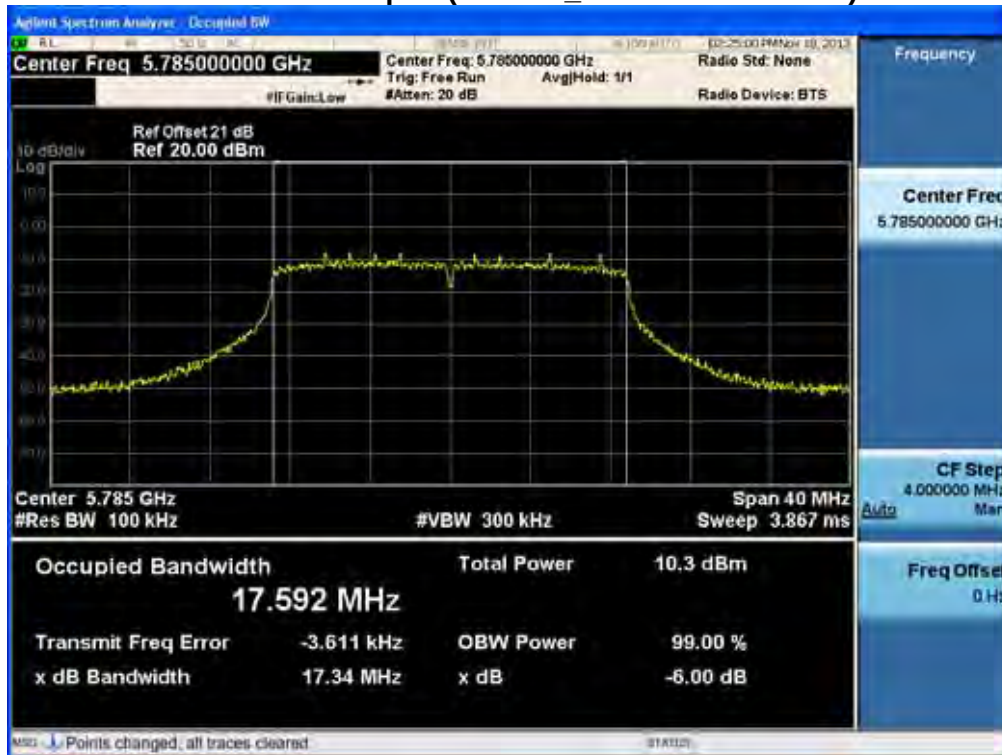


5.8 GHz Band

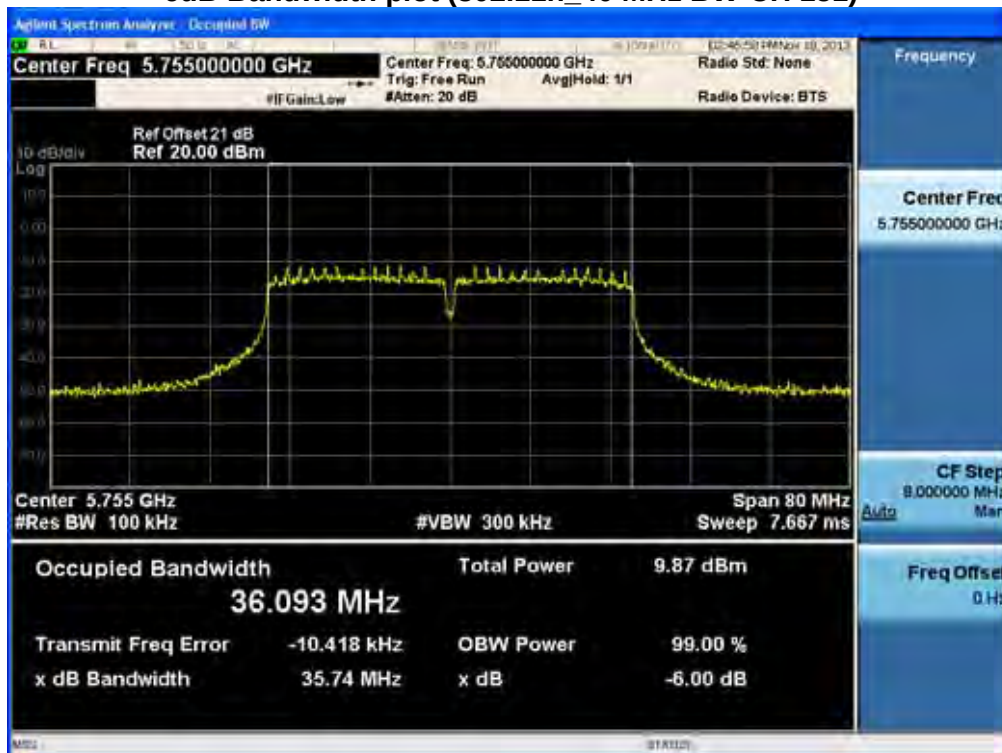
6dB Bandwidth plot (802.11a-CH 149)



6dB Bandwidth plot (802.11n_20 MHz BW-CH 157)



6dB Bandwidth plot (802.11n_40 MHz BW-CH 151)



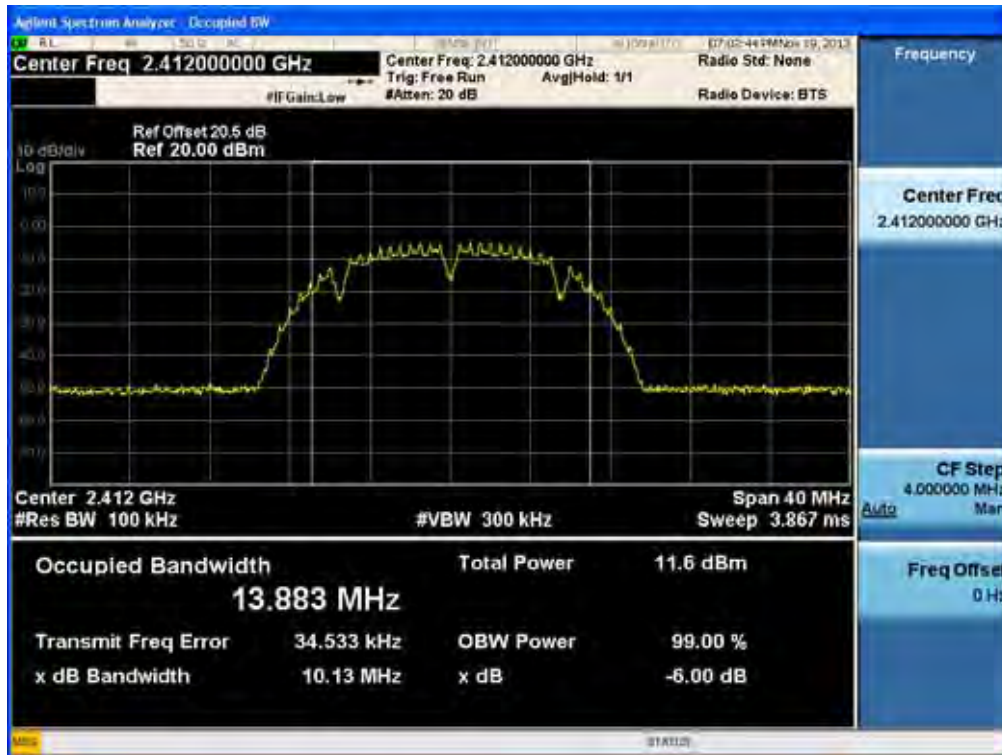


Service Port Ant.3

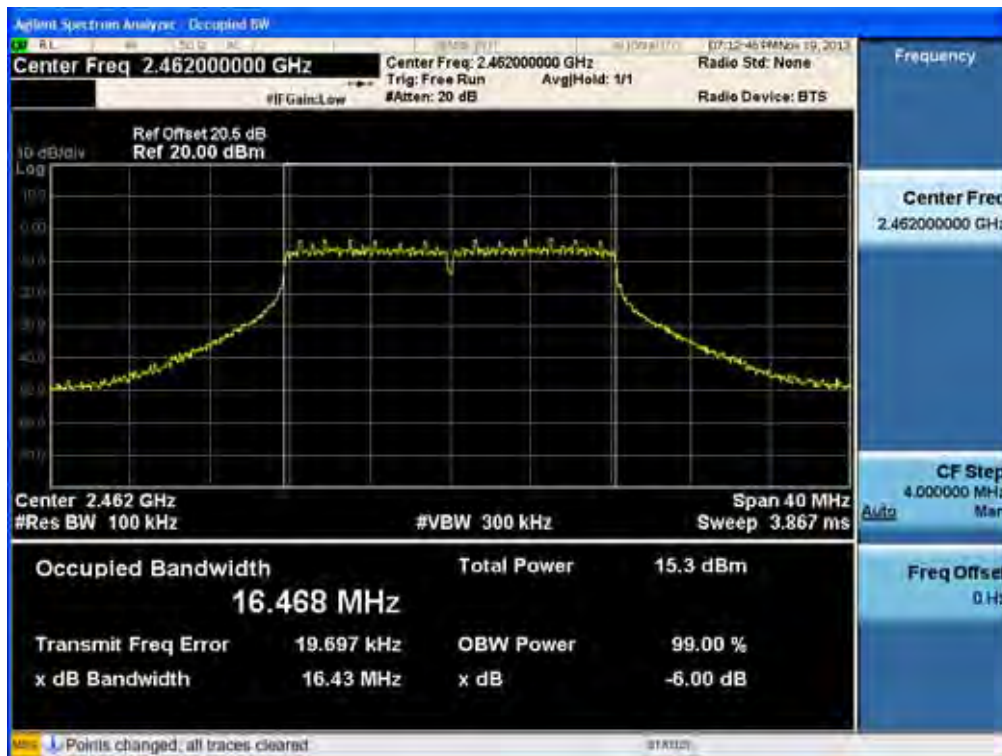
▣ RESULT PLOTS

2.4 GHz Band

6dB Bandwidth plot (802.11b-CH 1)

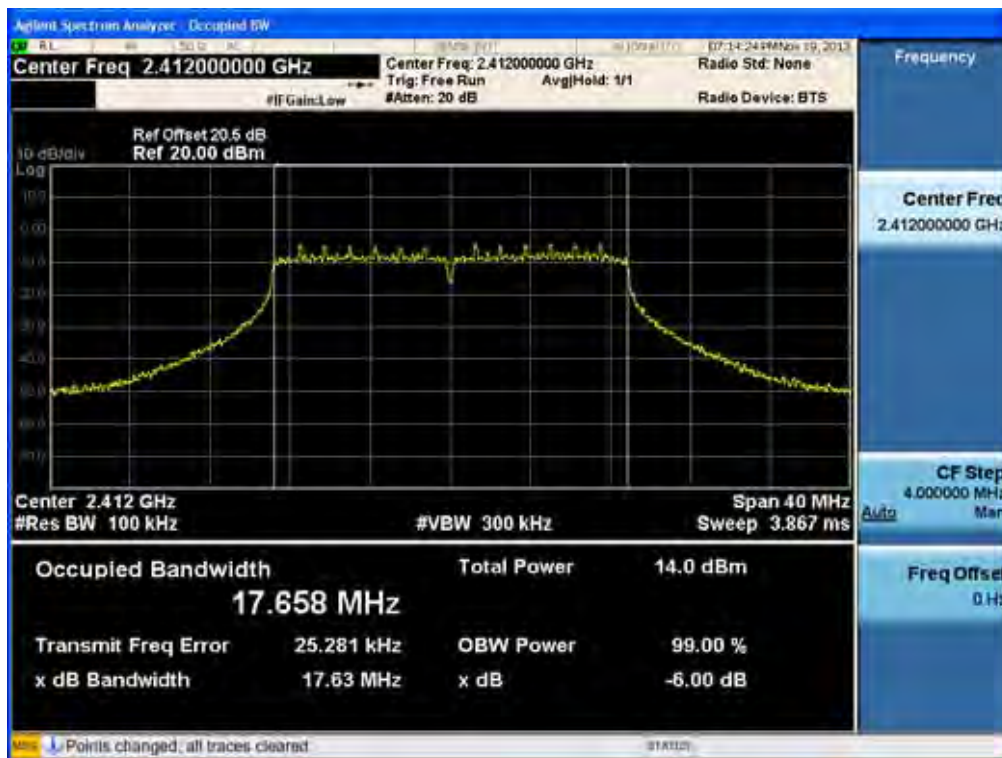


6dB Bandwidth plot (802.11g-CH 11)



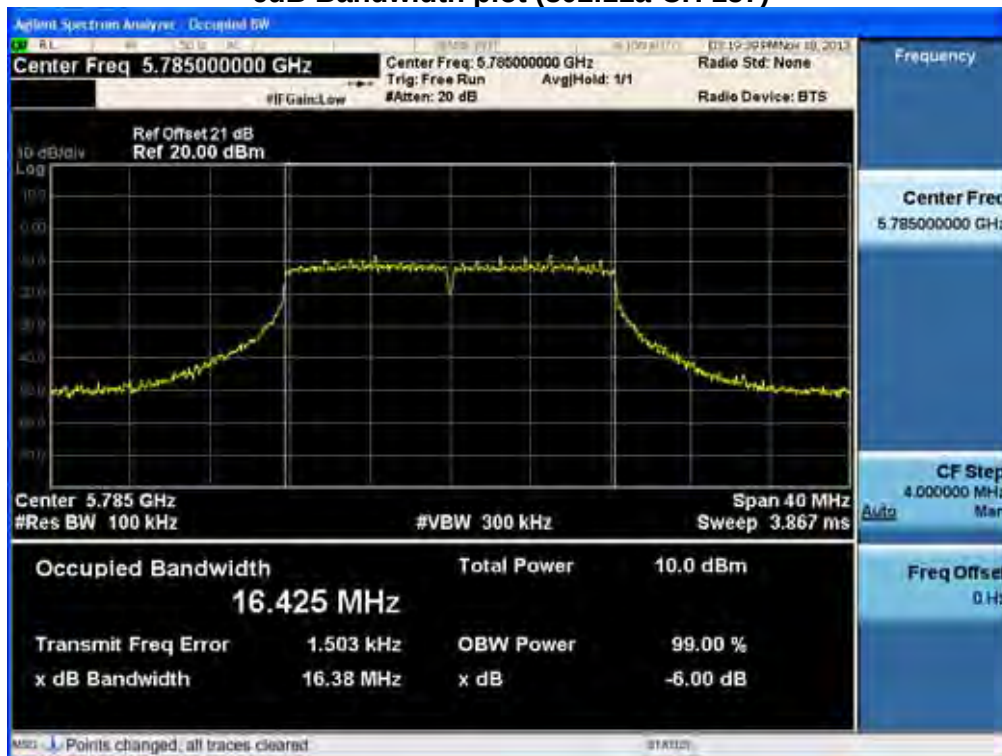
FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1312FR13-1	Date of Issue: January 02, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA303I

6dB Bandwidth plot (802.11n-CH 1)

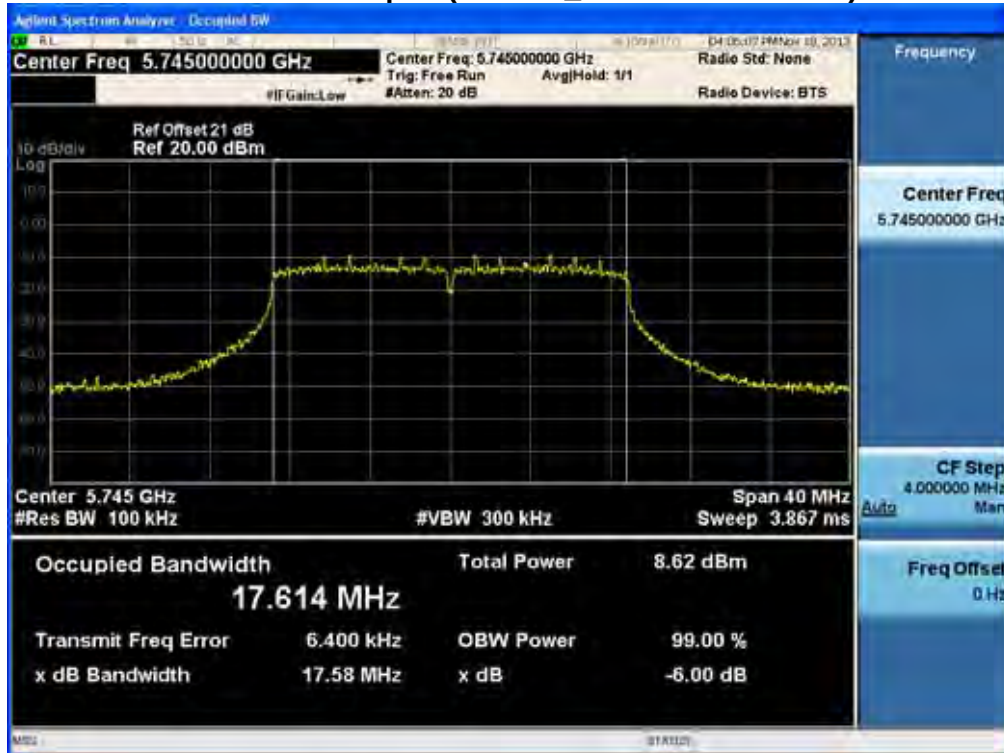


5.8 GHz Band

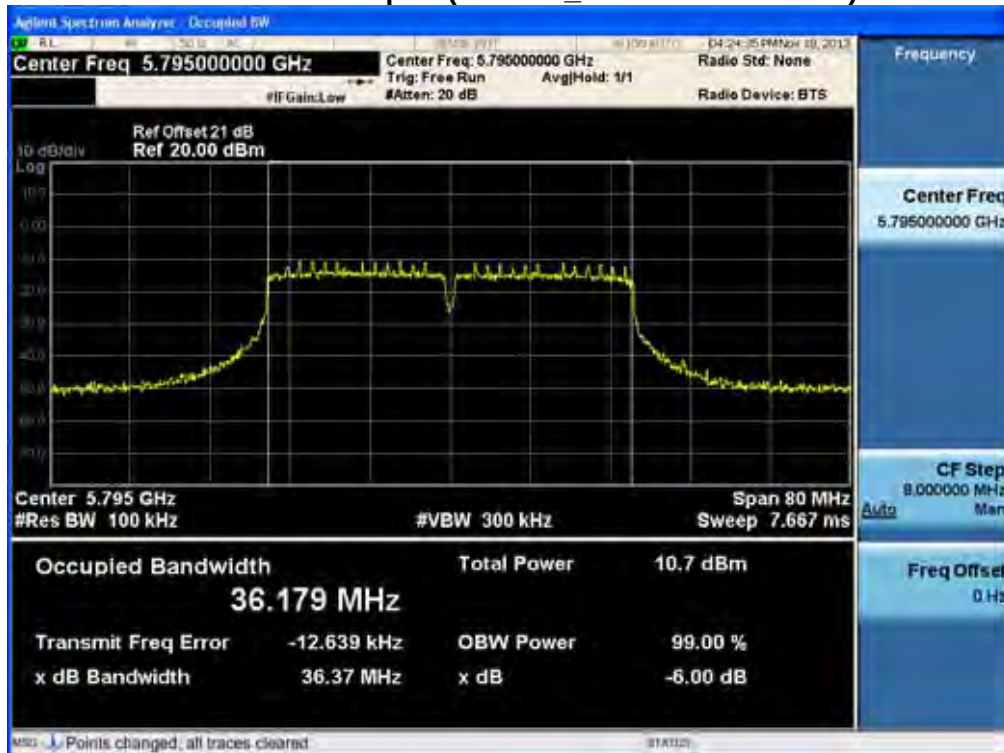
6dB Bandwidth plot (802.11a-CH 157)



6dB Bandwidth plot (802.11n_20 MHz BW-CH 149)



6dB Bandwidth plot (802.11n_40 MHz BW-CH 159)



9.3 OUTPUT POWER (802.11a/b/g/n)

Test Requirements and limit, §15.247(b)(3)

The transmitter output is connected to the input of an RF power sensor. Measurement is made using a broadband power meter capable of making peak and average measurements while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies.

Limit :

2.4 GHz Band

Operating Mode	Mode	Ant. Gain(dBi)	Limt(dBm)
SISO : Monitoring	802.11b	3.5	30
	802.11g		
	802.11n		
SISO : Service	802.11b	4.5	30
	802.11g		
	802.11n		
MIMO(2 TX) : Monitoring	802.11b	6.51	29.49
	802.11g		
	802.11n	3.5	30
MIMO(2 TX) : Service	802.11b	7.51	28.49
	802.11g		
	802.11n	4.5	30
MIMO(3 TX) : Service	802.11b	9.27	26.73
	802.11g		
	802.11n	4.5	30

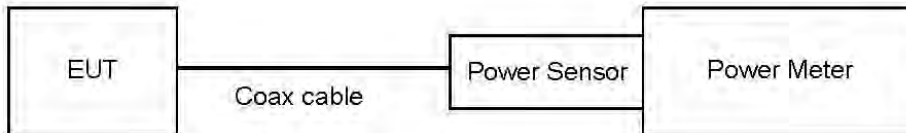
Note : Above the limits is calculated according to antenna gain. Because antenna gain is higher than 6 dBi.

5.8 GHz Band

Operating Mode	Mode	Ant. Gain(dBi)	Limt(dBm)
SISO : Monitoring	802.11a	5.5	30
	802.11n_20 MHz BW		
	802.11n_40 MHz BW		
SISO : Service	802.11a	6	30
	802.11n_20 MHz BW		
	802.11n_40 MHz BW		
MIMO(2 TX) : Monitoring	802.11a	8.51	27.49
	802.11n_20 MHz BW	5.5	30
	802.11n_40 MHz BW		
MIMO(2 TX) : Service	802.11a	9.01	26.99
	802.11n_20 MHz BW	6	30
	802.11n_40 MHz BW		
MIMO(3 TX) : Service	802.11a	10.77	25.23
	802.11n_20 MHz BW	6	30
	802.11n_40 MHz BW		

Note : Above the limits is calculated according to antenna gain. Because antenna gain is higher than 6 dBi.

■ TEST CONFIGURATION



■ TEST PROCEDURE

- Peak Power (Procedure 9.1.3 in KDB 558074, issued 04/09/2013)
 1. Measure the peak power of the transmitter.
- Average Power (Procedure 9.2.3.1 in KDB 558074, issued 04/09/2013)
 1. Measure the duty cycle.
 2. Measure the average power of the transmitter. This measurement is an average over both the on and off periods of the transmitter.
 3. Add $10 \log (1/x)$, where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times.

Note :

1. We apply to the offset in the 2.4 GHz and 5.8 GHz range that was rounded off to the closest tenth dB. So, 20.5 dB is offset for 2.4 GHz Band and 21.0 dB is offset for 5.8 GHz Band.

Actual value of loss for the attenuator and cable combination is below table. We used the particular cable

FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1312FR13-1	Date of Issue: January 02,2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA303I



type that is supported by manufacture.

Band	Loss(dB)
2.4 GHz	20.5
5.8 GHz	21.0

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

FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1312FR13-1	Date of Issue: January 02,2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA303I

Monitoring Port

■ TEST RESULTS-Peak

2.4 GHz Band

■ Ant.1

Conducted Output Power Measurements (802.11b Mode)

802.11b Mode		Rate (Mbps)	Measured Power(dBm)	Limit (dBm)
Frequency[MHz]	Channel No.			
2412	1	1 Mbps	10.24	30
		2 Mbps	10.17	30
		5.5 Mbps	10.51	30
		11 Mbps	10.52	30
2437	6	1 Mbps	10.10	30
		2 Mbps	10.07	30
		5.5 Mbps	10.09	30
		11 Mbps	10.16	30
2462	11	1 Mbps	10.13	30
		2 Mbps	10.14	30
		5.5 Mbps	10.11	30
		11 Mbps	10.21	30

■ Ant.2

Conducted Output Power Measurements (802.11b Mode)

802.11b Mode		Rate (Mbps)	Measured Power(dBm)	Limit (dBm)
Frequency[MHz]	Channel No.			
2412	1	1 Mbps	10.62	30
		2 Mbps	10.57	30
		5.5 Mbps	10.66	30
		11 Mbps	10.78	30
2437	6	1 Mbps	10.49	30
		2 Mbps	10.50	30
		5.5 Mbps	10.47	30
		11 Mbps	10.60	30
2462	11	1 Mbps	10.17	30
		2 Mbps	10.21	30
		5.5 Mbps	10.11	30
		11 Mbps	10.28	30

■ Sum Data of Ant.1 and Ant.2

Conducted Output Power Measurements (802.11b Mode)

802.11b Mode		Rate (Mbps)	Measured Power(dBm)	Limit (dBm)
Frequency[MHz]	Channel No.			
2412	1	1 Mbps	13.44	29.49
		2 Mbps	13.38	29.49
		5.5 Mbps	13.60	29.49
		11 Mbps	13.66	29.49
2437	6	1 Mbps	13.31	29.49
		2 Mbps	13.30	29.49
		5.5 Mbps	13.29	29.49
		11 Mbps	13.40	29.49
2462	11	1 Mbps	13.16	29.49
		2 Mbps	13.19	29.49
		5.5 Mbps	13.12	29.49
		11 Mbps	13.26	29.49

Ant 1

Conducted Output Power Measurements (802.11g Mode)

802.11g Mode		Rate (Mbps)	Measured Power(dBm)	Limit (dBm)
Frequency[MHz]	Channel No.			
2412	1	6 Mbps	16.21	30
		9 Mbps	16.43	30
		12 Mbps	16.71	30
		18 Mbps	16.86	30
		24 Mbps	16.75	30
		36 Mbps	16.85	30
		48 Mbps	15.66	30
		54 Mbps	15.07	30
2437	6	6 Mbps	15.85	30
		9 Mbps	16.10	30
		12 Mbps	16.28	30
		18 Mbps	16.51	30
		24 Mbps	16.22	30
		36 Mbps	15.88	30
		48 Mbps	14.74	30
		54 Mbps	15.02	30
2462	11	6 Mbps	15.82	30
		9 Mbps	15.92	30
		12 Mbps	16.10	30
		18 Mbps	16.03	30
		24 Mbps	16.29	30
		36 Mbps	15.57	30
		48 Mbps	14.91	30
		54 Mbps	15.23	30

■ Ant 2

Conducted Output Power Measurements (802.11g Mode)

802.11g Mode		Rate (Mbps)	Measured Power(dBm)	Limit (dBm)
Frequency[MHz]	Channel No.			
2412	1	6 Mbps	16.55	30
		9 Mbps	16.67	30
		12 Mbps	16.68	30
		18 Mbps	17.15	30
		24 Mbps	17.07	30
		36 Mbps	16.05	30
		48 Mbps	15.39	30
		54 Mbps	16.04	30
2437	6	6 Mbps	16.35	30
		9 Mbps	16.43	30
		12 Mbps	16.65	30
		18 Mbps	16.86	30
		24 Mbps	16.76	30
		36 Mbps	16.00	30
		48 Mbps	15.92	30
		54 Mbps	16.01	30
2462	11	6 Mbps	15.94	30
		9 Mbps	16.05	30
		12 Mbps	16.18	30
		18 Mbps	16.36	30
		24 Mbps	16.38	30
		36 Mbps	15.90	30
		48 Mbps	15.17	30
		54 Mbps	15.39	30

■ Sum Data of Ant.1 and Ant.2

Conducted Output Power Measurements (802.11g Mode)

802.11g Mode		Rate (Mbps)	Measured Power(dBm)	Limit (dBm)
Frequency[MHz]	Channel No.			
2412	1	6 Mbps	19.39	29.49
		9 Mbps	19.56	29.49
		12 Mbps	19.71	29.49
		18 Mbps	20.02	29.49
		24 Mbps	19.93	29.49
		36 Mbps	19.48	29.49
		48 Mbps	18.54	29.49
		54 Mbps	18.59	29.49
2437	6	6 Mbps	19.12	29.49
		9 Mbps	19.28	29.49
		12 Mbps	19.48	29.49
		18 Mbps	19.70	29.49
		24 Mbps	19.51	29.49
		36 Mbps	18.95	29.49
		48 Mbps	18.38	29.49
		54 Mbps	18.56	29.49
2462	11	6 Mbps	18.89	29.49
		9 Mbps	19.00	29.49
		12 Mbps	19.15	29.49
		18 Mbps	19.21	29.49
		24 Mbps	19.35	29.49
		36 Mbps	18.75	29.49
		48 Mbps	18.05	29.49
		54 Mbps	18.32	29.49

Ant 1

Conducted Output Power Measurements (802.11n Mode)

802.11n Mode		Rate (Mbps)	Measured Power(dBm)	Limit (dBm)
Frequency[MHz]	Channel No.			
2412	1	6.5 Mbps	16.13	30
		13 Mbps	15.34	30
		19.5 Mbps	15.44	30
		26 Mbps	15.34	30
		39 Mbps	15.75	30
		52 Mbps	16.61	30
		58.5 Mbps	15.82	30
		65 Mbps	15.69	30
2437	6	6.5 Mbps	15.97	30
		13 Mbps	15.00	30
		19.5 Mbps	15.30	30
		26 Mbps	15.24	30
		39 Mbps	15.38	30
		52 Mbps	15.83	30
		58.5 Mbps	14.91	30
		65 Mbps	15.27	30
2462	11	6.5 Mbps	15.31	30
		13 Mbps	15.35	30
		19.5 Mbps	15.48	30
		26 Mbps	15.23	30
		39 Mbps	15.64	30
		52 Mbps	16.63	30
		58.5 Mbps	16.76	30
		65 Mbps	16.67	30

Ant 2

Conducted Output Power Measurements (802.11n Mode)

802.11n Mode		Rate (Mbps)	Measured Power(dBm)	Limit (dBm)
Frequency[MHz]	Channel No.			
2412	1	6.5 Mbps	16.60	30
		13 Mbps	15.87	30
		19.5 Mbps	15.96	30
		26 Mbps	16.15	30
		39 Mbps	16.56	30
		52 Mbps	17.22	30
		58.5 Mbps	16.52	30
		65 Mbps	16.43	30
2437	6	6.5 Mbps	16.38	30
		13 Mbps	15.96	30
		19.5 Mbps	16.22	30
		26 Mbps	15.86	30
		39 Mbps	16.46	30
		52 Mbps	17.09	30
		58.5 Mbps	16.47	30
		65 Mbps	16.48	30
2462	11	6.5 Mbps	15.74	30
		13 Mbps	15.91	30
		19.5 Mbps	15.95	30
		26 Mbps	15.79	30
		39 Mbps	16.03	30
		52 Mbps	16.95	30
		58.5 Mbps	16.78	30
		65 Mbps	16.54	30

■ Sum Data of Ant.1 and Ant.2

Conducted Output Power Measurements (802.11n Mode)

802.11n Mode		Rate (Mbps)	Measured Power(dBm)	Limit (dBm)
Frequency[MHz]	Channel No.			
2412	1	6.5 Mbps	19.38	30
		13 Mbps	18.62	30
		19.5 Mbps	18.72	30
		26 Mbps	18.77	30
		39 Mbps	19.18	30
		52 Mbps	19.94	30
		58.5 Mbps	19.19	30
		65 Mbps	19.09	30
2437	6	6.5 Mbps	19.19	30
		13 Mbps	18.52	30
		19.5 Mbps	18.79	30
		26 Mbps	18.57	30
		39 Mbps	18.96	30
		52 Mbps	19.52	30
		58.5 Mbps	18.77	30
		65 Mbps	18.93	30
2462	11	6.5 Mbps	18.54	30
		13 Mbps	18.65	30
		19.5 Mbps	18.73	30
		26 Mbps	18.53	30
		39 Mbps	18.85	30
		52 Mbps	19.81	30
		58.5 Mbps	19.78	30
		65 Mbps	19.62	30

5.8 GHz Band

Ant.1

Conducted Output Power Measurements (802.11a Mode: 5745~5825)

802.11a Mode		Rate (Mbps)	Measured Power(dBm)	Limit (dBm)
Frequency[MHz]	Channel No.			
5745	149	6 Mbps	14.31	30
		9 Mbps	14.47	30
		12 Mbps	14.69	30
		18 Mbps	14.65	30
		24 Mbps	14.73	30
		36 Mbps	14.51	30
		48 Mbps	13.67	30
		54 Mbps	14.50	30
5785	157	6 Mbps	13.44	30
		9 Mbps	13.57	30
		12 Mbps	13.74	30
		18 Mbps	14.11	30
		24 Mbps	14.04	30
		36 Mbps	14.58	30
		48 Mbps	14.60	30
		54 Mbps	14.73	30
5825	165	6 Mbps	13.93	30
		9 Mbps	14.32	30
		12 Mbps	14.18	30
		18 Mbps	14.29	30
		24 Mbps	14.40	30
		36 Mbps	14.22	30
		48 Mbps	13.19	30
		54 Mbps	13.48	30

■ Ant.2

Conducted Output Power Measurements (802.11a Mode: 5745~5825)

802.11a Mode		Rate (Mbps)	Measured Power(dBm)	Limit (dBm)
Frequency[MHz]	Channel No.			
5745	149	6 Mbps	15.32	30
		9 Mbps	15.47	30
		12 Mbps	15.40	30
		18 Mbps	15.90	30
		24 Mbps	15.81	30
		36 Mbps	15.23	30
		48 Mbps	14.67	30
		54 Mbps	14.97	30
5785	157	6 Mbps	14.65	30
		9 Mbps	14.88	30
		12 Mbps	14.92	30
		18 Mbps	15.04	30
		24 Mbps	15.35	30
		36 Mbps	15.75	30
		48 Mbps	15.02	30
		54 Mbps	15.47	30
5825	165	6 Mbps	15.26	30
		9 Mbps	15.55	30
		12 Mbps	15.69	30
		18 Mbps	15.91	30
		24 Mbps	15.88	30
		36 Mbps	15.78	30
		48 Mbps	14.62	30
		54 Mbps	13.64	30

■ Sum Data of Ant.1 and Ant.2

Conducted Output Power Measurements (802.11a Mode: 5745~5825)

802.11a Mode		Rate (Mbps)	Measured Power(dBm)	Limit (dBm)
Frequency[MHz]	Channel No.			
5745	149	6 Mbps	17.85	27.49
		9 Mbps	18.01	27.49
		12 Mbps	18.07	27.49
		18 Mbps	18.33	27.49
		24 Mbps	18.31	27.49
		36 Mbps	17.89	27.49
		48 Mbps	17.21	27.49
		54 Mbps	17.75	27.49
5785	157	6 Mbps	17.10	27.49
		9 Mbps	17.28	27.49
		12 Mbps	17.38	27.49
		18 Mbps	17.61	27.49
		24 Mbps	17.75	27.49
		36 Mbps	18.21	27.49
		48 Mbps	17.82	27.49
		54 Mbps	18.12	27.49
5825	165	6 Mbps	17.65	27.49
		9 Mbps	17.99	27.49
		12 Mbps	18.01	27.49
		18 Mbps	18.18	27.49
		24 Mbps	18.22	27.49
		36 Mbps	18.08	27.49
		48 Mbps	16.97	27.49
		54 Mbps	16.57	27.49

■ Ant.1

Conducted Output Power Measurements (802.11n_20 MHz BW Mode: 5745~5825)

802.11n Mode		Rate (Mbps)	Measured Power(dBm)	Limit (dBm)
Frequency[MHz]	Channel No.			
5745	149	6.5 Mbps	14.08	30
		13 Mbps	13.88	30
		19.5 Mbps	13.98	30
		26 Mbps	13.95	30
		39 Mbps	14.41	30
		52 Mbps	13.90	30
		58.5 Mbps	13.88	30
		65 Mbps	13.95	30
5785	157	6.5 Mbps	13.80	30
		13 Mbps	13.82	30
		19.5 Mbps	13.89	30
		26 Mbps	13.72	30
		39 Mbps	14.23	30
		52 Mbps	14.57	30
		58.5 Mbps	14.44	30
		65 Mbps	14.85	30
5825	165	6.5 Mbps	14.13	30
		13 Mbps	13.53	30
		19.5 Mbps	13.71	30
		26 Mbps	13.60	30
		39 Mbps	13.67	30
		52 Mbps	13.67	30
		58.5 Mbps	13.70	30
		65 Mbps	13.49	30

■ Ant.2

Conducted Output Power Measurements (802.11n_20 MHz BW Mode: 5745~5825)

802.11n Mode		Rate (Mbps)	Measured Power(dBm)	Limit (dBm)
Frequency[MHz]	Channel No.			
5745	149	6.5 Mbps	15.35	30
		13 Mbps	15.00	30
		19.5 Mbps	15.46	30
		26 Mbps	14.80	30
		39 Mbps	15.41	30
		52 Mbps	14.90	30
		58.5 Mbps	14.69	30
		65 Mbps	14.90	30
5785	157	6.5 Mbps	14.82	30
		13 Mbps	15.09	30
		19.5 Mbps	14.79	30
		26 Mbps	14.92	30
		39 Mbps	15.21	30
		52 Mbps	15.43	30
		58.5 Mbps	15.31	30
		65 Mbps	15.30	30
5825	165	6.5 Mbps	15.47	30
		13 Mbps	14.93	30
		19.5 Mbps	15.21	30
		26 Mbps	15.01	30
		39 Mbps	15.27	30
		52 Mbps	14.67	30
		58.5 Mbps	14.09	30
		65 Mbps	14.46	30

■ Sum Data of Ant.1 and Ant.2

Conducted Output Power Measurements (802.11n_20 MHz BW Mode: 5745~5825)

802.11n Mode		Rate (Mbps)	Measured Power(dBm)	Limit (dBm)
Frequency[MHz]	Channel No.			
5745	149	6.5 Mbps	17.78	30
		13 Mbps	17.49	30
		19.5 Mbps	17.79	30
		26 Mbps	17.41	30
		39 Mbps	17.95	30
		52 Mbps	17.44	30
		58.5 Mbps	17.32	30
		65 Mbps	17.46	30
5785	157	6.5 Mbps	17.35	30
		13 Mbps	17.51	30
		19.5 Mbps	17.38	30
		26 Mbps	17.37	30
		39 Mbps	17.76	30
		52 Mbps	18.04	30
		58.5 Mbps	17.91	30
		65 Mbps	18.09	30
5825	165	6.5 Mbps	17.86	30
		13 Mbps	17.29	30
		19.5 Mbps	17.54	30
		26 Mbps	17.37	30
		39 Mbps	17.55	30
		52 Mbps	17.21	30
		58.5 Mbps	16.91	30
		65 Mbps	17.01	30

Ant.1

Conducted Output Power Measurements (802.11n_40 MHz BW Mode: 5755~5795)

802.11n Mode		Rate (Mbps)	Measured Power(dBm)	Limit (dBm)
Frequency[MHz]	Channel No.			
5755	151	13.5 Mbps	13.84	30
		27 Mbps	13.38	30
		40.5 Mbps	13.47	30
		54 Mbps	13.46	30
		81 Mbps	13.59	30
		108 Mbps	13.16	30
		121.5 Mbps	13.11	30
		135 Mbps	13.39	30
5795	159	13.5 Mbps	13.95	30
		27 Mbps	13.33	30
		40.5 Mbps	13.49	30
		54 Mbps	13.19	30
		81 Mbps	13.35	30
		108 Mbps	13.07	30
		121.5 Mbps	12.87	30
		135 Mbps	13.21	30

■ Ant.2

Conducted Output Power Measurements (802.11n_40 MHz BW Mode: 5755~5795)

802.11n Mode		Rate (Mbps)	Measured Power(dBm)	Limit (dBm)
Frequency[MHz]	Channel No.			
5755	151	13.5 Mbps	15.31	30
		27 Mbps	14.23	30
		40.5 Mbps	14.72	30
		54 Mbps	14.53	30
		81 Mbps	14.42	30
		108 Mbps	13.65	30
		121.5 Mbps	13.06	30
		135 Mbps	13.22	30
5795	159	13.5 Mbps	14.64	30
		27 Mbps	14.20	30
		40.5 Mbps	14.35	30
		54 Mbps	14.48	30
		81 Mbps	14.50	30
		108 Mbps	14.08	30
		121.5 Mbps	13.85	30
		135 Mbps	14.08	30

■ Sum Data of Ant.1 and Ant.2

Conducted Output Power Measurements (802.11n_40 MHz BW Mode: 5755~5795)

802.11n Mode		Rate (Mbps)	Measured Power(dBm)	Limit (dBm)
Frequency[MHz]	Channel No.			
5755	151	13.5 Mbps	17.65	30
		27 Mbps	16.84	30
		40.5 Mbps	17.15	30
		54 Mbps	17.04	30
		81 Mbps	17.04	30
		108 Mbps	16.42	30
		121.5 Mbps	16.10	30
		135 Mbps	16.32	30
5795	159	13.5 Mbps	17.32	30
		27 Mbps	16.79	30
		40.5 Mbps	16.95	30
		54 Mbps	16.89	30
		81 Mbps	16.97	30
		108 Mbps	16.61	30
		121.5 Mbps	16.40	30
		135 Mbps	16.68	30

Service Port

2.4 GHz Band

■ TEST RESULTS_Ant.1

Conducted Output Power Measurements (802.11b Mode)

802.11b Mode		Rate (Mbps)	Measured Power(dBm)	Limit (dBm)
Frequency[MHz]	Channel No.			
2412	1	1 Mbps	7.40	30
		2 Mbps	7.28	30
		5.5 Mbps	7.21	30
		11 Mbps	7.28	30
2437	6	1 Mbps	13.35	30
		2 Mbps	13.77	30
		5.5 Mbps	13.71	30
		11 Mbps	13.37	30
2462	11	1 Mbps	10.75	30
		2 Mbps	10.73	30
		5.5 Mbps	10.73	30
		11 Mbps	10.76	30

■ TEST RESULTS_Ant.2

Conducted Output Power Measurements (802.11b Mode)

802.11b Mode		Rate (Mbps)	Measured Power(dBm)	Limit (dBm)
Frequency[MHz]	Channel No.			
2412	1	1 Mbps	6.87	30
		2 Mbps	6.88	30
		5.5 Mbps	6.81	30
		11 Mbps	6.95	30
2437	6	1 Mbps	13.41	30
		2 Mbps	13.40	30
		5.5 Mbps	13.32	30
		11 Mbps	13.46	30
2462	11	1 Mbps	10.36	30
		2 Mbps	10.34	30
		5.5 Mbps	10.30	30
		11 Mbps	10.42	30

■ TEST RESULTS_Ant.3

Conducted Output Power Measurements (802.11b Mode)

802.11b Mode		Rate (Mbps)	Measured Power(dBm)	Limit (dBm)
Frequency[MHz]	Channel No.			
2412	1	1 Mbps	6.88	30
		2 Mbps	7.01	30
		5.5 Mbps	6.80	30
		11 Mbps	7.10	30
2437	6	1 Mbps	13.24	30
		2 Mbps	13.21	30
		5.5 Mbps	13.24	30
		11 Mbps	13.30	30
2462	11	1 Mbps	10.62	30
		2 Mbps	10.81	30
		5.5 Mbps	10.59	30
		11 Mbps	10.89	30

■ TEST RESULTS_Sum Data of Ant.1 and Ant.2

Conducted Output Power Measurements (802.11b Mode)

802.11b Mode		Rate (Mbps)	Measured Power(dBm)	Limit (dBm)
Frequency[MHz]	Channel No.			
2412	1	1 Mbps	10.15	28.49
		2 Mbps	10.09	28.49
		5.5 Mbps	10.02	28.49
		11 Mbps	10.13	28.49
2437	6	1 Mbps	16.39	28.49
		2 Mbps	16.60	28.49
		5.5 Mbps	16.53	28.49
		11 Mbps	16.43	28.49
2462	11	1 Mbps	13.57	28.49
		2 Mbps	13.55	28.49
		5.5 Mbps	13.53	28.49
		11 Mbps	13.60	28.49

■ TEST RESULTS_Sum Data of Ant.1, Ant.2 and Ant.3

Conducted Output Power Measurements (802.11b Mode)

802.11b Mode		Rate (Mbps)	Measured Power(dBm)	Limit (dBm)
Frequency[MHz]	Channel No.			
2412	1	1 Mbps	11.83	26.73
		2 Mbps	11.83	26.73
		5.5 Mbps	11.72	26.73
		11 Mbps	11.88	26.73
2437	6	1 Mbps	18.11	26.73
		2 Mbps	18.24	26.73
		5.5 Mbps	18.20	26.73
		11 Mbps	18.15	26.73
2462	11	1 Mbps	15.35	26.73
		2 Mbps	15.40	26.73
		5.5 Mbps	15.31	26.73
		11 Mbps	15.47	26.73

■ TEST RESULTS Ant 1

Conducted Output Power Measurements (802.11g Mode)

802.11g Mode		Rate (Mbps)	Measured Power(dBm)	Limit (dBm)
Frequency[MHz]	Channel No.			
2412	1	6 Mbps	18.60	30
		9 Mbps	18.70	30
		12 Mbps	19.13	30
		18 Mbps	19.71	30
		24 Mbps	19.53	30
		36 Mbps	18.60	30
		48 Mbps	18.55	30
		54 Mbps	18.80	30
2437	6	6 Mbps	18.75	30
		9 Mbps	19.20	30
		12 Mbps	18.94	30
		18 Mbps	19.26	30
		24 Mbps	19.20	30
		36 Mbps	18.71	30
		48 Mbps	18.43	30
		54 Mbps	18.80	30
2462	11	6 Mbps	19.43	30
		9 Mbps	19.12	30
		12 Mbps	19.76	30
		18 Mbps	20.25	30
		24 Mbps	20.20	30
		36 Mbps	19.37	30
		48 Mbps	19.39	30
		54 Mbps	19.48	30

■ TEST RESULTS Ant 2

Conducted Output Power Measurements (802.11g Mode)

802.11g Mode		Rate (Mbps)	Measured Power(dBm)	Limit (dBm)
Frequency[MHz]	Channel No.			
2412	1	6 Mbps	17.68	30
		9 Mbps	17.91	30
		12 Mbps	18.26	30
		18 Mbps	18.41	30
		24 Mbps	18.37	30
		36 Mbps	18.33	30
		48 Mbps	17.91	30
		54 Mbps	18.14	30
2437	6	6 Mbps	18.09	30
		9 Mbps	18.47	30
		12 Mbps	18.19	30
		18 Mbps	19.06	30
		24 Mbps	18.83	30
		36 Mbps	17.96	30
		48 Mbps	17.93	30
		54 Mbps	18.44	30
2462	11	6 Mbps	19.03	30
		9 Mbps	19.40	30
		12 Mbps	19.03	30
		18 Mbps	19.69	30
		24 Mbps	19.24	30
		36 Mbps	19.00	30
		48 Mbps	18.37	30
		54 Mbps	18.89	30

■ TEST RESULTS Ant 3

Conducted Output Power Measurements (802.11g Mode)

802.11g Mode		Rate (Mbps)	Measured Power(dBm)	Limit (dBm)
Frequency[MHz]	Channel No.			
2412	1	6 Mbps	17.97	30
		9 Mbps	18.46	30
		12 Mbps	18.27	30
		18 Mbps	19.23	30
		24 Mbps	18.23	30
		36 Mbps	18.15	30
		48 Mbps	17.98	30
		54 Mbps	18.35	30
2437	6	6 Mbps	18.28	30
		9 Mbps	18.28	30
		12 Mbps	18.79	30
		18 Mbps	19.00	30
		24 Mbps	19.00	30
		36 Mbps	18.41	30
		48 Mbps	17.99	30
		54 Mbps	18.31	30
2462	11	6 Mbps	19.03	30
		9 Mbps	19.54	30
		12 Mbps	19.36	30
		18 Mbps	20.15	30
		24 Mbps	20.01	30
		36 Mbps	19.43	30
		48 Mbps	19.12	30
		54 Mbps	19.68	30

■ TEST RESULTS_Sum Data of Ant.1 and Ant.2

Conducted Output Power Measurements (802.11g Mode)

802.11g Mode		Rate (Mbps)	Measured Power(dBm)	Limit (dBm)
Frequency[MHz]	Channel No.			
2412	1	6 Mbps	21.17	28.49
		9 Mbps	21.33	28.49
		12 Mbps	21.72	28.49
		18 Mbps	22.12	28.49
		24 Mbps	22.00	28.49
		36 Mbps	21.48	28.49
		48 Mbps	21.25	28.49
		54 Mbps	21.49	28.49
2437	6	6 Mbps	21.44	28.49
		9 Mbps	21.86	28.49
		12 Mbps	21.59	28.49
		18 Mbps	22.17	28.49
		24 Mbps	22.03	28.49
		36 Mbps	21.36	28.49
		48 Mbps	21.20	28.49
		54 Mbps	21.63	28.49
2462	11	6 Mbps	22.25	28.49
		9 Mbps	22.27	28.49
		12 Mbps	22.42	28.49
		18 Mbps	22.99	28.49
		24 Mbps	22.76	28.49
		36 Mbps	22.20	28.49
		48 Mbps	21.92	28.49
		54 Mbps	22.20	28.49

▣ TEST RESULTS_Sum Data of Ant.1, Ant.2 and Ant.3

Conducted Output Power Measurements (802.11g Mode)

802.11g Mode		Rate (Mbps)	Measured Power(dBm)	Limit (dBm)
Frequency[MHz]	Channel No.			
2412	1	6 Mbps	22.87	26.73
		9 Mbps	23.14	26.73
		12 Mbps	23.34	26.73
		18 Mbps	23.92	26.73
		24 Mbps	23.52	26.73
		36 Mbps	23.14	26.73
		48 Mbps	22.93	26.73
		54 Mbps	23.21	26.73
2437	6	6 Mbps	23.15	26.73
		9 Mbps	23.44	26.73
		12 Mbps	23.42	26.73
		18 Mbps	23.88	26.73
		24 Mbps	23.79	26.73
		36 Mbps	23.14	26.73
		48 Mbps	22.90	26.73
		54 Mbps	23.29	26.73
2462	11	6 Mbps	23.94	26.73
		9 Mbps	24.13	26.73
		12 Mbps	24.17	26.73
		18 Mbps	24.81	26.73
		24 Mbps	24.61	26.73
		36 Mbps	24.04	26.73
		48 Mbps	23.75	26.73
		54 Mbps	24.13	26.73

■ TEST RESULTS Ant 1

Conducted Output Power Measurements (802.11n Mode)

802.11n Mode		Rate (Mbps)	Measured Power(dBm)	Limit (dBm)
Frequency[MHz]	Channel No.			
2412	1	6.5 Mbps	18.79	30
		13 Mbps	18.71	30
		19.5 Mbps	18.85	30
		26 Mbps	18.54	30
		39 Mbps	19.01	30
		52 Mbps	18.68	30
		58.5 Mbps	18.95	30
		65 Mbps	18.79	30
2437	6	6.5 Mbps	19.35	30
		13 Mbps	19.39	30
		19.5 Mbps	19.29	30
		26 Mbps	19.39	30
		39 Mbps	19.75	30
		52 Mbps	19.55	30
		58.5 Mbps	19.57	30
		65 Mbps	19.46	30
2462	11	6.5 Mbps	18.27	30
		13 Mbps	18.16	30
		19.5 Mbps	18.49	30
		26 Mbps	18.40	30
		39 Mbps	18.55	30
		52 Mbps	18.70	30
		58.5 Mbps	18.71	30
		65 Mbps	18.90	30

■ TEST RESULTS Ant 2

Conducted Output Power Measurements (802.11n Mode)

802.11n Mode		Rate (Mbps)	Measured Power(dBm)	Limit (dBm)
Frequency[MHz]	Channel No.			
2412	1	6.5 Mbps	17.60	30
		13 Mbps	17.66	30
		19.5 Mbps	18.21	30
		26 Mbps	18.00	30
		39 Mbps	18.14	30
		52 Mbps	18.14	30
		58.5 Mbps	18.12	30
		65 Mbps	18.16	30
2437	6	6.5 Mbps	18.73	30
		13 Mbps	19.17	30
		19.5 Mbps	19.03	30
		26 Mbps	19.02	30
		39 Mbps	18.79	30
		52 Mbps	19.03	30
		58.5 Mbps	19.13	30
		65 Mbps	19.13	30
2462	11	6.5 Mbps	18.11	30
		13 Mbps	17.93	30
		19.5 Mbps	18.28	30
		26 Mbps	17.98	30
		39 Mbps	18.42	30
		52 Mbps	18.28	30
		58.5 Mbps	18.33	30
		65 Mbps	18.49	30

■ TEST RESULTS Ant 3

Conducted Output Power Measurements (802.11n Mode)

802.11n Mode		Rate (Mbps)	Measured Power(dBm)	Limit (dBm)
Frequency[MHz]	Channel No.			
2412	1	6.5 Mbps	18.15	30
		13 Mbps	18.07	30
		19.5 Mbps	18.44	30
		26 Mbps	18.31	30
		39 Mbps	18.36	30
		52 Mbps	18.62	30
		58.5 Mbps	18.71	30
		65 Mbps	18.79	30
2437	6	6.5 Mbps	18.79	30
		13 Mbps	18.71	30
		19.5 Mbps	19.24	30
		26 Mbps	18.86	30
		39 Mbps	18.98	30
		52 Mbps	19.28	30
		58.5 Mbps	19.46	30
		65 Mbps	18.56	30
2462	11	6.5 Mbps	18.69	30
		13 Mbps	18.44	30
		19.5 Mbps	19.58	30
		26 Mbps	18.70	30
		39 Mbps	18.66	30
		52 Mbps	19.48	30
		58.5 Mbps	19.12	30
		65 Mbps	19.30	30

■ TEST RESULTS_Sum Data of Ant.1 and Ant.2

Conducted Output Power Measurements (802.11n Mode)

802.11n Mode		Rate (Mbps)	Measured Power(dBm)	Limit (dBm)
Frequency[MHz]	Channel No.			
2412	1	6.5 Mbps	21.24	30
		13 Mbps	21.22	30
		19.5 Mbps	21.55	30
		26 Mbps	21.29	30
		39 Mbps	21.61	30
		52 Mbps	21.43	30
		58.5 Mbps	21.56	30
		65 Mbps	21.50	30
2437	6	6.5 Mbps	22.06	30
		13 Mbps	22.29	30
		19.5 Mbps	22.17	30
		26 Mbps	22.22	30
		39 Mbps	22.30	30
		52 Mbps	22.31	30
		58.5 Mbps	22.37	30
		65 Mbps	22.31	30
2462	11	6.5 Mbps	21.20	30
		13 Mbps	21.06	30
		19.5 Mbps	21.39	30
		26 Mbps	21.21	30
		39 Mbps	21.50	30
		52 Mbps	21.51	30
		58.5 Mbps	21.53	30
		65 Mbps	21.71	30

■ TEST RESULTS_Sum Data of Ant.1, Ant.2 and Ant 3

Conducted Output Power Measurements (802.11n Mode)

802.11n Mode		Rate (Mbps)	Measured Power(dBm)	Limit (dBm)
Frequency[MHz]	Channel No.			
2412	1	6.5 Mbps	22.98	30
		13 Mbps	22.94	30
		19.5 Mbps	23.28	30
		26 Mbps	23.06	30
		39 Mbps	23.29	30
		52 Mbps	23.26	30
		58.5 Mbps	23.38	30
		65 Mbps	23.36	30
2437	6	6.5 Mbps	23.74	30
		13 Mbps	23.87	30
		19.5 Mbps	23.96	30
		26 Mbps	23.87	30
		39 Mbps	23.96	30
		52 Mbps	24.07	30
		58.5 Mbps	24.16	30
		65 Mbps	23.84	30
2462	11	6.5 Mbps	23.14	30
		13 Mbps	22.95	30
		19.5 Mbps	23.59	30
		26 Mbps	23.14	30
		39 Mbps	23.32	30
		52 Mbps	23.62	30
		58.5 Mbps	23.50	30
		65 Mbps	23.68	30

5.8 GHz Band

■ TEST RESULTS_Ant.1

Conducted Output Power Measurements (802.11a Mode: 5745~5825)

802.11a Mode		Rate (Mbps)	Measured Power(dBm)	Limit (dBm)
Frequency[MHz]	Channel No.			
5745	149	6 Mbps	12.71	30
		9 Mbps	12.86	30
		12 Mbps	13.18	30
		18 Mbps	13.65	30
		24 Mbps	13.59	30
		36 Mbps	12.77	30
		48 Mbps	12.87	30
		54 Mbps	13.33	30
5785	157	6 Mbps	14.45	30
		9 Mbps	14.62	30
		12 Mbps	15.04	30
		18 Mbps	15.61	30
		24 Mbps	15.17	30
		36 Mbps	14.70	30
		48 Mbps	14.87	30
		54 Mbps	15.17	30
5825	165	6 Mbps	15.26	30
		9 Mbps	15.27	30
		12 Mbps	15.65	30
		18 Mbps	16.12	30
		24 Mbps	15.96	30
		36 Mbps	15.68	30
		48 Mbps	15.30	30
		54 Mbps	15.75	30

■ TEST RESULTS_Ant.2

Conducted Output Power Measurements (802.11a Mode: 5745~5825)

802.11a Mode		Rate (Mbps)	Measured Power(dBm)	Limit (dBm)
Frequency[MHz]	Channel No.			
5745	149	6 Mbps	13.36	30
		9 Mbps	13.98	30
		12 Mbps	14.51	30
		18 Mbps	14.74	30
		24 Mbps	14.57	30
		36 Mbps	13.75	30
		48 Mbps	13.36	30
		54 Mbps	13.74	30
5785	157	6 Mbps	14.41	30
		9 Mbps	14.91	30
		12 Mbps	15.55	30
		18 Mbps	15.44	30
		24 Mbps	14.99	30
		36 Mbps	14.81	30
		48 Mbps	14.41	30
		54 Mbps	14.90	30
5825	165	6 Mbps	15.37	30
		9 Mbps	15.22	30
		12 Mbps	15.81	30
		18 Mbps	15.89	30
		24 Mbps	15.96	30
		36 Mbps	15.38	30
		48 Mbps	15.33	30
		54 Mbps	15.34	30

■ TEST RESULTS_Ant.3

Conducted Output Power Measurements (802.11a Mode: 5745~5825)

802.11a Mode		Rate (Mbps)	Measured Power(dBm)	Limit (dBm)
Frequency[MHz]	Channel No.			
5745	149	6 Mbps	13.37	30
		9 Mbps	13.80	30
		12 Mbps	14.02	30
		18 Mbps	14.43	30
		24 Mbps	14.08	30
		36 Mbps	13.74	30
		48 Mbps	13.54	30
		54 Mbps	13.93	30
5785	157	6 Mbps	14.68	30
		9 Mbps	15.28	30
		12 Mbps	15.23	30
		18 Mbps	15.69	30
		24 Mbps	15.15	30
		36 Mbps	14.67	30
		48 Mbps	14.36	30
		54 Mbps	14.71	30
5825	165	6 Mbps	15.52	30
		9 Mbps	15.98	30
		12 Mbps	16.03	30
		18 Mbps	16.18	30
		24 Mbps	16.32	30
		36 Mbps	15.54	30
		48 Mbps	15.86	30
		54 Mbps	16.25	30

■ TEST RESULTS_Sum Data of Ant.1 and Ant.2

Conducted Output Power Measurements (802.11a Mode: 5745~5825)

802.11a Mode		Rate (Mbps)	Measured Power(dBm)	Limit (dBm)
Frequency[MHz]	Channel No.			
5745	149	6 Mbps	16.05	26.99
		9 Mbps	16.47	26.99
		12 Mbps	16.91	26.99
		18 Mbps	17.23	26.99
		24 Mbps	17.12	26.99
		36 Mbps	16.30	26.99
		48 Mbps	16.13	26.99
		54 Mbps	16.55	26.99
5785	157	6 Mbps	17.44	26.99
		9 Mbps	17.78	26.99
		12 Mbps	18.31	26.99
		18 Mbps	18.54	26.99
		24 Mbps	18.09	26.99
		36 Mbps	17.77	26.99
		48 Mbps	17.66	26.99
		54 Mbps	18.05	26.99
5825	165	6 Mbps	18.32	26.99
		9 Mbps	18.26	26.99
		12 Mbps	18.74	26.99
		18 Mbps	19.01	26.99
		24 Mbps	18.97	26.99
		36 Mbps	18.54	26.99
		48 Mbps	18.33	26.99
		54 Mbps	18.56	26.99

■ TEST RESULTS_Sum Data of Ant.1, Ant.2 and Ant 3

Conducted Output Power Measurements (802.11a Mode: 5745~5825)

802.11a Mode		Rate (Mbps)	Measured Power(dBm)	Limit (dBm)
Frequency[MHz]	Channel No.			
5745	149	6 Mbps	17.93	25.23
		9 Mbps	18.34	25.23
		12 Mbps	18.71	25.23
		18 Mbps	19.06	25.23
		24 Mbps	18.87	25.23
		36 Mbps	18.21	25.23
		48 Mbps	18.04	25.23
		54 Mbps	18.45	25.23
5785	157	6 Mbps	19.29	25.23
		9 Mbps	19.72	25.23
		12 Mbps	20.05	25.23
		18 Mbps	20.35	25.23
		24 Mbps	19.87	25.23
		36 Mbps	19.50	25.23
		48 Mbps	19.33	25.23
		54 Mbps	19.70	25.23
5825	165	6 Mbps	20.15	25.23
		9 Mbps	20.28	25.23
		12 Mbps	20.60	25.23
		18 Mbps	20.83	25.23
		24 Mbps	20.85	25.23
		36 Mbps	20.31	25.23
		48 Mbps	20.28	25.23
		54 Mbps	20.57	25.23

■ TEST RESULTS_Ant.1

Conducted Output Power Measurements (802.11n_20 MHz BW Mode: 5745~5825)

802.11n Mode		Rate (Mbps)	Measured Power(dBm)	Limit (dBm)
Frequency[MHz]	Channel No.			
5745	149	6.5 Mbps	13.01	30
		13 Mbps	12.96	30
		19.5 Mbps	12.92	30
		26 Mbps	12.94	30
		39 Mbps	13.12	30
		52 Mbps	13.33	30
		58.5 Mbps	13.21	30
		65 Mbps	13.27	30
5785	157	6.5 Mbps	15.32	30
		13 Mbps	15.44	30
		19.5 Mbps	15.05	30
		26 Mbps	15.10	30
		39 Mbps	15.32	30
		52 Mbps	15.27	30
		58.5 Mbps	15.43	30
		65 Mbps	15.53	30
5825	165	6.5 Mbps	15.47	30
		13 Mbps	15.31	30
		19.5 Mbps	16.17	30
		26 Mbps	15.55	30
		39 Mbps	15.60	30
		52 Mbps	15.96	30
		58.5 Mbps	15.65	30
		65 Mbps	16.20	30

■ TEST RESULTS_Ant.2

Conducted Output Power Measurements (802.11n_20 MHz BW Mode: 5745~5825)

802.11n Mode		Rate (Mbps)	Measured Power(dBm)	Limit (dBm)
Frequency[MHz]	Channel No.			
5745	149	6.5 Mbps	13.74	30
		13 Mbps	13.49	30
		19.5 Mbps	14.37	30
		26 Mbps	13.58	30
		39 Mbps	13.57	30
		52 Mbps	14.19	30
		58.5 Mbps	14.29	30
		65 Mbps	14.07	30
5785	157	6.5 Mbps	15.44	30
		13 Mbps	15.42	30
		19.5 Mbps	15.51	30
		26 Mbps	15.32	30
		39 Mbps	15.39	30
		52 Mbps	15.27	30
		58.5 Mbps	15.29	30
		65 Mbps	15.21	30
5825	165	6.5 Mbps	15.45	30
		13 Mbps	15.54	30
		19.5 Mbps	15.73	30
		26 Mbps	15.44	30
		39 Mbps	15.48	30
		52 Mbps	15.87	30
		58.5 Mbps	15.64	30
		65 Mbps	15.74	30

■ TEST RESULTS_Ant.3

Conducted Output Power Measurements (802.11n_20 MHz BW Mode: 5745~5825)

802.11n Mode		Rate (Mbps)	Measured Power(dBm)	Limit (dBm)
Frequency[MHz]	Channel No.			
5745	149	6.5 Mbps	13.34	30
		13 Mbps	13.21	30
		19.5 Mbps	13.69	30
		26 Mbps	13.54	30
		39 Mbps	13.80	30
		52 Mbps	14.02	30
		58.5 Mbps	13.97	30
		65 Mbps	13.95	30
5785	157	6.5 Mbps	15.06	30
		13 Mbps	15.22	30
		19.5 Mbps	16.13	30
		26 Mbps	15.39	30
		39 Mbps	15.01	30
		52 Mbps	15.52	30
		58.5 Mbps	15.95	30
		65 Mbps	15.75	30
5825	165	6.5 Mbps	15.62	30
		13 Mbps	15.72	30
		19.5 Mbps	16.31	30
		26 Mbps	15.80	30
		39 Mbps	15.56	30
		52 Mbps	15.91	30
		58.5 Mbps	16.04	30
		65 Mbps	16.14	30

■ TEST RESULTS_Sum Data of Ant.1 and Ant.2

Conducted Output Power Measurements (802.11n_20 MHz BW Mode: 5745~5825)

802.11n Mode		Rate (Mbps)	Measured Power(dBm)	Limit (dBm)
Frequency[MHz]	Channel No.			
5745	149	6.5 Mbps	16.40	30
		13 Mbps	16.25	30
		19.5 Mbps	16.71	30
		26 Mbps	16.28	30
		39 Mbps	16.37	30
		52 Mbps	16.79	30
		58.5 Mbps	16.80	30
		65 Mbps	16.70	30
5785	157	6.5 Mbps	18.39	30
		13 Mbps	18.44	30
		19.5 Mbps	18.30	30
		26 Mbps	18.22	30
		39 Mbps	18.37	30
		52 Mbps	18.28	30
		58.5 Mbps	18.37	30
		65 Mbps	18.38	30
5825	165	6.5 Mbps	18.47	30
		13 Mbps	18.43	30
		19.5 Mbps	18.97	30
		26 Mbps	18.50	30
		39 Mbps	18.55	30
		52 Mbps	18.93	30
		58.5 Mbps	18.66	30
		65 Mbps	18.99	30

■ TEST RESULTS_Sum Data of Ant.1, Ant.2 and Ant 3

Conducted Output Power Measurements (802.11n_20 MHz BW Mode: 5745~5825)

802.11n Mode		Rate (Mbps)	Measured Power(dBm)	Limit (dBm)
Frequency[MHz]	Channel No.			
5745	149	6.5 Mbps	18.15	30
		13 Mbps	18.00	30
		19.5 Mbps	18.47	30
		26 Mbps	18.13	30
		39 Mbps	18.28	30
		52 Mbps	18.63	30
		58.5 Mbps	18.62	30
		65 Mbps	18.55	30
5785	157	6.5 Mbps	20.05	30
		13 Mbps	20.13	30
		19.5 Mbps	20.36	30
		26 Mbps	20.04	30
		39 Mbps	20.02	30
		52 Mbps	20.13	30
		58.5 Mbps	20.33	30
		65 Mbps	20.27	30
5825	165	6.5 Mbps	20.28	30
		13 Mbps	20.30	30
		19.5 Mbps	20.85	30
		26 Mbps	20.37	30
		39 Mbps	20.32	30
		52 Mbps	20.68	30
		58.5 Mbps	20.55	30
		65 Mbps	20.80	30

■ TEST RESULTS_Ant.1

Conducted Output Power Measurements (802.11n_40 MHz BW Mode: 5755~5795)

802.11n Mode		Rate (Mbps)	Measured Power(dBm)	Limit (dBm)
Frequency[MHz]	Channel No.			
5755	151	13.5 Mbps	13.82	30
		27 Mbps	14.11	30
		40.5 Mbps	14.08	30
		54 Mbps	13.58	30
		81 Mbps	13.75	30
		108 Mbps	13.64	30
		121.5 Mbps	14.15	30
		135 Mbps	13.83	30
5795	159	13.5 Mbps	15.42	30
		27 Mbps	15.86	30
		40.5 Mbps	15.34	30
		54 Mbps	15.43	30
		81 Mbps	15.26	30
		108 Mbps	15.05	30
		121.5 Mbps	15.13	30
		135 Mbps	15.37	30

■ TEST RESULTS_Ant.2

Conducted Output Power Measurements (802.11n_40 MHz BW Mode: 5755~5795)

802.11n Mode		Rate (Mbps)	Measured Power(dBm)	Limit (dBm)
Frequency[MHz]	Channel No.			
5755	151	13.5 Mbps	14.32	30
		27 Mbps	14.67	30
		40.5 Mbps	14.36	30
		54 Mbps	14.12	30
		81 Mbps	14.08	30
		108 Mbps	14.36	30
		121.5 Mbps	14.55	30
		135 Mbps	14.68	30
5795	159	13.5 Mbps	15.10	30
		27 Mbps	15.71	30
		40.5 Mbps	15.81	30
		54 Mbps	15.48	30
		81 Mbps	15.02	30
		108 Mbps	15.20	30
		121.5 Mbps	15.15	30
		135 Mbps	15.86	30

■ TEST RESULTS_Ant.3

Conducted Output Power Measurements (802.11n_40 MHz BW Mode: 5755~5795)

802.11n Mode		Rate (Mbps)	Measured Power(dBm)	Limit (dBm)
Frequency[MHz]	Channel No.			
5755	151	13.5 Mbps	14.50	30
		27 Mbps	14.90	30
		40.5 Mbps	14.90	30
		54 Mbps	14.27	30
		81 Mbps	14.26	30
		108 Mbps	14.37	30
		121.5 Mbps	14.05	30
		135 Mbps	14.27	30
5795	159	13.5 Mbps	15.84	30
		27 Mbps	15.92	30
		40.5 Mbps	16.09	30
		54 Mbps	15.34	30
		81 Mbps	14.96	30
		108 Mbps	15.13	30
		121.5 Mbps	15.75	30
		135 Mbps	15.30	30

■ TEST RESULTS_Sum Data of Ant.1 and Ant.2

Conducted Output Power Measurements (802.11n_40 MHz BW Mode: 5755~5795)

802.11n Mode		Rate (Mbps)	Measured Power(dBm)	Limit (dBm)
Frequency[MHz]	Channel No.			
5755	151	13.5 Mbps	17.09	30
		27 Mbps	17.41	30
		40.5 Mbps	17.23	30
		54 Mbps	16.87	30
		81 Mbps	16.93	30
		108 Mbps	17.02	30
		121.5 Mbps	17.37	30
		135 Mbps	17.28	30
5795	159	13.5 Mbps	18.28	30
		27 Mbps	18.80	30
		40.5 Mbps	18.59	30
		54 Mbps	18.46	30
		81 Mbps	18.15	30
		108 Mbps	18.13	30
		121.5 Mbps	18.15	30
		135 Mbps	18.63	30

■ TEST RESULTS_Sum Data of Ant.1, Ant.2 and Ant 3

Conducted Output Power Measurements (802.11n_40 MHz BW Mode: 5755~5795)

802.11n Mode		Rate (Mbps)	Measured Power(dBm)	Limit (dBm)
Frequency[MHz]	Channel No.			
5755	151	13.5 Mbps	19.00	30
		27 Mbps	19.35	30
		40.5 Mbps	19.23	30
		54 Mbps	18.77	30
		81 Mbps	18.80	30
		108 Mbps	18.91	30
		121.5 Mbps	19.03	30
		135 Mbps	19.04	30
5795	159	13.5 Mbps	20.24	30
		27 Mbps	20.60	30
		40.5 Mbps	20.53	30
		54 Mbps	20.19	30
		81 Mbps	19.85	30
		108 Mbps	19.90	30
		121.5 Mbps	20.13	30
		135 Mbps	20.29	30

Monitoring Port

■ TEST RESULTS-Average

2.4 GHz Band

■ TEST RESULTS_Ant.1

Conducted Output Power Measurements (802.11b Mode)

802.11b Mode		Rate (Mbps)	Measured Power(dBm)	Duty Cycle Factor	Measured Power(dBm) + Duty Cycle Factor	Limit (dBm)
Frequency [MHz]	Channel No.					
2412	1	1 Mbps	7.67	0.028	7.70	30
		2 Mbps	7.59	0.042	7.63	30
		5.5 Mbps	7.52	0.096	7.61	30
		11 Mbps	7.41	0.160	7.57	30
2437	6	1 Mbps	7.57	0.028	7.59	30
		2 Mbps	7.52	0.042	7.56	30
		5.5 Mbps	7.52	0.096	7.62	30
		11 Mbps	7.42	0.160	7.58	30
2462	11	1 Mbps	7.61	0.028	7.64	30
		2 Mbps	7.58	0.042	7.63	30
		5.5 Mbps	7.55	0.096	7.65	30
		11 Mbps	7.40	0.160	7.56	30

■ TEST RESULTS_Ant.2

Conducted Output Power Measurements (802.11b Mode)

802.11b Mode		Rate (Mbps)	Measured Power(dBm)	Duty Cycle Factor	Measured Power(dBm) + Duty Cycle Factor	Limit (dBm)
Frequency [MHz]	Channel No.					
2412	1	1 Mbps	8.05	0.028	8.08	30
		2 Mbps	7.93	0.042	7.97	30
		5.5 Mbps	7.87	0.096	7.96	30
		11 Mbps	7.78	0.160	7.94	30
2437	6	1 Mbps	8.01	0.028	8.04	30
		2 Mbps	8.00	0.042	8.05	30
		5.5 Mbps	7.96	0.096	8.06	30
		11 Mbps	7.88	0.160	8.04	30
2462	11	1 Mbps	7.64	0.028	7.66	30
		2 Mbps	7.68	0.042	7.72	30
		5.5 Mbps	7.64	0.096	7.74	30
		11 Mbps	7.57	0.160	7.73	30

■ TEST RESULTS_Sum Data of Ant.1 and Ant.2

Conducted Output Power Measurements (802.11b Mode)

802.11b Mode		Rate (Mbps)	Measured Power(dBm)	Limit (dBm)
Frequency[MHz]	Channel No.			
2412	1	1 Mbps	10.90	29.49
		2 Mbps	10.81	29.49
		5.5 Mbps	10.80	29.49
		11 Mbps	10.77	29.49
2437	6	1 Mbps	10.83	29.49
		2 Mbps	10.82	29.49
		5.5 Mbps	10.86	29.49
		11 Mbps	10.83	29.49
2462	11	1 Mbps	10.66	29.49
		2 Mbps	10.69	29.49
		5.5 Mbps	10.71	29.49
		11 Mbps	10.66	29.49

■ TEST RESULTS_Ant.1

Conducted Output Power Measurements (802.11g Mode)

802.11g Mode		Rate (Mbps)	Measured Power(dBm)	Duty Cycle Factor	Measured Power(dBm) + Duty Cycle Factor	Limit (dBm)
Frequency [MHz]	Channel No.					
2412	1	6 Mbps	7.33	0.106	7.44	30
		9 Mbps	7.29	0.151	7.44	30
		12 Mbps	7.25	0.200	7.45	30
		18 Mbps	7.18	0.282	7.46	30
		24 Mbps	7.10	0.366	7.46	30
		36 Mbps	5.61	0.531	6.14	30
		48 Mbps	4.01	0.667	4.67	30
		54 Mbps	3.92	0.738	4.66	30
2437	6	6 Mbps	6.98	0.106	7.09	30
		9 Mbps	6.94	0.151	7.10	30
		12 Mbps	6.90	0.200	7.10	30
		18 Mbps	6.82	0.282	7.11	30
		24 Mbps	6.74	0.366	7.11	30
		36 Mbps	5.15	0.531	5.68	30
		48 Mbps	3.78	0.667	4.45	30
		54 Mbps	3.70	0.738	4.43	30
2462	11	6 Mbps	7.17	0.106	7.27	30
		9 Mbps	7.12	0.151	7.27	30
		12 Mbps	7.07	0.200	7.27	30
		18 Mbps	6.93	0.282	7.21	30
		24 Mbps	6.62	0.366	6.99	30
		36 Mbps	5.03	0.531	5.56	30
		48 Mbps	3.90	0.667	4.57	30
		54 Mbps	3.85	0.738	4.59	30

■ TEST RESULTS_Ant.2

Conducted Output Power Measurements (802.11g Mode)

802.11g Mode		Rate (Mbps)	Measured Power(dBm)	Duty Cycle Factor	Measured Power(dBm) + Duty Cycle Factor	Limit (dBm)
Frequency [MHz]	Channel No.					
2412	1	6 Mbps	7.07	0.106	7.18	30
		9 Mbps	7.02	0.151	7.17	30
		12 Mbps	6.97	0.200	7.17	30
		18 Mbps	6.90	0.282	7.18	30
		24 Mbps	6.82	0.366	7.19	30
		36 Mbps	5.32	0.531	5.85	30
		48 Mbps	4.15	0.667	4.82	30
		54 Mbps	4.08	0.738	4.82	30
2437	6	6 Mbps	7.15	0.106	7.25	30
		9 Mbps	7.09	0.151	7.24	30
		12 Mbps	7.04	0.200	7.24	30
		18 Mbps	6.96	0.282	7.24	30
		24 Mbps	6.88	0.366	7.24	30
		36 Mbps	5.21	0.531	5.74	30
		48 Mbps	4.26	0.667	4.93	30
		54 Mbps	4.12	0.738	4.85	30
2462	11	6 Mbps	6.93	0.106	7.03	30
		9 Mbps	6.87	0.151	7.02	30
		12 Mbps	6.81	0.200	7.01	30
		18 Mbps	6.73	0.282	7.01	30
		24 Mbps	6.63	0.366	7.00	30
		36 Mbps	5.16	0.531	5.69	30
		48 Mbps	3.99	0.667	4.66	30
		54 Mbps	3.91	0.738	4.65	30

■ TEST RESULTS_Sum Data of Ant.1 and Ant.2

Conducted Output Power Measurements (802.11g Mode)

802.11g Mode		Rate (Mbps)	Measured Power(dBm)	Limit (dBm)
Frequency[MHz]	Channel No.			
2412	1	6 Mbps	10.32	29.49
		9 Mbps	10.32	29.49
		12 Mbps	10.33	29.49
		18 Mbps	10.34	29.49
		24 Mbps	10.34	29.49
		36 Mbps	9.01	29.49
		48 Mbps	7.76	29.49
		54 Mbps	7.75	29.49
2437	6	6 Mbps	10.18	29.49
		9 Mbps	10.18	29.49
		12 Mbps	10.18	29.49
		18 Mbps	10.19	29.49
		24 Mbps	10.19	29.49
		36 Mbps	8.72	29.49
		48 Mbps	7.70	29.49
		54 Mbps	7.66	29.49
2462	11	6 Mbps	10.16	29.49
		9 Mbps	10.16	29.49
		12 Mbps	10.15	29.49
		18 Mbps	10.12	29.49
		24 Mbps	10.00	29.49
		36 Mbps	8.64	29.49
		48 Mbps	7.62	29.49
		54 Mbps	7.63	29.49

■ TEST RESULTS_Ant.1

Conducted Output Power Measurements (802.11n Mode)

802.11n Mode		Rate (Mbps)	Measured Power(dBm)	Duty Cycle Factor	Measured Power(dBm) + Duty Cycle Factor	Limit (dBm)
Frequency [MHz]	Channel No.					
2412	1	6.5 Mbps	7.05	0.102	7.15	30
		13 Mbps	5.59	0.203	5.79	30
		19.5 Mbps	5.48	0.295	5.77	30
		26 Mbps	5.39	0.384	5.78	30
		39 Mbps	5.24	0.530	5.77	30
		52 Mbps	5.08	0.676	5.75	30
		58.5 Mbps	3.99	0.753	4.74	30
		65 Mbps	3.93	0.779	4.71	30
2437	6	6.5 Mbps	6.96	0.102	7.06	30
		13 Mbps	5.55	0.203	5.75	30
		19.5 Mbps	5.43	0.295	5.72	30
		26 Mbps	5.24	0.384	5.62	30
		39 Mbps	4.89	0.530	5.42	30
		52 Mbps	4.65	0.676	5.33	30
		58.5 Mbps	3.56	0.753	4.31	30
		65 Mbps	3.51	0.779	4.29	30
2462	11	6.5 Mbps	6.22	0.102	6.33	30
		13 Mbps	6.06	0.203	6.26	30
		19.5 Mbps	5.81	0.295	6.10	30
		26 Mbps	5.65	0.384	6.03	30
		39 Mbps	5.44	0.530	5.97	30
		52 Mbps	5.37	0.676	6.04	30
		58.5 Mbps	5.32	0.753	6.08	30
		65 Mbps	5.27	0.779	6.04	30

■ TEST RESULTS_Ant.2

Conducted Output Power Measurements (802.11n Mode)

802.11n Mode		Rate (Mbps)	Measured Power(dBm)	Duty Cycle Factor	Measured Power(dBm) + Duty Cycle Factor	Limit (dBm)
Frequency [MHz]	Channel No.					
2412	1	6.5 Mbps	7.05	0.102	7.15	30
		13 Mbps	5.96	0.203	6.16	30
		19.5 Mbps	5.87	0.295	6.16	30
		26 Mbps	5.80	0.384	6.18	30
		39 Mbps	5.65	0.530	6.18	30
		52 Mbps	5.00	0.676	5.67	30
		58.5 Mbps	3.56	0.753	4.32	30
		65 Mbps	3.74	0.779	4.52	30
2437	6	6.5 Mbps	7.05	0.102	7.15	30
		13 Mbps	5.98	0.203	6.18	30
		19.5 Mbps	5.91	0.295	6.20	30
		26 Mbps	5.85	0.384	6.23	30
		39 Mbps	5.71	0.530	6.24	30
		52 Mbps	5.12	0.676	5.80	30
		58.5 Mbps	3.89	0.753	4.64	30
		65 Mbps	3.81	0.779	4.59	30
2462	11	6.5 Mbps	6.36	0.102	6.46	30
		13 Mbps	6.25	0.203	6.46	30
		19.5 Mbps	6.18	0.295	6.47	30
		26 Mbps	6.11	0.384	6.49	30
		39 Mbps	5.93	0.530	6.46	30
		52 Mbps	5.67	0.676	6.34	30
		58.5 Mbps	5.48	0.753	6.23	30
		65 Mbps	5.39	0.779	6.17	30

■ TEST RESULTS_Sum Data of Ant.1 and Ant.2

Conducted Output Power Measurements (802.11n Mode)

802.11n Mode		Rate (Mbps)	Measured Power(dBm)	Limit (dBm)
Frequency[MHz]	Channel No.			
2412	1	6.5 Mbps	10.16	30
		13 Mbps	8.99	30
		19.5 Mbps	8.98	30
		26 Mbps	8.99	30
		39 Mbps	8.99	30
		52 Mbps	8.72	30
		58.5 Mbps	7.54	30
		65 Mbps	7.63	30
2437	6	6.5 Mbps	10.12	30
		13 Mbps	8.98	30
		19.5 Mbps	8.98	30
		26 Mbps	8.95	30
		39 Mbps	8.86	30
		52 Mbps	8.58	30
		58.5 Mbps	7.49	30
		65 Mbps	7.45	30
2462	11	6.5 Mbps	9.40	30
		13 Mbps	9.37	30
		19.5 Mbps	9.30	30
		26 Mbps	9.28	30
		39 Mbps	9.23	30
		52 Mbps	9.21	30
		58.5 Mbps	9.16	30
		65 Mbps	9.12	30

5.8 GHz Band

■ TEST RESULTS_Ant.1

Conducted Output Power Measurements (802.11a Mode: 5745~5825)

802.11a Mode		Rate (Mbps)	Measured Power(dBm)	Duty Cycle Factor	Measured Power(dBm) + Duty Cycle Factor	Limit (dBm)
Frequency [MHz]	Channel No.					
5745	149	6 Mbps	5.32	0.106	5.43	30
		9 Mbps	5.20	0.151	5.35	30
		12 Mbps	5.15	0.200	5.35	30
		18 Mbps	5.10	0.282	5.38	30
		24 Mbps	5.05	0.366	5.42	30
		36 Mbps	3.99	0.531	4.52	30
		48 Mbps	3.23	0.667	3.90	30
		54 Mbps	3.20	0.738	3.94	30
5785	157	6 Mbps	4.29	0.106	4.39	30
		9 Mbps	4.24	0.151	4.39	30
		12 Mbps	4.21	0.200	4.41	30
		18 Mbps	4.16	0.282	4.44	30
		24 Mbps	4.12	0.366	4.48	30
		36 Mbps	4.09	0.531	4.62	30
		48 Mbps	4.04	0.667	4.71	30
		54 Mbps	4.02	0.738	4.75	30
5825	165	6 Mbps	5.11	0.106	5.22	30
		9 Mbps	5.04	0.151	5.20	30
		12 Mbps	5.01	0.200	5.21	30
		18 Mbps	4.95	0.282	5.23	30
		24 Mbps	4.90	0.366	5.27	30
		36 Mbps	3.99	0.531	4.52	30
		48 Mbps	3.01	0.667	3.68	30
		54 Mbps	2.99	0.738	3.73	30

■ TEST RESULTS_Ant.2

Conducted Output Power Measurements (802.11a Mode: 5745~5825)

802.11a Mode		Rate (Mbps)	Measured Power(dBm)	Duty Cycle Factor	Measured Power(dBm) + Duty Cycle Factor	Limit (dBm)
Frequency [MHz]	Channel No.					
5745	149	6 Mbps	6.09	0.106	6.19	30
		9 Mbps	6.06	0.151	6.21	30
		12 Mbps	6.03	0.200	6.23	30
		18 Mbps	5.98	0.282	6.26	30
		24 Mbps	5.93	0.366	6.30	30
		36 Mbps	4.94	0.531	5.47	30
		48 Mbps	3.96	0.667	4.62	30
		54 Mbps	3.94	0.738	4.67	30
5785	157	6 Mbps	5.45	0.106	5.56	30
		9 Mbps	5.36	0.151	5.51	30
		12 Mbps	5.31	0.200	5.51	30
		18 Mbps	5.22	0.282	5.50	30
		24 Mbps	5.18	0.366	5.54	30
		36 Mbps	5.08	0.531	5.61	30
		48 Mbps	4.81	0.667	5.48	30
		54 Mbps	4.21	0.738	4.94	30
5825	165	6 Mbps	5.93	0.106	6.03	30
		9 Mbps	5.88	0.151	6.03	30
		12 Mbps	5.85	0.200	6.05	30
		18 Mbps	5.80	0.282	6.08	30
		24 Mbps	5.76	0.366	6.12	30
		36 Mbps	4.74	0.531	5.27	30
		48 Mbps	4.21	0.667	4.88	30
		54 Mbps	3.94	0.738	4.68	30

■ TEST RESULTS_Sum Data of Ant.1 and Ant.2

Conducted Output Power Measurements (802.11a Mode: 5745~5825)

802.11a Mode		Rate (Mbps)	Measured Power(dBm)	Limit (dBm)
Frequency[MHz]	Channel No.			
5745	149	6 Mbps	8.84	27.49
		9 Mbps	8.81	27.49
		12 Mbps	8.82	27.49
		18 Mbps	8.85	27.49
		24 Mbps	8.89	27.49
		36 Mbps	8.03	27.49
		48 Mbps	7.29	27.49
		54 Mbps	7.33	27.49
5785	157	6 Mbps	8.03	27.49
		9 Mbps	8.00	27.49
		12 Mbps	8.00	27.49
		18 Mbps	8.01	27.49
		24 Mbps	8.06	27.49
		36 Mbps	8.15	27.49
		48 Mbps	8.12	27.49
		54 Mbps	7.86	27.49
5825	165	6 Mbps	8.66	27.49
		9 Mbps	8.64	27.49
		12 Mbps	8.66	27.49
		18 Mbps	8.69	27.49
		24 Mbps	8.73	27.49
		36 Mbps	7.92	27.49
		48 Mbps	7.33	27.49
		54 Mbps	7.24	27.49

■ TEST RESULTS_Ant.1

Conducted Output Power Measurements (802.11n_20 MHz BW Mode: 5745~5825)

802.11n Mode		Rate (Mbps)	Measured Power(dBm)	Duty Cycle Factor	Measured Power(dBm) + Duty Cycle Factor	Limit (dBm)
Frequency [MHz]	Channel No.					
5745	149	6.5 Mbps	5.06	0.102	5.16	30
		13 Mbps	4.11	0.203	4.31	30
		19.5 Mbps	4.06	0.295	4.35	30
		26 Mbps	4.03	0.384	4.41	30
		39 Mbps	3.96	0.530	4.49	30
		52 Mbps	3.08	0.676	3.75	30
		58.5 Mbps	3.06	0.753	3.81	30
		65 Mbps	3.05	0.779	3.83	30
5785	157	6.5 Mbps	4.18	0.102	4.28	30
		13 Mbps	4.11	0.203	4.31	30
		19.5 Mbps	4.05	0.295	4.35	30
		26 Mbps	4.03	0.384	4.42	30
		39 Mbps	3.96	0.530	4.49	30
		52 Mbps	3.90	0.676	4.58	30
		58.5 Mbps	3.87	0.753	4.63	30
		65 Mbps	3.86	0.779	4.64	30
5825	165	6.5 Mbps	5.02	0.102	5.13	30
		13 Mbps	4.14	0.203	4.34	30
		19.5 Mbps	4.10	0.295	4.39	30
		26 Mbps	4.06	0.384	4.44	30
		39 Mbps	3.99	0.530	4.52	30
		52 Mbps	2.86	0.676	3.54	30
		58.5 Mbps	2.84	0.753	3.60	30
		65 Mbps	2.82	0.779	3.60	30

■ TEST RESULTS_Ant.2

Conducted Output Power Measurements (802.11n_20 MHz BW Mode: 5745~5825)

802.11n Mode		Rate (Mbps)	Measured Power(dBm)	Duty Cycle Factor	Measured Power(dBm) + Duty Cycle Factor	Limit (dBm)
Frequency [MHz]	Channel No.					
5745	149	6.5 Mbps	6.03	0.102	6.13	30
		13 Mbps	4.95	0.203	5.15	30
		19.5 Mbps	4.91	0.295	5.21	30
		26 Mbps	4.88	0.384	5.26	30
		39 Mbps	4.81	0.530	5.34	30
		52 Mbps	3.81	0.676	4.49	30
		58.5 Mbps	3.79	0.753	4.54	30
		65 Mbps	3.77	0.779	4.55	30
5785	157	6.5 Mbps	5.37	0.102	5.48	30
		13 Mbps	5.21	0.203	5.41	30
		19.5 Mbps	5.16	0.295	5.45	30
		26 Mbps	5.12	0.384	5.50	30
		39 Mbps	5.04	0.530	5.57	30
		52 Mbps	4.87	0.676	5.55	30
		58.5 Mbps	4.61	0.753	5.36	30
		65 Mbps	4.46	0.779	5.24	30
5825	165	6.5 Mbps	5.98	0.102	6.08	30
		13 Mbps	4.91	0.203	5.11	30
		19.5 Mbps	4.85	0.295	5.14	30
		26 Mbps	4.81	0.384	5.19	30
		39 Mbps	4.73	0.530	5.26	30
		52 Mbps	4.23	0.676	4.91	30
		58.5 Mbps	3.78	0.753	4.53	30
		65 Mbps	3.84	0.779	4.62	30

■ TEST RESULTS_Sum Data of Ant.1 and Ant.2

Conducted Output Power Measurements (802.11n_20 MHz BW Mode: 5745~5825)

802.11n Mode		Rate (Mbps)	Measured Power(dBm)	Limit (dBm)
Frequency[MHz]	Channel No.			
5745	149	6.5 Mbps	8.68	30
		13 Mbps	7.77	30
		19.5 Mbps	7.81	30
		26 Mbps	7.87	30
		39 Mbps	7.94	30
		52 Mbps	7.15	30
		58.5 Mbps	7.20	30
		65 Mbps	7.22	30
5785	157	6.5 Mbps	7.93	30
		13 Mbps	7.91	30
		19.5 Mbps	7.94	30
		26 Mbps	8.00	30
		39 Mbps	8.07	30
		52 Mbps	8.10	30
		58.5 Mbps	8.02	30
		65 Mbps	7.96	30
5825	165	6.5 Mbps	8.64	30
		13 Mbps	7.75	30
		19.5 Mbps	7.79	30
		26 Mbps	7.84	30
		39 Mbps	7.92	30
		52 Mbps	7.29	30
		58.5 Mbps	7.10	30
		65 Mbps	7.15	30

■ TEST RESULTS_Ant.1

Conducted Output Power Measurements (802.11n_40 MHz BW Mode: 5755~5795)

802.11n Mode		Rate (Mbps)	Measured Power(dBm)	Duty Cycle Factor	Measured Power(dBm) + Duty Cycle Factor	Limit (dBm)
Frequency [MHz]	Channel No.					
5755	151	13.5 Mbps	3.94	0.157	4.09	30
		27 Mbps	3.19	0.296	3.49	30
		40.5 Mbps	3.12	0.408	3.52	30
		54 Mbps	3.06	0.504	3.56	30
		81 Mbps	2.97	0.706	3.68	30
		108 Mbps	1.98	0.880	2.86	30
		121.5 Mbps	1.96	0.918	2.88	30
		135 Mbps	1.94	0.969	2.91	30
5795	159	13.5 Mbps	3.91	0.157	4.07	30
		27 Mbps	2.92	0.296	3.21	30
		40.5 Mbps	2.86	0.408	3.26	30
		54 Mbps	2.81	0.504	3.32	30
		81 Mbps	2.71	0.706	3.42	30
		108 Mbps	1.94	0.880	2.82	30
		121.5 Mbps	1.91	0.918	2.83	30
		135 Mbps	1.89	0.969	2.86	30

■ TEST RESULTS_Ant.2

Conducted Output Power Measurements (802.11n_40 MHz BW Mode: 5755~5795)

802.11n Mode		Rate (Mbps)	Measured Power(dBm)	Duty Cycle Factor	Measured Power(dBm) + Duty Cycle Factor	Limit (dBm)
Frequency [MHz]	Channel No.					
5755	151	13.5 Mbps	5.12	0.157	5.27	30
		27 Mbps	4.01	0.296	4.31	30
		40.5 Mbps	3.89	0.408	4.30	30
		54 Mbps	3.80	0.504	4.30	30
		81 Mbps	3.69	0.706	4.40	30
		108 Mbps	2.24	0.880	3.12	30
		121.5 Mbps	2.01	0.918	2.93	30
		135 Mbps	1.87	0.969	2.84	30
5795	159	13.5 Mbps	5.27	0.157	5.43	30
		27 Mbps	4.21	0.296	4.50	30
		40.5 Mbps	4.09	0.408	4.50	30
		54 Mbps	4.00	0.504	4.51	30
		81 Mbps	3.90	0.706	4.61	30
		108 Mbps	2.63	0.880	3.51	30
		121.5 Mbps	1.52	0.918	2.44	30
		135 Mbps	-0.48	0.969	0.49	30

■ TEST RESULTS_Sum Data of Ant.1 and Ant.2

Conducted Output Power Measurements (802.11n_40 MHz BW Mode: 5755~5795)

802.11n Mode		Rate (Mbps)	Measured Power(dBm)	Limit (dBm)
Frequency[MHz]	Channel No.			
5755	151	13.5 Mbps	7.73	30
		27 Mbps	6.93	30
		40.5 Mbps	6.94	30
		54 Mbps	6.96	30
		81 Mbps	7.06	30
		108 Mbps	6.00	30
		121.5 Mbps	5.91	30
		135 Mbps	5.88	30
5795	159	13.5 Mbps	7.81	30
		27 Mbps	6.92	30
		40.5 Mbps	6.94	30
		54 Mbps	6.96	30
		81 Mbps	7.07	30
		108 Mbps	6.19	30
		121.5 Mbps	5.65	30
		135 Mbps	4.84	30

Service Port

2.4 GHz Band

TEST RESULTS_Ant.1

Conducted Output Power Measurements (802.11b Mode)

802.11b Mode		Rate (Mbps)	Measured Power(dBm)	Duty Cycle Factor	Measured Power(dBm) + Duty Cycle Factor	Limit (dBm)
Frequency [MHz]	Channel No.					
2412	1	1 Mbps	4.52	0.032	4.55	30
		2 Mbps	4.47	0.062	4.53	30
		5.5 Mbps	4.33	0.117	4.45	30
		11 Mbps	4.23	0.212	4.45	30
2437	6	1 Mbps	10.63	0.032	10.66	30
		2 Mbps	10.54	0.062	10.60	30
		5.5 Mbps	10.43	0.117	10.54	30
		11 Mbps	10.34	0.212	10.55	30
2462	11	1 Mbps	7.73	0.032	7.76	30
		2 Mbps	7.67	0.062	7.73	30
		5.5 Mbps	7.56	0.117	7.68	30
		11 Mbps	7.47	0.212	7.68	30

TEST RESULTS_Ant.2

Conducted Output Power Measurements (802.11b Mode)

802.11b Mode		Rate (Mbps)	Measured Power(dBm)	Duty Cycle Factor	Measured Power(dBm) + Duty Cycle Factor	Limit (dBm)
Frequency [MHz]	Channel No.					
2412	1	1 Mbps	4.13	0.032	4.16	30
		2 Mbps	4.10	0.062	4.16	30
		5.5 Mbps	3.99	0.117	4.11	30
		11 Mbps	3.92	0.212	4.13	30
2437	6	1 Mbps	10.55	0.032	10.58	30
		2 Mbps	10.51	0.062	10.58	30
		5.5 Mbps	10.36	0.117	10.48	30
		11 Mbps	10.28	0.212	10.49	30
2462	11	1 Mbps	7.62	0.032	7.66	30
		2 Mbps	7.59	0.062	7.66	30
		5.5 Mbps	7.50	0.117	7.62	30
		11 Mbps	7.42	0.212	7.63	30

■ TEST RESULTS_Ant.3

Conducted Output Power Measurements (802.11b Mode)

802.11b Mode		Rate (Mbps)	Measured Power(dBm)	Duty Cycle Factor	Measured Power(dBm) + Duty Cycle Factor	Limit (dBm)
Frequency [MHz]	Channel No.					
2412	1	1 Mbps	3.92	0.032	3.95	30
		2 Mbps	4.03	0.062	4.09	30
		5.5 Mbps	3.93	0.117	4.05	30
		11 Mbps	3.83	0.212	4.05	30
2437	6	1 Mbps	10.11	0.032	10.14	30
		2 Mbps	10.19	0.062	10.25	30
		5.5 Mbps	10.04	0.117	10.16	30
		11 Mbps	9.94	0.212	10.15	30
2462	11	1 Mbps	7.85	0.032	7.88	30
		2 Mbps	7.91	0.062	7.97	30
		5.5 Mbps	7.87	0.117	7.99	30
		11 Mbps	7.78	0.212	8.00	30

■ TEST RESULTS_Sum Data of Ant.1 and Ant.2

Conducted Output Power Measurements (802.11b Mode)

802.11b Mode		Rate (Mbps)	Measured Power(dBm)	Limit (dBm)
Frequency[MHz]	Channel No.			
2412	1	1 Mbps	7.37	28.49
		2 Mbps	7.36	28.49
		5.5 Mbps	7.29	28.49
		11 Mbps	7.30	28.49
2437	6	1 Mbps	13.63	28.49
		2 Mbps	13.60	28.49
		5.5 Mbps	13.52	28.49
		11 Mbps	13.53	28.49
2462	11	1 Mbps	10.72	28.49
		2 Mbps	10.71	28.49
		5.5 Mbps	10.66	28.49
		11 Mbps	10.67	28.49

■ TEST RESULTS_Sum Data of Ant.1, Ant.2 and Ant.3

Conducted Output Power Measurements (802.11b Mode)

802.11b Mode		Rate (Mbps)	Measured Power(dBm)	Limit (dBm)
Frequency[MHz]	Channel No.			
2412	1	1 Mbps	9.00	26.73
		2 Mbps	9.04	26.73
		5.5 Mbps	8.98	26.73
		11 Mbps	8.98	26.73
2437	6	1 Mbps	15.24	26.73
		2 Mbps	15.25	26.73
		5.5 Mbps	15.17	26.73
		11 Mbps	15.17	26.73
2462	11	1 Mbps	12.54	26.73
		2 Mbps	12.56	26.73
		5.5 Mbps	12.54	26.73
		11 Mbps	12.54	26.73

■ TEST RESULTS_Ant.1

Conducted Output Power Measurements (802.11g Mode)

802.11g Mode		Rate (Mbps)	Measured Power(dBm)	Duty Cycle Factor	Measured Power(dBm) + Duty Cycle Factor	Limit (dBm)
Frequency [MHz]	Channel No.					
2412	1	6 Mbps	7.27	0.222	7.49	30
		9 Mbps	7.20	0.223	7.42	30
		12 Mbps	7.13	0.274	7.40	30
		18 Mbps	6.94	0.409	7.35	30
		24 Mbps	6.80	0.531	7.33	30
		36 Mbps	6.50	0.738	7.24	30
		48 Mbps	6.24	0.936	7.17	30
		54 Mbps	6.12	1.015	7.14	30
2437	6	6 Mbps	7.27	0.222	7.50	30
		9 Mbps	7.18	0.223	7.41	30
		12 Mbps	7.08	0.274	7.35	30
		18 Mbps	6.89	0.409	7.30	30
		24 Mbps	6.73	0.531	7.26	30
		36 Mbps	6.44	0.738	7.18	30
		48 Mbps	6.20	0.936	7.14	30
		54 Mbps	6.13	1.015	7.15	30
2462	11	6 Mbps	8.09	0.222	8.31	30
		9 Mbps	8.02	0.223	8.24	30
		12 Mbps	7.95	0.274	8.22	30
		18 Mbps	7.82	0.409	8.22	30
		24 Mbps	7.68	0.531	8.21	30
		36 Mbps	7.38	0.738	8.12	30
		48 Mbps	7.12	0.936	8.05	30
		54 Mbps	6.98	1.015	8.00	30

■ TEST RESULTS_Ant.2

Conducted Output Power Measurements (802.11g Mode)

802.11g Mode		Rate (Mbps)	Measured Power(dBm)	Duty Cycle Factor	Measured Power(dBm) + Duty Cycle Factor	Limit (dBm)
Frequency [MHz]	Channel No.					
2412	1	6 Mbps	6.47	0.222	6.69	30
		9 Mbps	6.39	0.223	6.62	30
		12 Mbps	6.33	0.274	6.60	30
		18 Mbps	6.20	0.409	6.61	30
		24 Mbps	6.07	0.531	6.60	30
		36 Mbps	5.86	0.738	6.59	30
		48 Mbps	5.66	0.936	6.60	30
		54 Mbps	5.59	1.015	6.60	30
2437	6	6 Mbps	6.94	0.222	7.16	30
		9 Mbps	6.83	0.223	7.05	30
		12 Mbps	6.73	0.274	7.01	30
		18 Mbps	6.59	0.409	7.00	30
		24 Mbps	6.45	0.531	6.98	30
		36 Mbps	6.21	0.738	6.95	30
		48 Mbps	6.00	0.936	6.93	30
		54 Mbps	5.91	1.015	6.92	30
2462	11	6 Mbps	7.63	0.222	7.86	30
		9 Mbps	7.50	0.223	7.73	30
		12 Mbps	7.44	0.274	7.72	30
		18 Mbps	7.25	0.409	7.65	30
		24 Mbps	7.11	0.531	7.64	30
		36 Mbps	6.81	0.738	7.55	30
		48 Mbps	6.56	0.936	7.50	30
		54 Mbps	6.48	1.015	7.49	30

■ TEST RESULTS_Ant.3

Conducted Output Power Measurements (802.11g Mode)

802.11g Mode		Rate (Mbps)	Measured Power(dBm)	Duty Cycle Factor	Measured Power(dBm) + Duty Cycle Factor	Limit (dBm)
Frequency [MHz]	Channel No.					
2412	1	6 Mbps	6.60	0.222	6.82	30
		9 Mbps	6.53	0.223	6.75	30
		12 Mbps	6.45	0.274	6.72	30
		18 Mbps	6.32	0.409	6.73	30
		24 Mbps	6.16	0.531	6.69	30
		36 Mbps	5.85	0.738	6.58	30
		48 Mbps	5.57	0.936	6.50	30
		54 Mbps	5.54	1.015	6.56	30
2437	6	6 Mbps	6.71	0.222	6.93	30
		9 Mbps	6.64	0.223	6.87	30
		12 Mbps	6.57	0.274	6.85	30
		18 Mbps	6.45	0.409	6.86	30
		24 Mbps	6.26	0.531	6.79	30
		36 Mbps	6.03	0.738	6.76	30
		48 Mbps	5.80	0.936	6.74	30
		54 Mbps	5.72	1.015	6.73	30
2462	11	6 Mbps	7.82	0.222	8.04	30
		9 Mbps	7.73	0.223	7.95	30
		12 Mbps	7.66	0.274	7.93	30
		18 Mbps	7.52	0.409	7.93	30
		24 Mbps	7.39	0.531	7.92	30
		36 Mbps	7.15	0.738	7.88	30
		48 Mbps	6.88	0.936	7.82	30
		54 Mbps	6.75	1.015	7.76	30

■ TEST RESULTS_Sum Data of Ant.1 and Ant.2

Conducted Output Power Measurements (802.11g Mode)

802.11g Mode		Rate (Mbps)	Measured Power(dBm)	Limit (dBm)
Frequency[MHz]	Channel No.			
2412	1	6 Mbps	10.12	28.49
		9 Mbps	10.05	28.49
		12 Mbps	10.03	28.49
		18 Mbps	10.01	28.49
		24 Mbps	9.99	28.49
		36 Mbps	9.94	28.49
		48 Mbps	9.90	28.49
		54 Mbps	9.89	28.49
2437	6	6 Mbps	10.34	28.49
		9 Mbps	10.24	28.49
		12 Mbps	10.19	28.49
		18 Mbps	10.16	28.49
		24 Mbps	10.13	28.49
		36 Mbps	10.08	28.49
		48 Mbps	10.05	28.49
		54 Mbps	10.04	28.49
2462	11	6 Mbps	11.10	28.49
		9 Mbps	11.00	28.49
		12 Mbps	10.99	28.49
		18 Mbps	10.96	28.49
		24 Mbps	10.95	28.49
		36 Mbps	10.85	28.49
		48 Mbps	10.79	28.49
		54 Mbps	10.76	28.49

■ TEST RESULTS_Sum Data of Ant.1, Ant.2 and Ant 3

Conducted Output Power Measurements (802.11g Mode)

802.11g Mode		Rate (Mbps)	Measured Power(dBm)	Limit (dBm)
Frequency[MHz]	Channel No.			
2412	1	6 Mbps	11.79	26.73
		9 Mbps	11.72	26.73
		12 Mbps	11.69	26.73
		18 Mbps	11.68	26.73
		24 Mbps	11.66	26.73
		36 Mbps	11.59	26.73
		48 Mbps	11.54	26.73
		54 Mbps	11.54	26.73
2437	6	6 Mbps	11.97	26.73
		9 Mbps	11.89	26.73
		12 Mbps	11.84	26.73
		18 Mbps	11.83	26.73
		24 Mbps	11.78	26.73
		36 Mbps	11.74	26.73
		48 Mbps	11.71	26.73
		54 Mbps	11.71	26.73
2462	11	6 Mbps	12.85	26.73
		9 Mbps	12.75	26.73
		12 Mbps	12.73	26.73
		18 Mbps	12.71	26.73
		24 Mbps	12.70	26.73
		36 Mbps	12.63	26.73
		48 Mbps	12.56	26.73
		54 Mbps	12.53	26.73

■ TEST RESULTS_Ant.1

Conducted Output Power Measurements (802.11n Mode)

802.11n Mode		Rate (Mbps)	Measured Power(dBm)	Duty Cycle Factor	Measured Power(dBm) + Duty Cycle Factor	Limit (dBm)
Frequency [MHz]	Channel No.					
2412	1	6.5 Mbps	7.09	0.161	7.25	30
		13 Mbps	6.98	0.295	7.28	30
		19.5 Mbps	6.87	0.426	7.30	30
		26 Mbps	6.75	0.528	7.27	30
		39 Mbps	6.45	0.735	7.19	30
		52 Mbps	6.20	0.896	7.10	30
		58.5 Mbps	6.08	0.969	7.05	30
		65 Mbps	5.96	1.082	7.05	30
2437	6	6.5 Mbps	7.75	0.161	7.91	30
		13 Mbps	7.57	0.295	7.87	30
		19.5 Mbps	7.42	0.426	7.85	30
		26 Mbps	7.32	0.528	7.85	30
		39 Mbps	7.02	0.735	7.75	30
		52 Mbps	6.78	0.896	7.67	30
		58.5 Mbps	6.71	0.969	7.68	30
		65 Mbps	6.60	1.082	7.69	30
2462	11	6.5 Mbps	6.97	0.161	7.13	30
		13 Mbps	6.81	0.295	7.10	30
		19.5 Mbps	6.67	0.426	7.10	30
		26 Mbps	6.57	0.528	7.09	30
		39 Mbps	6.33	0.735	7.07	30
		52 Mbps	6.13	0.896	7.02	30
		58.5 Mbps	6.03	0.969	7.00	30
		65 Mbps	5.90	1.082	6.98	30

■ TEST RESULTS_Ant.2

Conducted Output Power Measurements (802.11n Mode)

802.11n Mode		Rate (Mbps)	Measured Power(dBm)	Duty Cycle Factor	Measured Power(dBm) + Duty Cycle Factor	Limit (dBm)
Frequency [MHz]	Channel No.					
2412	1	6.5 Mbps	6.27	0.161	6.44	30
		13 Mbps	6.17	0.295	6.47	30
		19.5 Mbps	6.02	0.426	6.45	30
		26 Mbps	5.88	0.528	6.41	30
		39 Mbps	5.62	0.735	6.36	30
		52 Mbps	5.42	0.896	6.31	30
		58.5 Mbps	5.35	0.969	6.31	30
		65 Mbps	5.25	1.082	6.33	30
2437	6	6.5 Mbps	7.27	0.161	7.43	30
		13 Mbps	7.15	0.295	7.44	30
		19.5 Mbps	7.02	0.426	7.45	30
		26 Mbps	6.88	0.528	7.41	30
		39 Mbps	6.61	0.735	7.35	30
		52 Mbps	6.38	0.896	7.28	30
		58.5 Mbps	6.31	0.969	7.28	30
		65 Mbps	6.21	1.082	7.29	30
2462	11	6.5 Mbps	6.68	0.161	6.84	30
		13 Mbps	6.53	0.295	6.82	30
		19.5 Mbps	6.38	0.426	6.80	30
		26 Mbps	6.17	0.528	6.70	30
		39 Mbps	5.96	0.735	6.70	30
		52 Mbps	5.74	0.896	6.63	30
		58.5 Mbps	5.60	0.969	6.57	30
		65 Mbps	5.47	1.082	6.56	30

■ TEST RESULTS_Ant.3

Conducted Output Power Measurements (802.11n Mode)

802.11n Mode		Rate (Mbps)	Measured Power(dBm)	Duty Cycle Factor	Measured Power(dBm) + Duty Cycle Factor	Limit (dBm)
Frequency [MHz]	Channel No.					
2412	1	6.5 Mbps	6.44	0.161	6.60	30
		13 Mbps	6.36	0.295	6.65	30
		19.5 Mbps	6.24	0.426	6.66	30
		26 Mbps	6.12	0.528	6.65	30
		39 Mbps	5.86	0.735	6.59	30
		52 Mbps	5.58	0.896	6.48	30
		58.5 Mbps	5.43	0.969	6.40	30
		65 Mbps	5.29	1.082	6.38	30
2437	6	6.5 Mbps	7.14	0.161	7.30	30
		13 Mbps	6.98	0.295	7.27	30
		19.5 Mbps	6.82	0.426	7.24	30
		26 Mbps	6.66	0.528	7.18	30
		39 Mbps	6.34	0.735	7.08	30
		52 Mbps	6.14	0.896	7.04	30
		58.5 Mbps	6.01	0.969	6.97	30
		65 Mbps	5.88	1.082	6.97	30
2462	11	6.5 Mbps	7.04	0.161	7.20	30
		13 Mbps	6.88	0.295	7.17	30
		19.5 Mbps	6.74	0.426	7.16	30
		26 Mbps	6.62	0.528	7.15	30
		39 Mbps	6.41	0.735	7.15	30
		52 Mbps	6.16	0.896	7.05	30
		58.5 Mbps	6.01	0.969	6.98	30
		65 Mbps	5.92	1.082	7.00	30

■ TEST RESULTS_Sum Data of Ant.1 and Ant.2

Conducted Output Power Measurements (802.11n Mode)

802.11n Mode		Rate (Mbps)	Measured Power(dBm)	Limit (dBm)
Frequency[MHz]	Channel No.			
2412	1	6.5 Mbps	9.87	30
		13 Mbps	9.90	30
		19.5 Mbps	9.90	30
		26 Mbps	9.87	30
		39 Mbps	9.80	30
		52 Mbps	9.73	30
		58.5 Mbps	9.71	30
		65 Mbps	9.71	30
2437	6	6.5 Mbps	10.69	30
		13 Mbps	10.67	30
		19.5 Mbps	10.66	30
		26 Mbps	10.65	30
		39 Mbps	10.57	30
		52 Mbps	10.49	30
		58.5 Mbps	10.49	30
		65 Mbps	10.51	30
2462	11	6.5 Mbps	10.00	30
		13 Mbps	9.97	30
		19.5 Mbps	9.96	30
		26 Mbps	9.91	30
		39 Mbps	9.90	30
		52 Mbps	9.84	30
		58.5 Mbps	9.80	30
		65 Mbps	9.79	30

■ TEST RESULTS_Sum Data of Ant.1, Ant.2 and Ant 3

Conducted Output Power Measurements (802.11n Mode)

802.11n Mode		Rate (Mbps)	Measured Power(dBm)	Limit (dBm)
Frequency[MHz]	Channel No.			
2412	1	6.5 Mbps	11.55	30
		13 Mbps	11.58	30
		19.5 Mbps	11.59	30
		26 Mbps	11.57	30
		39 Mbps	11.50	30
		52 Mbps	11.41	30
		58.5 Mbps	11.37	30
		65 Mbps	11.37	30
2437	6	6.5 Mbps	12.33	30
		13 Mbps	12.31	30
		19.5 Mbps	12.29	30
		26 Mbps	12.26	30
		39 Mbps	12.17	30
		52 Mbps	12.11	30
		58.5 Mbps	12.09	30
		65 Mbps	12.10	30
2462	11	6.5 Mbps	11.83	30
		13 Mbps	11.81	30
		19.5 Mbps	11.79	30
		26 Mbps	11.76	30
		39 Mbps	11.75	30
		52 Mbps	11.68	30
		58.5 Mbps	11.63	30
		65 Mbps	11.62	30

5.8 GHz Band

■ TEST RESULTS_Ant.1

Conducted Output Power Measurements (802.11a Mode: 5745~5825)

802.11a Mode		Rate (Mbps)	Measured Power(dBm)	Duty Cycle Factor	Measured Power(dBm) + Duty Cycle Factor	Limit (dBm)
Frequency [MHz]	Channel No.					
5745	149	6 Mbps	1.92	0.222	2.14	30
		9 Mbps	1.85	0.223	2.08	30
		12 Mbps	1.79	0.274	2.06	30
		18 Mbps	1.69	0.409	2.10	30
		24 Mbps	1.60	0.531	2.13	30
		36 Mbps	1.44	0.738	2.18	30
		48 Mbps	1.28	0.936	2.22	30
		54 Mbps	1.22	1.015	2.24	30
5785	157	6 Mbps	3.74	0.222	3.96	30
		9 Mbps	3.67	0.223	3.90	30
		12 Mbps	3.61	0.274	3.89	30
		18 Mbps	3.50	0.409	3.90	30
		24 Mbps	3.41	0.531	3.94	30
		36 Mbps	3.24	0.738	3.98	30
		48 Mbps	3.11	0.936	4.05	30
		54 Mbps	3.04	1.015	4.05	30
5825	165	6 Mbps	4.36	0.222	4.58	30
		9 Mbps	4.17	0.223	4.39	30
		12 Mbps	4.12	0.274	4.40	30
		18 Mbps	4.06	0.409	4.47	30
		24 Mbps	4.11	0.531	4.64	30
		36 Mbps	3.93	0.738	4.66	30
		48 Mbps	3.76	0.936	4.69	30
		54 Mbps	3.66	1.015	4.68	30

■ TEST RESULTS_Ant.2

Conducted Output Power Measurements (802.11a Mode: 5745~5825)

802.11a Mode		Rate (Mbps)	Measured Power(dBm)	Duty Cycle Factor	Measured Power(dBm) + Duty Cycle Factor	Limit (dBm)
Frequency [MHz]	Channel No.					
5745	149	6 Mbps	2.56	0.222	2.78	30
		9 Mbps	2.59	0.223	2.81	30
		12 Mbps	2.54	0.274	2.81	30
		18 Mbps	2.43	0.409	2.83	30
		24 Mbps	2.33	0.531	2.86	30
		36 Mbps	1.99	0.738	2.73	30
		48 Mbps	1.80	0.936	2.73	30
		54 Mbps	1.74	1.015	2.76	30
5785	157	6 Mbps	3.54	0.222	3.76	30
		9 Mbps	3.49	0.223	3.71	30
		12 Mbps	3.44	0.274	3.72	30
		18 Mbps	3.36	0.409	3.76	30
		24 Mbps	3.17	0.531	3.70	30
		36 Mbps	2.99	0.738	3.73	30
		48 Mbps	2.84	0.936	3.78	30
		54 Mbps	2.78	1.015	3.79	30
5825	165	6 Mbps	4.04	0.222	4.26	30
		9 Mbps	4.04	0.223	4.27	30
		12 Mbps	3.92	0.274	4.19	30
		18 Mbps	3.87	0.409	4.27	30
		24 Mbps	3.75	0.531	4.28	30
		36 Mbps	3.46	0.738	4.20	30
		48 Mbps	3.23	0.936	4.16	30
		54 Mbps	3.12	1.015	4.13	30

■ TEST RESULTS_Ant.3

Conducted Output Power Measurements (802.11a Mode: 5745~5825)

802.11a Mode		Rate (Mbps)	Measured Power(dBm)	Duty Cycle Factor	Measured Power(dBm) + Duty Cycle Factor	Limit (dBm)
Frequency [MHz]	Channel No.					
5745	149	6 Mbps	2.55	0.222	2.78	30
		9 Mbps	2.53	0.223	2.76	30
		12 Mbps	2.47	0.274	2.74	30
		18 Mbps	2.33	0.409	2.74	30
		24 Mbps	2.22	0.531	2.75	30
		36 Mbps	1.95	0.738	2.69	30
		48 Mbps	1.78	0.936	2.71	30
		54 Mbps	1.61	1.015	2.63	30
5785	157	6 Mbps	3.79	0.222	4.01	30
		9 Mbps	3.72	0.223	3.95	30
		12 Mbps	3.66	0.274	3.94	30
		18 Mbps	3.53	0.409	3.94	30
		24 Mbps	3.40	0.531	3.93	30
		36 Mbps	3.14	0.738	3.88	30
		48 Mbps	2.86	0.936	3.79	30
		54 Mbps	2.71	1.015	3.73	30
5825	165	6 Mbps	4.62	0.222	4.84	30
		9 Mbps	4.55	0.223	4.78	30
		12 Mbps	4.49	0.274	4.76	30
		18 Mbps	4.40	0.409	4.81	30
		24 Mbps	4.30	0.531	4.83	30
		36 Mbps	4.12	0.738	4.86	30
		48 Mbps	3.90	0.936	4.84	30
		54 Mbps	3.79	1.015	4.81	30

■ TEST RESULTS_Sum Data of Ant.1 and Ant.2

Conducted Output Power Measurements (802.11a Mode: 5745~5825)

802.11a Mode		Rate (Mbps)	Measured Power(dBm)	Limit (dBm)
Frequency[MHz]	Channel No.			
5745	149	6 Mbps	5.48	30
		9 Mbps	5.47	30
		12 Mbps	5.46	30
		18 Mbps	5.49	30
		24 Mbps	5.52	30
		36 Mbps	5.47	30
		48 Mbps	5.50	30
		54 Mbps	5.52	30
5785	157	6 Mbps	6.88	30
		9 Mbps	6.82	30
		12 Mbps	6.81	30
		18 Mbps	6.85	30
		24 Mbps	6.83	30
		36 Mbps	6.86	30
		48 Mbps	6.92	30
		54 Mbps	6.93	30
5825	165	6 Mbps	7.43	30
		9 Mbps	7.34	30
		12 Mbps	7.31	30
		18 Mbps	7.38	30
		24 Mbps	7.47	30
		36 Mbps	7.45	30
		48 Mbps	7.45	30
		54 Mbps	7.42	30

■ TEST RESULTS_Sum Data of Ant.1, Ant.2 and Ant 3

Conducted Output Power Measurements (802.11a Mode: 5745~5825)

802.11a Mode		Rate (Mbps)	Measured Power(dBm)	Limit (dBm)
Frequency[MHz]	Channel No.			
5745	149	6 Mbps	7.35	30
		9 Mbps	7.33	30
		12 Mbps	7.32	30
		18 Mbps	7.34	30
		24 Mbps	7.36	30
		36 Mbps	7.31	30
		48 Mbps	7.33	30
		54 Mbps	7.32	30
5785	157	6 Mbps	8.69	30
		9 Mbps	8.62	30
		12 Mbps	8.62	30
		18 Mbps	8.64	30
		24 Mbps	8.63	30
		36 Mbps	8.63	30
		48 Mbps	8.65	30
		54 Mbps	8.63	30
5825	165	6 Mbps	9.34	30
		9 Mbps	9.26	30
		12 Mbps	9.23	30
		18 Mbps	9.30	30
		24 Mbps	9.36	30
		36 Mbps	9.35	30
		48 Mbps	9.35	30
		54 Mbps	9.32	30

■ TEST RESULTS_Ant.1

Conducted Output Power Measurements (802.11n_20 MHz BW Mode: 5745~5825)

802.11n Mode		Rate (Mbps)	Measured Power(dBm)	Duty Cycle Factor	Measured Power(dBm) + Duty Cycle Factor	Limit (dBm)
Frequency [MHz]	Channel No.					
5745	149	6.5 Mbps	1.89	0.161	2.05	30
		13 Mbps	1.79	0.295	2.09	30
		19.5 Mbps	1.69	0.426	2.12	30
		26 Mbps	1.62	0.528	2.15	30
		39 Mbps	1.36	0.735	2.09	30
		52 Mbps	1.17	0.896	2.06	30
		58.5 Mbps	1.02	0.969	1.99	30
		65 Mbps	0.90	1.082	1.99	30
5785	157	6.5 Mbps	4.21	0.161	4.38	30
		13 Mbps	4.06	0.295	4.35	30
		19.5 Mbps	3.86	0.426	4.28	30
		26 Mbps	3.74	0.528	4.27	30
		39 Mbps	3.43	0.735	4.16	30
		52 Mbps	3.25	0.896	4.15	30
		58.5 Mbps	3.23	0.969	4.20	30
		65 Mbps	3.16	1.082	4.24	30
5825	165	6.5 Mbps	4.50	0.161	4.66	30
		13 Mbps	4.35	0.295	4.65	30
		19.5 Mbps	4.25	0.426	4.67	30
		26 Mbps	4.12	0.528	4.65	30
		39 Mbps	3.83	0.735	4.57	30
		52 Mbps	3.59	0.896	4.49	30
		58.5 Mbps	3.57	0.969	4.54	30
		65 Mbps	3.49	1.082	4.57	30

■ TEST RESULTS_Ant.2

Conducted Output Power Measurements (802.11n_20 MHz BW Mode: 5745~5825)

802.11n Mode		Rate (Mbps)	Measured Power(dBm)	Duty Cycle Factor	Measured Power(dBm) + Duty Cycle Factor	Limit (dBm)
Frequency [MHz]	Channel No.					
5745	149	6.5 Mbps	2.52	0.161	2.68	30
		13 Mbps	2.39	0.295	2.69	30
		19.5 Mbps	2.27	0.426	2.70	30
		26 Mbps	2.19	0.528	2.71	30
		39 Mbps	2.03	0.735	2.76	30
		52 Mbps	1.87	0.896	2.76	30
		58.5 Mbps	1.77	0.969	2.74	30
		65 Mbps	1.68	1.082	2.76	30
5785	157	6.5 Mbps	4.03	0.161	4.20	30
		13 Mbps	3.89	0.295	4.19	30
		19.5 Mbps	3.82	0.426	4.25	30
		26 Mbps	3.70	0.528	4.22	30
		39 Mbps	3.42	0.735	4.15	30
		52 Mbps	3.18	0.896	4.07	30
		58.5 Mbps	3.10	0.969	4.07	30
		65 Mbps	3.01	1.082	4.09	30
5825	165	6.5 Mbps	4.16	0.161	4.32	30
		13 Mbps	4.03	0.295	4.33	30
		19.5 Mbps	3.92	0.426	4.35	30
		26 Mbps	3.77	0.528	4.30	30
		39 Mbps	3.51	0.735	4.25	30
		52 Mbps	3.30	0.896	4.20	30
		58.5 Mbps	3.14	0.969	4.10	30
		65 Mbps	3.03	1.082	4.11	30

■ TEST RESULTS_Ant.3

Conducted Output Power Measurements (802.11n_20 MHz BW Mode: 5745~5825)

802.11n Mode		Rate (Mbps)	Measured Power(dBm)	Duty Cycle Factor	Measured Power(dBm) + Duty Cycle Factor	Limit (dBm)
Frequency [MHz]	Channel No.					
5745	149	6.5 Mbps	2.34	0.161	2.50	30
		13 Mbps	2.19	0.295	2.49	30
		19.5 Mbps	2.08	0.426	2.51	30
		26 Mbps	1.99	0.528	2.51	30
		39 Mbps	1.83	0.735	2.57	30
		52 Mbps	1.69	0.896	2.59	30
		58.5 Mbps	1.68	0.969	2.64	30
		65 Mbps	1.63	1.082	2.71	30
5785	157	6.5 Mbps	3.89	0.161	4.05	30
		13 Mbps	3.75	0.295	4.05	30
		19.5 Mbps	3.65	0.426	4.07	30
		26 Mbps	3.56	0.528	4.08	30
		39 Mbps	3.38	0.735	4.12	30
		52 Mbps	3.25	0.896	4.15	30
		58.5 Mbps	3.26	0.969	4.23	30
		65 Mbps	3.20	1.082	4.28	30
5825	165	6.5 Mbps	4.44	0.161	4.60	30
		13 Mbps	4.39	0.295	4.69	30
		19.5 Mbps	4.23	0.426	4.66	30
		26 Mbps	4.12	0.528	4.65	30
		39 Mbps	3.92	0.735	4.65	30
		52 Mbps	3.79	0.896	4.69	30
		58.5 Mbps	3.74	0.969	4.71	30
		65 Mbps	3.67	1.082	4.76	30

■ TEST RESULTS_Sum Data of Ant.1 and Ant.2

Conducted Output Power Measurements (802.11n_20 MHz BW Mode: 5745~5825)

802.11n Mode		Rate (Mbps)	Measured Power(dBm)	Limit (dBm)
Frequency[MHz]	Channel No.			
5745	149	6.5 Mbps	5.39	30
		13 Mbps	5.41	30
		19.5 Mbps	5.43	30
		26 Mbps	5.45	30
		39 Mbps	5.45	30
		52 Mbps	5.44	30
		58.5 Mbps	5.39	30
		65 Mbps	5.40	30
5785	157	6.5 Mbps	7.30	30
		13 Mbps	7.28	30
		19.5 Mbps	7.28	30
		26 Mbps	7.26	30
		39 Mbps	7.17	30
		52 Mbps	7.12	30
		58.5 Mbps	7.14	30
		65 Mbps	7.18	30
5825	165	6.5 Mbps	7.50	30
		13 Mbps	7.50	30
		19.5 Mbps	7.52	30
		26 Mbps	7.49	30
		39 Mbps	7.42	30
		52 Mbps	7.36	30
		58.5 Mbps	7.34	30
		65 Mbps	7.36	30

■ TEST RESULTS_Sum Data of Ant.1, Ant.2 and Ant 3

Conducted Output Power Measurements (802.11n_20 MHz BW Mode: 5745~5825)

802.11n Mode		Rate (Mbps)	Measured Power(dBm)	Limit (dBm)
Frequency[MHz]	Channel No.			
5745	149	6.5 Mbps	7.19	30
		13 Mbps	7.20	30
		19.5 Mbps	7.22	30
		26 Mbps	7.24	30
		39 Mbps	7.25	30
		52 Mbps	7.25	30
		58.5 Mbps	7.24	30
		65 Mbps	7.27	30
5785	157	6.5 Mbps	8.98	30
		13 Mbps	8.97	30
		19.5 Mbps	8.97	30
		26 Mbps	8.96	30
		39 Mbps	8.92	30
		52 Mbps	8.90	30
		58.5 Mbps	8.94	30
		65 Mbps	8.98	30
5825	165	6.5 Mbps	9.30	30
		13 Mbps	9.33	30
		19.5 Mbps	9.33	30
		26 Mbps	9.31	30
		39 Mbps	9.27	30
		52 Mbps	9.23	30
		58.5 Mbps	9.23	30
		65 Mbps	9.26	30

■ TEST RESULTS_Ant.1

Conducted Output Power Measurements (802.11n_40 MHz BW Mode: 5755~5795)

802.11n Mode		Rate (Mbps)	Measured Power(dBm)	Duty Cycle Factor	Measured Power(dBm) + Duty Cycle Factor	Limit (dBm)
Frequency [MHz]	Channel No.					
5755	151	13.5 Mbps	2.11	0.228	2.34	30
		27 Mbps	1.94	0.421	2.36	30
		40.5 Mbps	1.79	0.552	2.35	30
		54 Mbps	1.68	0.683	2.36	30
		81 Mbps	1.46	0.950	2.41	30
		108 Mbps	1.28	1.091	2.37	30
		121.5 Mbps	1.22	1.165	2.39	30
		135 Mbps	1.14	1.249	2.39	30
5795	159	13.5 Mbps	3.85	0.228	4.08	30
		27 Mbps	3.67	0.421	4.09	30
		40.5 Mbps	3.53	0.552	4.09	30
		54 Mbps	3.43	0.683	4.11	30
		81 Mbps	3.25	0.950	4.20	30
		108 Mbps	3.12	1.091	4.21	30
		121.5 Mbps	3.06	1.165	4.23	30
		135 Mbps	2.97	1.249	4.22	30

■ TEST RESULTS_Ant.2

Conducted Output Power Measurements (802.11n_40 MHz BW Mode: 5755~5795)

802.11n Mode		Rate (Mbps)	Measured Power(dBm)	Duty Cycle Factor	Measured Power(dBm) + Duty Cycle Factor	Limit (dBm)
Frequency [MHz]	Channel No.					
5755	151	13.5 Mbps	2.82	0.228	3.05	30
		27 Mbps	2.66	0.421	3.08	30
		40.5 Mbps	2.52	0.552	3.07	30
		54 Mbps	2.40	0.683	3.08	30
		81 Mbps	2.23	0.950	3.18	30
		108 Mbps	2.09	1.091	3.19	30
		121.5 Mbps	2.04	1.165	3.20	30
		135 Mbps	1.94	1.249	3.19	30
5795	159	13.5 Mbps	3.72	0.228	3.95	30
		27 Mbps	3.57	0.421	3.99	30
		40.5 Mbps	3.43	0.552	3.99	30
		54 Mbps	3.33	0.683	4.01	30
		81 Mbps	3.18	0.950	4.12	30
		108 Mbps	2.98	1.091	4.07	30
		121.5 Mbps	2.84	1.165	4.00	30
		135 Mbps	2.56	1.249	3.81	30

■ TEST RESULTS_Ant.3

Conducted Output Power Measurements (802.11n_40 MHz BW Mode: 5755~5795)

802.11n Mode		Rate (Mbps)	Measured Power(dBm)	Duty Cycle Factor	Measured Power(dBm) + Duty Cycle Factor	Limit (dBm)
Frequency [MHz]	Channel No.					
5755	151	13.5 Mbps	2.83	0.228	3.06	30
		27 Mbps	2.65	0.421	3.08	30
		40.5 Mbps	2.50	0.552	3.05	30
		54 Mbps	2.34	0.683	3.02	30
		81 Mbps	2.07	0.950	3.02	30
		108 Mbps	1.81	1.091	2.90	30
		121.5 Mbps	1.67	1.165	2.84	30
		135 Mbps	1.59	1.249	2.84	30
5795	159	13.5 Mbps	3.70	0.228	3.93	30
		27 Mbps	3.52	0.421	3.94	30
		40.5 Mbps	3.32	0.552	3.87	30
		54 Mbps	3.17	0.683	3.86	30
		81 Mbps	2.93	0.950	3.88	30
		108 Mbps	2.78	1.091	3.87	30
		121.5 Mbps	2.74	1.165	3.90	30
		135 Mbps	2.66	1.249	3.91	30

■ TEST RESULTS_Sum Data of Ant.1 and Ant.2

Conducted Output Power Measurements (802.11n_40 MHz BW Mode: 5755~5795)

802.11n Mode		Rate (Mbps)	Measured Power(dBm)	Limit (dBm)
Frequency[MHz]	Channel No.			
5755	151	13.5 Mbps	5.72	30
		27 Mbps	5.75	30
		40.5 Mbps	5.73	30
		54 Mbps	5.75	30
		81 Mbps	5.82	30
		108 Mbps	5.81	30
		121.5 Mbps	5.82	30
		135 Mbps	5.82	30
5795	159	13.5 Mbps	7.02	30
		27 Mbps	7.05	30
		40.5 Mbps	7.05	30
		54 Mbps	7.07	30
		81 Mbps	7.17	30
		108 Mbps	7.15	30
		121.5 Mbps	7.13	30
		135 Mbps	7.03	30

■ TEST RESULTS_Sum Data of Ant.1, Ant.2 and Ant 3

Conducted Output Power Measurements (802.11n_40 MHz BW Mode: 5755~5795)

802.11n Mode		Rate (Mbps)	Measured Power(dBm)	Limit (dBm)
Frequency[MHz]	Channel No.			
5755	151	13.5 Mbps	7.60	30
		27 Mbps	7.62	30
		40.5 Mbps	7.61	30
		54 Mbps	7.60	30
		81 Mbps	7.66	30
		108 Mbps	7.60	30
		121.5 Mbps	7.59	30
		135 Mbps	7.59	30
5795	159	13.5 Mbps	8.76	30
		27 Mbps	8.78	30
		40.5 Mbps	8.75	30
		54 Mbps	8.76	30
		81 Mbps	8.84	30
		108 Mbps	8.82	30
		121.5 Mbps	8.82	30
		135 Mbps	8.76	30

9.4 POWER SPECTRAL DENSITY (802.11a/b/g/n)

Test Requirements and limit, §15.247(e)

The peak power spectral density is measured with a spectrum analyzer connected to the antenna terminal while the EUT is operating in transmission mode at the appropriate frequencies.

Minimum Standard – the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

Limit :

2.4 GHz Band

Operating Mode	Mode	Ant. Gain(dBi)	Limt(dBm)
SISO : Monitoring	802.11b	3.5	8
	802.11g		
	802.11n		
SISO : Service	802.11b	4.5	8
	802.11g		
	802.11n		
MIMO(2 TX) : Monitoring	802.11b	6.51	7.49
	802.11g		
	802.11n	3.5	8
MIMO(2 TX) : Service	802.11b	7.51	6.49
	802.11g		
	802.11n	4.5	8
MIMO(3 TX) : Service	802.11b	9.27	4.73
	802.11g		
	802.11n	4.5	8

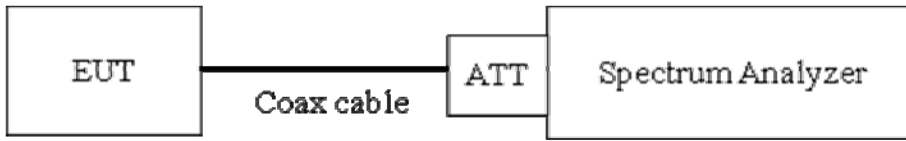
Note : Above the limits is calculated according to antenna gain. Because antenna gain is higher than 6 dBi.

5.8 GHz Band

Operating Mode	Mode	Ant. Gain(dBi)	Limt(dBm)
SISO : Monitoring	802.11a	5.5	8
	802.11n_20 MHz BW		
	802.11n_40 MHz BW		
SISO : Service	802.11a	6	8
	802.11n_20 MHz BW		
	802.11n_40 MHz BW		
MIMO(2 TX) : Monitoring	802.11a	8.51	5.49
	802.11n_20 MHz BW	5.5	8
	802.11n_40 MHz BW		
MIMO(2 TX) : Service	802.11a	9.01	4.99
	802.11n_20 MHz BW	6	8
	802.11n_40 MHz BW		
MIMO(3 TX) : Service	802.11a	10.77	3.23
	802.11n_20 MHz BW	6	8
	802.11n_40 MHz BW		

Note : Above the limits is calculated according to antenna gain. Because antenna gain is higher than 6 dBi.

■ TEST CONFIGURATION



■ TEST PROCEDURE

We tested according to Procedure 10.2 in KDB 558074, issued 04/09/2013

The spectrum analyzer is set to :

Set analyzer center frequency to DTS channel center frequency.

Span = 1.5 times the DTS channel bandwidth.

RBW = 3 kHz ≤ RBW ≤ 100 kHz.

VBW ≥ 3 × RBW.

Sweep = auto couple

Detector = peak

Trace Mode = max hold

Allow trace to fully stabilize.

Use the peak marker function to determine the maximum amplitude level within the RBW.

If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

■ Sample Calculation

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

$$= -5 \text{ dBm} + 10 \text{ dB} + 0.8 \text{ dB} = 5.8 \text{ dBm}$$

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 5.8 GHz range that was rounded off to the closest tenth dB. So, 20.5 dB is offset for 2.4 GHz Band and 21.0 dB is offset for 5.8 GHz Band.

Actual value of loss for the attenuator and cable combination is below table. We used the particular cable type that is supported by manufacture.

Band	Loss(dB)
2.4 GHz	20.5
5.8 GHz	21.0

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

Monitoring Port

■ TEST RESULTS_Ant.1

Conducted Power Density Measurements

Frequency (MHz)	Channel No.	Mode	Test Result		
			PSD (dBm)	Limit (dBm)	Pass/Fail
2412	1	802.11b	-15.927	8	Pass
2437	6		-16.448		Pass
2462	11		-15.997		Pass
2412	1	802.11g	-17.638		Pass
2437	6		-17.810		Pass
2462	11		-17.775		Pass
2412	1	802.11n 2.4 GHz Band	-18.779		Pass
2437	6		-18.464		Pass
2462	11		-18.822		Pass
5745	149	802.11a	-20.430		Pass
5785	157		-21.313		Pass
5825	165		-20.451		Pass
5745	149	802.11n_20 MHz BW 5.8 GHz Band	-21.355		Pass
5785	157		-22.373		Pass
5825	165		-19.941		Pass
5755	151	802.11n_40 MHz BW 5.8 GHz Band	-24.798		Pass
5795	159		-25.653		Pass

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

■ TEST RESULTS_Ant.2

Conducted Power Density Measurements

Frequency (MHz)	Channel No.	Mode	Test Result		
			PSD (dBm)	Limit (dBm)	Pass/Fail
2412	1	802.11b	-16.003	8	Pass
2437	6		-16.057		Pass
2462	11		-16.015		Pass
2412	1	802.11g	-18.431		Pass
2437	6		-17.898		Pass
2462	11		-18.692		Pass
2412	1	802.11n 2.4 GHz Band	-18.764		Pass
2437	6		-18.356		Pass
2462	11		-18.818		Pass
5745	149	802.11a	-19.625		Pass
5785	157		-20.571		Pass
5825	165		-19.498		Pass
5745	149	802.11n_20 MHz BW 5.8 GHz Band	-20.382		Pass
5785	157		-20.899		Pass
5825	165		-19.735		Pass
5755	151	802.11n_40 MHz BW 5.8 GHz Band	-23.950		Pass
5795	159		-23.518		Pass

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

■ TEST RESULTS_Sum Data of Ant.1 and Ant.2

Conducted Power Density Measurements

Frequency (MHz)	Channel No.	Mode	Test Result		
			PSD (dBm)	Limit (dBm)	Pass/Fail
2412	1	802.11b	-12.95	7.49	Pass
2437	6		-13.24		Pass
2462	11		-13.00		Pass
2412	1	802.11g	-15.01	7.49	Pass
2437	6		-14.84		Pass
2462	11		-15.20		Pass
2412	1	802.11n 2.4 GHz Band	-15.76	8	Pass
2437	6		-15.40		Pass
2462	11		-15.81		Pass
5745	149	802.11a	-17.00	5.49	Pass
5785	157		-17.92		Pass
5825	165		-16.94		Pass
5745	149	802.11n_20 MHz BW 5.8 GHz Band	-17.83	8	Pass
5785	157		-18.56		Pass
5825	165		-16.83		Pass
5755	151	802.11n_40 MHz BW 5.8 GHz Band	-21.34	8	Pass
5795	159		-21.45		Pass

Service Port

■ TEST RESULTS_Ant.1

Conducted Power Density Measurements

Frequency (MHz)	Channel No.	Mode	Test Result		
			PSD (dBm)	Limit (dBm)	Pass/Fail
2412	1	802.11b	-18.917	8	Pass
2437	6		-11.159		Pass
2462	11		-14.236		Pass
2412	1	802.11g	-18.126		Pass
2437	6		-18.349		Pass
2462	11		-17.480		Pass
2412	1	802.11n 2.4 GHz Band	-18.592		Pass
2437	6		-17.959		Pass
2462	11		-19.798		Pass
5745	149	802.11a	-24.122		Pass
5785	157		-22.834		Pass
5825	165		-20.611		Pass
5745	149	802.11n_20 MHz BW 5.8 GHz Band	-24.630		Pass
5785	157		-21.741		Pass
5825	165		-21.743		Pass
5755	151	802.11n_40 MHz BW	-26.167		Pass
5795	159	5.8 GHz Band	-24.206		Pass

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

■ TEST RESULTS_Ant.2

Conducted Power Density Measurements

Frequency (MHz)	Channel No.	Mode	Test Result		
			PSD (dBm)	Limit (dBm)	Pass/Fail
2412	1	802.11b	-20.248	8	Pass
2437	6		-13.598		Pass
2462	11		-16.628		Pass
2412	1	802.11g	-18.047		Pass
2437	6		-18.719		Pass
2462	11		-17.642		Pass
2412	1	802.11n 2.4 GHz Band	-18.926		Pass
2437	6		-18.062		Pass
2462	11		-18.644		Pass
5745	149	802.11a	-22.970		Pass
5785	157		-22.135		Pass
5825	165		-21.946		Pass
5745	149	802.11n_20 MHz BW 5.8 GHz Band	-23.437		Pass
5785	157		-22.679		Pass
5825	165		-21.936		Pass
5755	151	802.11n_40 MHz BW 5.8 GHz Band	-25.330		Pass
5795	159		-24.243		Pass

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

■ TEST RESULTS_Ant.3

Conducted Power Density Measurements

Frequency (MHz)	Channel No.	Mode	Test Result		
			PSD (dBm)	Limit (dBm)	Pass/Fail
2412	1	802.11b	-20.199	8	Pass
2437	6		-14.104		Pass
2462	11		-16.105		Pass
2412	1	802.11g	-18.582		Pass
2437	6		-18.331		Pass
2462	11		-17.366		Pass
2412	1	802.11n 2.4 GHz Band	-19.311		Pass
2437	6		-19.816		Pass
2462	11		-10.910		Pass
5745	149	802.11a	-23.186		Pass
5785	157		-22.336		Pass
5825	165		-21.433		Pass
5745	149	802.11n_20 MHz BW 5.8 GHz Band	-24.262		Pass
5785	157		-22.033		Pass
5825	165		-21.442		Pass
5755	151	802.11n_40 MHz BW 5.8 GHz Band	-26.830		Pass
5795	159		-25.114		Pass

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

■ TEST RESULTS_Sum Data of Ant.1 and Ant.2

Conducted Power Density Measurements

Frequency (MHz)	Channel No.	Mode	Test Result		
			PSD (dBm)	Limit (dBm)	Pass/Fail
2412	1	802.11b	-16.52	6.49	Pass
2437	6		-9.20		Pass
2462	11		-12.26		Pass
2412	1	802.11g	-15.08		Pass
2437	6		-15.52		Pass
2462	11		-14.55		Pass
2412	1	802.11n(20M) 2.4 GHz Band	-15.75	8	Pass
2437	6		-15.00		Pass
2462	11		-16.17		Pass
5745	149	802.11a	-20.50	4.99	Pass
5785	157		-19.46		Pass
5825	165		-18.22		Pass
5745	149	802.11n_20 MHz BW 5.8 GHz Band	-20.98	8	Pass
5785	157		-19.17		Pass
5825	165		-18.83		Pass
5755	151	802.11n_40 MHz BW 5.8 GHz Band	-22.72		Pass
5795	159		-21.21		Pass

■ TEST RESULTS_Sum Data of Ant.1, Ant.2 and Ant 3

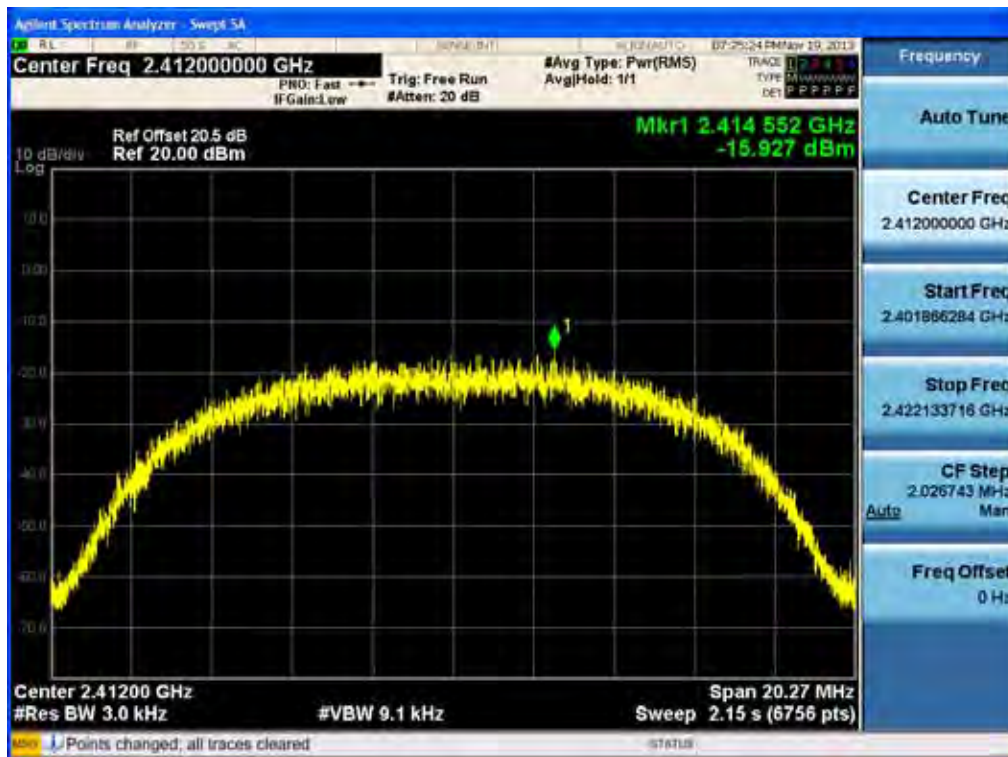
Conducted Power Density Measurements

Frequency (MHz)	Channel No.	Mode	Test Result		
			PSD (dBm)	Limit (dBm)	Pass/Fail
2412	1	802.11b	-14.97	4.73	Pass
2437	6		-7.98		Pass
2462	11		-10.76		Pass
2412	1	802.11g	-13.47		Pass
2437	6		-13.69		Pass
2462	11		-12.72		Pass
2412	1	802.11n(20M) 2.4 GHz Band	-14.16	8	Pass
2437	6		-13.76		Pass
2462	11		-9.78		Pass
5745	149	802.11a	-18.63	3.23	Pass
5785	157		-17.65		Pass
5825	165		-16.52		Pass
5745	149	802.11n_20 MHz BW 5.8 GHz Band	-19.31	8	Pass
5785	157		-17.36		Pass
5825	165		-16.93		Pass
5755	151	802.11n_40 MHz BW 5.8 GHz Band	-21.29		Pass
5795	159		-19.73		Pass

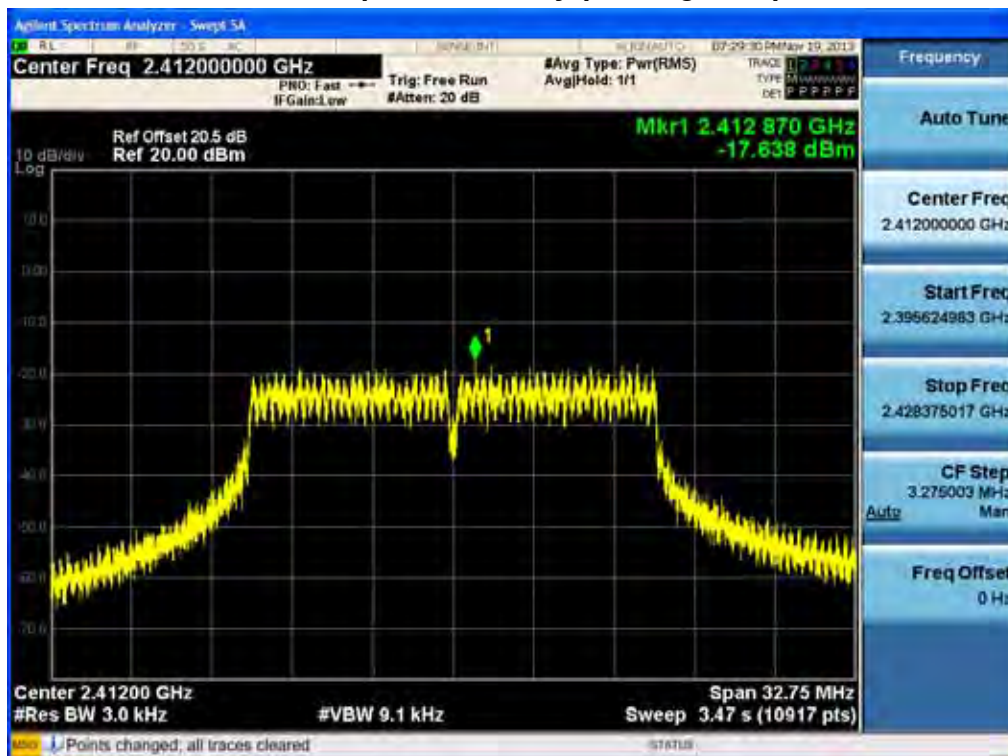
Monitoring Port Ant.1

RESULT PLOTS

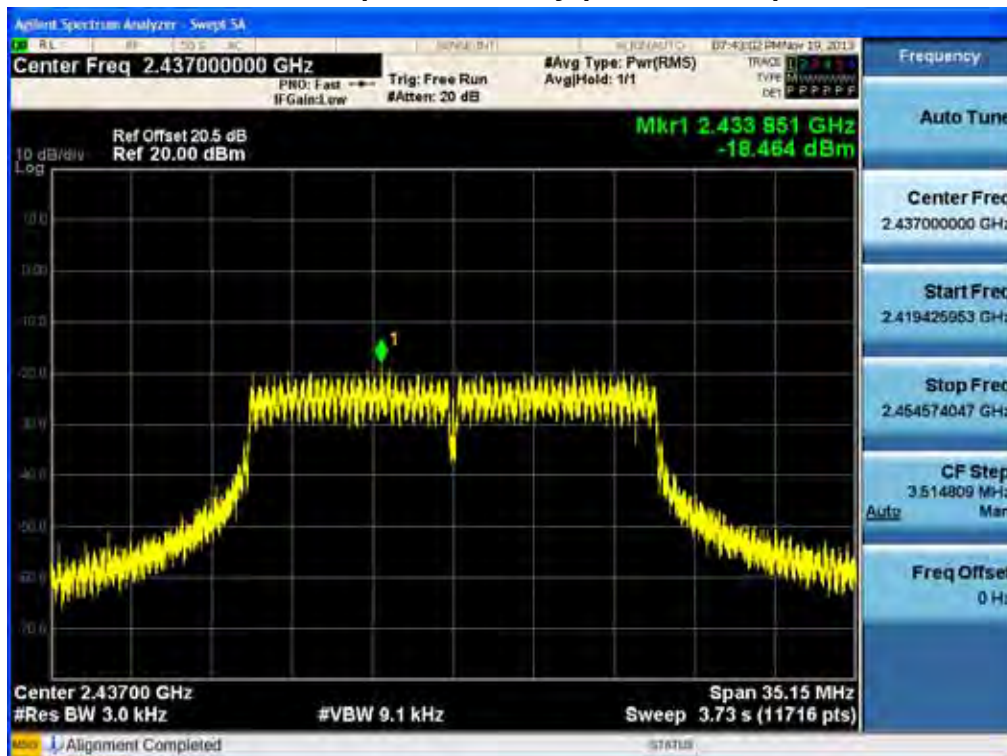
Power Spectral Density (802.11b-CH 1)



Power Spectral Density (802.11g-CH 1)

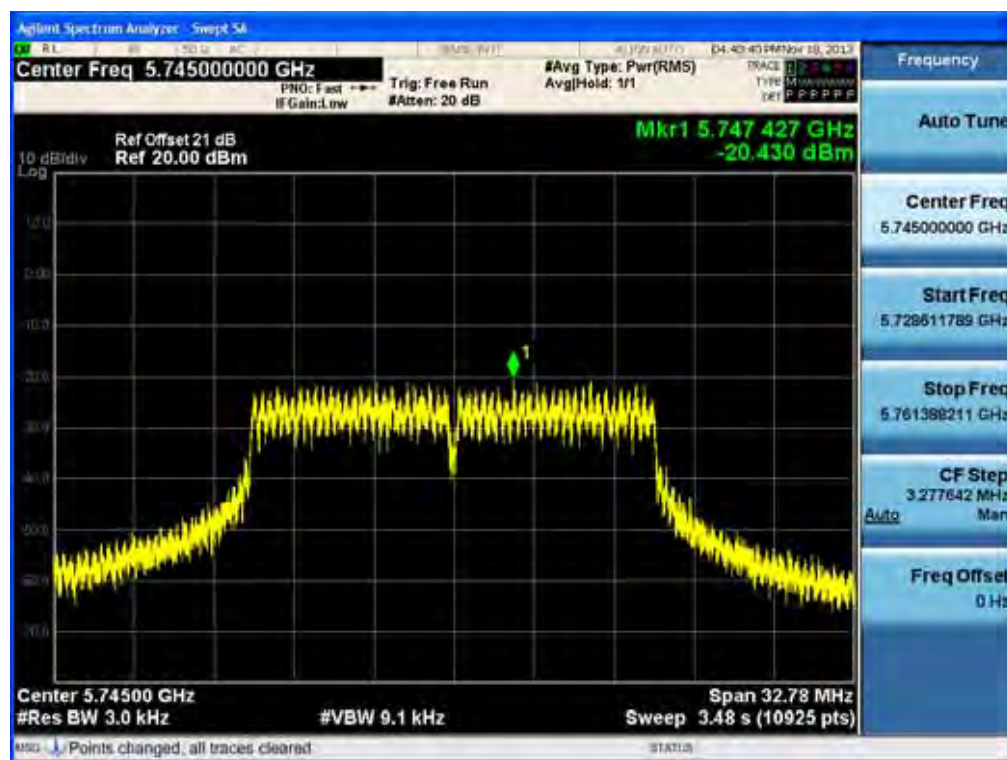


Power Spectral Density (802.11n-CH 6)



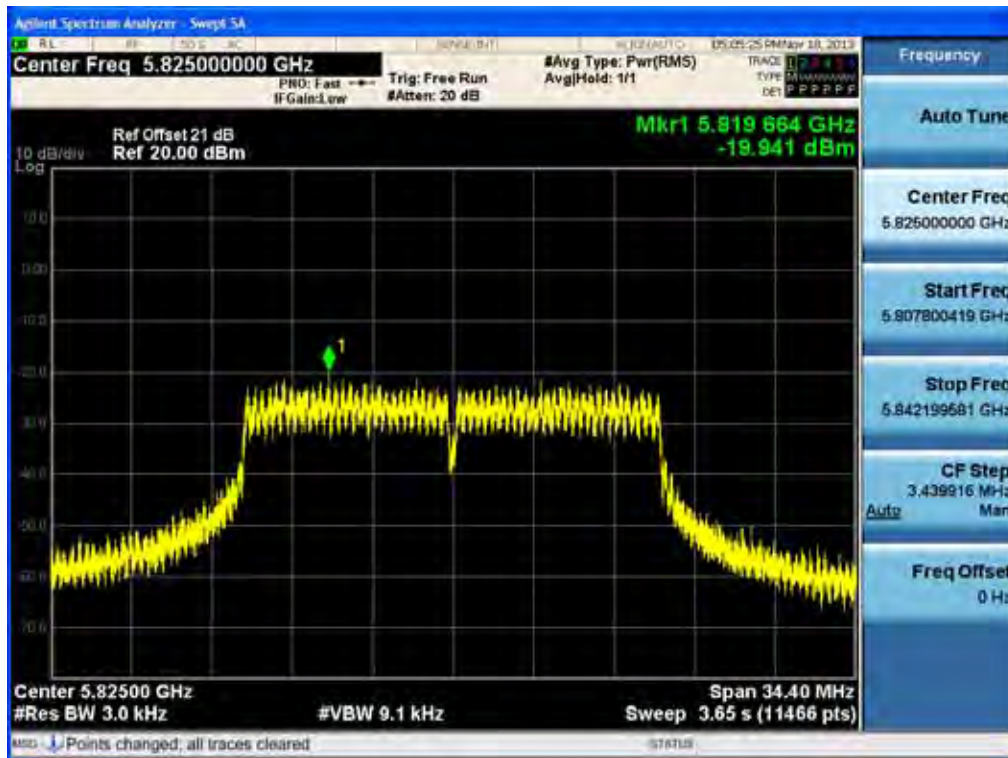
20 MHz BW

Power Spectral Density (802.11a-CH 149)



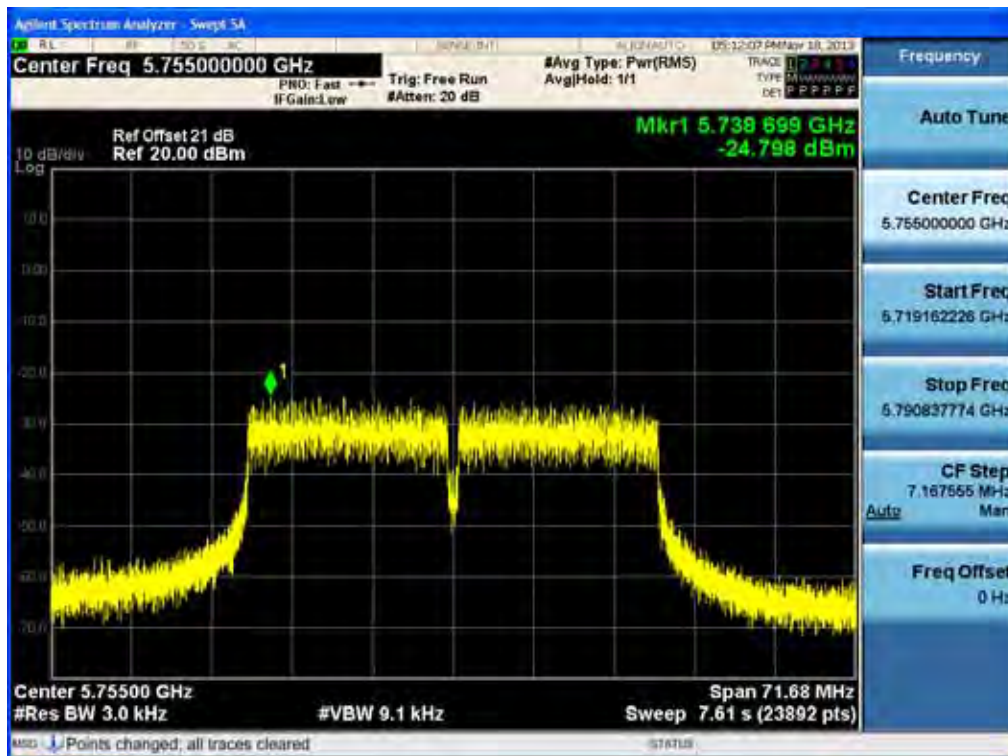
FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1312FR13-1	Date of Issue: January 02, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA303I

Power Spectral Density (802.11n-CH 165)



40 MHz BW

Power Spectral Density (802.11n-CH 151)

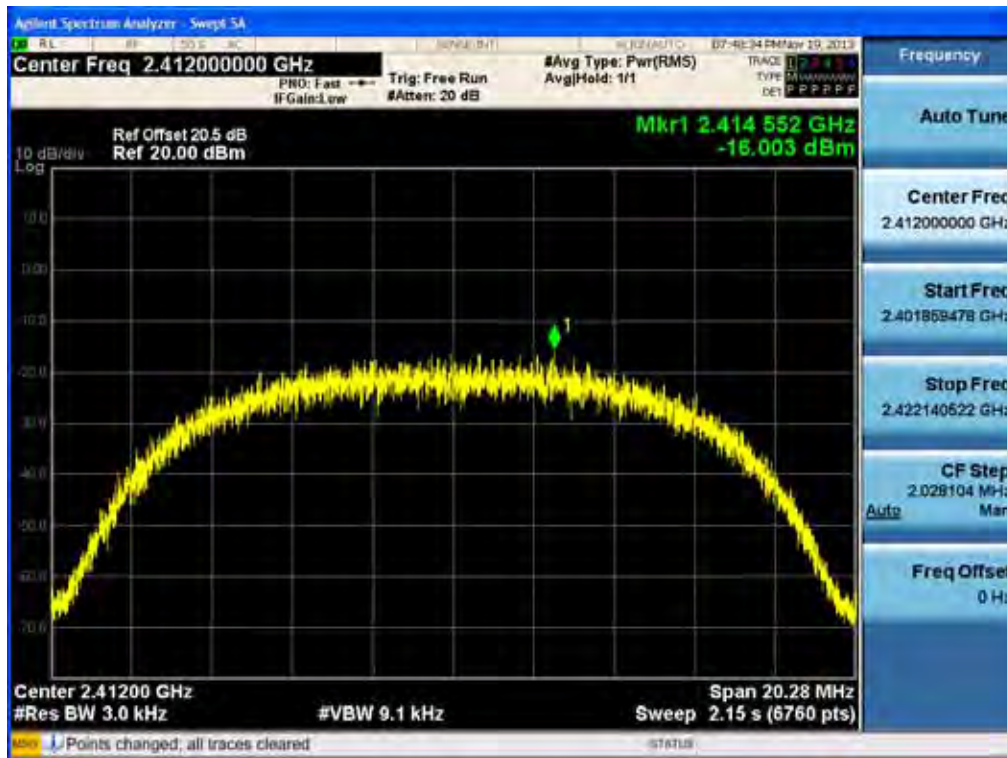


FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1312FR13-1	Date of Issue: January 02, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA303I

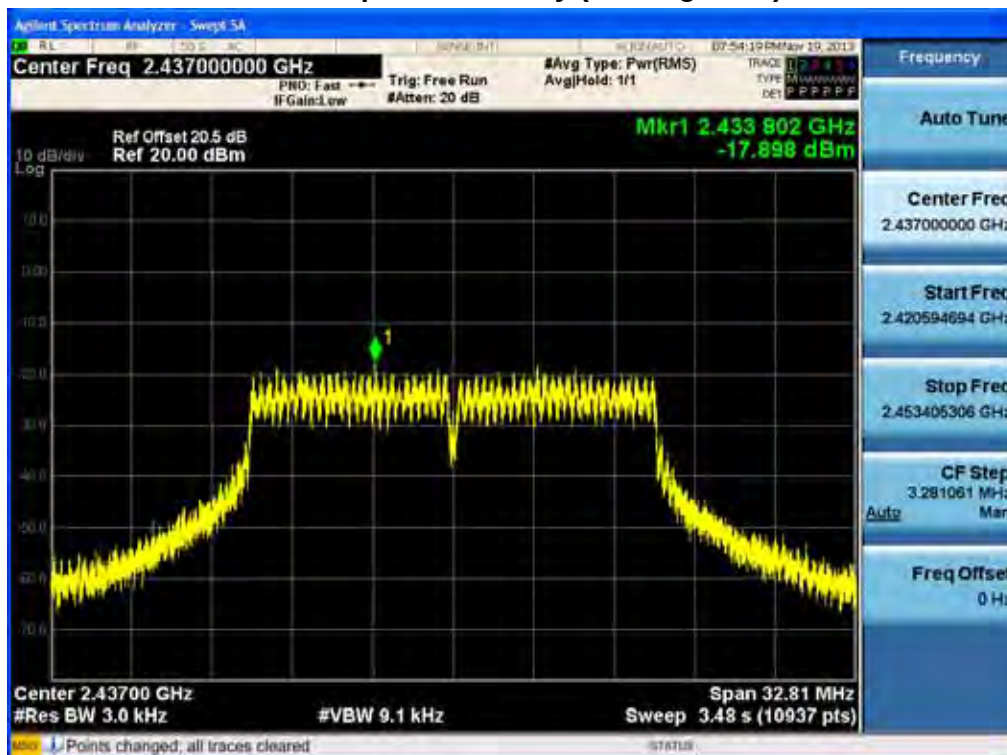
Monitoring Port Ant.2

RESULT PLOTS

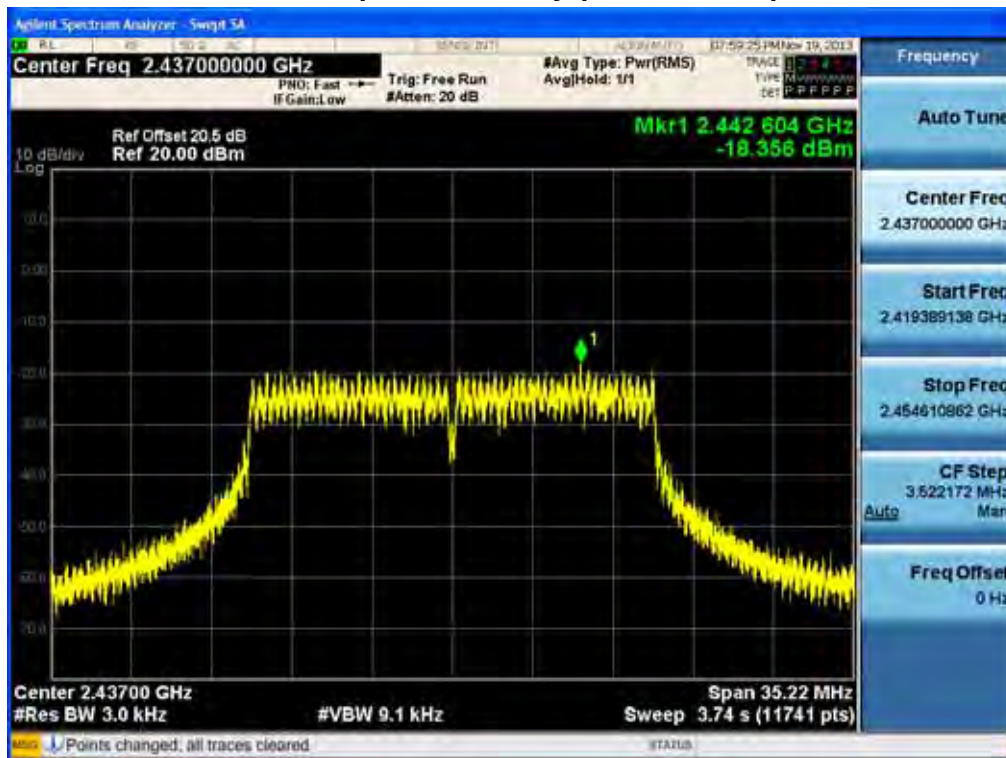
Power Spectral Density (802.11b-CH 1)



Power Spectral Density (802.11g-CH 6)

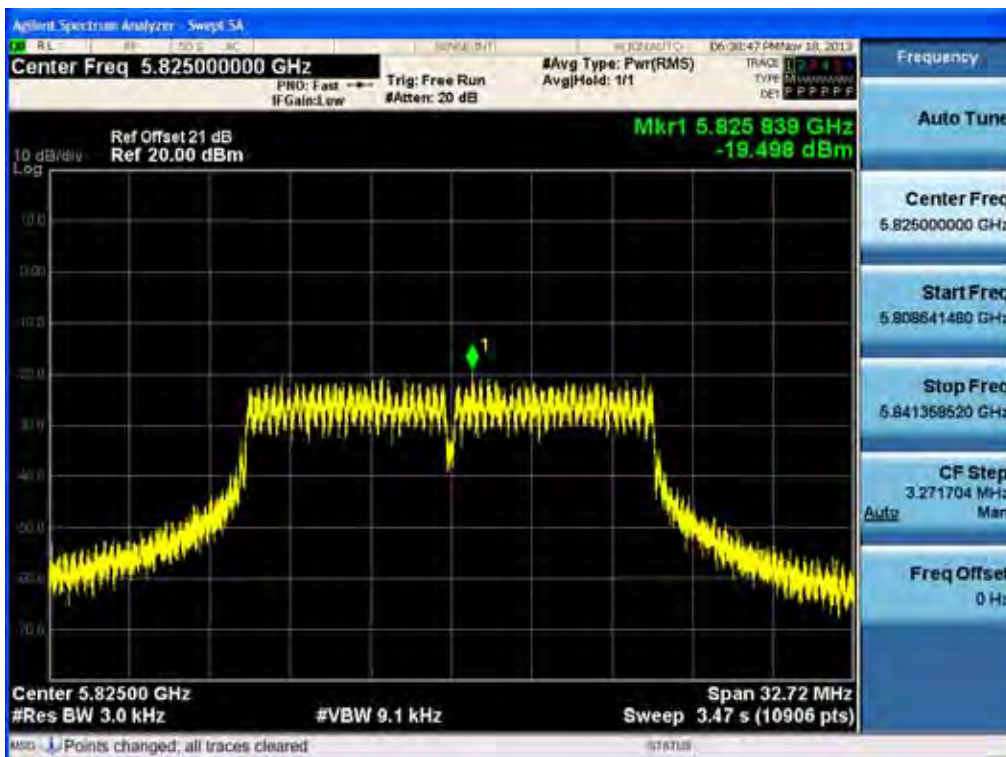


Power Spectral Density (802.11n-CH 6)



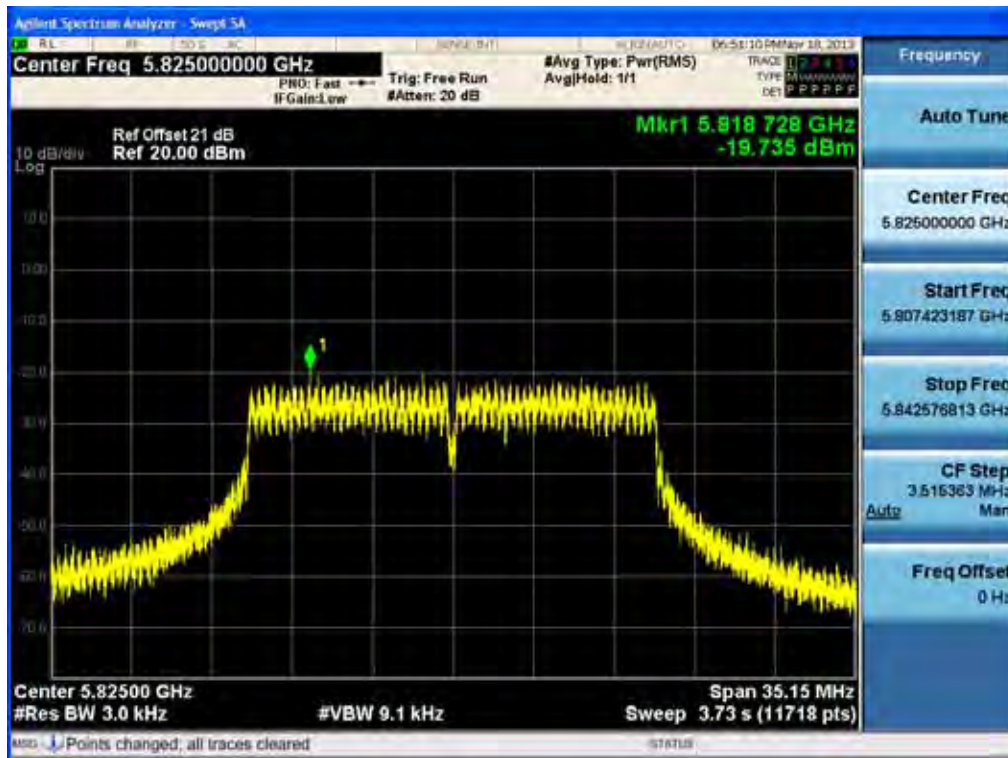
20 MHz BW

Power Spectral Density (802.11a-CH 165)



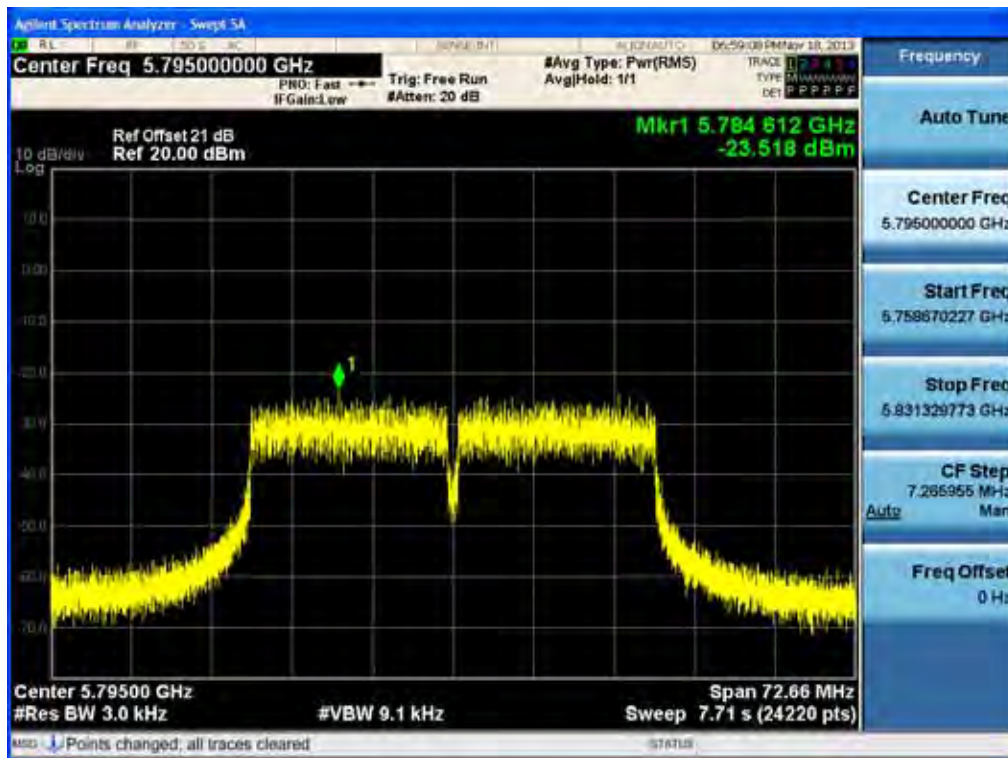
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Test Report No. HCTR1312FR13-1	Date of Issue: January 02, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA303I

Power Spectral Density (802.11n-CH 165)



40 MHz BW

Power Spectral Density (802.11n-CH 159)

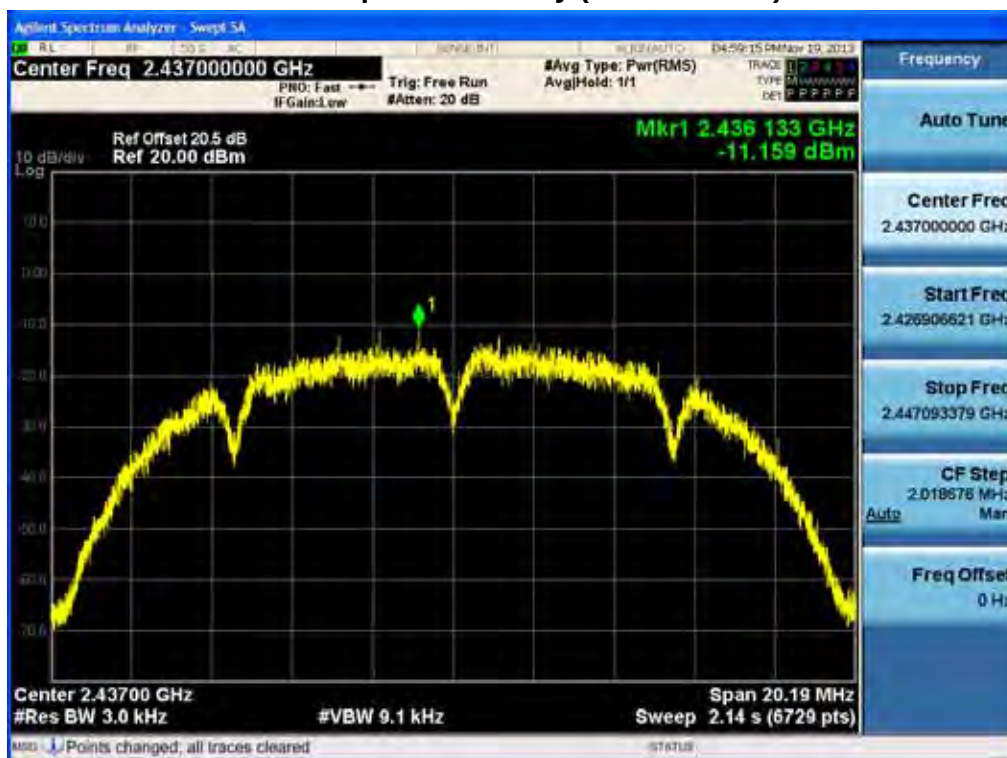


FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1312FR13-1	Date of Issue: January 02, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA303I

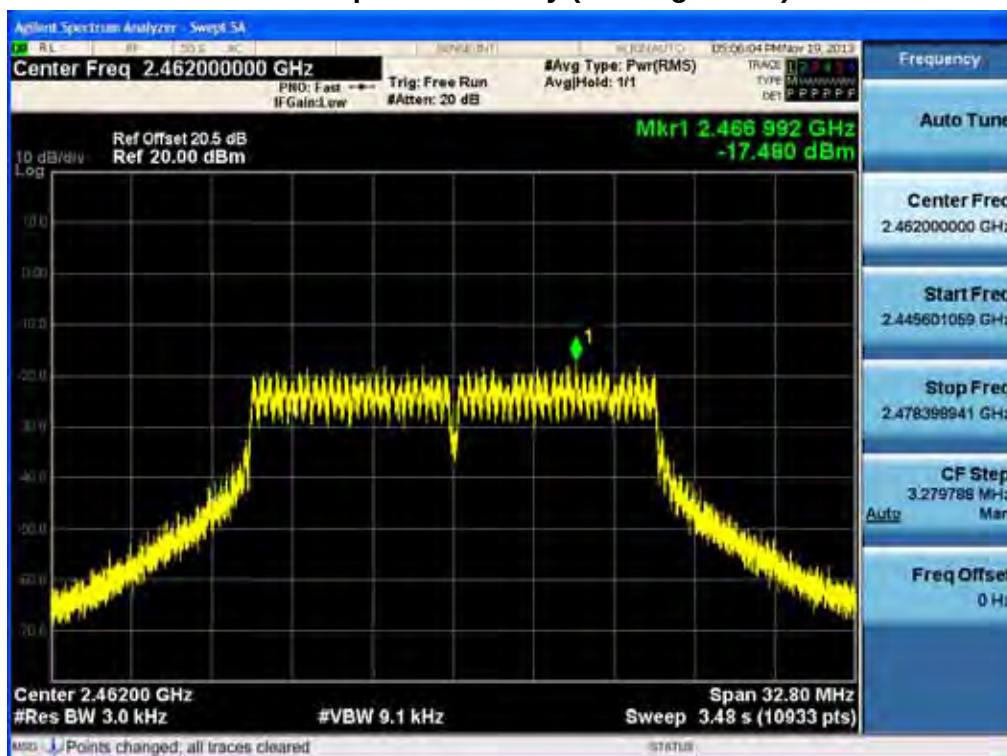
Service Port Ant.1

RESULT PLOTS

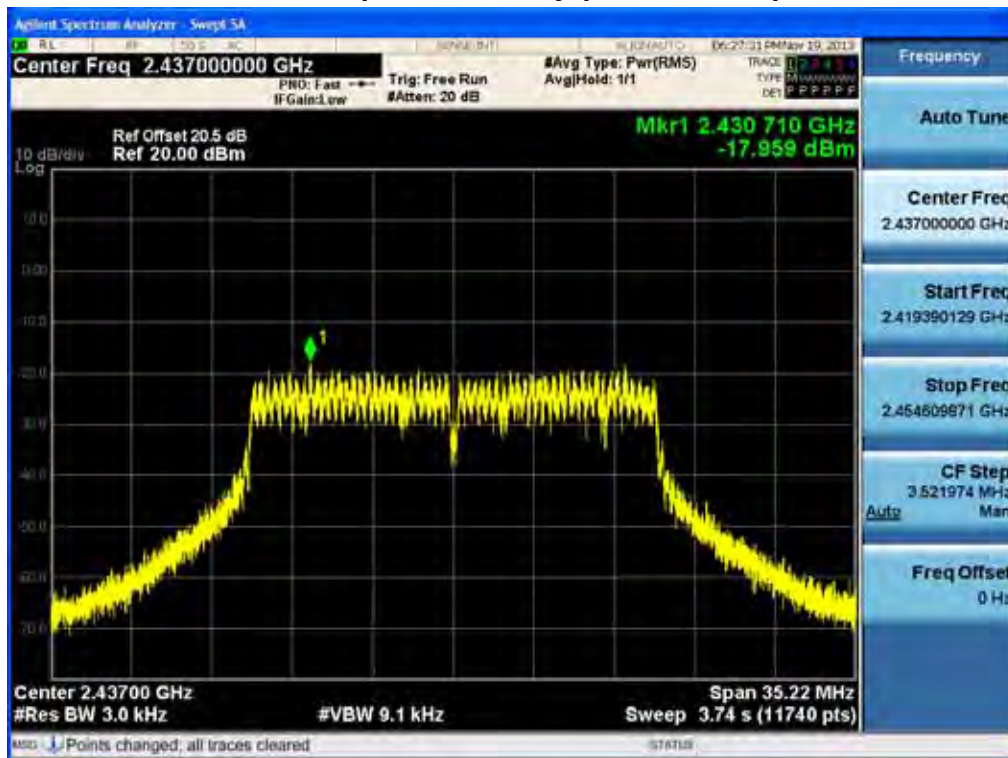
Power Spectral Density (802.11b-CH 6)



Power Spectral Density (802.11g-CH 11)

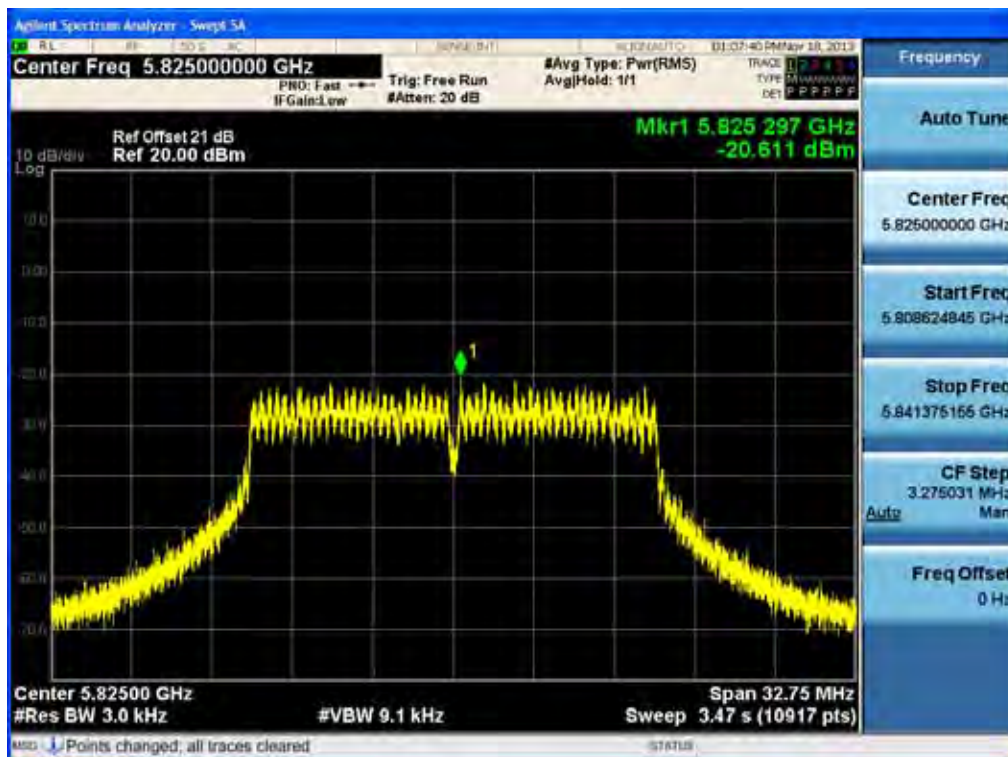


Power Spectral Density (802.11n-CH 6)



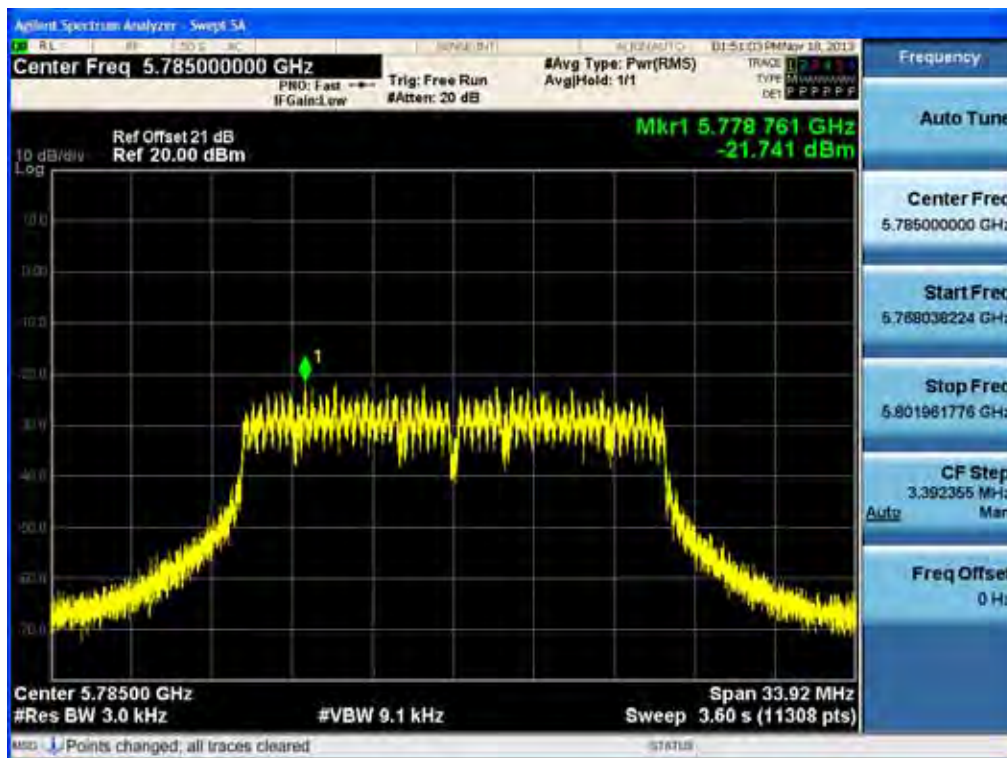
20 MHz BW

Power Spectral Density (802.11a-CH 165)



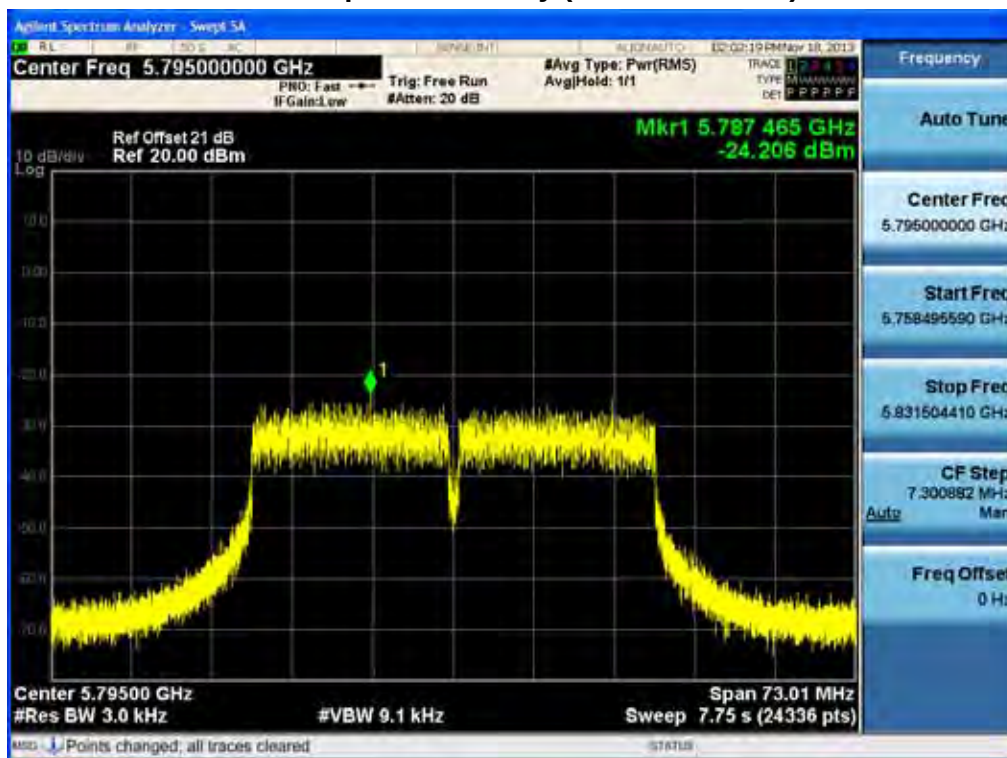
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Test Report No. HCTR1312FR13-1	Date of Issue: January 02, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA303I

Power Spectral Density (802.11n-CH 157)



40 MHz BW

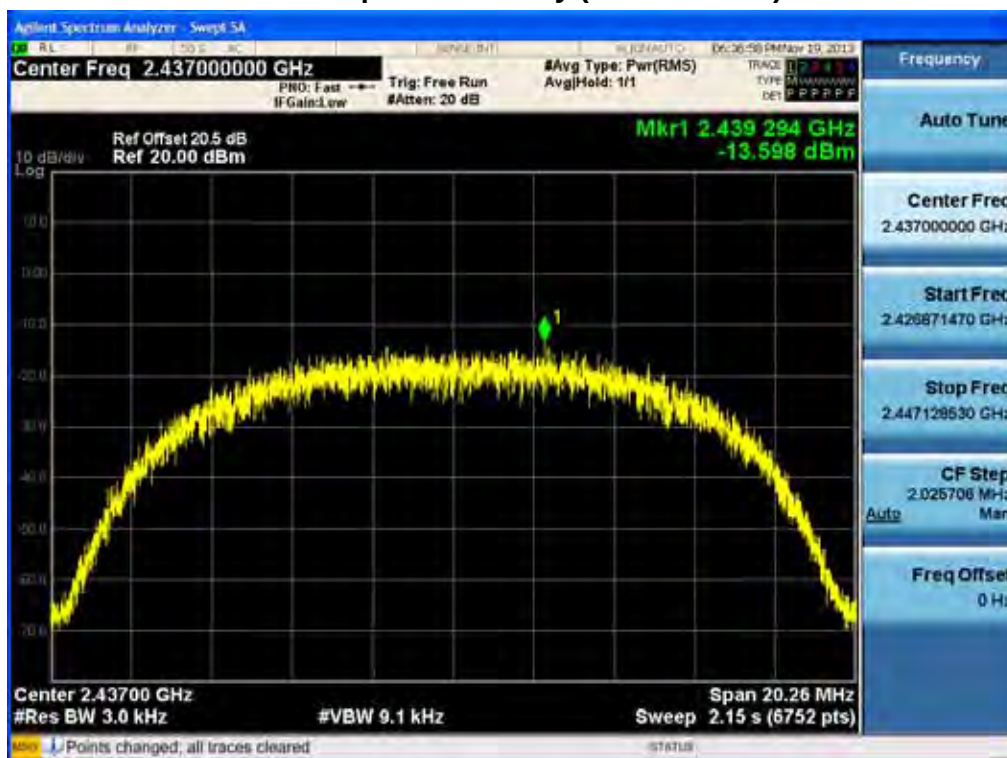
Power Spectral Density (802.11n-CH 159)



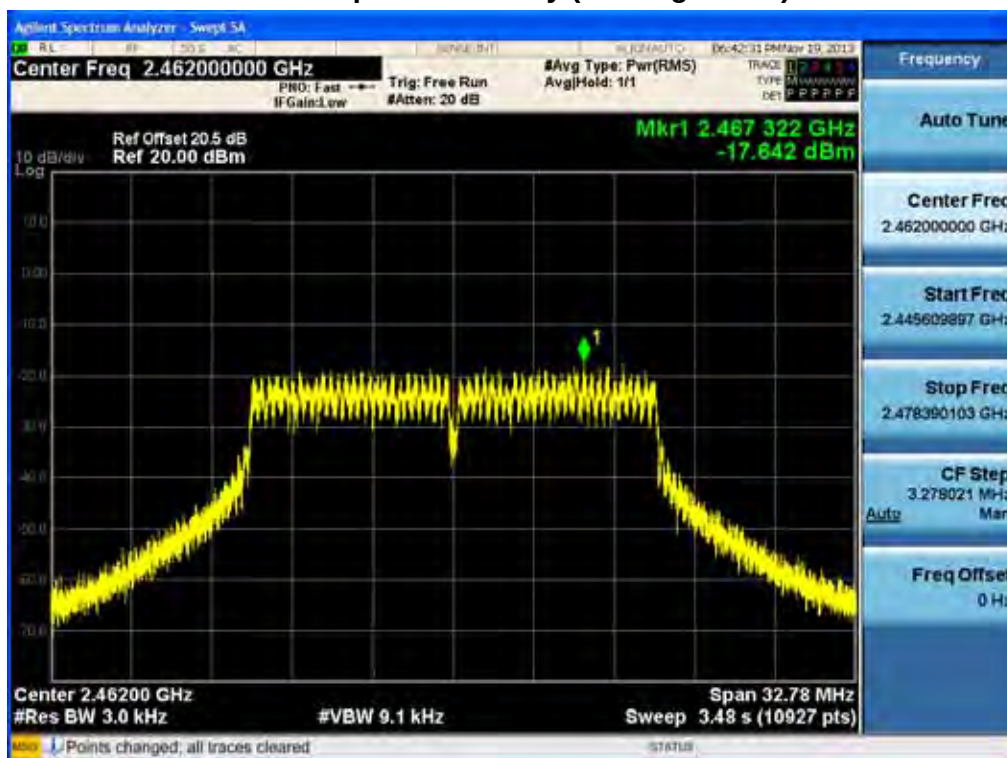
Service Port Ant.2

RESULT PLOTS

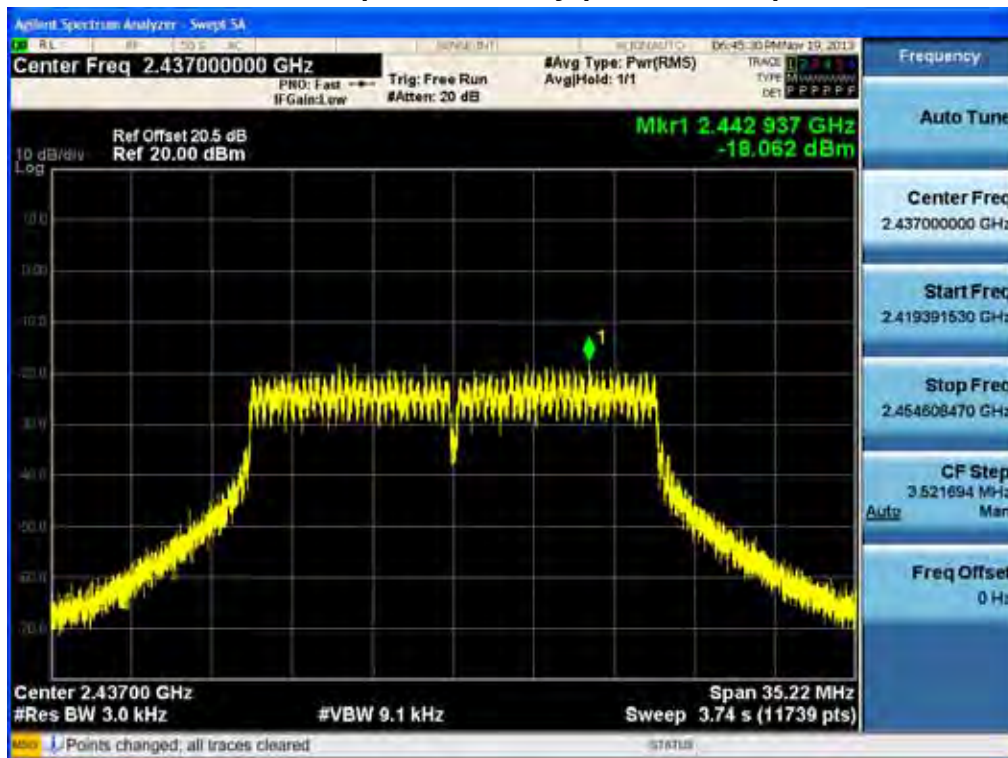
Power Spectral Density (802.11b-CH 6)



Power Spectral Density (802.11g-CH 11)

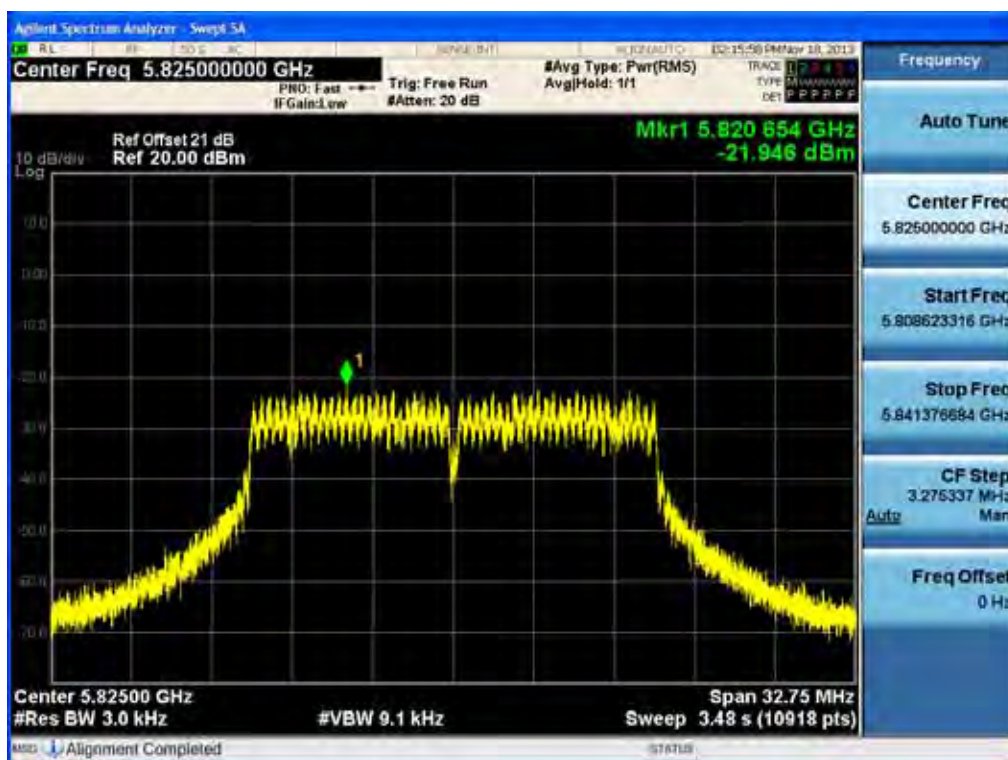


Power Spectral Density (802.11n-CH 6)



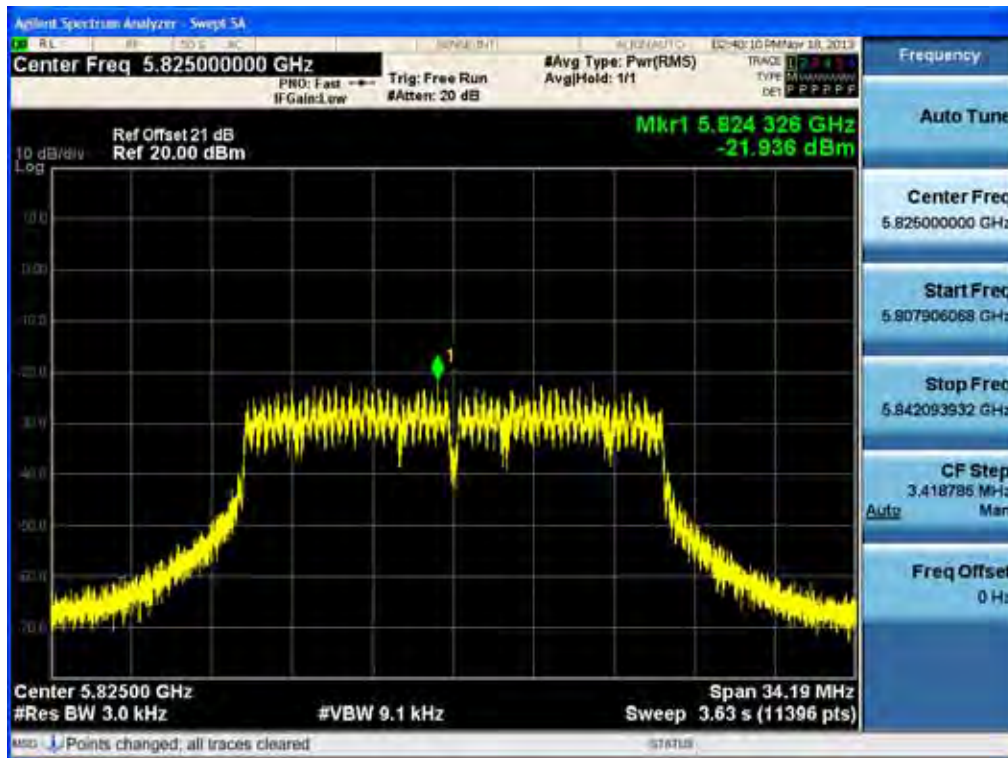
20 MHz BW

Power Spectral Density (802.11a-CH 165)



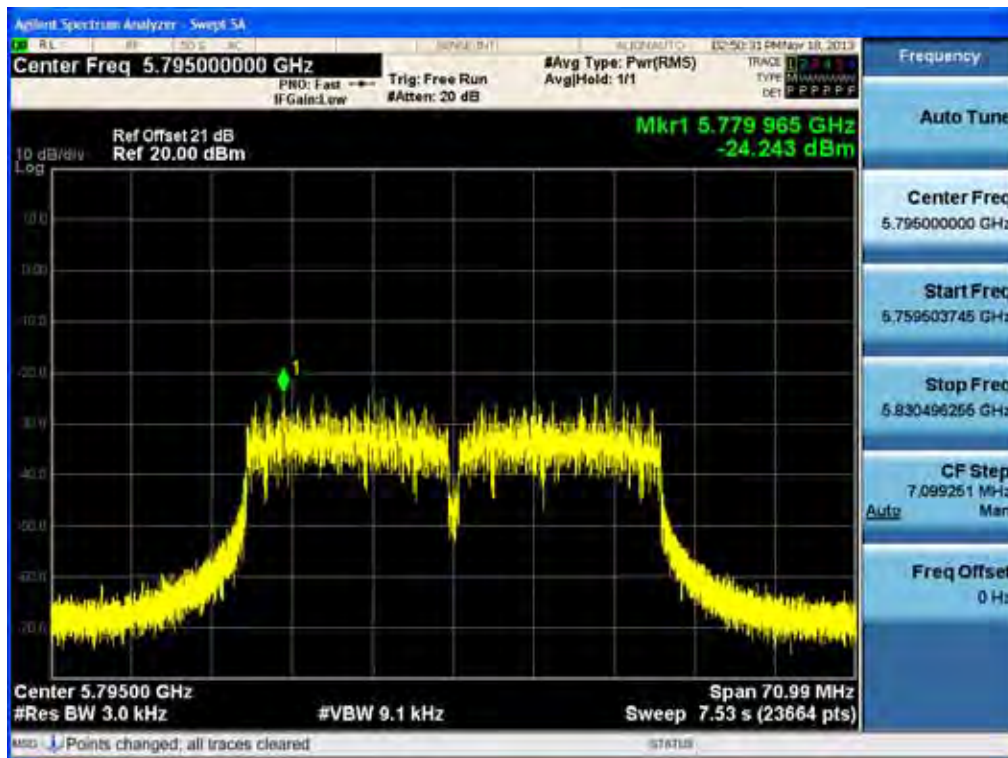
FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1312FR13-1	Date of Issue: January 02, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA303I

Power Spectral Density (802.11n-CH 165)



40 MHz BW

Power Spectral Density (802.11n-CH 159)

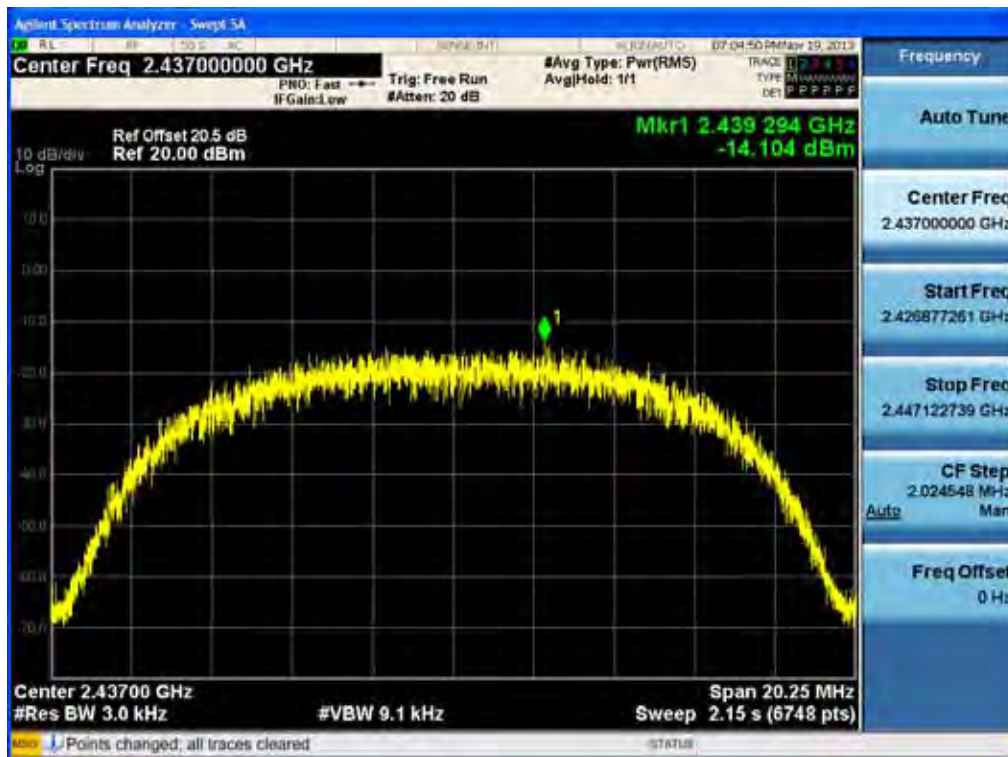


FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1312FR13-1	Date of Issue: January 02, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA303I

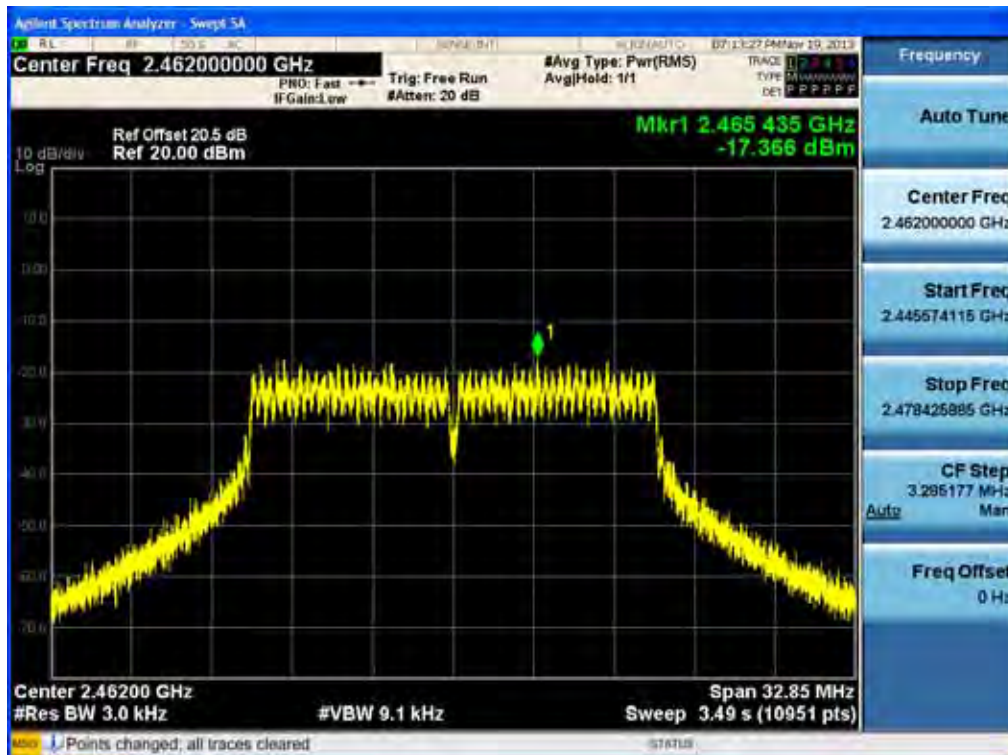
Service Port Ant.3

RESULT PLOTS

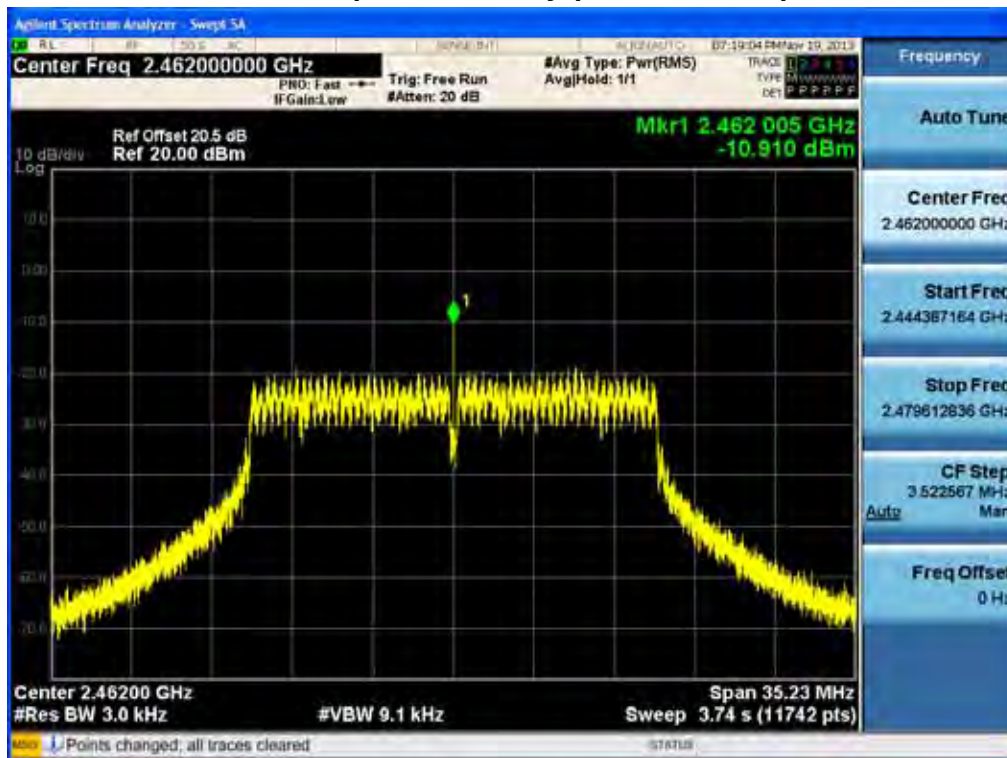
Power Spectral Density (802.11b-CH 6)



Power Spectral Density (802.11g-CH 11)

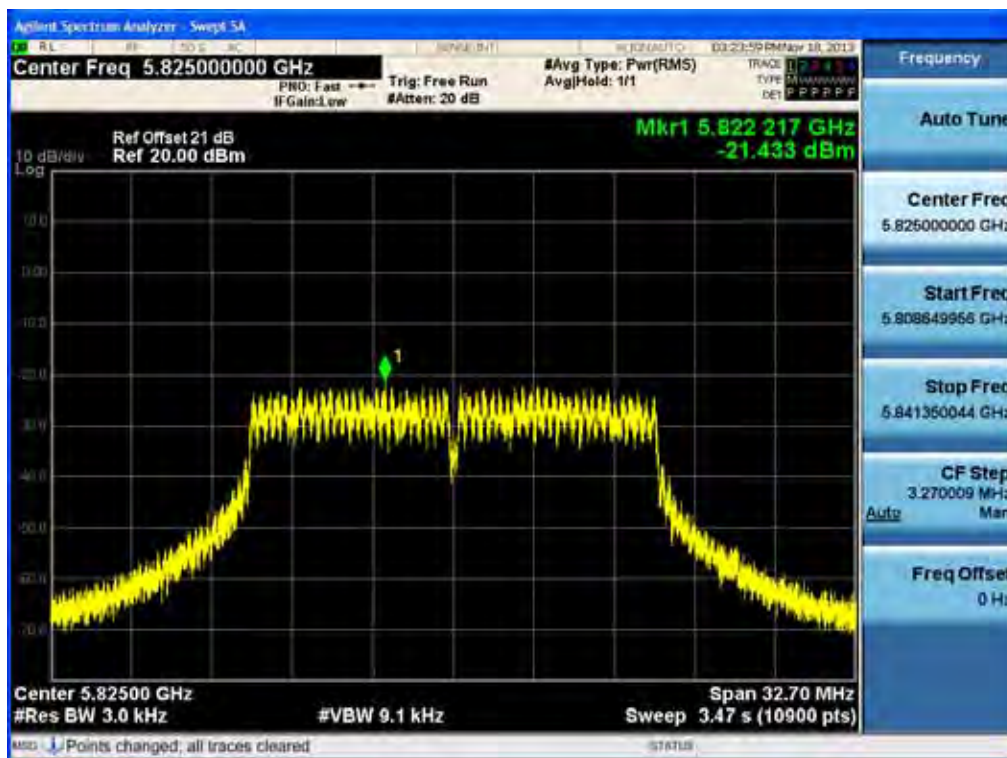


Power Spectral Density (802.11n-CH 11)



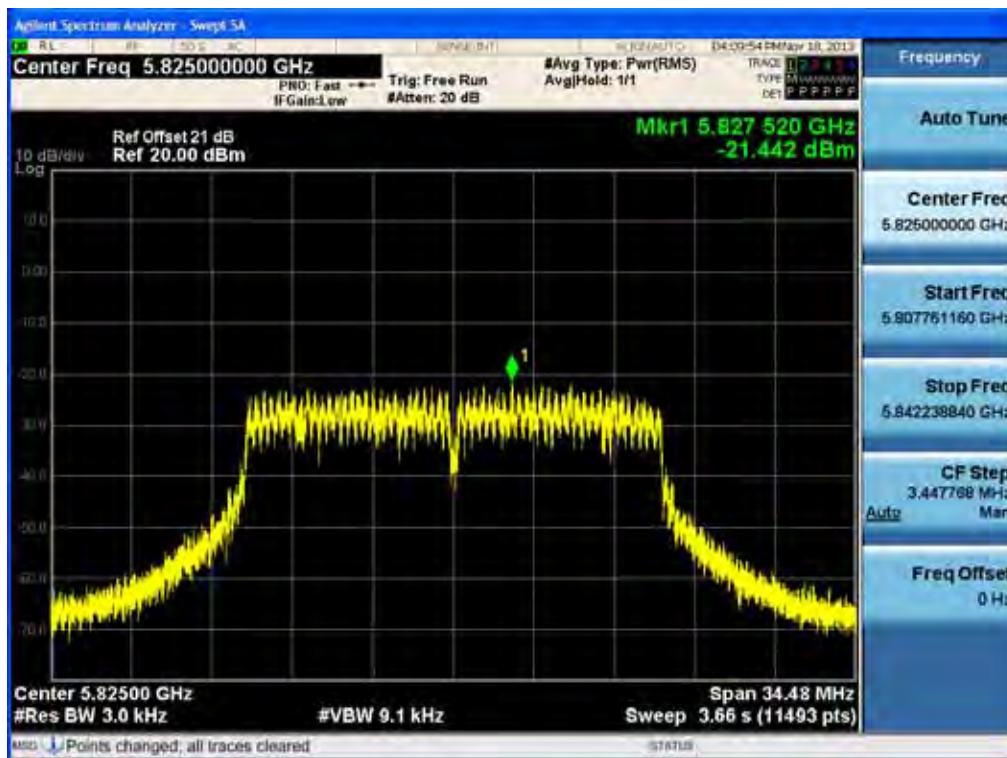
20 MHz BW

Power Spectral Density (802.11a-CH 165)



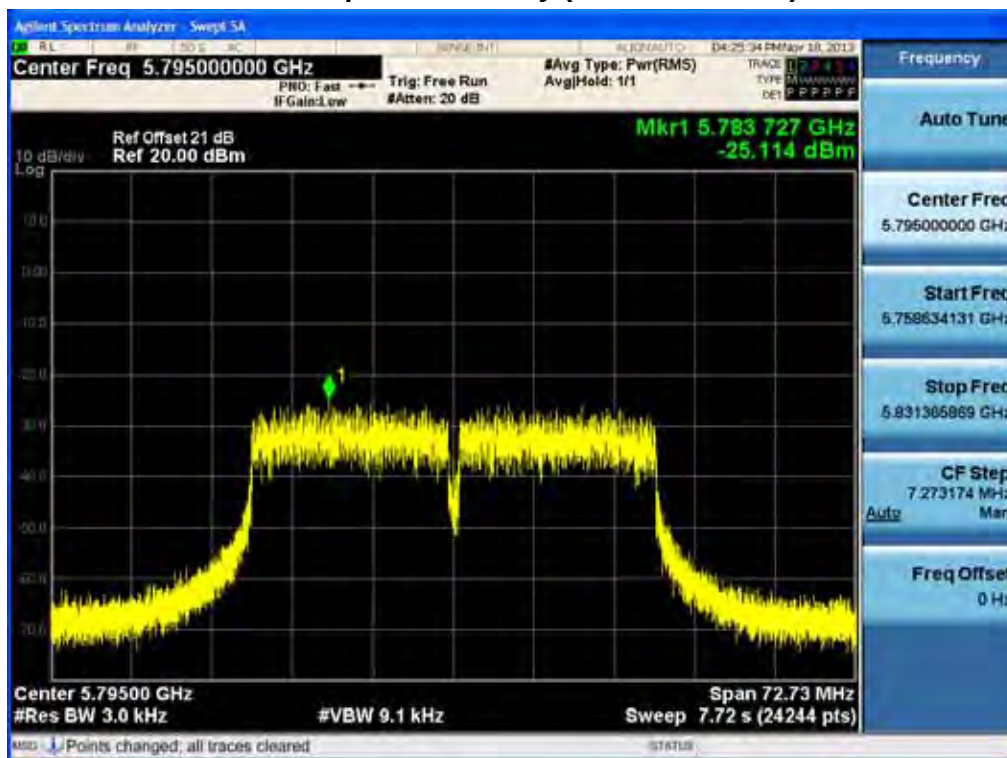
FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1312FR13-1	Date of Issue: January 02, 2014	EUT Type: WLAN Access Point	FCC ID: A3LWEA303I

Power Spectral Density (802.11n-CH 165)



40 MHz BW

Power Spectral Density (802.11n-CH 159)



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
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