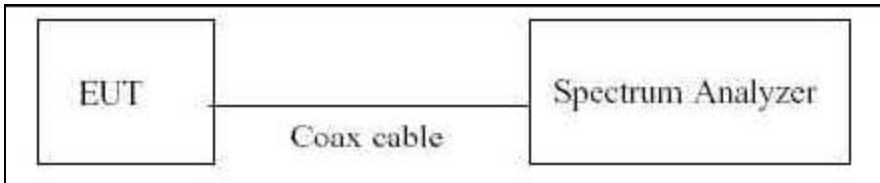


9.5 PEAK EXCURSION RATIO

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

■ TEST CONFIGURATION



■ TEST PROCEDURE

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

The spectrum analyzer is set to :

1. Span = Set the span to view the entire emission bandwidth.
2. RBW = 1 MHz
3. VBW $\geq$ 3 MHz
4. Detector Mode = Peak
5. Trace Mode = Max hold
6. Allow the sweeps to continue until the trace stabilizes.
7. Use the peak search function to find the peak of the spectrum.
8. Use the procedure to measure the PPSP
9. Compute the ratio of the maximum of the peak-max-hold spectrum to the PPSP.

Note :

1. The PSD results in plot is already including the actual values of loss for the attenuator and cable combination.
2. Spectrum offset = Attenuator loss + Cable loss
3. We apply to the offset in the UNII 2/2e band that was rounded off to the closest tenth dB. 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)
UNII 2	21.0
UNII 2e	21.0

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

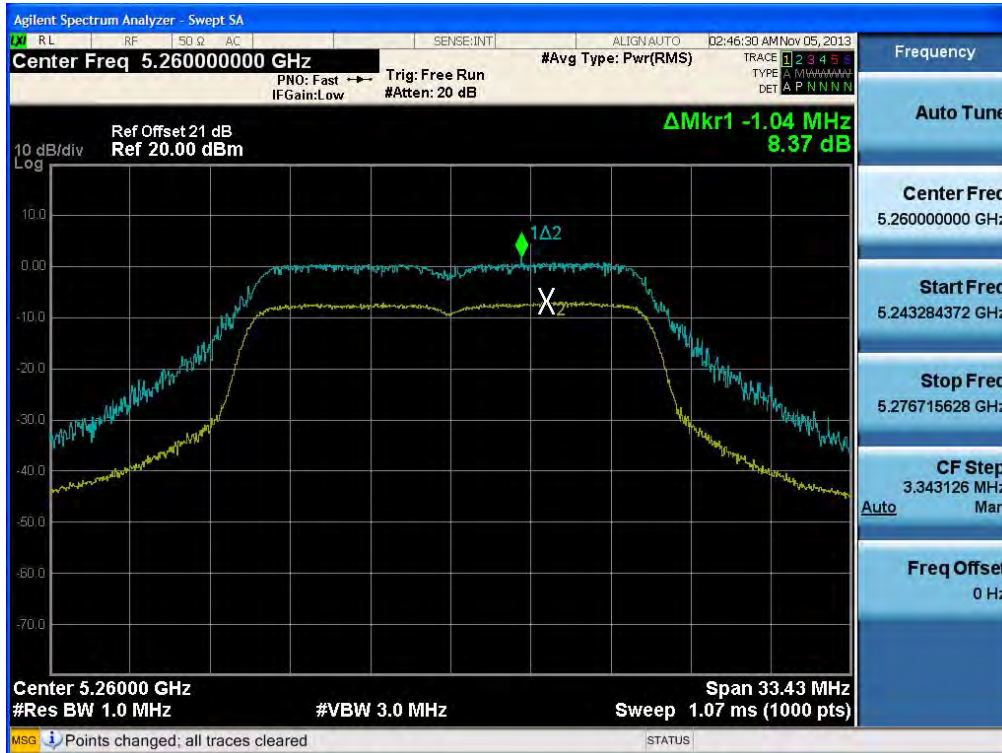
FCC PT.15.407 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1311FR03	Date of Issue: November 06, 2013	EUT Type: WLAN Access Point	FCC ID: A3LWEA303I

Monitoring Port Ant.1

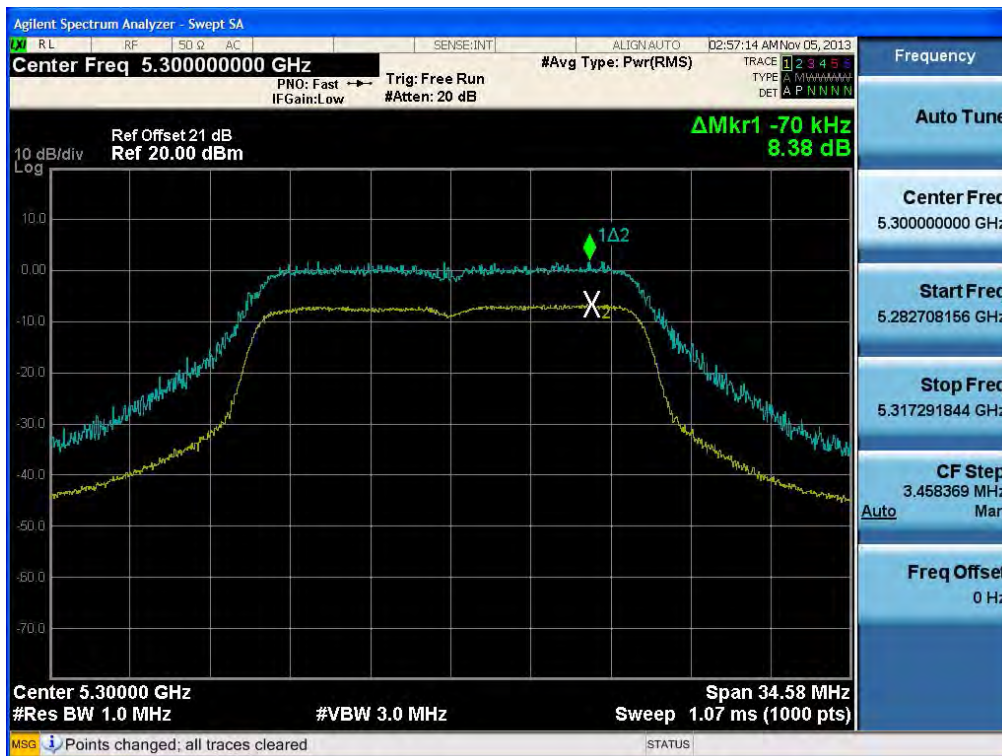
RESULT PLOTS

20 MHz BW

Peak Excursion Ratio (802.11a-CH 52)

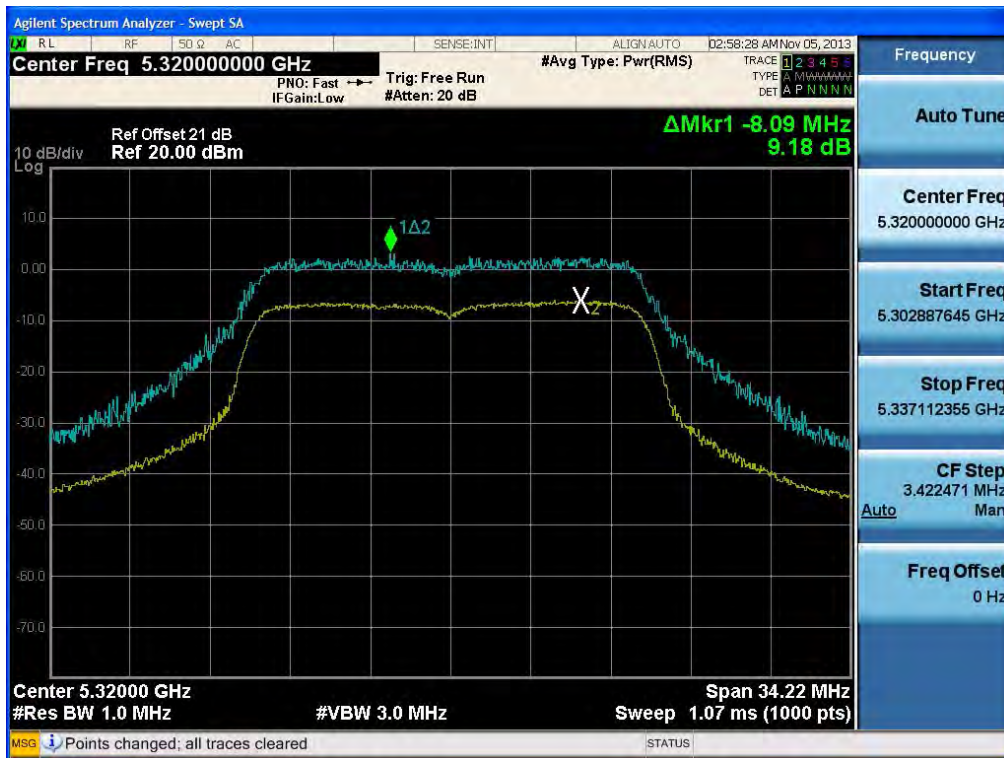


Peak Excursion Ratio (802.11a-CH 60)

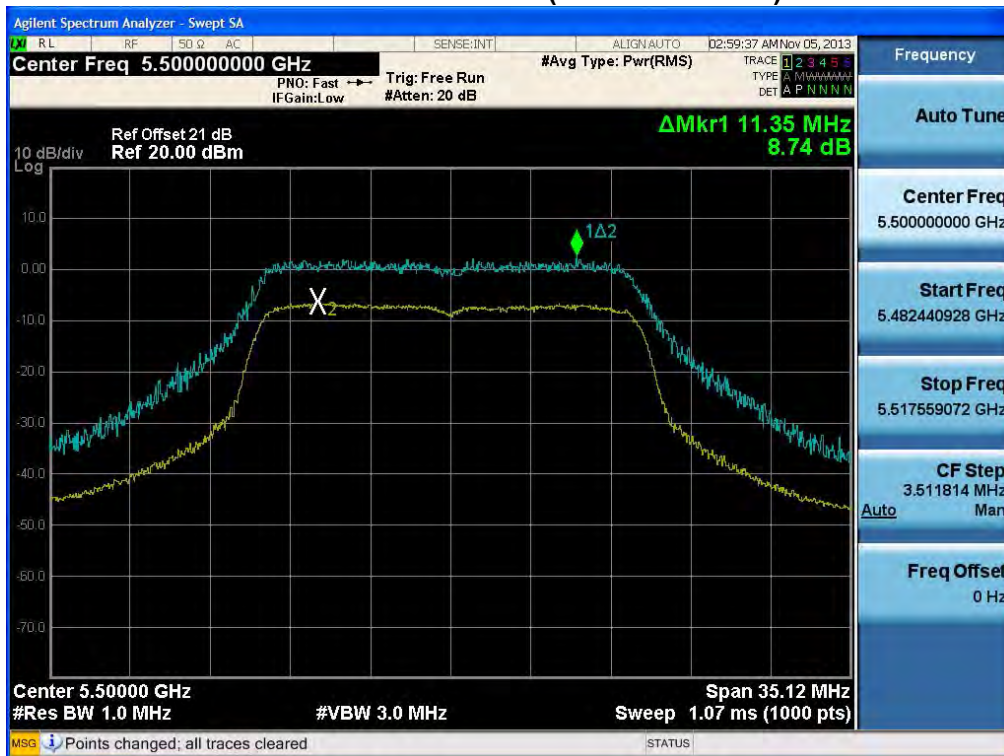


FCC PT.15.407 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1311FR03	Date of Issue: November 06, 2013	EUT Type: WLAN Access Point	FCC ID: A3LWEA303I

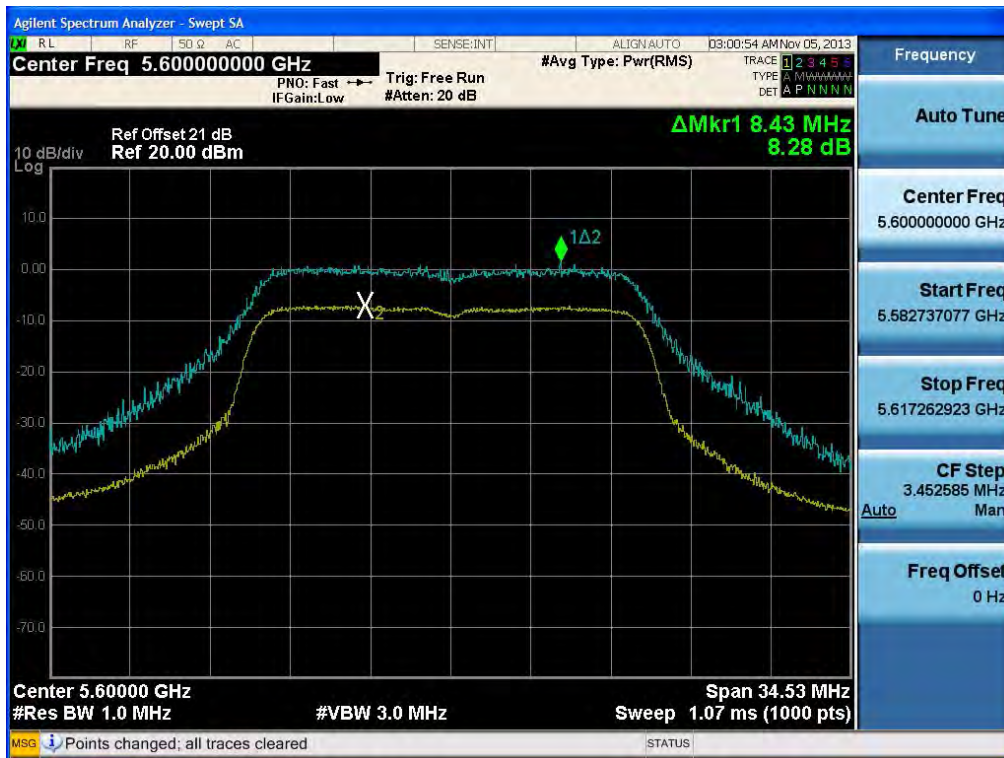
Peak Excursion Ratio (802.11a-CH 64)



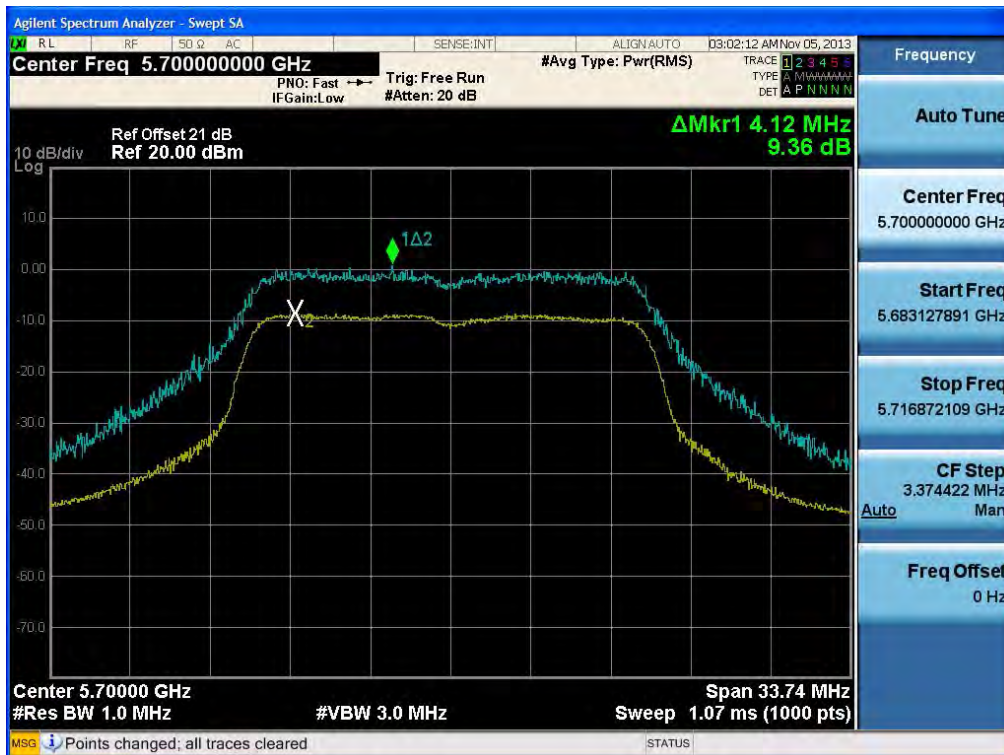
Peak Excursion Ratio (802.11a-CH 100)



Peak Excursion Ratio (802.11a-CH 120)



Peak Excursion Ratio (802.11a-CH 140)

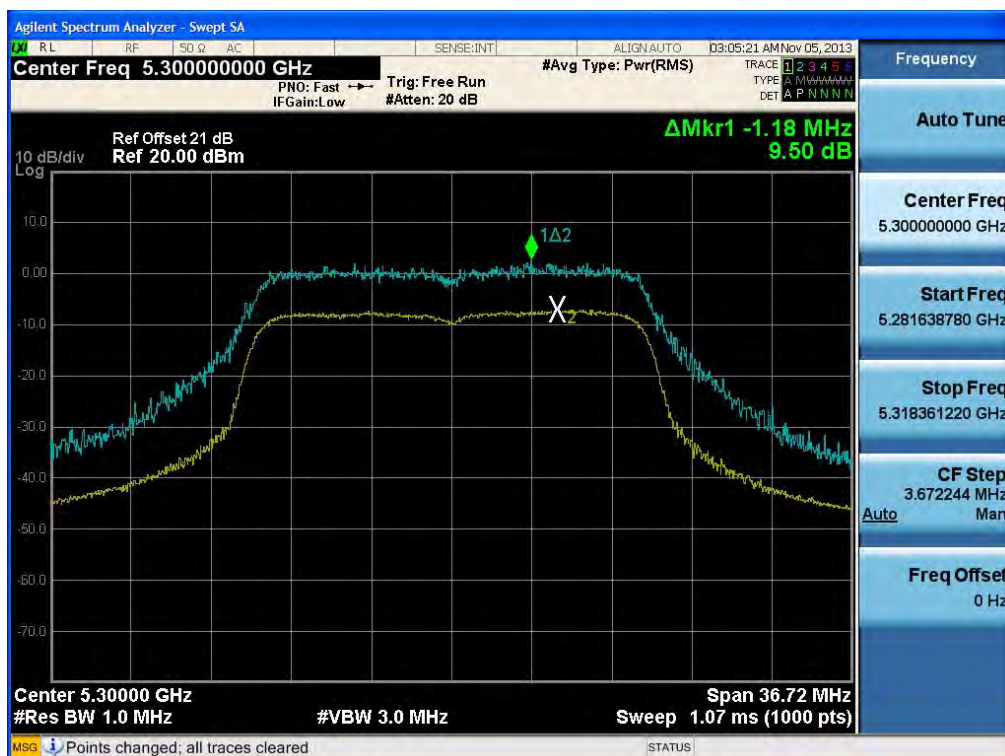


FCC PT.15.407 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1311FR03	Date of Issue: November 06, 2013	EUT Type: WLAN Access Point	FCC ID: A3LWEA303I

Peak Excursion Ratio (802.11n-CH 52)



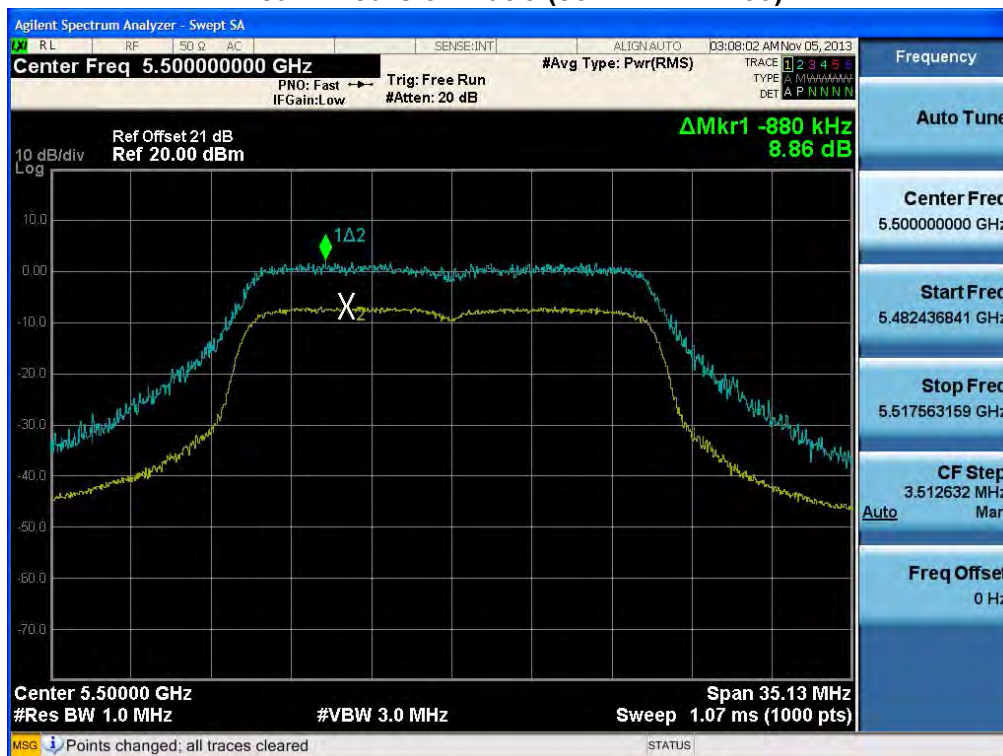
Peak Excursion Ratio (802.11n-CH 60)



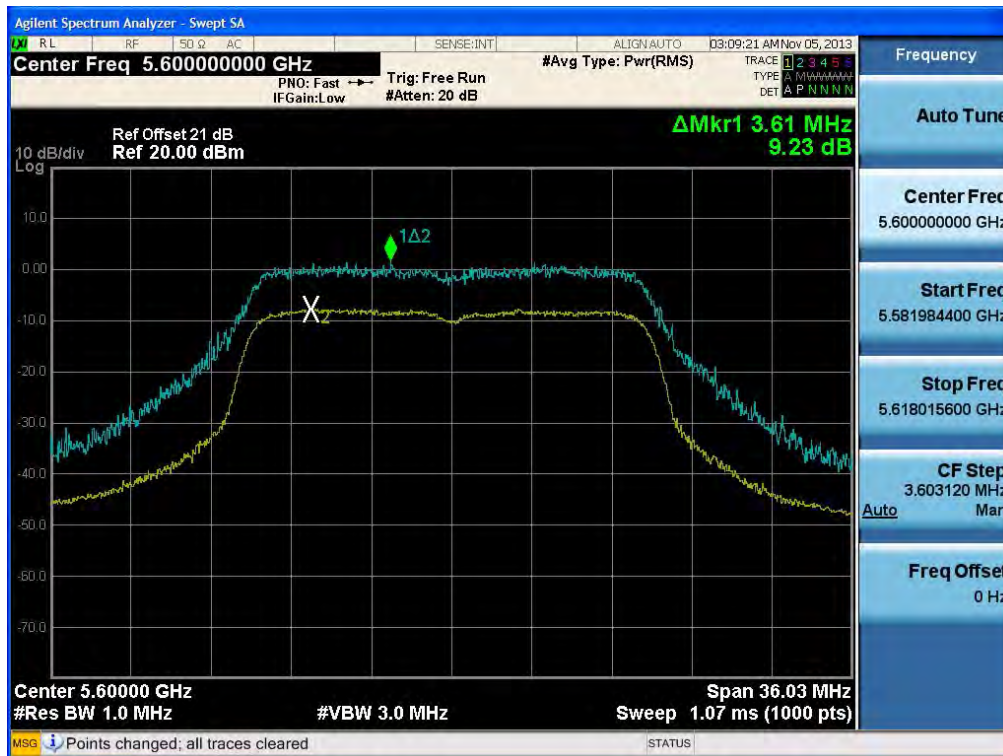
Peak Excursion Ratio (802.11n-CH 64)



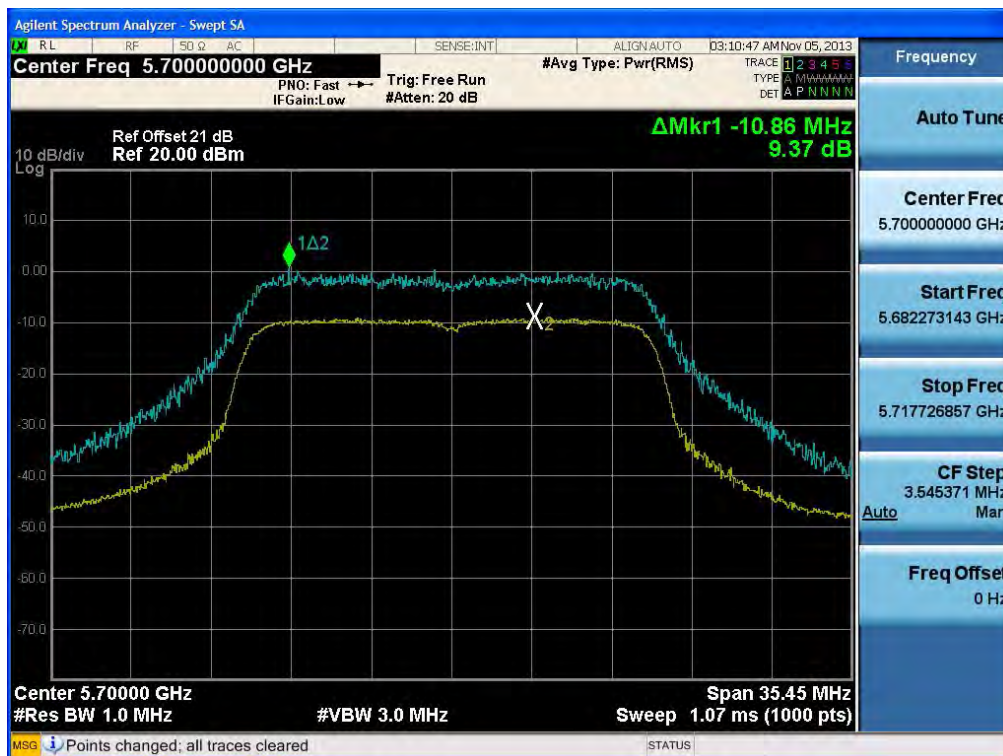
Peak Excursion Ratio (802.11n-CH 100)



Peak Excursion Ratio (802.11n-CH 120)

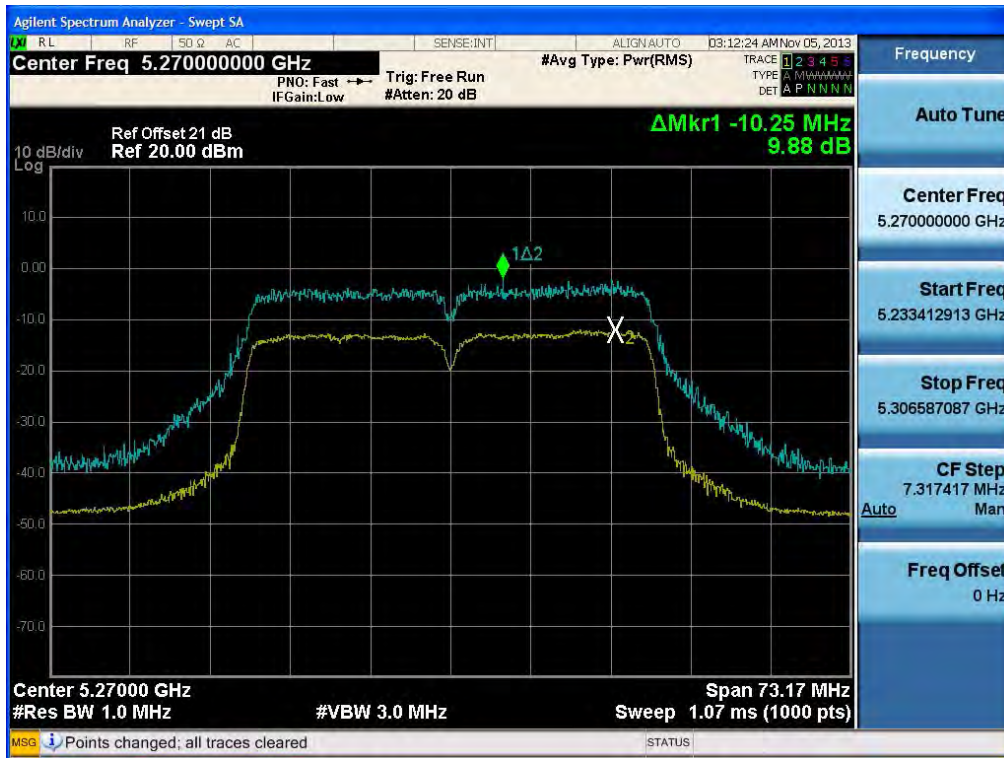


Peak Excursion Ratio (802.11n-CH 140)



40MHz BW

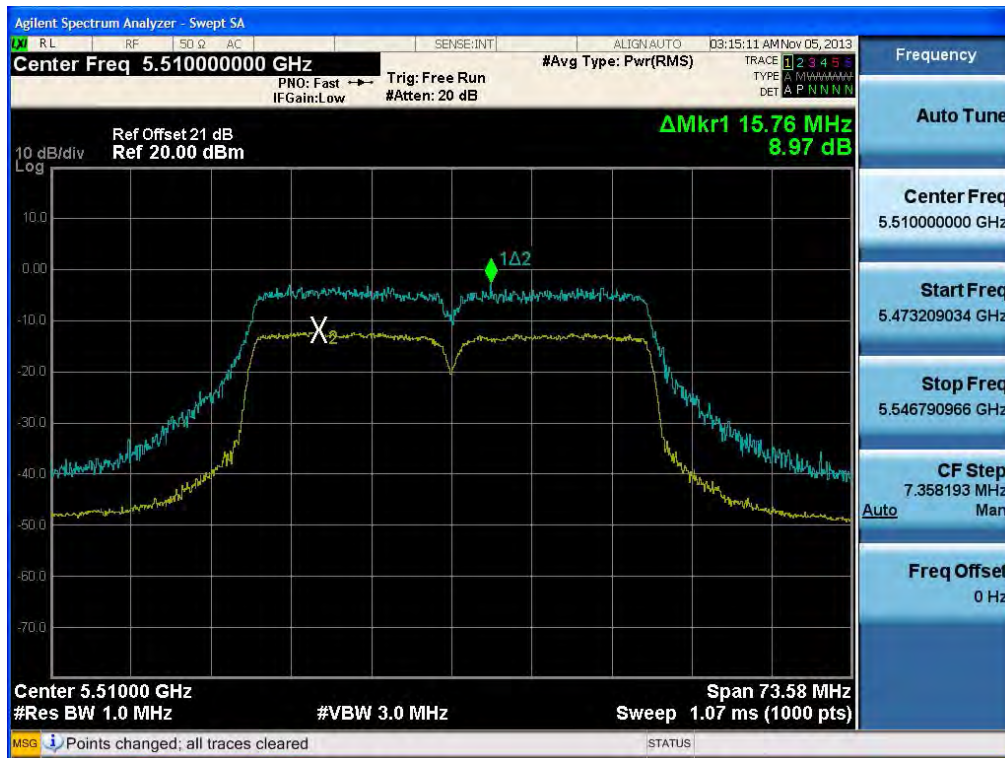
Peak Excursion Ratio (802.11n-CH 54)



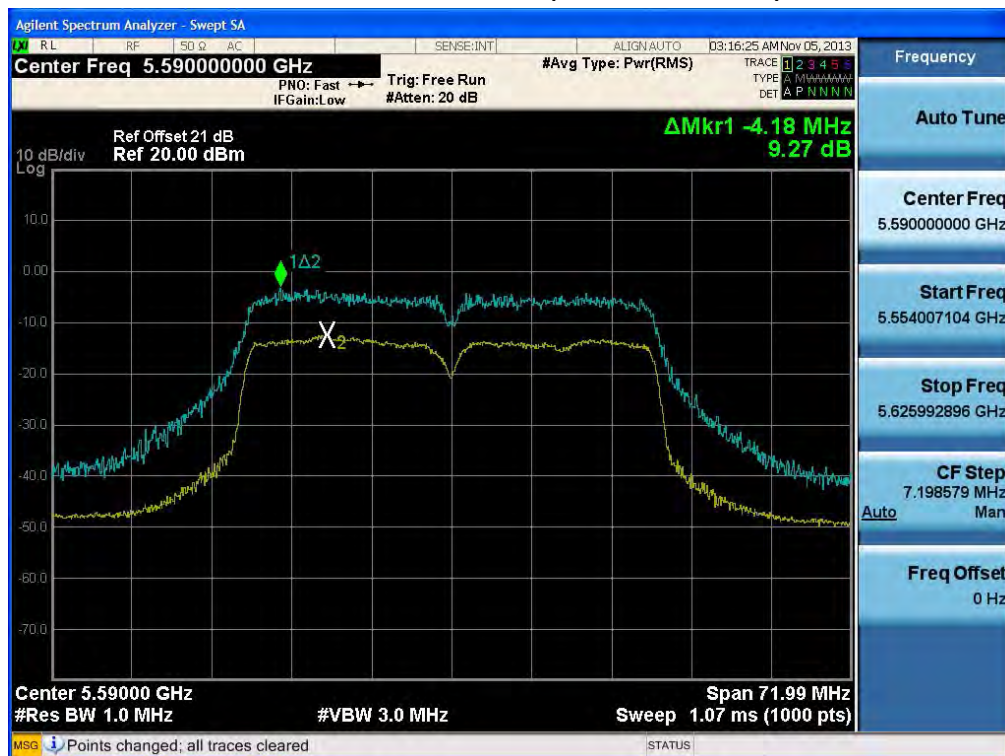
Peak Excursion Ratio (802.11n-CH 62)



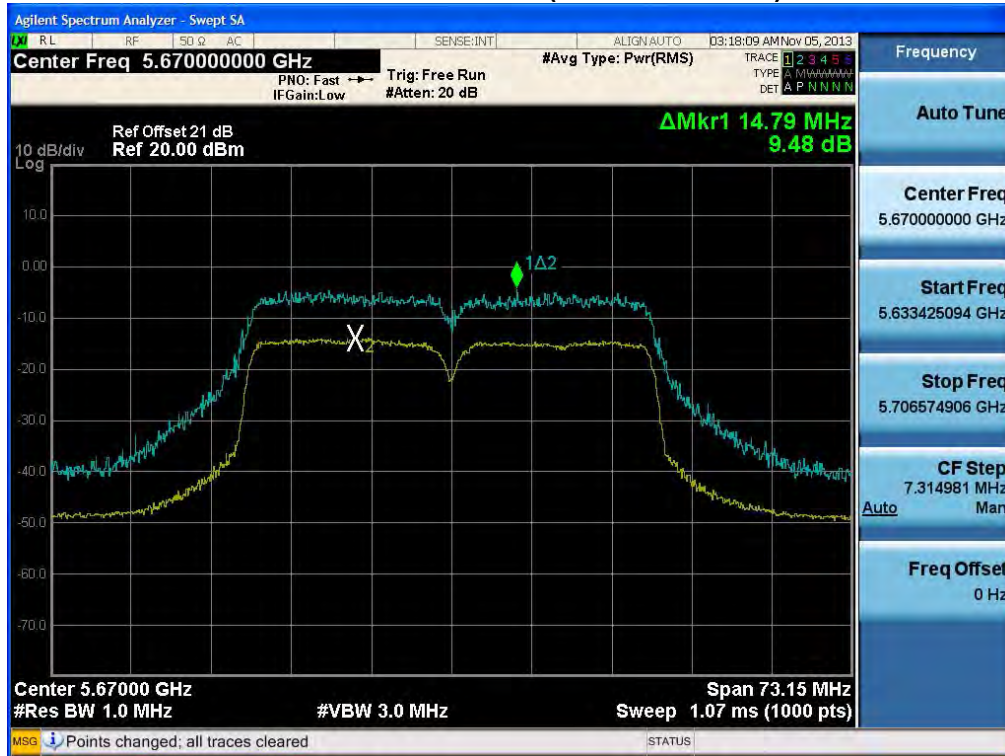
Peak Excursion Ratio (802.11n-CH 102)



Peak Excursion Ratio (802.11n-CH 118)



Peak Excursion Ratio (802.11n-CH 134)



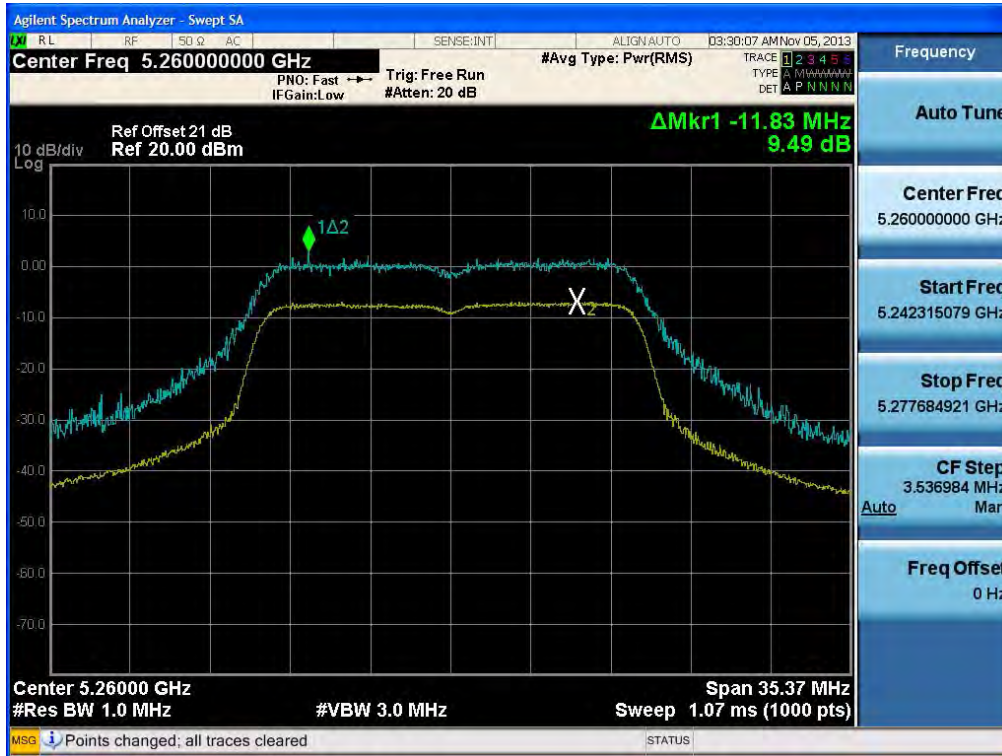
FCC PT.15.407 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1311FR03	Date of Issue: November 06, 2013	EUT Type: WLAN Access Point	FCC ID: A3LWEA303I

Monitoring Port Ant.2

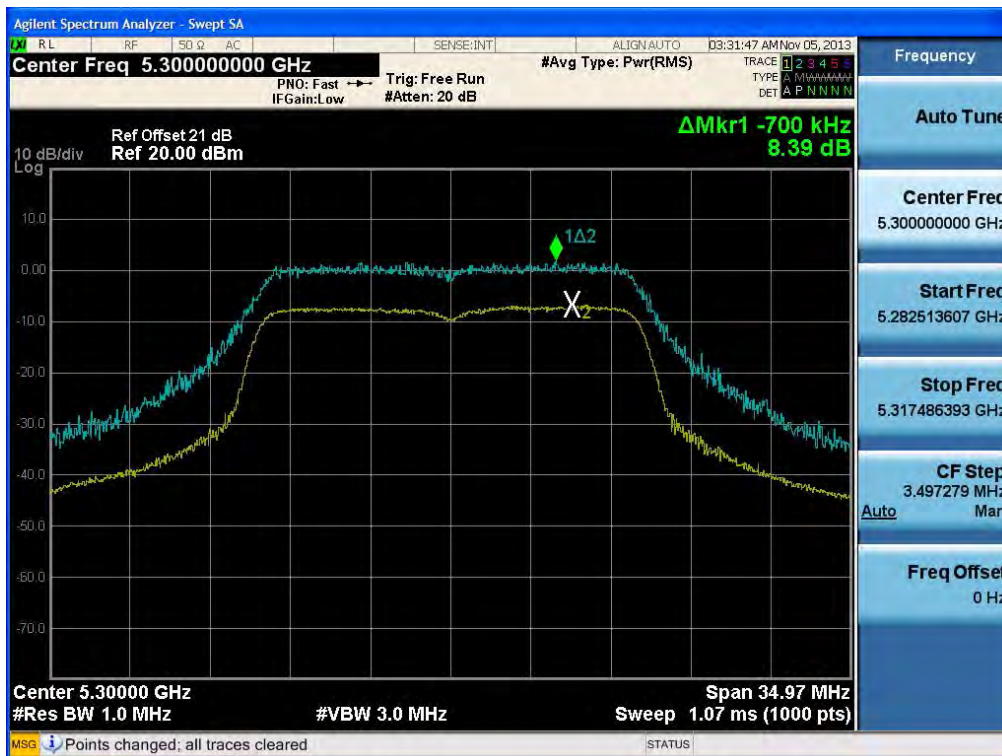
RESULT PLOTS

20 MHz BW

Peak Excursion Ratio (802.11a-CH 52)

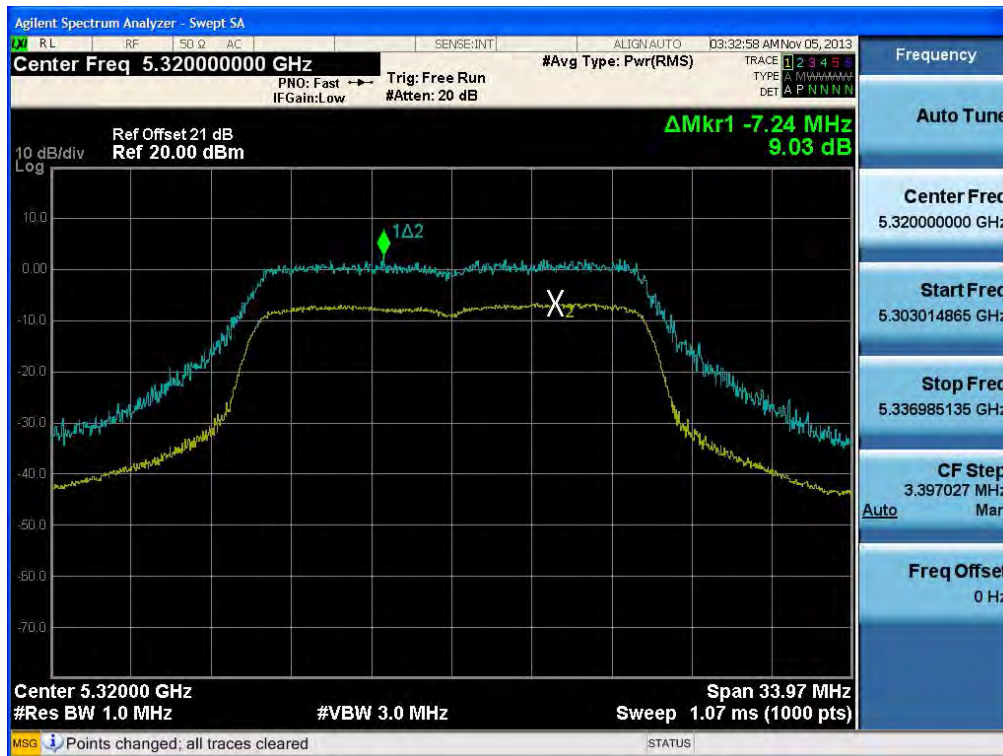


Peak Excursion Ratio (802.11a-CH 60)

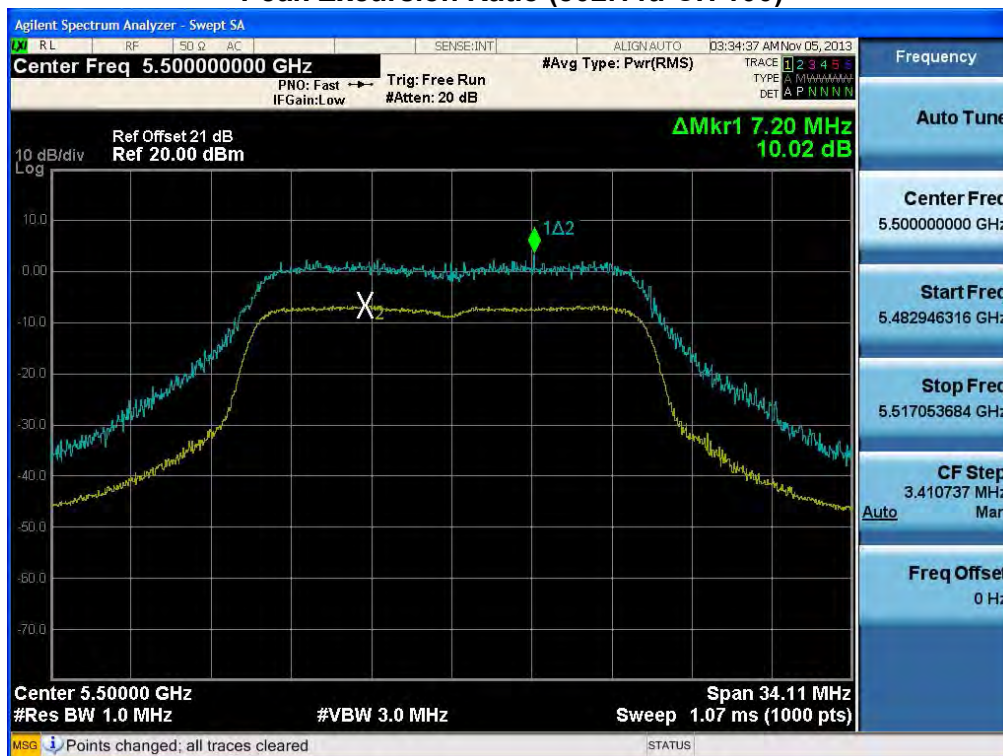


FCC PT.15.407 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1311FR03	Date of Issue: November 06, 2013	EUT Type: WLAN Access Point	FCC ID: A3LWEA303I

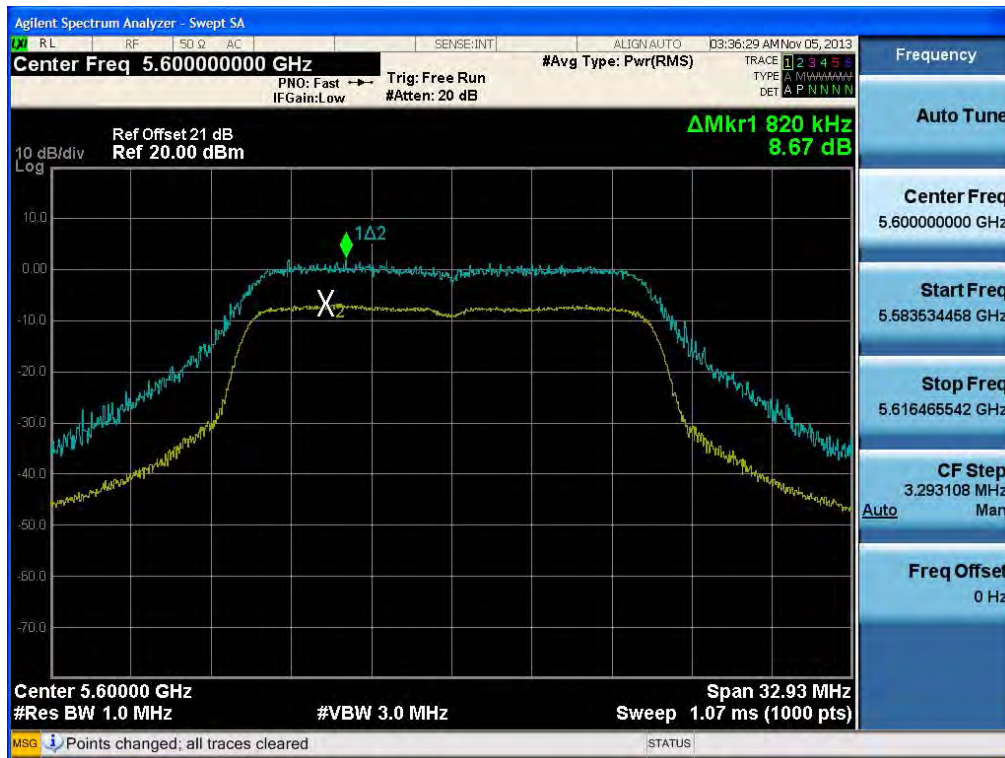
Peak Excursion Ratio (802.11a-CH 64)



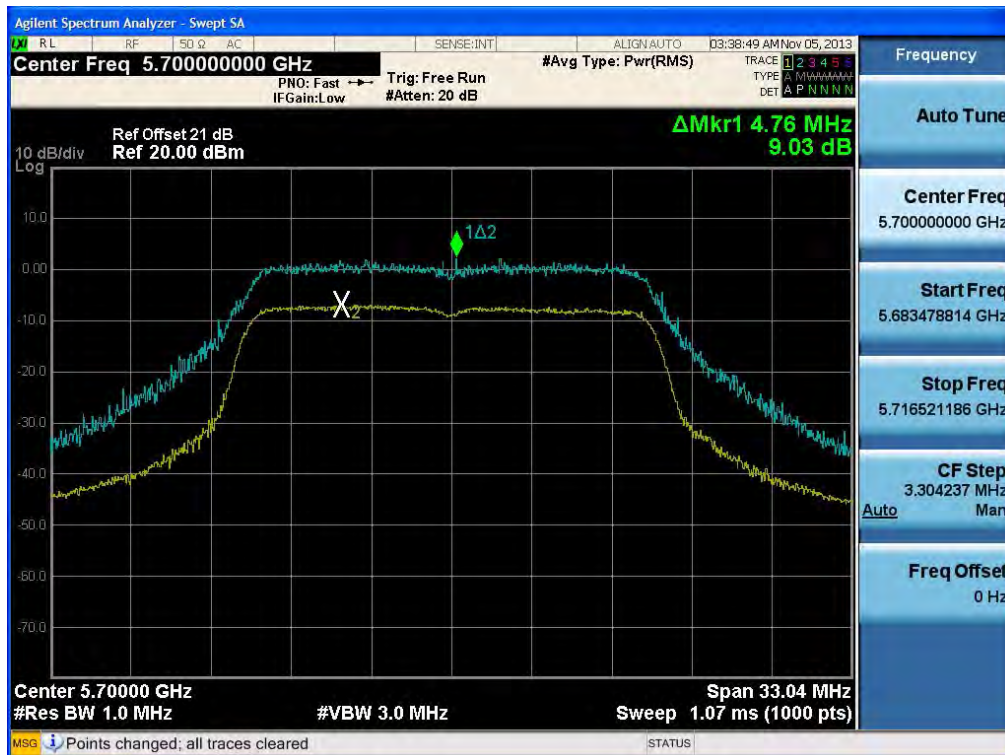
Peak Excursion Ratio (802.11a-CH 100)



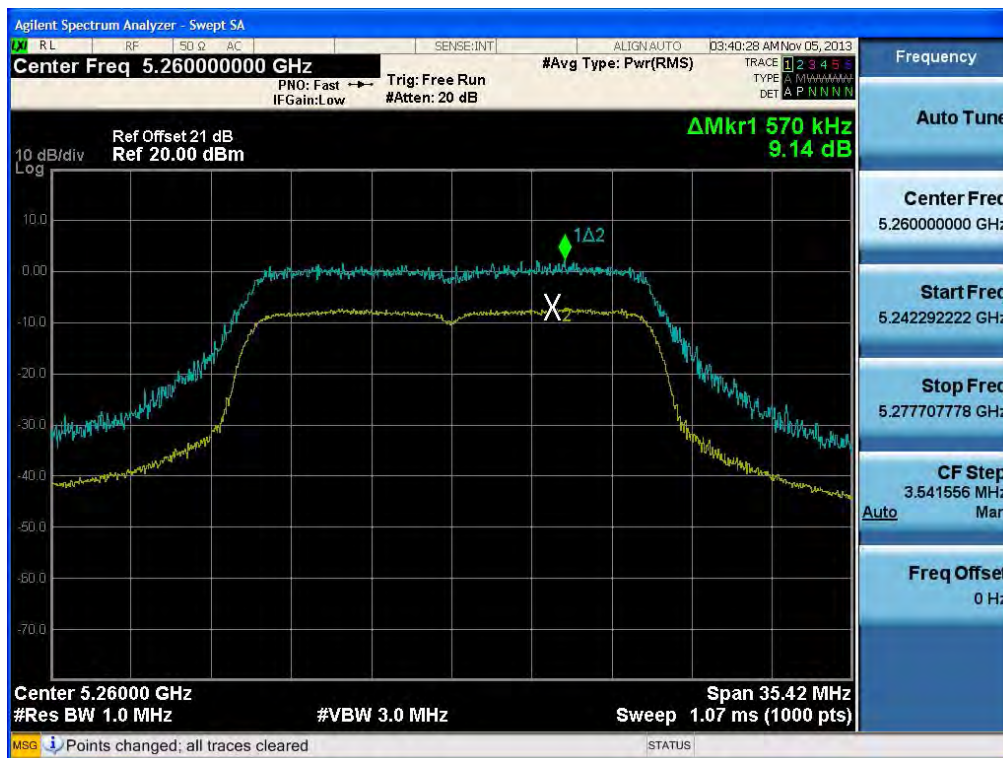
Peak Excursion Ratio (802.11a-CH 120)



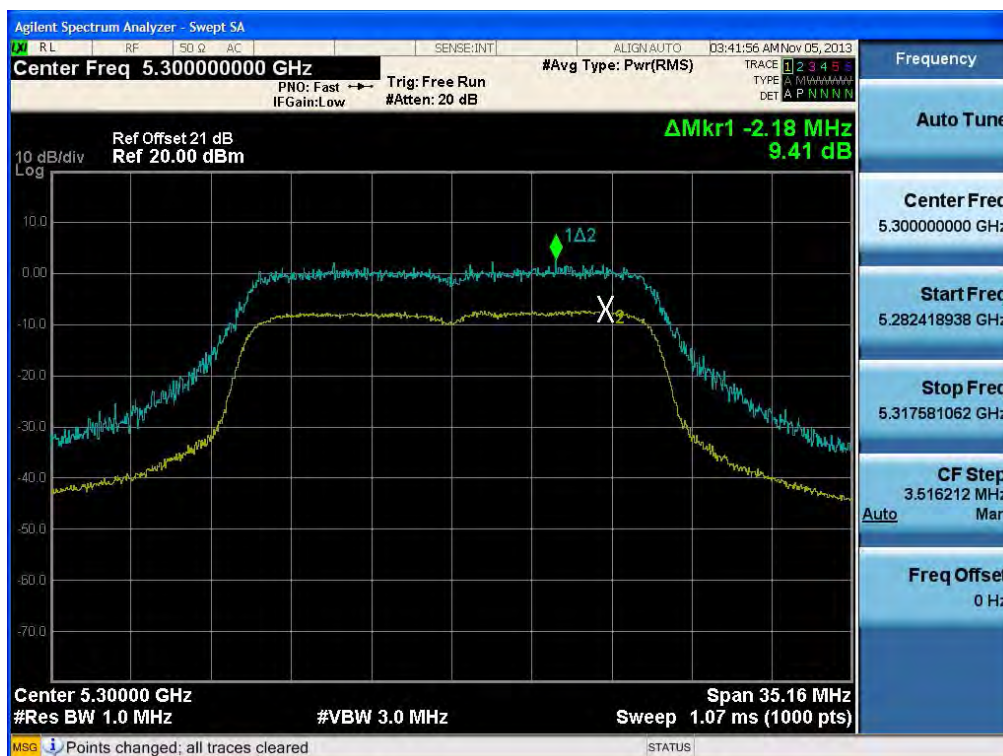
Peak Excursion Ratio (802.11a-CH 140)



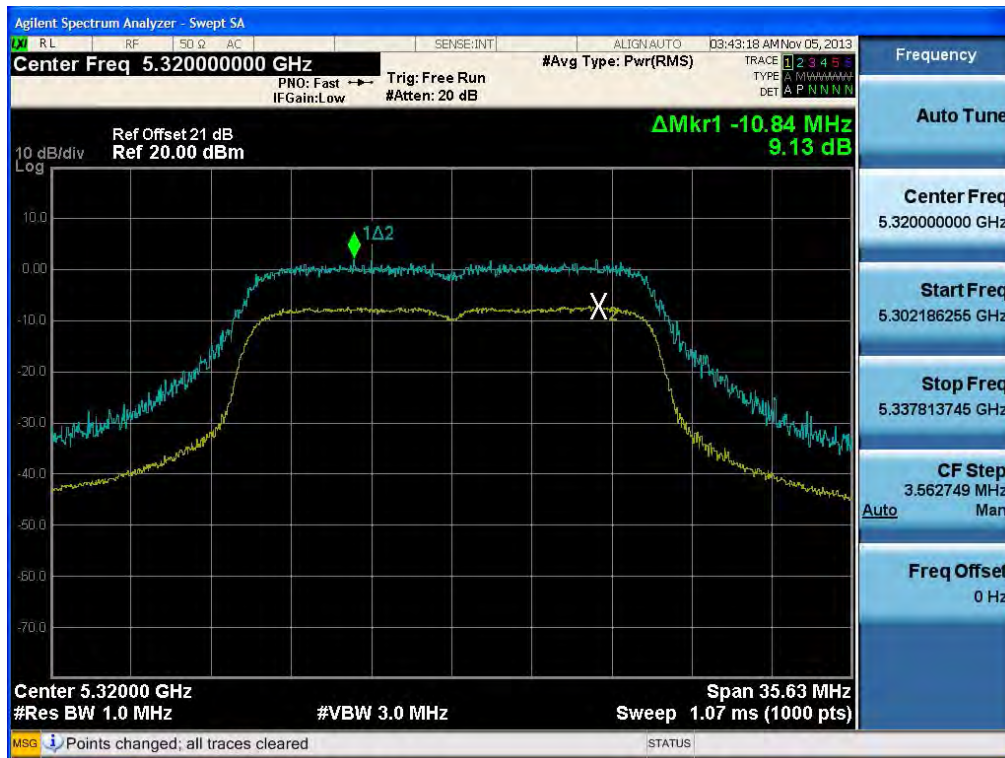
Peak Excursion Ratio (802.11n-CH 52)



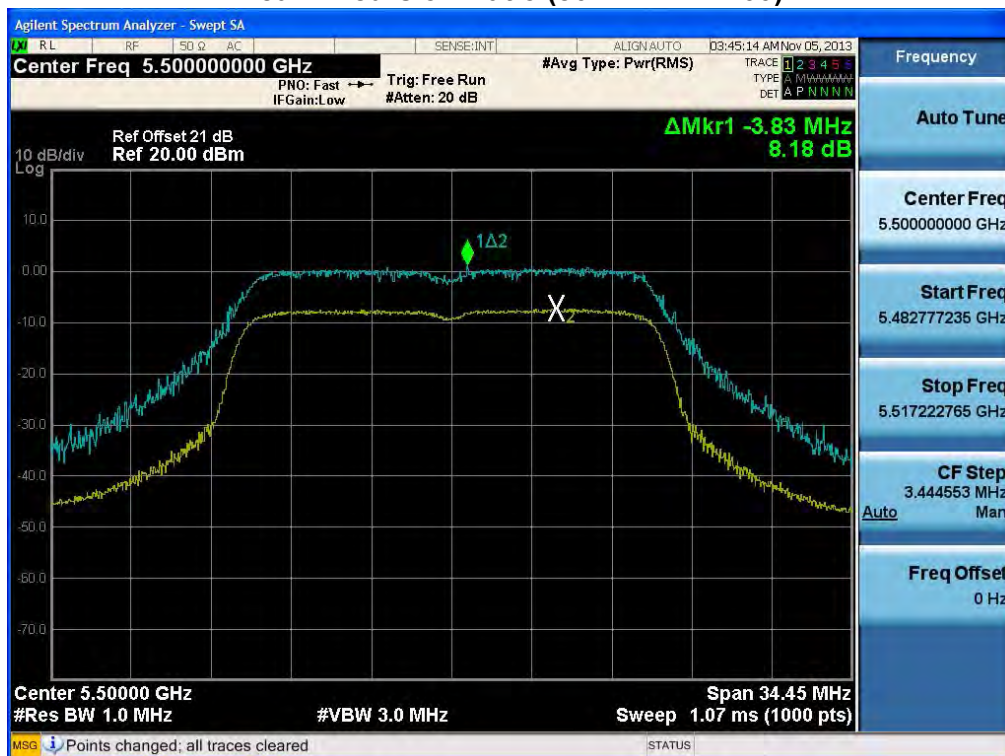
Peak Excursion Ratio (802.11n-CH 60)



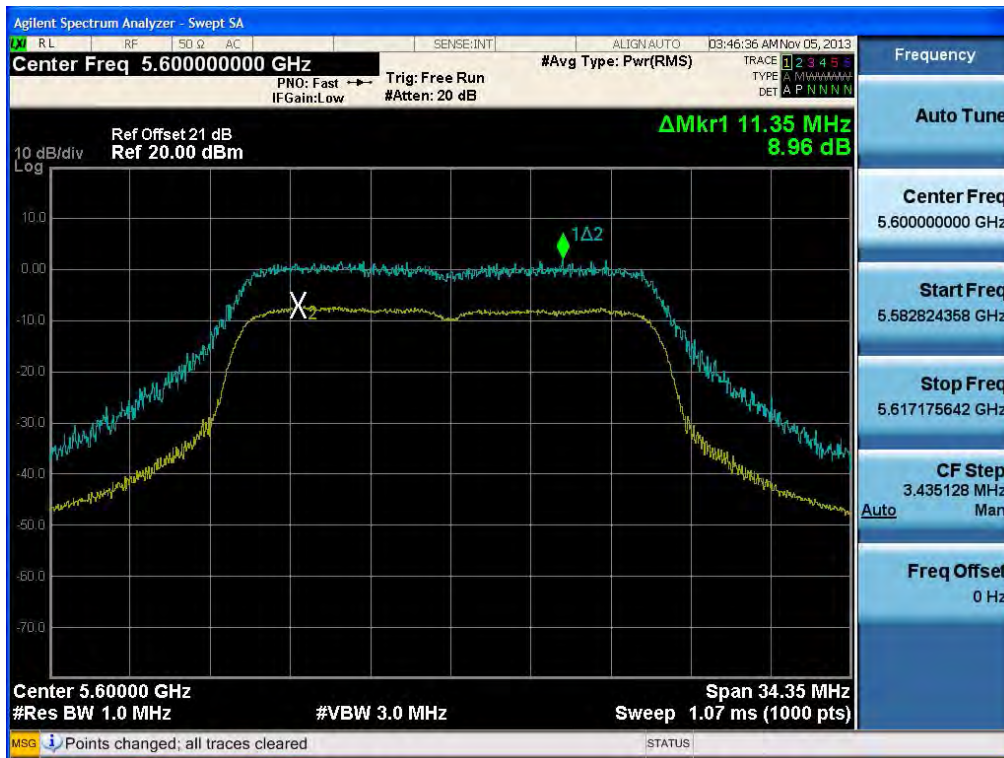
Peak Excursion Ratio (802.11n-CH 64)



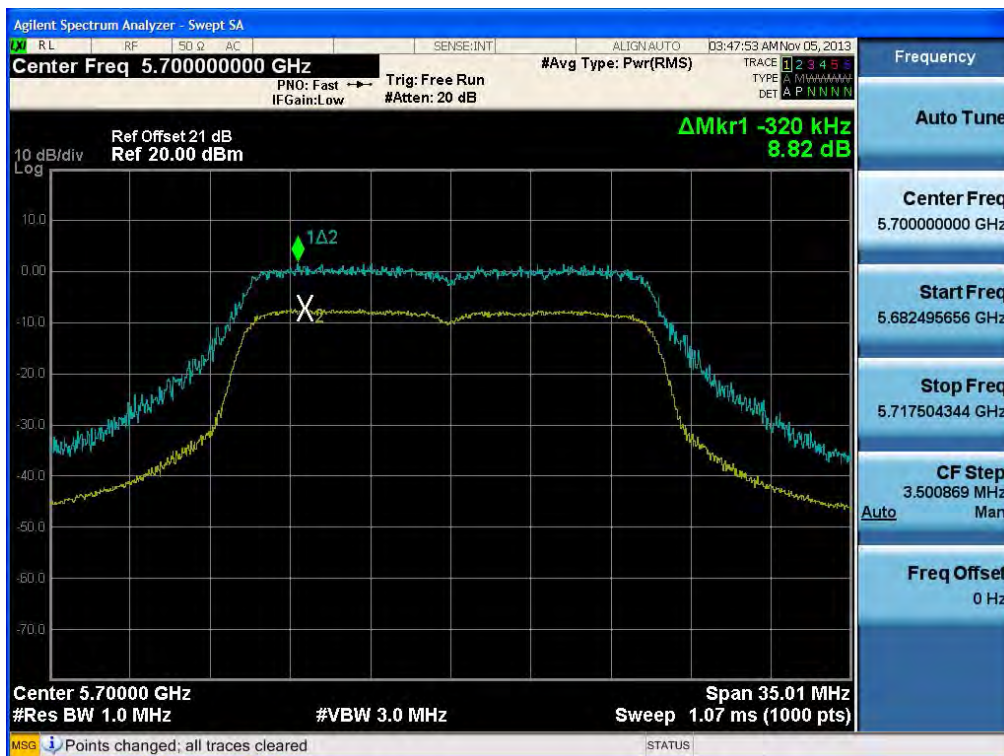
Peak Excursion Ratio (802.11n-CH 100)



Peak Excursion Ratio (802.11n-CH 120)



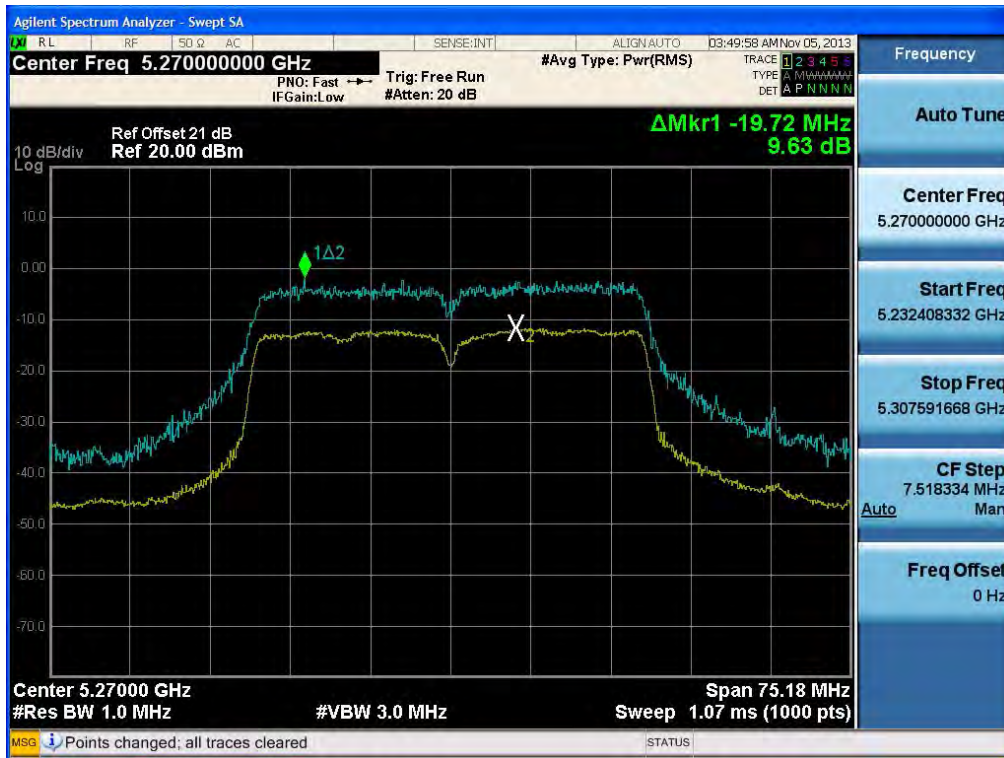
Peak Excursion Ratio (802.11n-CH 140)



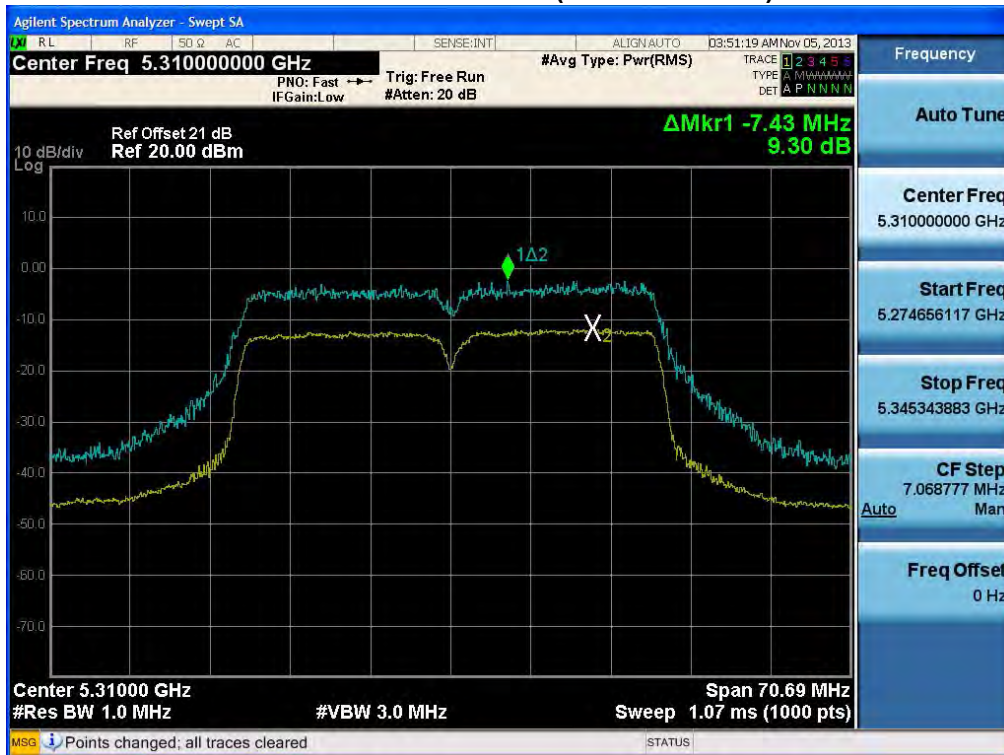
FCC PT.15.407 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1311FR03	Date of Issue: November 06, 2013	EUT Type: WLAN Access Point	FCC ID: A3LWEA303I

40MHz BW

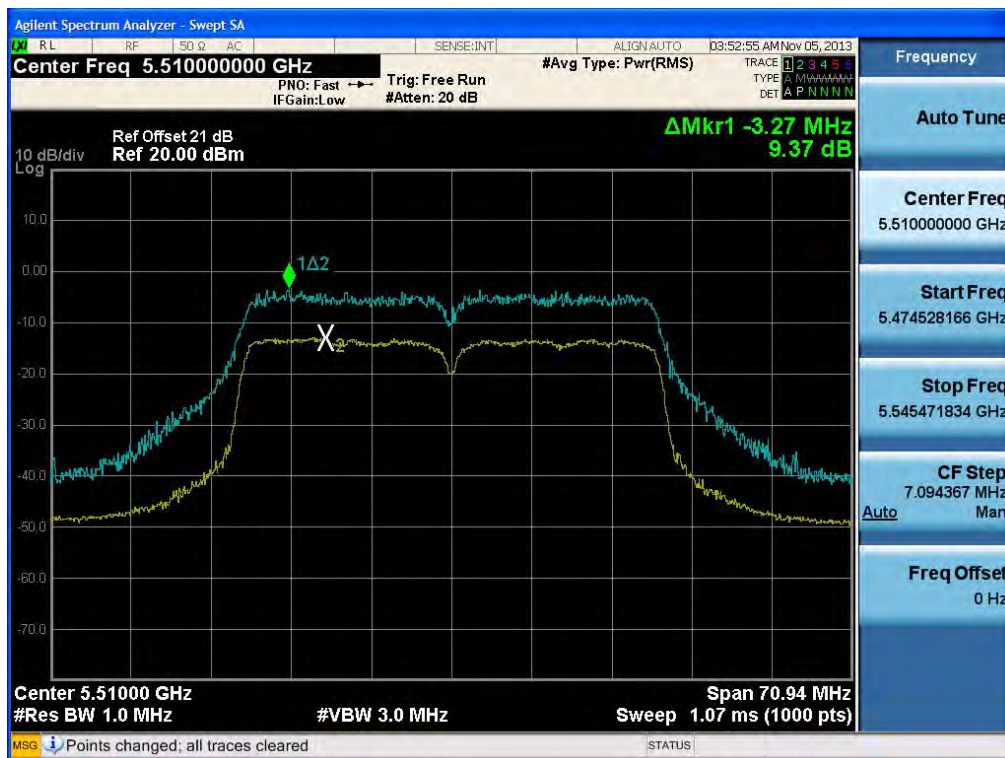
Peak Excursion Ratio (802.11n-CH 54)



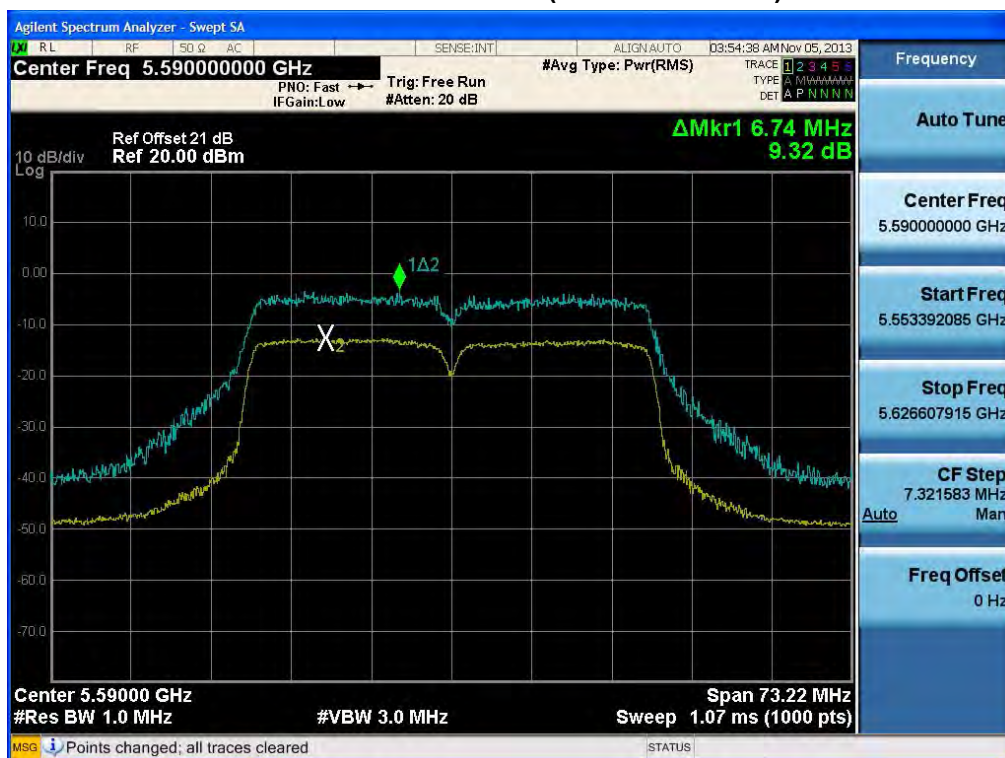
Peak Excursion Ratio (802.11n-CH 62)



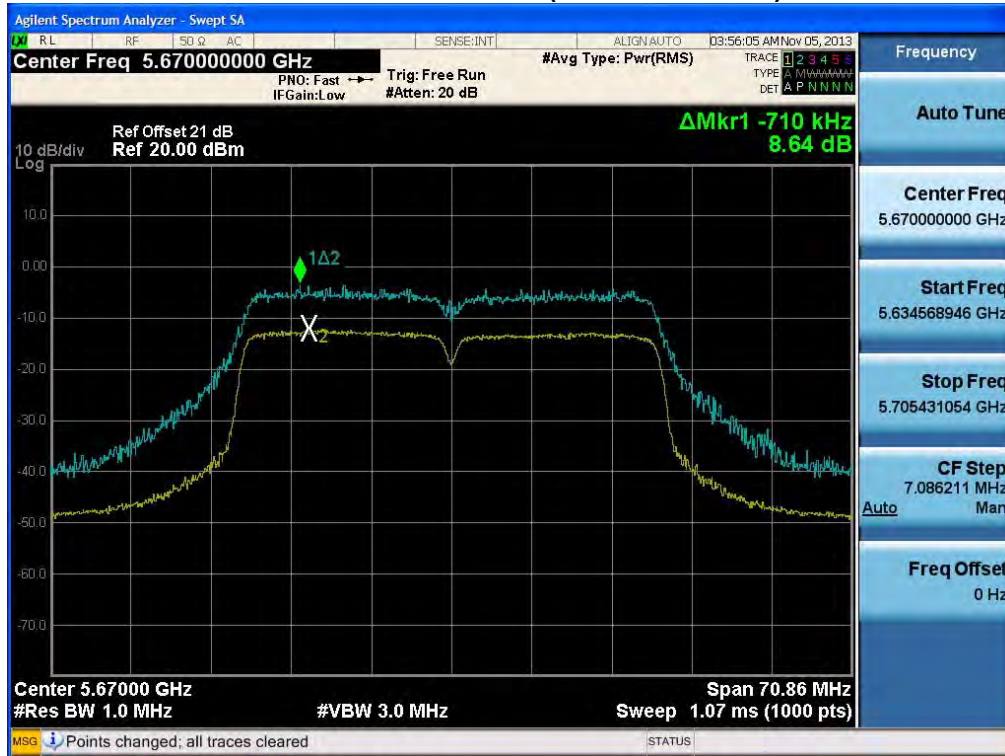
Peak Excursion Ratio (802.11n-CH 102)



Peak Excursion Ratio (802.11n-CH 118)



Peak Excursion Ratio (802.11n-CH 134)



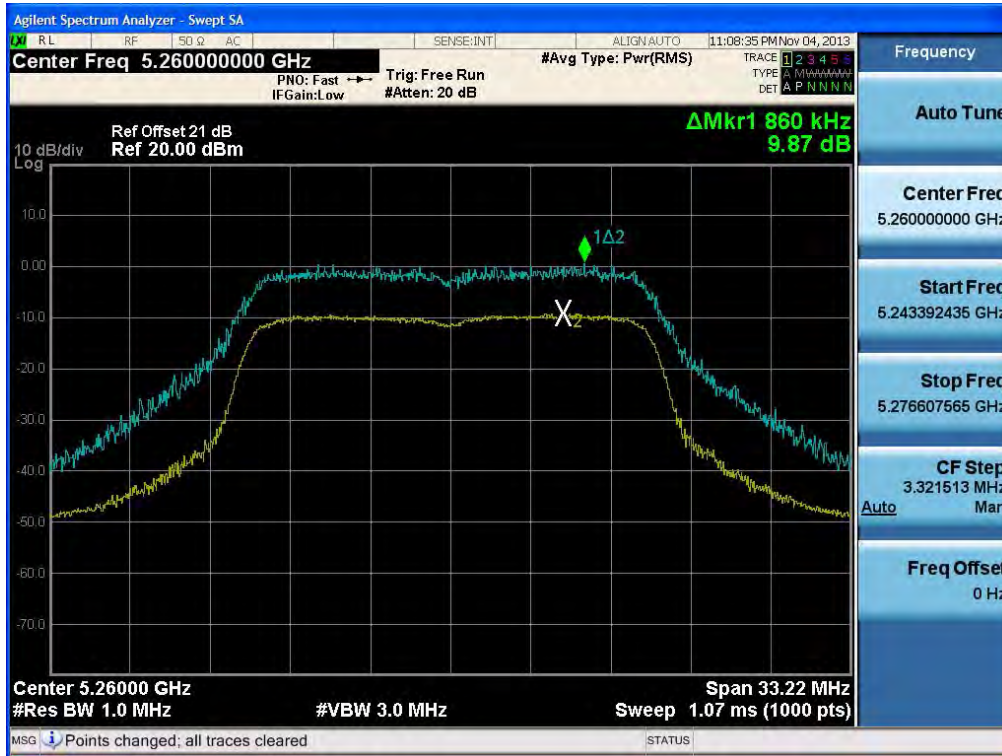
FCC PT.15.407 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1311FR03	Date of Issue: November 06, 2013	EUT Type: WLAN Access Point	FCC ID: A3LWEA303I

Service Port Ant.1

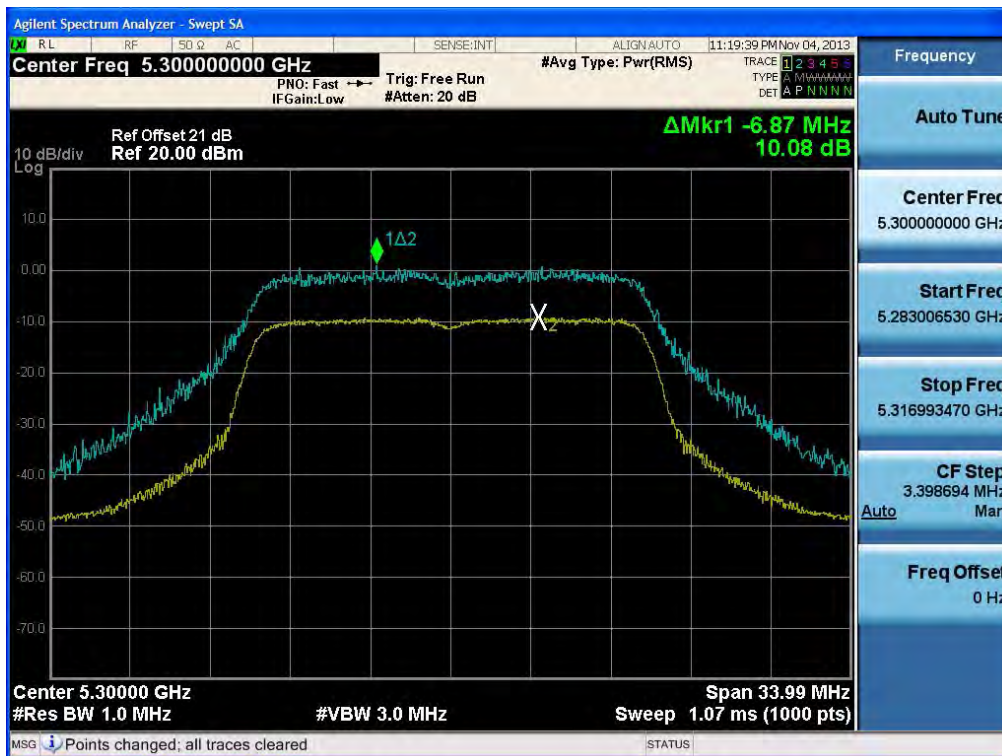
RESULT PLOTS

20 MHz BW

Peak Excursion Ratio (802.11a-CH 52)

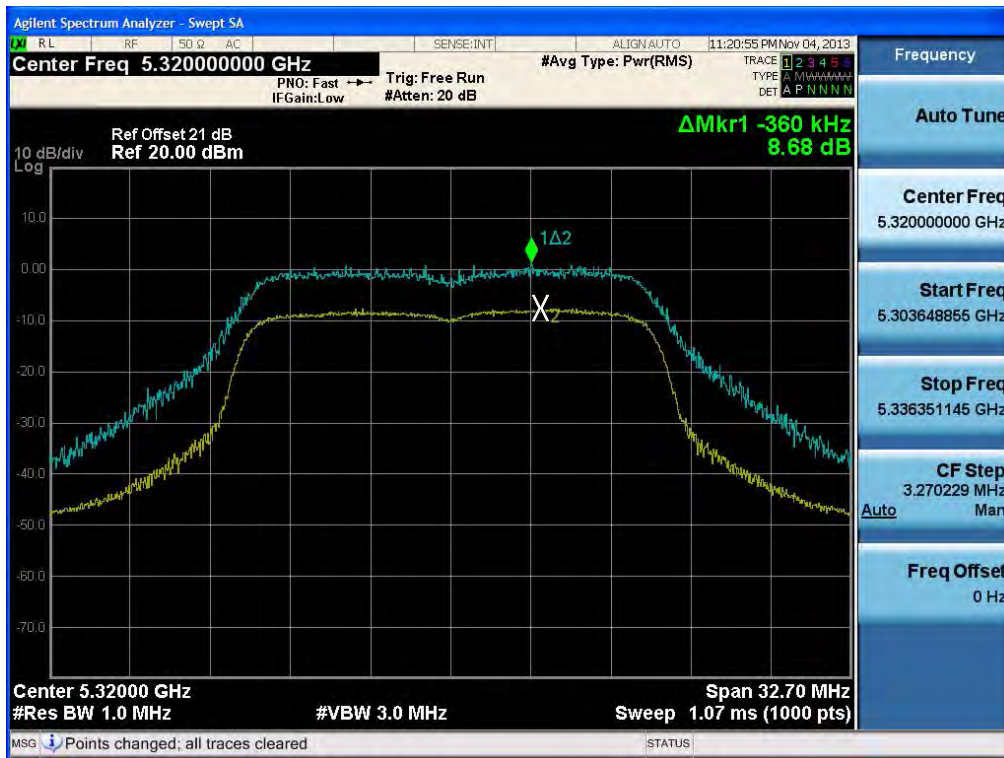


Peak Excursion Ratio (802.11a-CH 60)

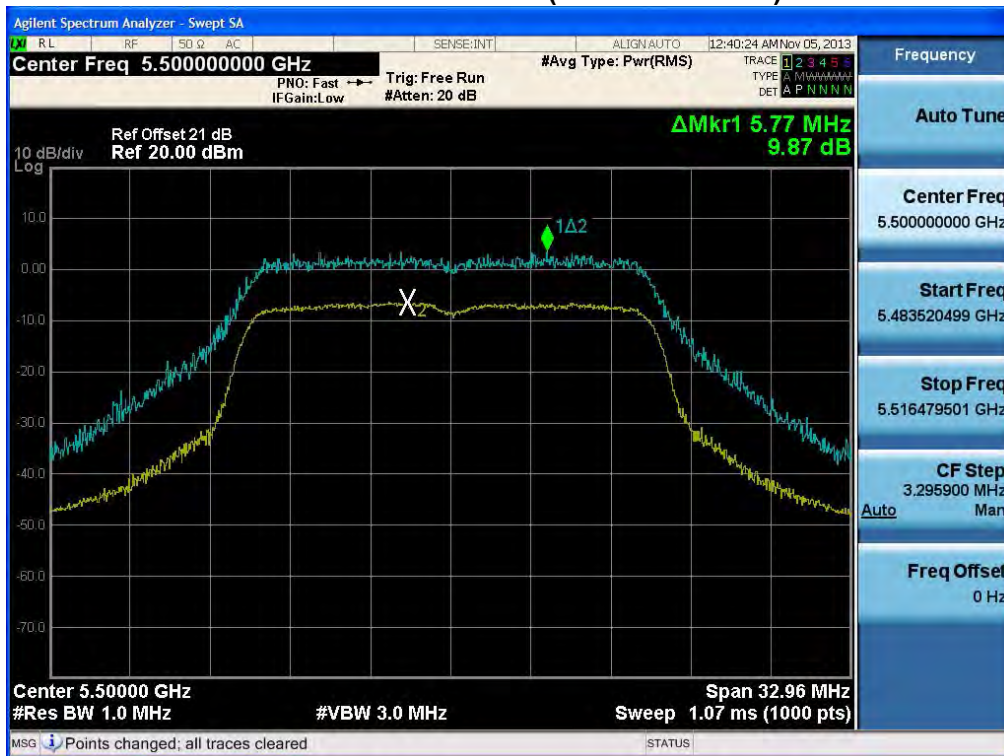


FCC PT.15.407 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1311FR03	Date of Issue: November 06, 2013	EUT Type: WLAN Access Point	FCC ID: A3LWEA303I

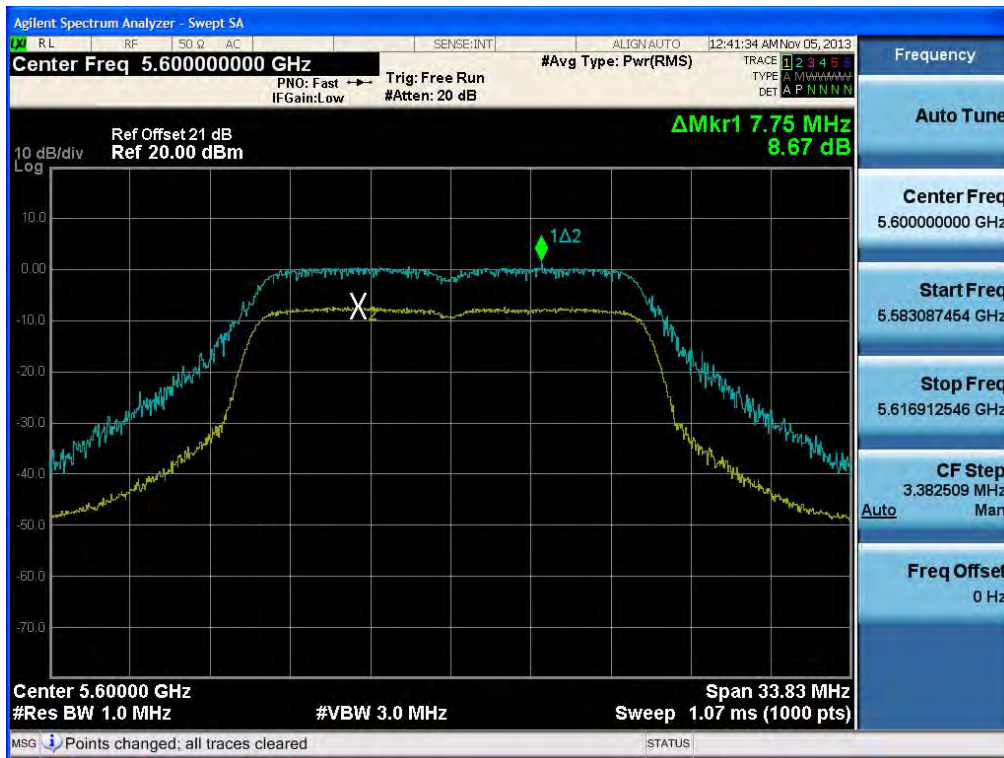
Peak Excursion Ratio (802.11a-CH 64)



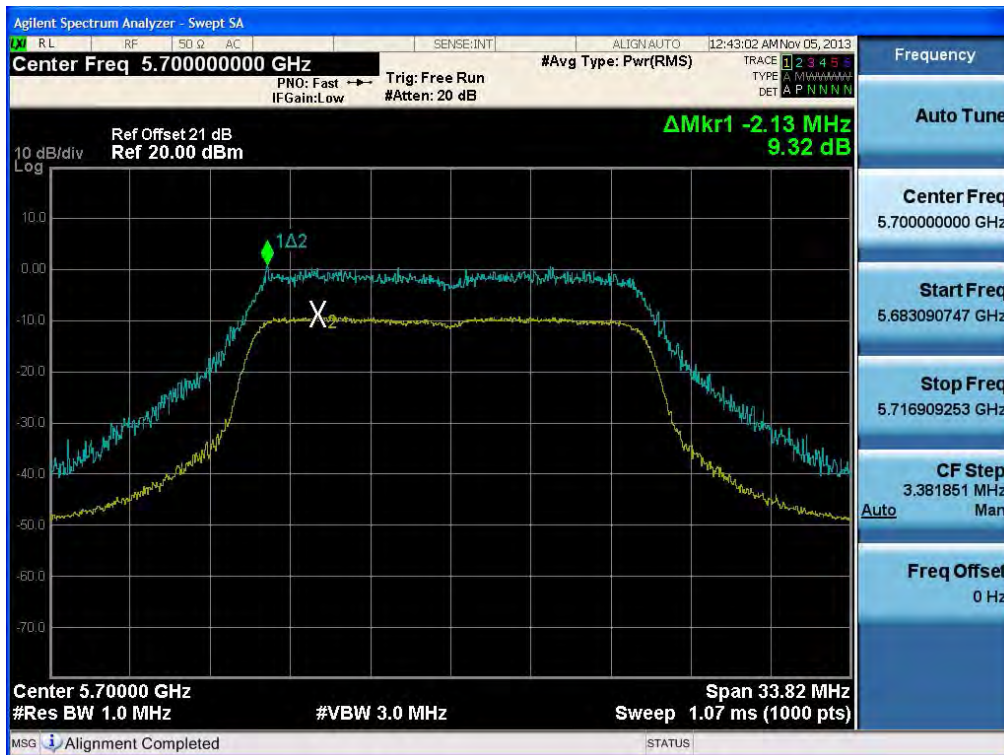
Peak Excursion Ratio (802.11a-CH 100)



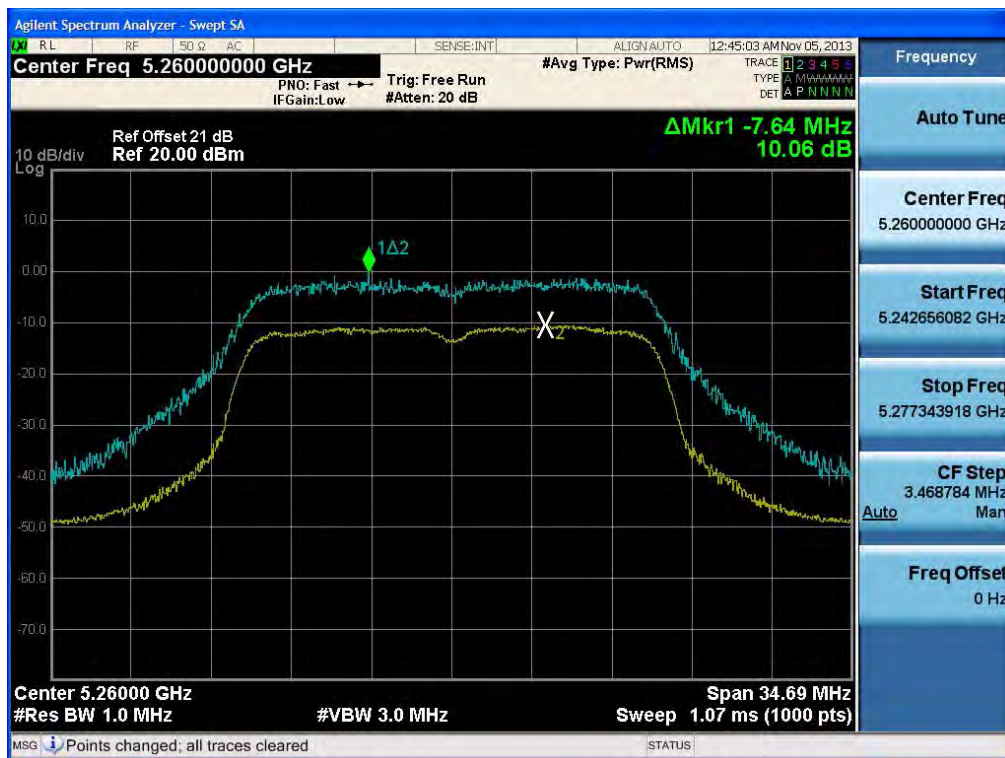
Peak Excursion Ratio (802.11a-CH 120)



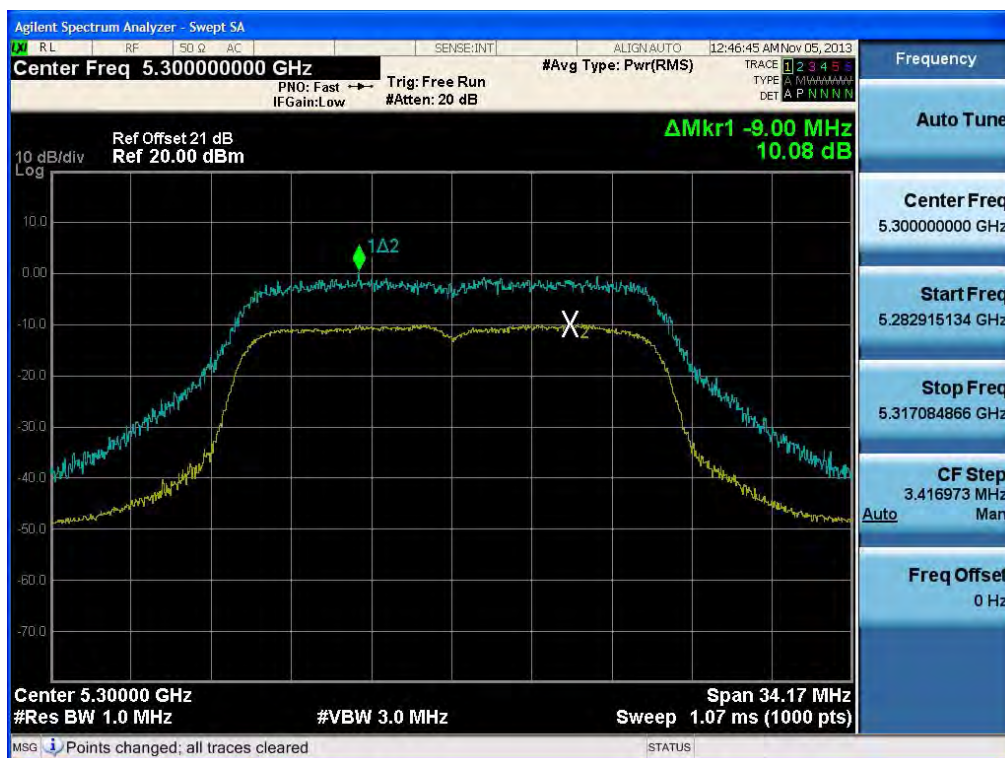
Peak Excursion Ratio (802.11a-CH 140)



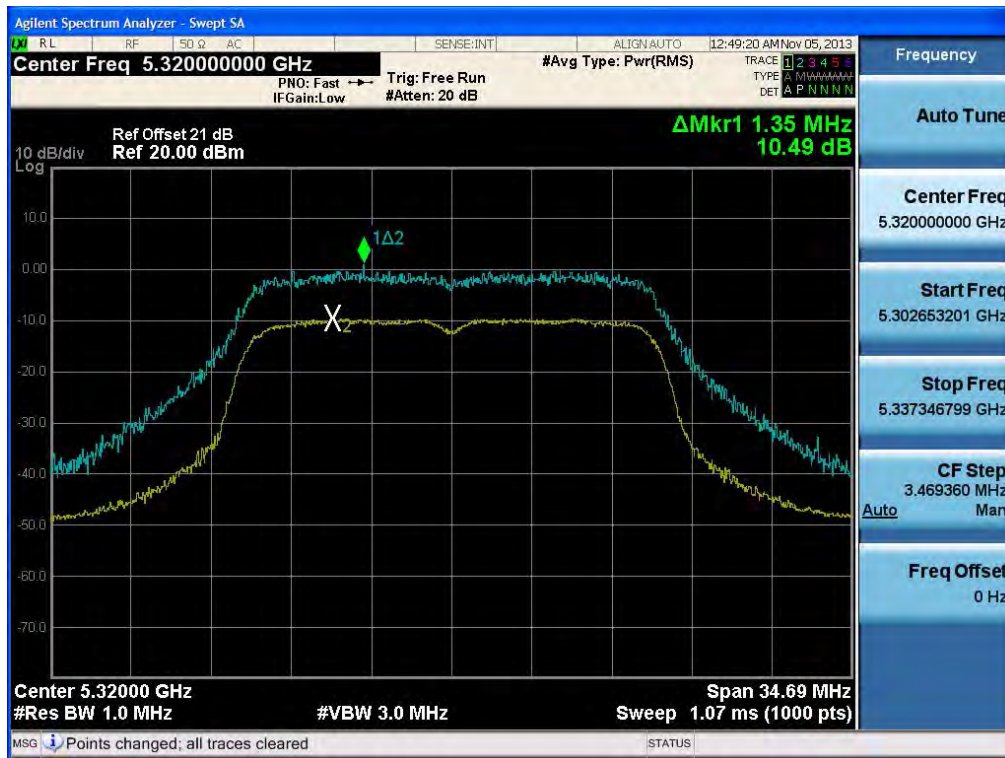
Peak Excursion Ratio (802.11n-CH 52)



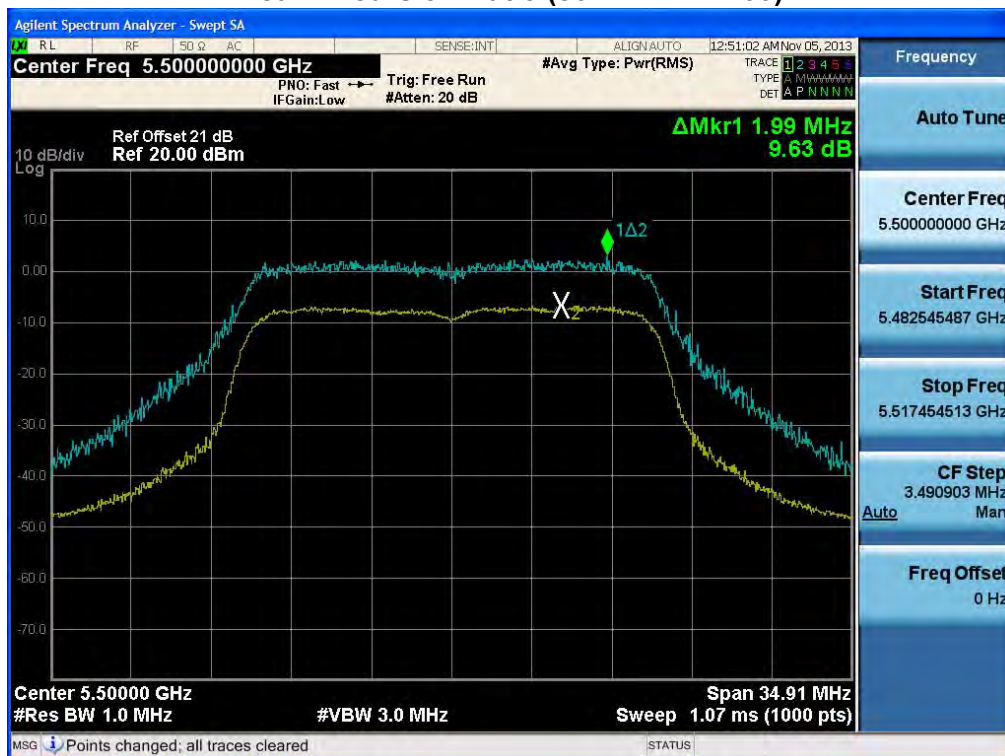
Peak Excursion Ratio (802.11n-CH 60)



Peak Excursion Ratio (802.11n-CH 64)

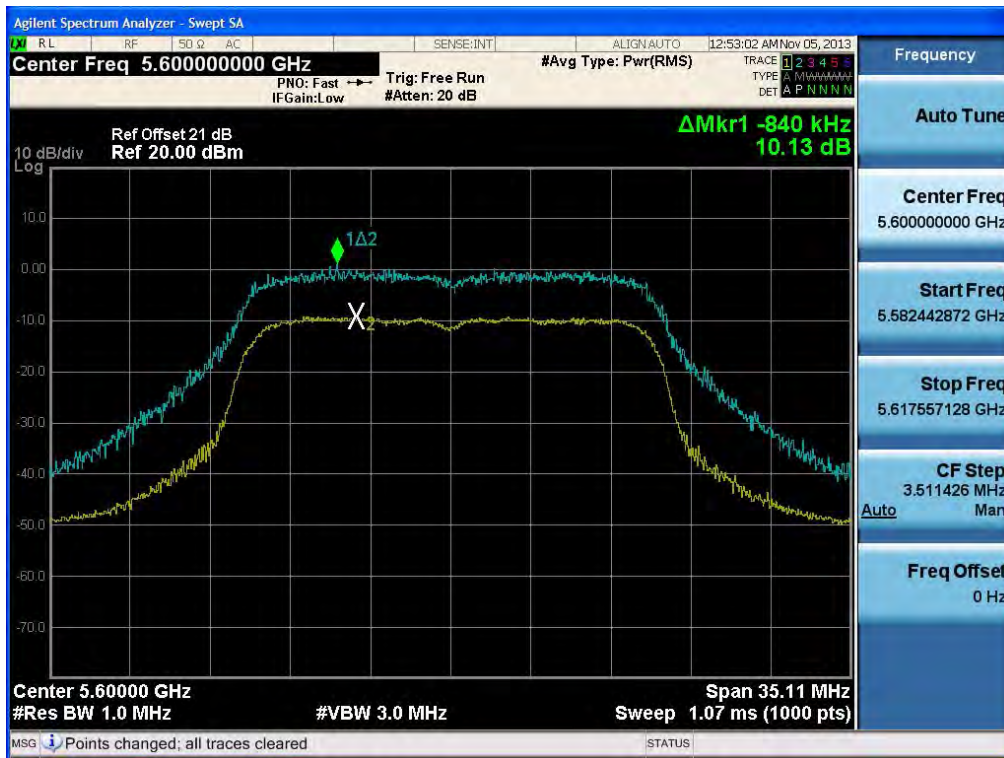


Peak Excursion Ratio (802.11n-CH 100)



FCC PT.15.407 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1311FR03	Date of Issue: November 06, 2013	EUT Type: WLAN Access Point	FCC ID: A3LWEA303I

Peak Excursion Ratio (802.11n-CH 120)

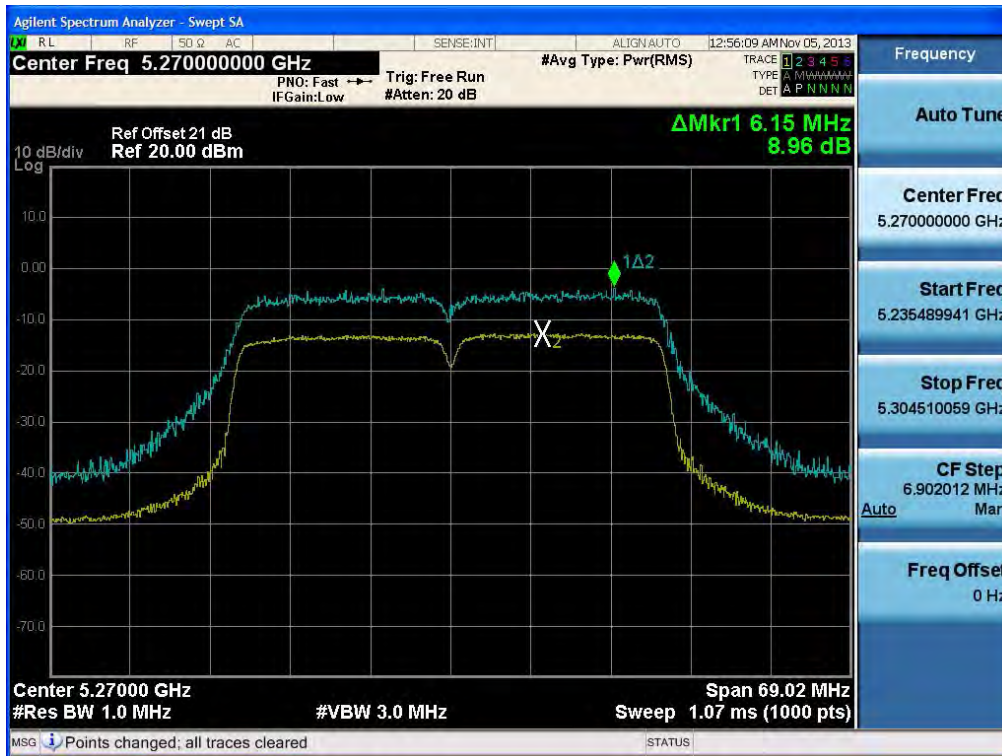


Peak Excursion Ratio (802.11n-CH 140)

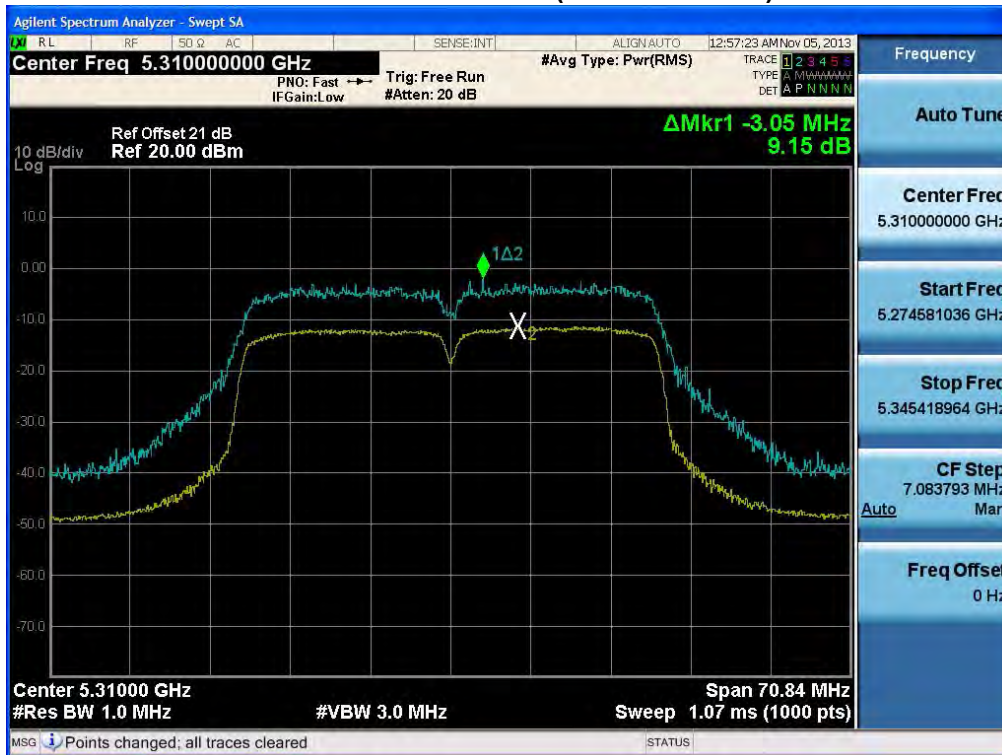


40MHz BW

Peak Excursion Ratio (802.11n-CH 54)

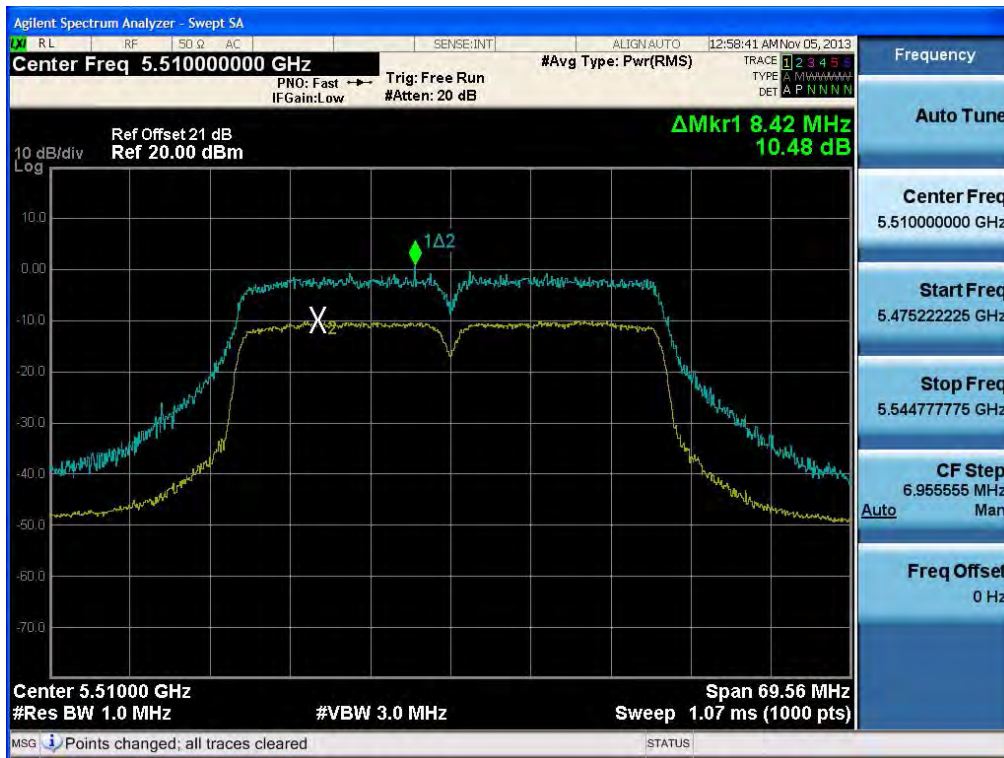


Peak Excursion Ratio (802.11n-CH 62)

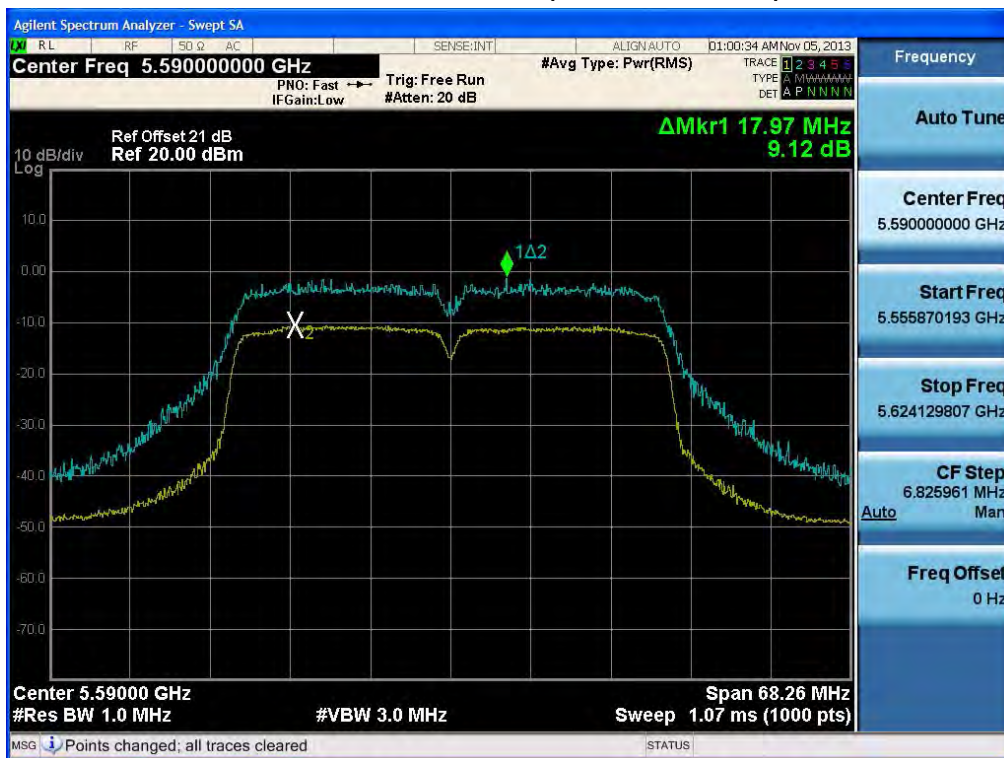


FCC PT.15.407 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1311FR03	Date of Issue: November 06, 2013	EUT Type: WLAN Access Point	FCC ID: A3LWEA303I

Peak Excursion Ratio (802.11n-CH 102)

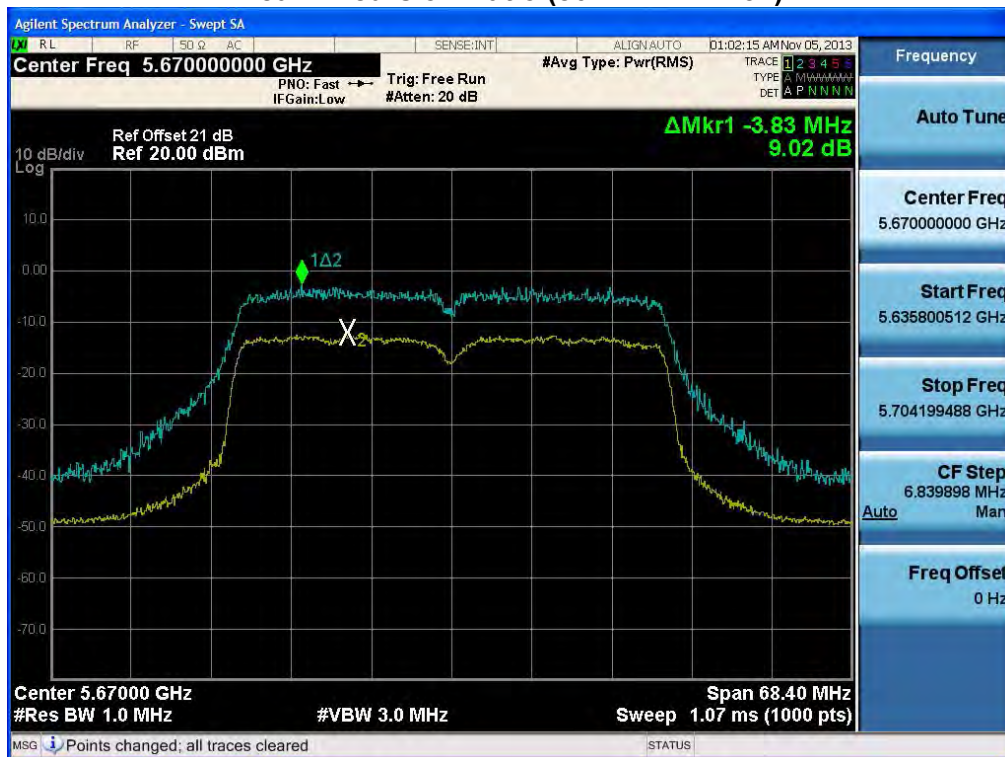


Peak Excursion Ratio (802.11n-CH 118)



FCC PT.15.407 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1311FR03	Date of Issue: November 06, 2013	EUT Type: WLAN Access Point	FCC ID: A3LWEA303I

Peak Excursion Ratio (802.11n-CH 134)



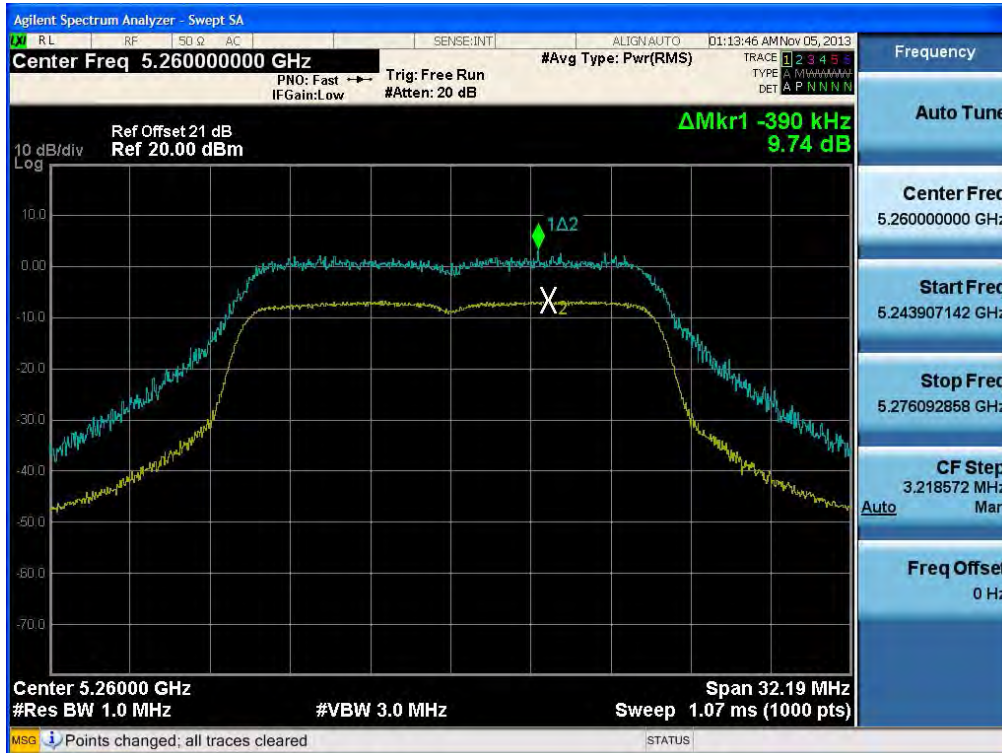
FCC PT.15.407 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1311FR03	Date of Issue: November 06, 2013	EUT Type: WLAN Access Point	FCC ID: A3LWEA303I

Service Port Ant.2

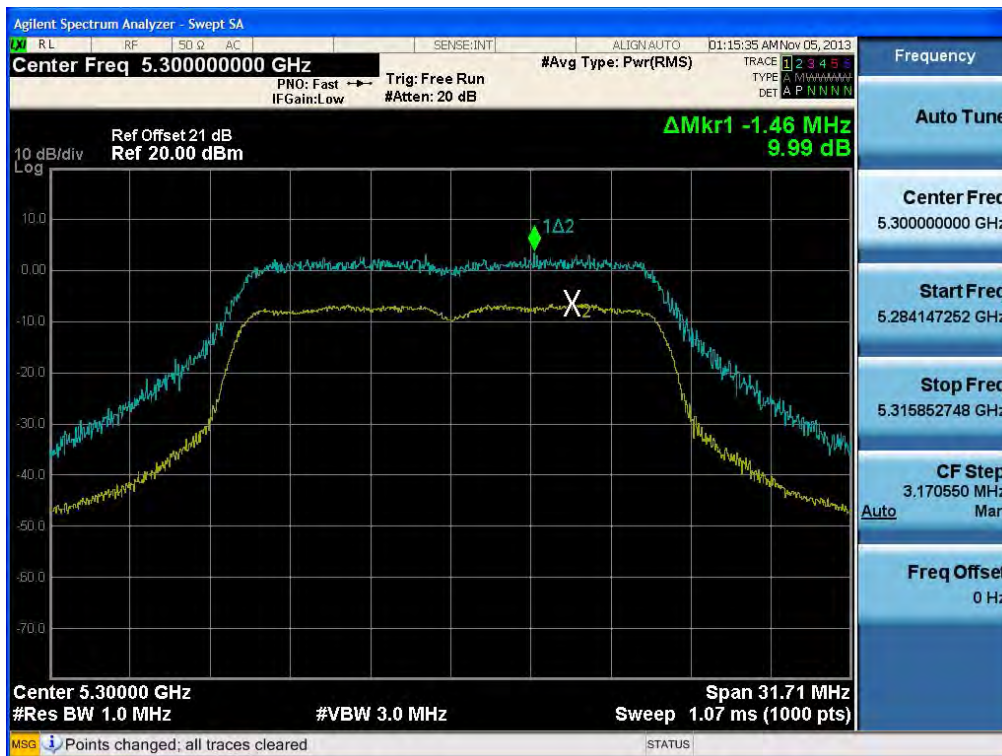
RESULT PLOTS

20 MHz BW

Peak Excursion Ratio (802.11a-CH 52)

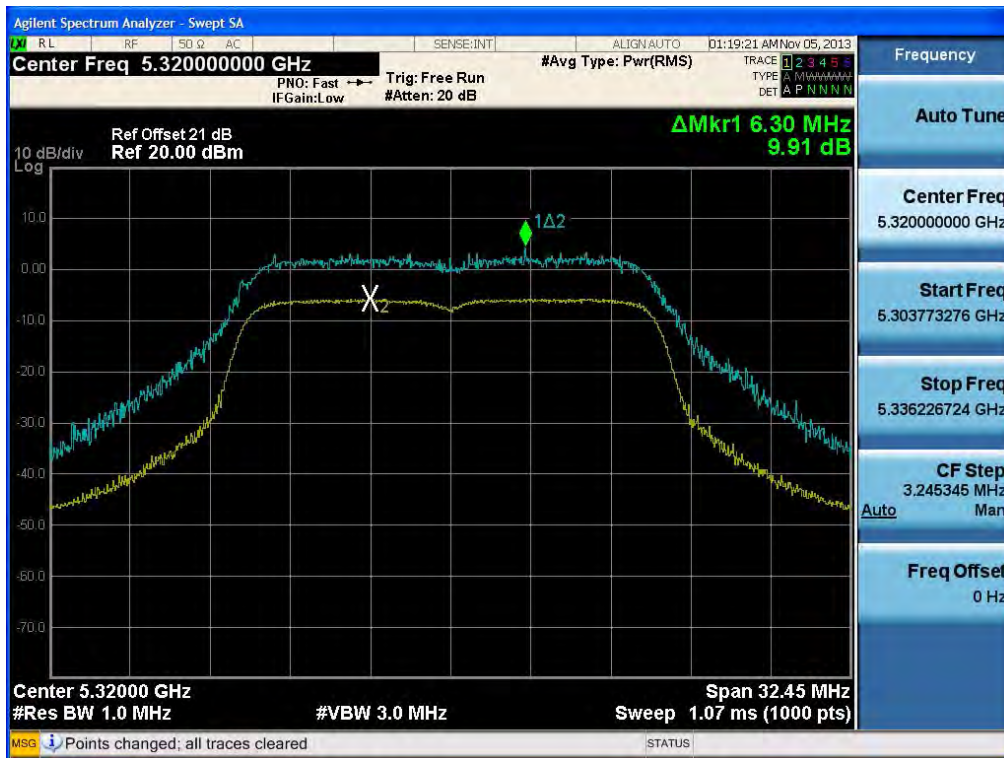


Peak Excursion Ratio (802.11a-CH 60)



FCC PT.15.407 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1311FR03	Date of Issue: November 06, 2013	EUT Type: WLAN Access Point	FCC ID: A3LWEA303I

Peak Excursion Ratio (802.11a-CH 64)



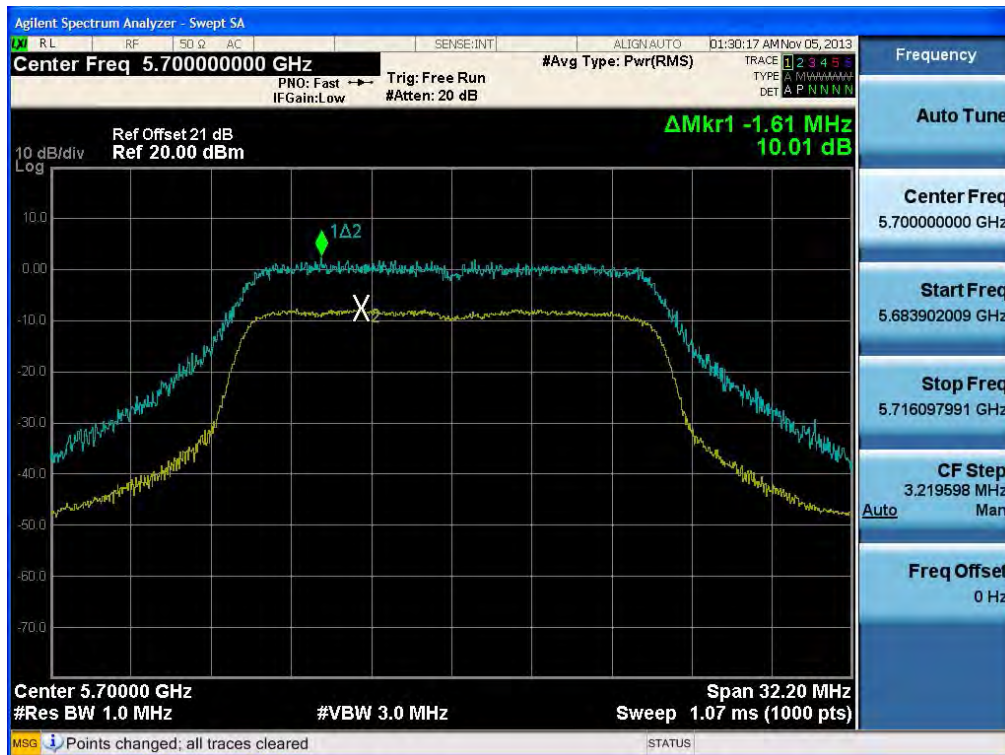
Peak Excursion Ratio (802.11a-CH 100)



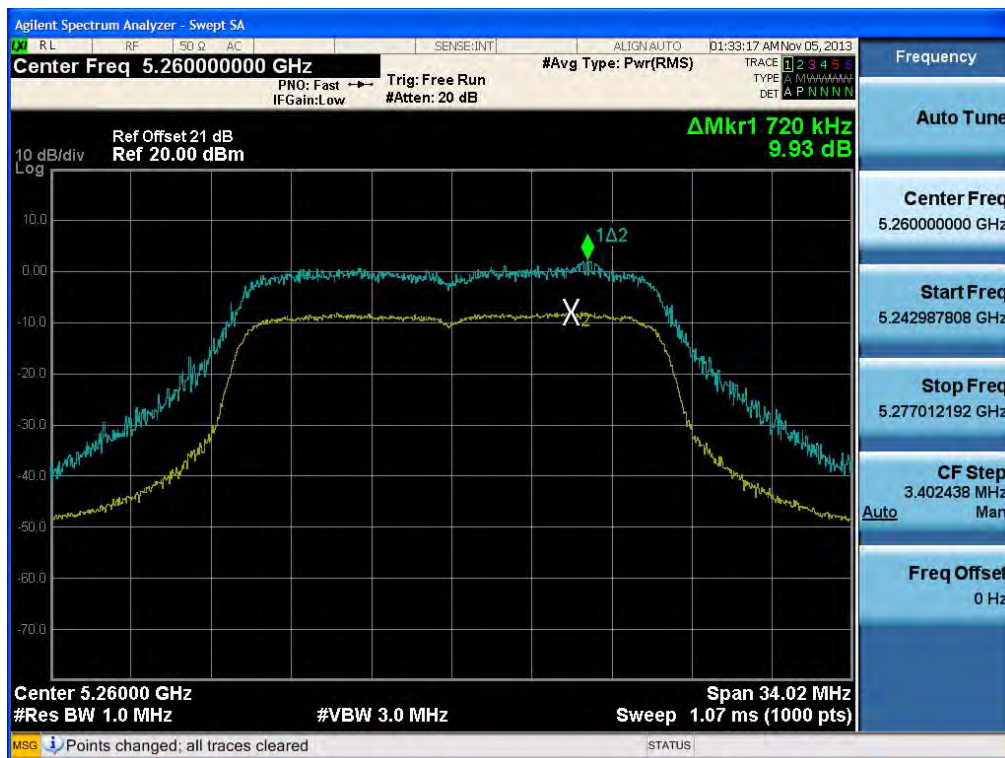
Peak Excursion Ratio (802.11a-CH 120)



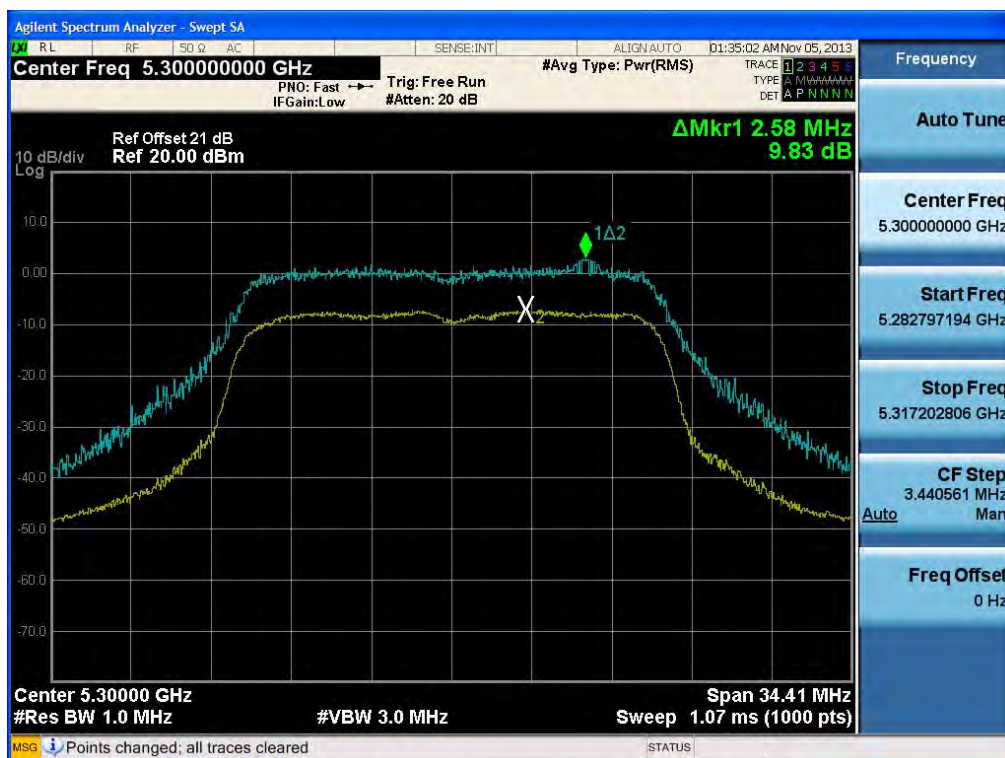
Peak Excursion Ratio (802.11a-CH 140)



Peak Excursion Ratio (802.11n-CH 52)

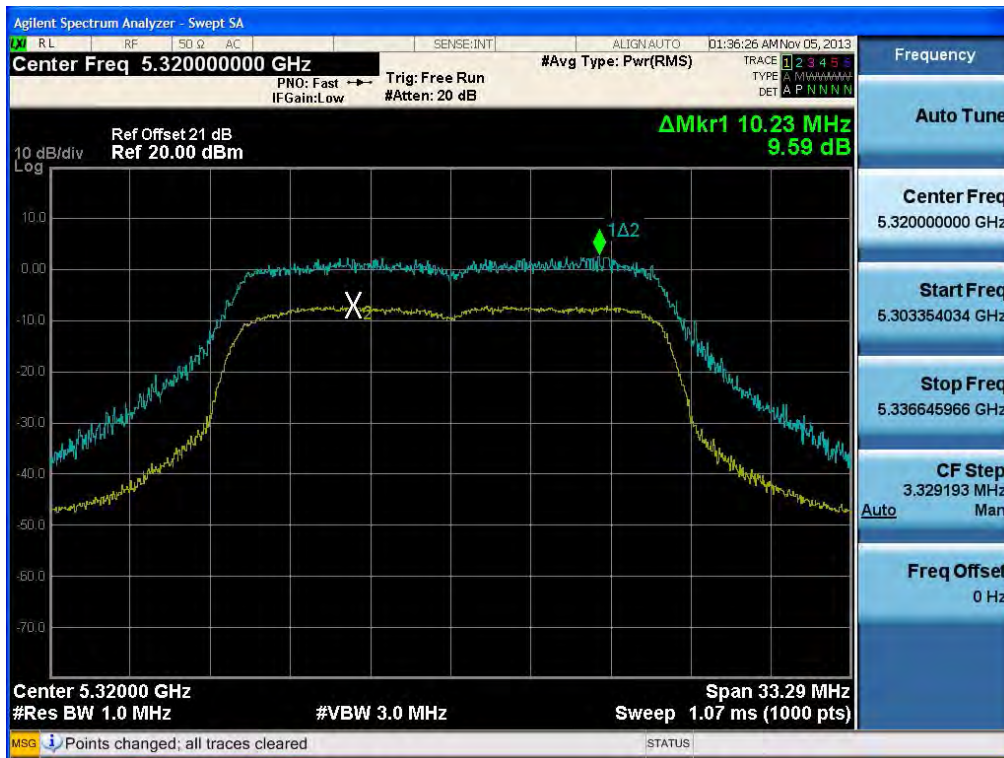


Peak Excursion Ratio (802.11n-CH 60)



FCC PT.15.407 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1311FR03	Date of Issue: November 06, 2013	EUT Type: WLAN Access Point	FCC ID: A3LWEA303I

Peak Excursion Ratio (802.11n-CH 64)

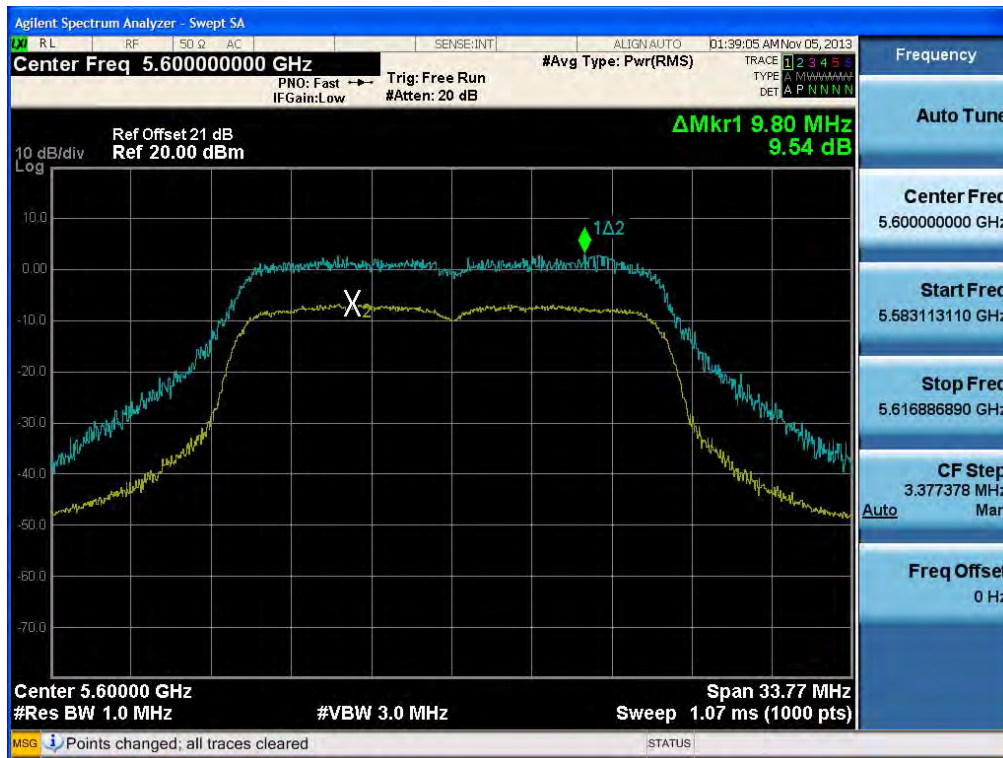


Peak Excursion Ratio (802.11n-CH 100)

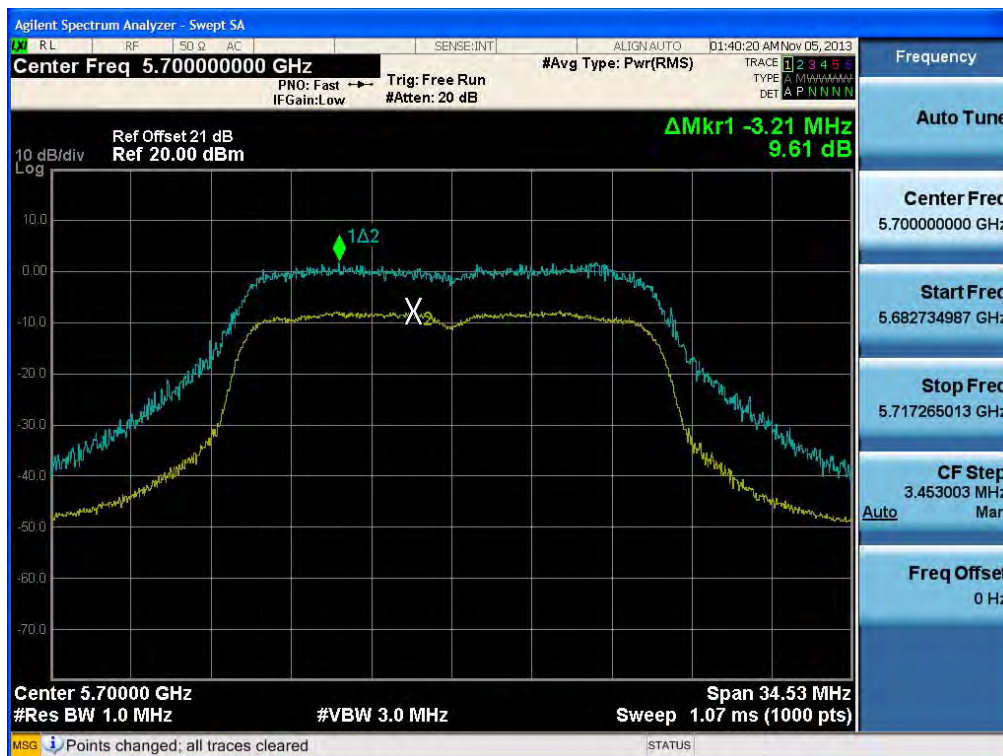


FCC PT.15.407 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1311FR03	Date of Issue: November 06, 2013	EUT Type: WLAN Access Point	FCC ID: A3LWEA303I

Peak Excursion Ratio (802.11n-CH 120)



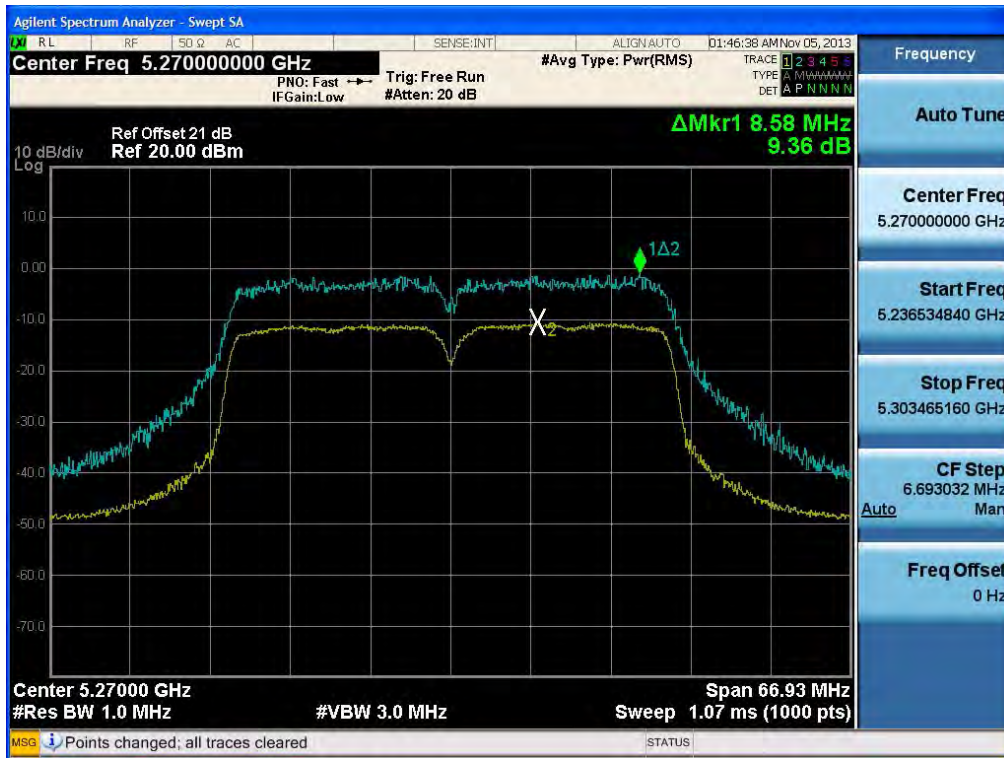
Peak Excursion Ratio (802.11n-CH 140)



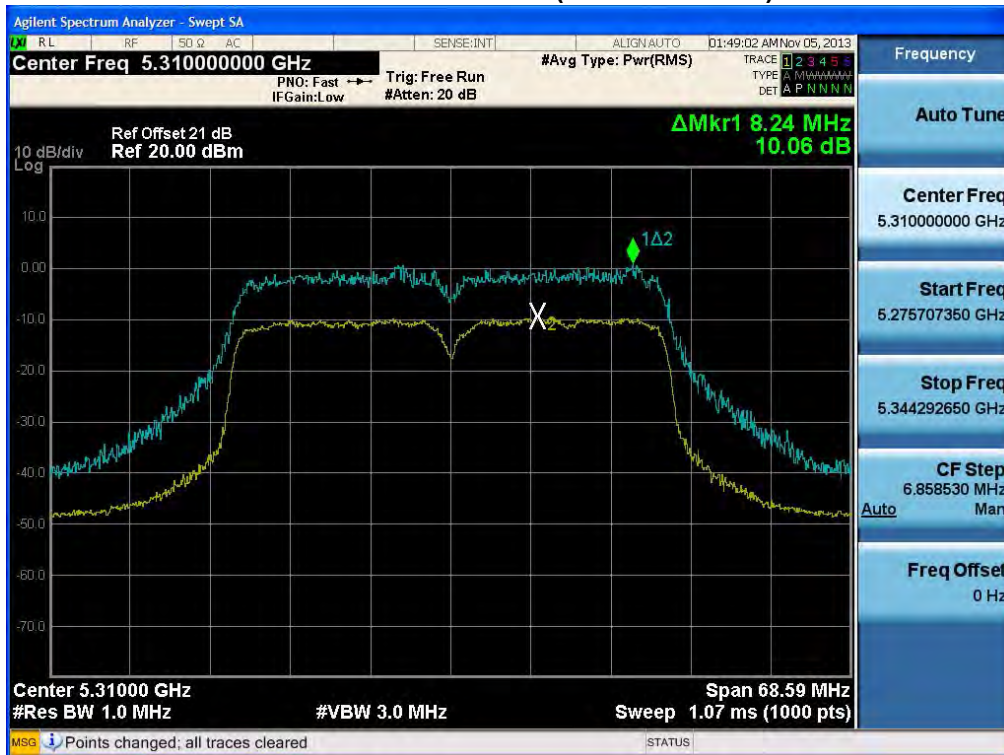
FCC PT.15.407 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1311FR03	Date of Issue: November 06, 2013	EUT Type: WLAN Access Point	FCC ID: A3LWEA303I

40MHz BW

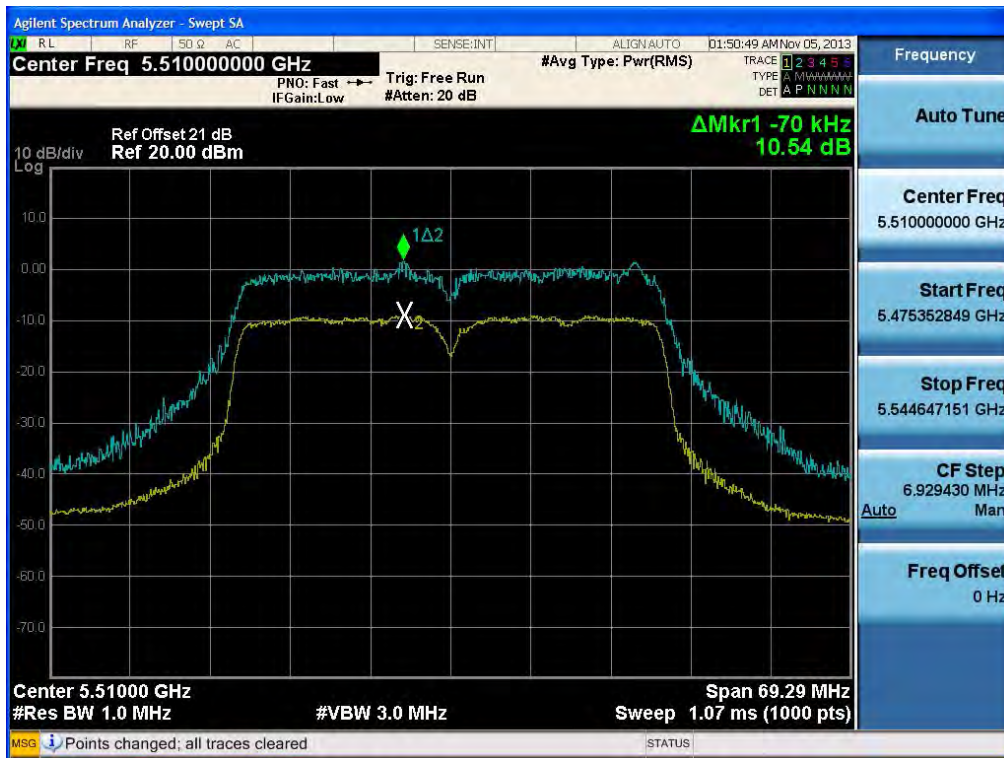
Peak Excursion Ratio (802.11n-CH 54)



Peak Excursion Ratio (802.11n-CH 62)



Peak Excursion Ratio (802.11n-CH 102)



Peak Excursion Ratio (802.11n-CH 118)



FCC PT.15.407 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1311FR03	Date of Issue: November 06, 2013	EUT Type: WLAN Access Point	FCC ID: A3LWEA303I

Peak Excursion Ratio (802.11n-CH 134)



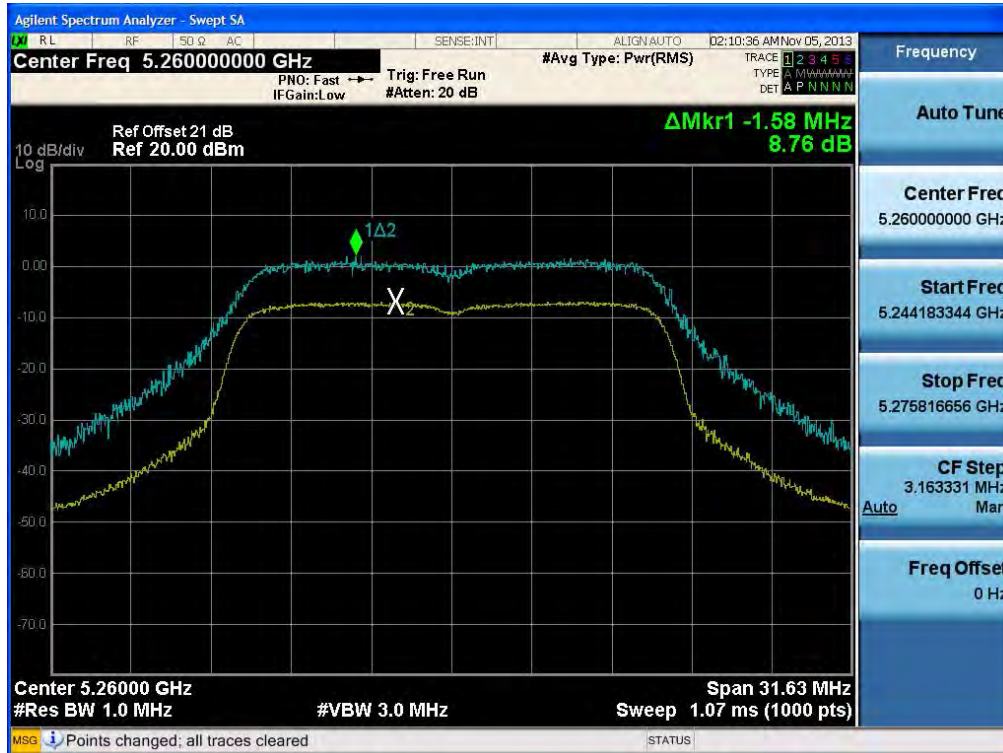
FCC PT.15.407 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1311FR03	Date of Issue: November 06, 2013	EUT Type: WLAN Access Point	FCC ID: A3LWEA303I

Service Port Ant.3

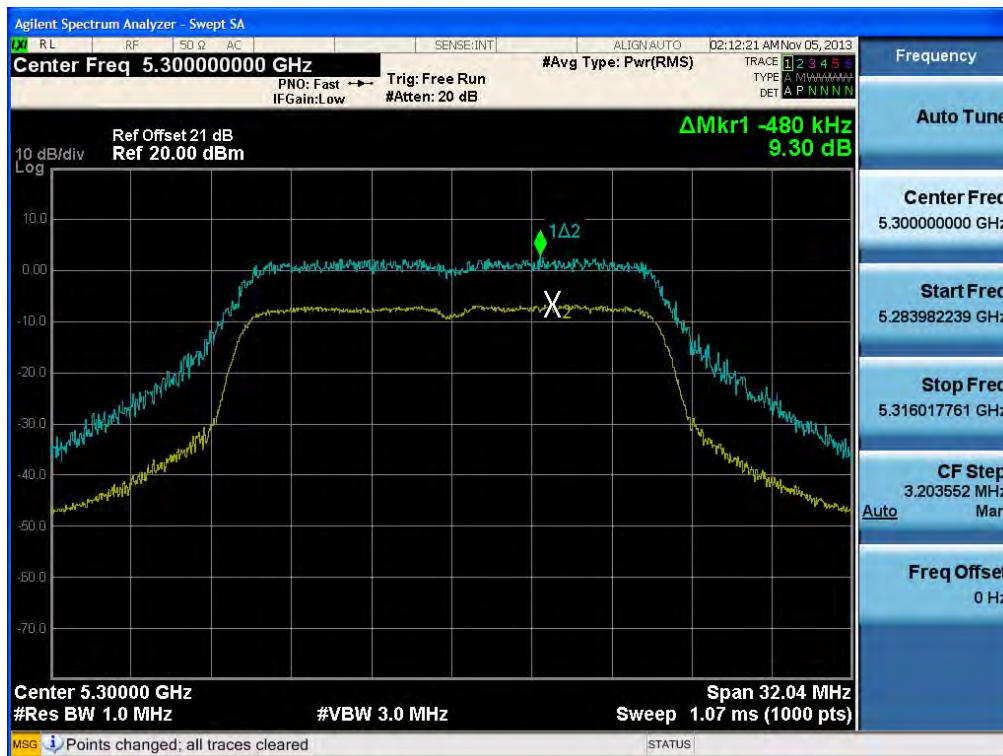
RESULT PLOTS

20 MHz BW

Peak Excursion Ratio (802.11a-CH 52)



Peak Excursion Ratio (802.11a-CH 60)



FCC PT.15.407 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
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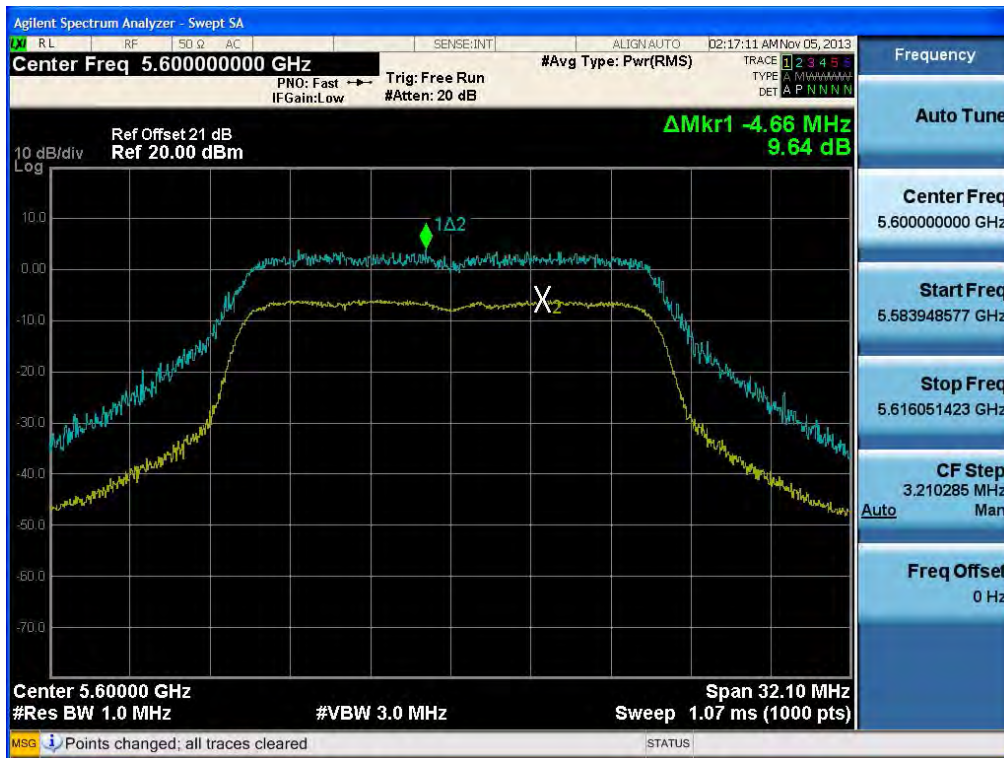
Peak Excursion Ratio (802.11a-CH 64)



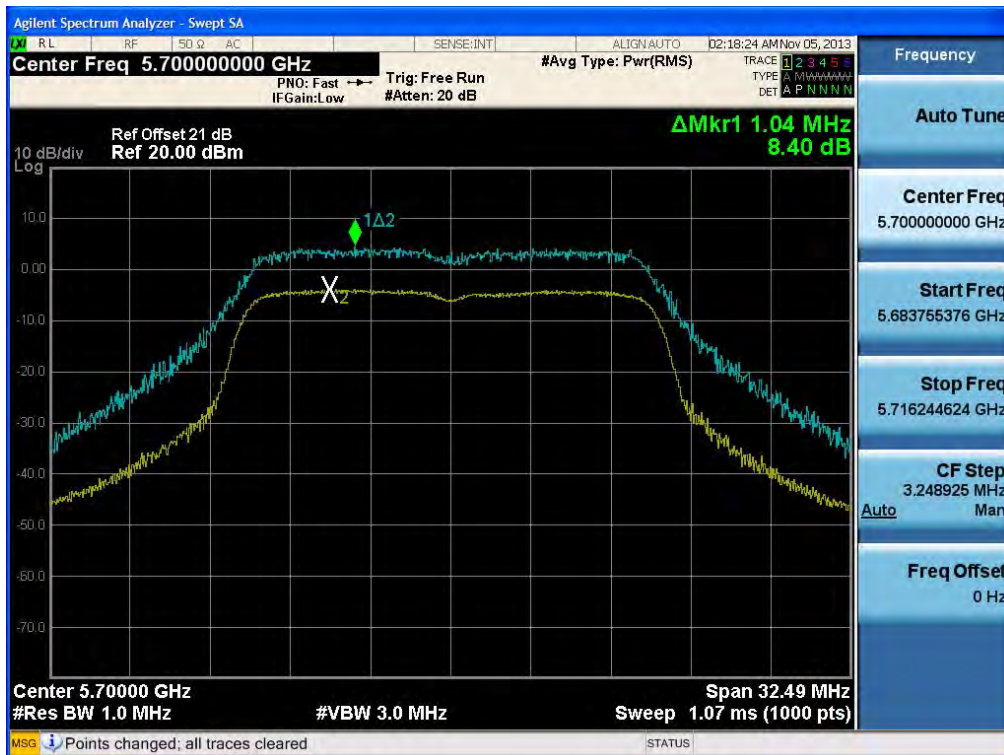
Peak Excursion Ratio (802.11a-CH 100)



Peak Excursion Ratio (802.11a-CH 120)



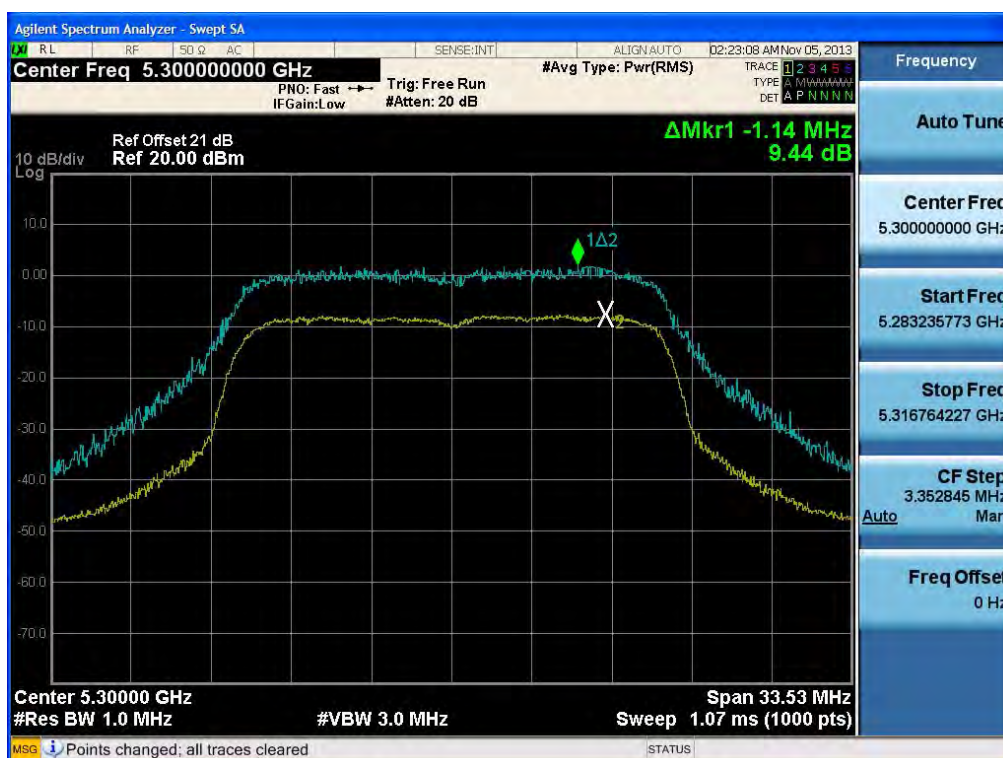
Peak Excursion Ratio (802.11a-CH 140)



Peak Excursion Ratio (802.11n-CH 52)



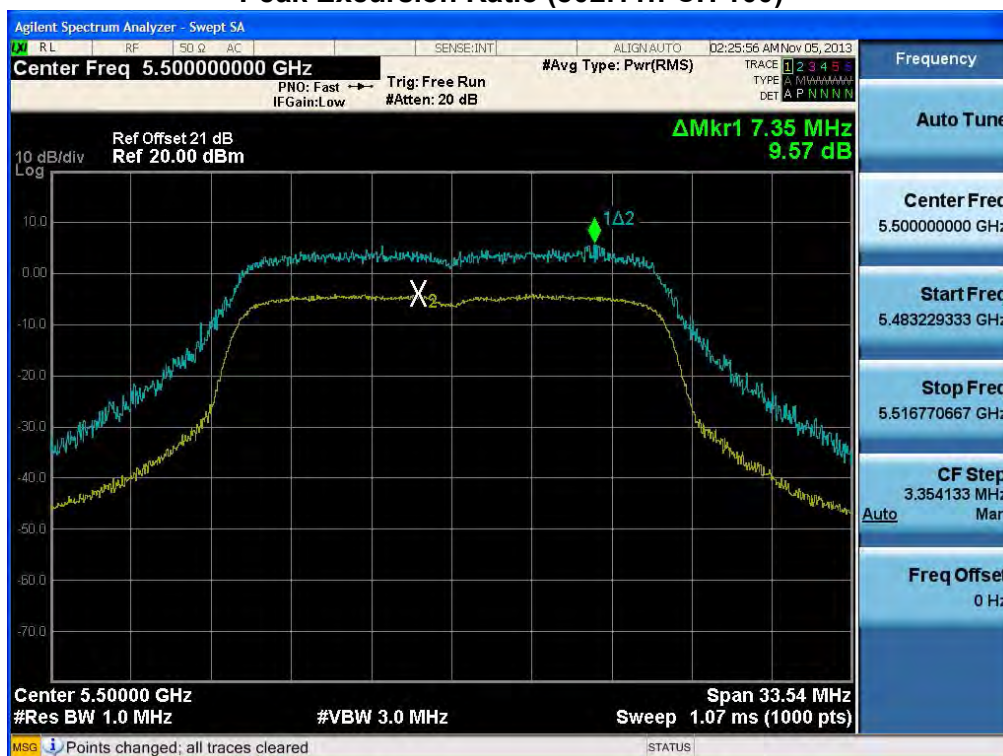
Peak Excursion Ratio (802.11n-CH 60)



Peak Excursion Ratio (802.11n-CH 64)



Peak Excursion Ratio (802.11n-CH 100)

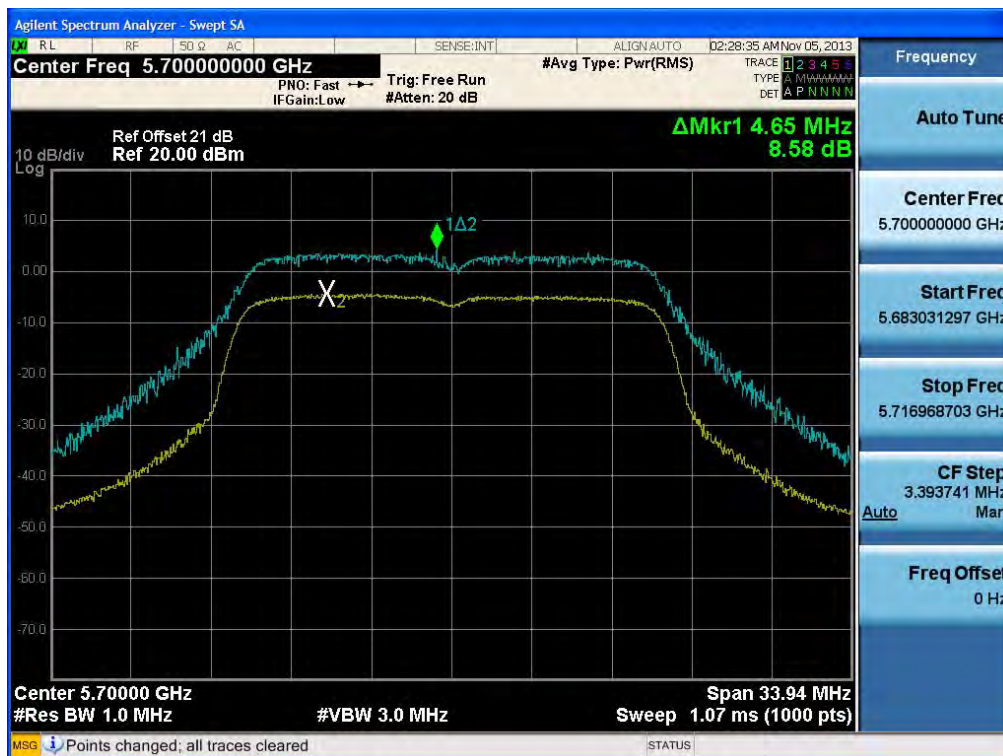


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Peak Excursion Ratio (802.11n-CH 120)



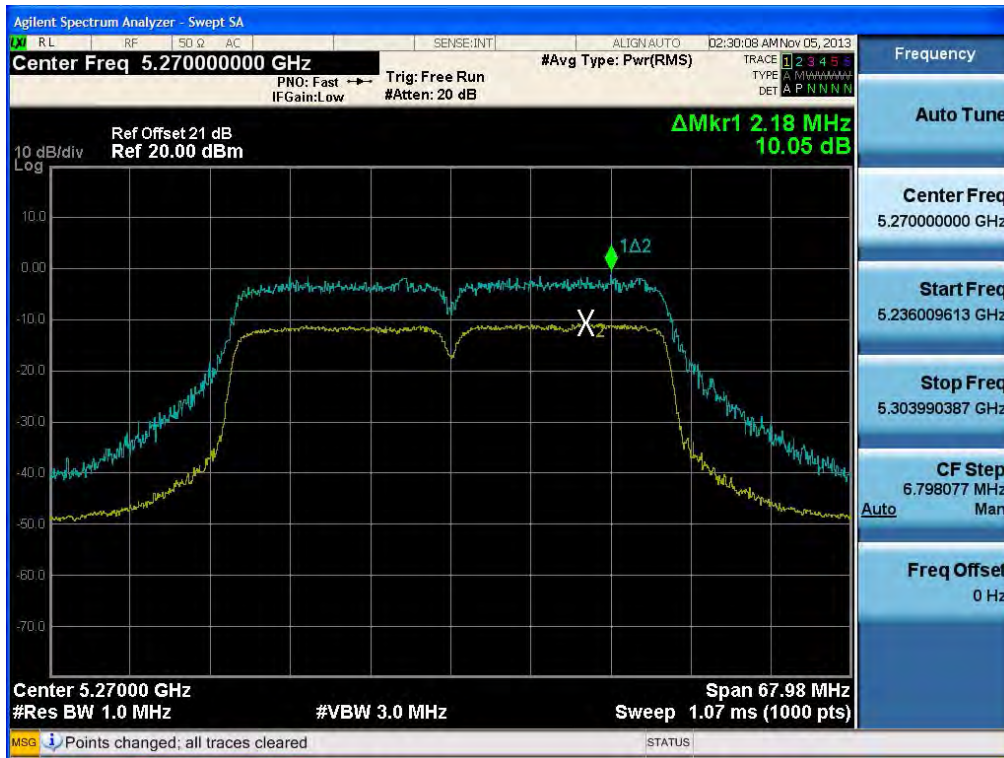
Peak Excursion Ratio (802.11n-CH 140)



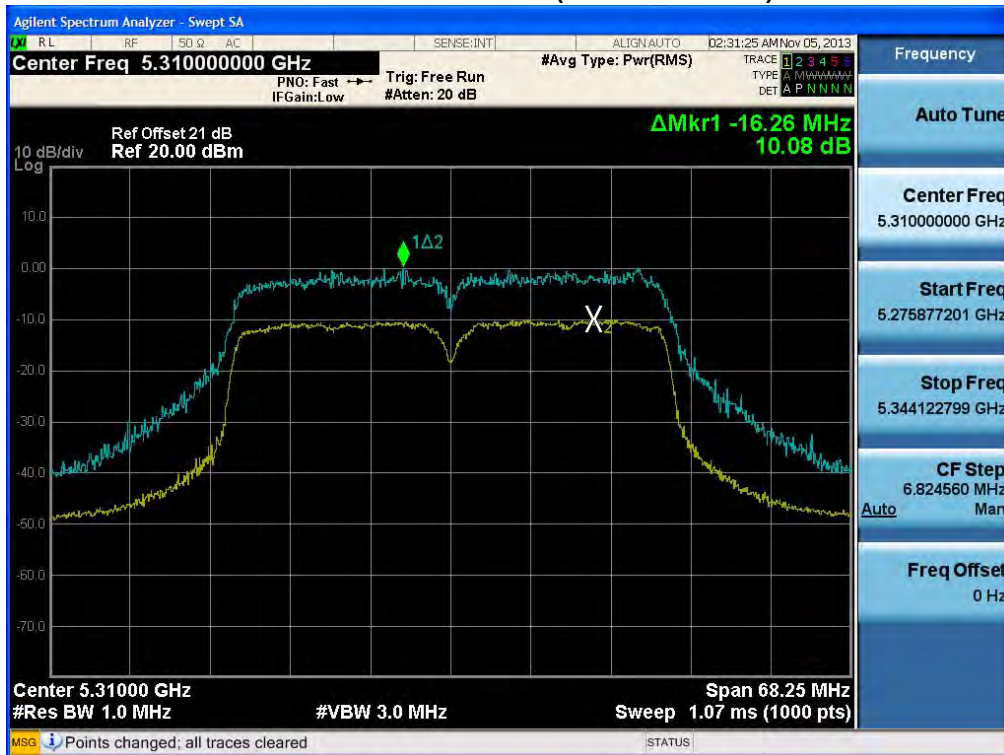
FCC PT.15.407 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
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40MHz BW

Peak Excursion Ratio (802.11n-CH 54)



Peak Excursion Ratio (802.11n-CH 62)

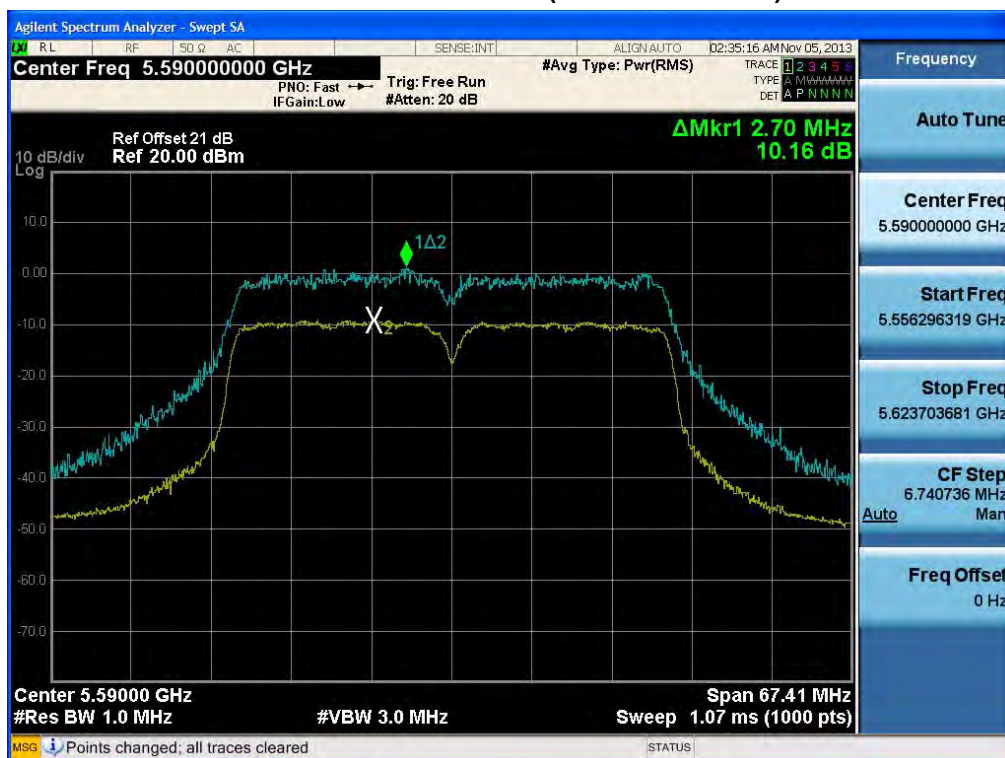


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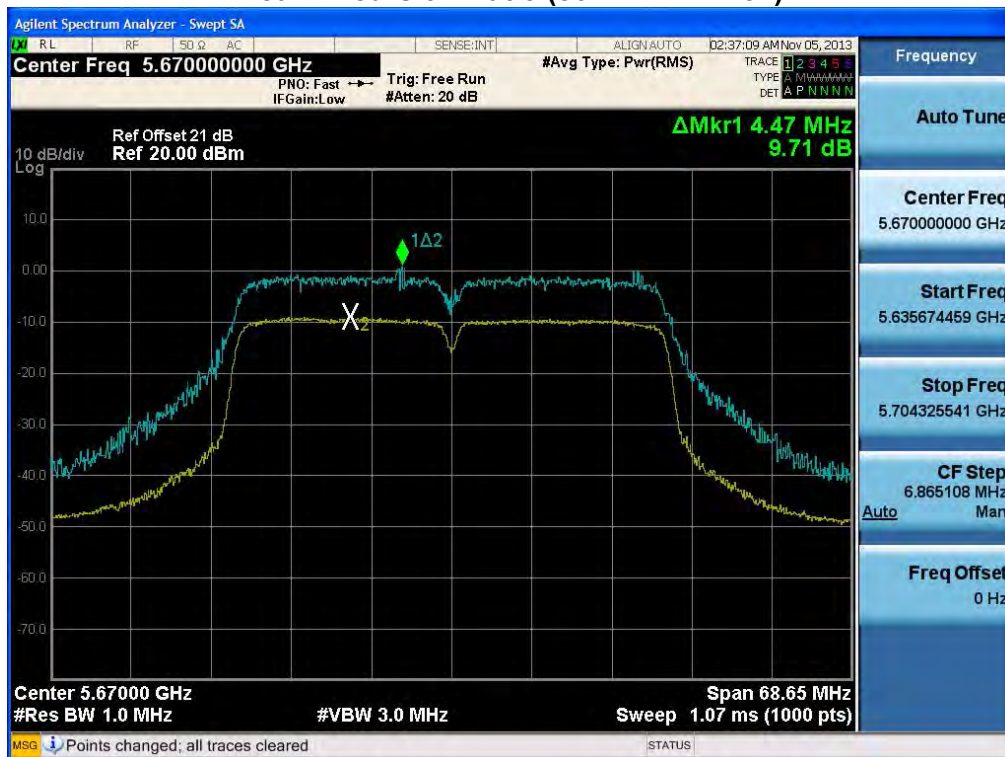
Peak Excursion Ratio (802.11n-CH 102)



Peak Excursion Ratio (802.11n-CH 118)



Peak Excursion Ratio (802.11n-CH 134)



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