

Client:	Intel Corporation	Job Number:	J83582
Model:	62205ANHMMW (Intel® Centrino® Advanced-N 6205) with WNC 81XCAA15.G03 Dipole	T-Log Number:	T83587
Contact:	Steven Hackett	Account Manager:	Christine Krebil
Standard:	FCC 15.247 / FCC 15 E / RSS 210	Class:	N/A

Run #1c, EUT on Channel #102 5510MHz - 802.11n40, Chain A+B

Date of Test: 6/20/2011

Test Location: FT Chamber #4

Test Engineer: Rafael Varelas

Config Change: none

Chain	Power Settings								Software Setting
	Target (dBm)				Measured (dBm)				
	A	B	C	Total	A	B	C	Total	
	10.0	10.0		13.0	10.3	10.2		13.3	21.5/22.0

Fundamental Signal Field Strength

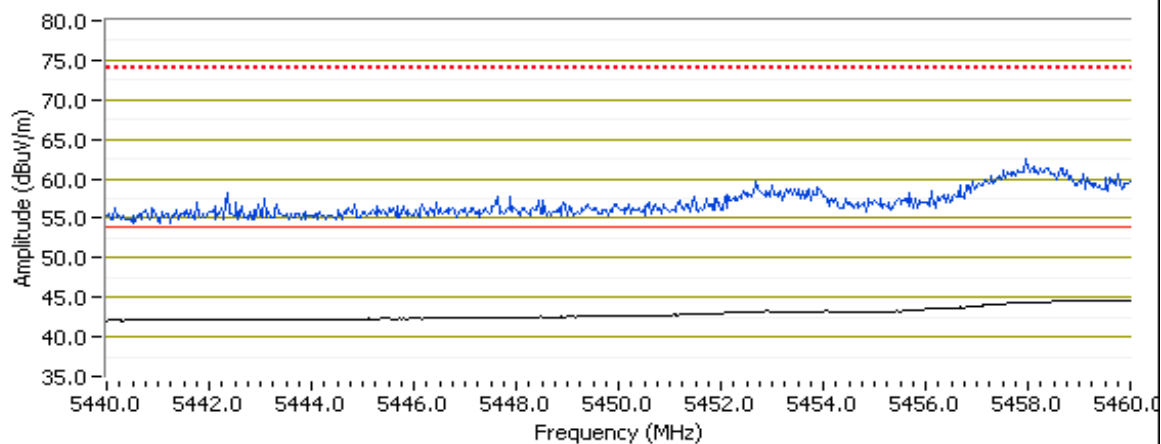
Frequency	Level	Pol	15.209 / 15 E		Detector	Azimuth	Height	Comments
MHz	dBμV/m	V/H	Limit	Margin	Pk/QP/Avg	degrees	meters	
5512.800	94.4	V	-	-	AVG	218	1.1	RB 1 MHz;VB 10 Hz;Pk
5522.600	103.7	V	-	-	PK	218	1.1	RB 1 MHz;VB 3 MHz;Pk
5507.330	85.7	H	-	-	AVG	323	1.0	RB 1 MHz;VB 10 Hz;Pk
5505.070	96.9	H	-	-	PK	323	1.0	RB 1 MHz;VB 3 MHz;Pk

5460 MHz Restricted Band Edge Signal Radiated Field Strength - Direct measurement of field strength

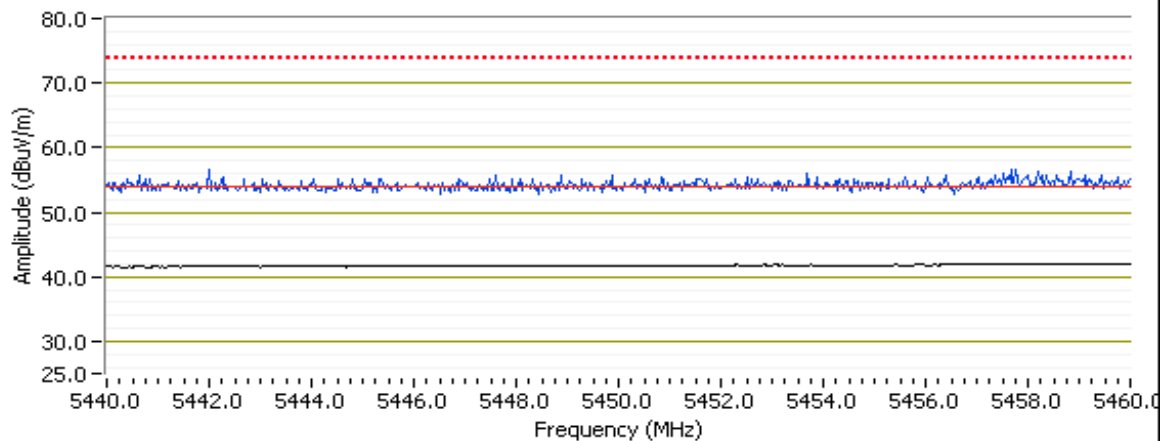
Frequency	Level	Pol	15.209 / 15 E		Detector	Azimuth	Height	Comments
MHz	dBμV/m	V/H	Limit	Margin	Pk/QP/Avg	degrees	meters	
5459.730	46.8	V	54.0	-7.2	AVG	214	1.2	RB 1 MHz;VB 10 Hz;Pk
5458.140	61.6	V	74.0	-12.4	PK	214	1.2	RB 1 MHz;VB 3 MHz;Pk
5459.870	44.1	H	54.0	-9.9	AVG	331	1.0	RB 1 MHz;VB 10 Hz;Pk
5457.870	55.7	H	74.0	-18.3	PK	331	1.0	RB 1 MHz;VB 3 MHz;Pk

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		Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210	Class:	N/A

RB 1 MHz; VB 10 Hz Avg (Black Trace); 1MHz=RB=VB (Blue Trace) Vertical



RB 1 MHz; VB 10 Hz Avg (Black Trace); 1MHz=RB=VB (Blue Trace) Horizontal

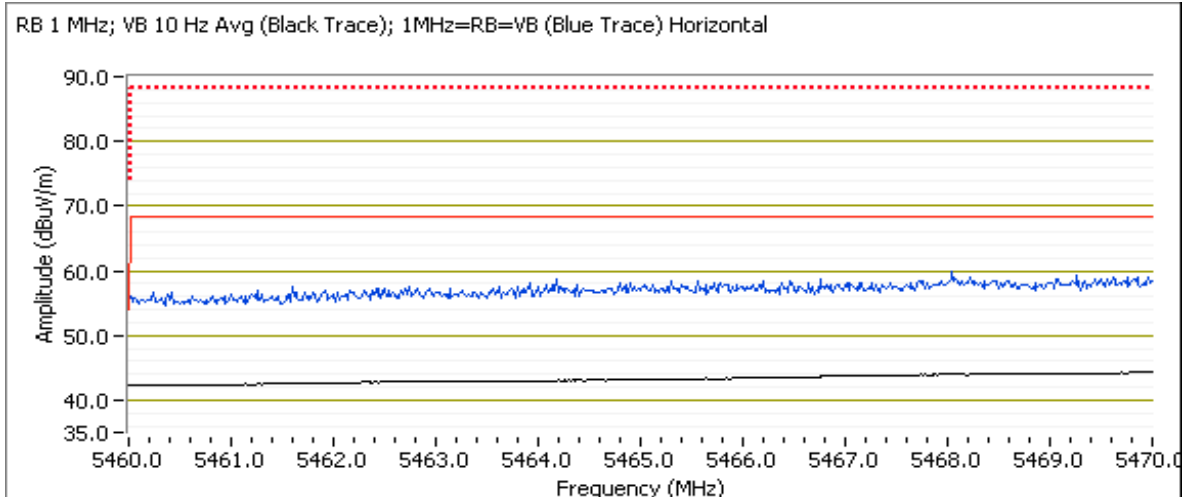
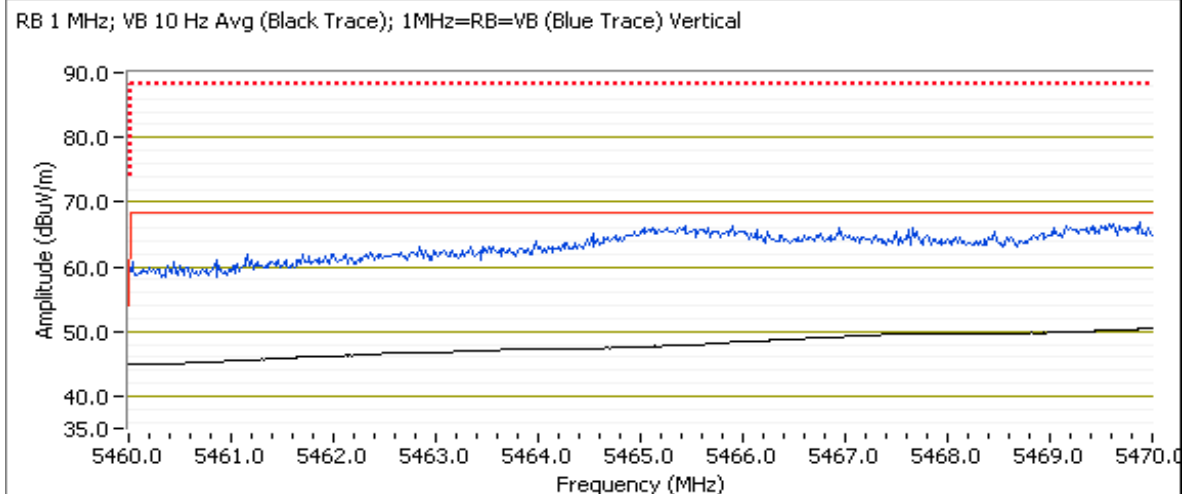


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Contact:	Steven Hackett	Account Manager:	Christine Krebil
Standard:	FCC 15.247 / FCC 15 E / RSS 210	Class:	N/A

5470 MHz Restricted Band Edge Signal Radiated Field Strength - Direct Measurement

Frequency	Level	Pol	15 E		Detector	Azimuth	Height	Comments
MHz	dBμV/m	V/H	Limit	Margin	Pk/QP/Avg	degrees	meters	
5468.970	66.3	V	68.3	-2.0	PK	214	1.2	RB 1 MHz;VB 3 MHz;Pk
5469.050	59.0	H	68.3	-9.3	PK	331	1.0	RB 1 MHz;VB 3 MHz;Pk
5469.870	53.2	V	68.3	-15.1	AVG	214	1.2	RB 1 MHz;VB 10 Hz;Pk

Peak readings. Limit of -27dBm/MHz eirp is for the same measurement method used for in-band power density (power averaging).



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Contact:	Steven Hackett	Account Manager:	Christine Krebil
Standard:	FCC 15.247 / FCC 15 E / RSS 210	Class:	N/A

Run # 2, Band Edge Field Strength - 802.11n40, Chain B

Run # 2a, EUT on Channel #38 5190MHz - 802.11n40, Chain B

Date of Test: 6/20/2011

Test Location: FT Chamber #4

Test Engineer: Rafael Varelas

Config Change: none

	Target (dBm)	Power Settings Measured (dBm)	Software Setting
Chain B	11.0	11.2	16.0

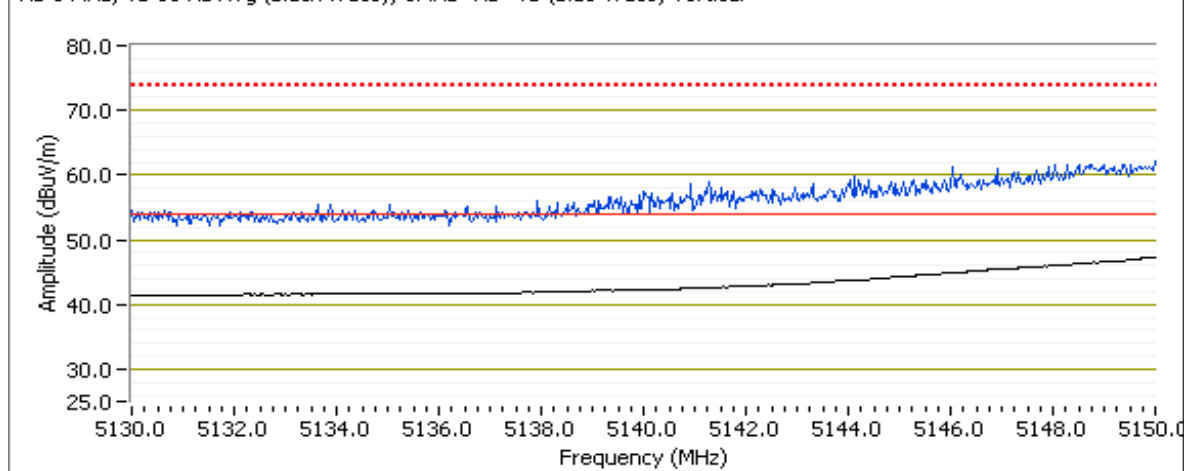
Fundamental Signal Field Strength

Frequency	Level	Pol	15.209 / 15 E		Detector	Azimuth	Height	Comments
MHz	dBμV/m	V/H	Limit	Margin	Pk/QP/Avg	degrees	meters	
5193.130	91.7	V	-	-	AVG	329	1.1	RB 1 MHz;VB 10 Hz;Pk
5192.670	100.8	V	-	-	PK	329	1.1	RB 1 MHz;VB 3 MHz;Pk
5187.270	83.5	H	-	-	AVG	334	1.0	RB 1 MHz;VB 10 Hz;Pk
5192.730	92.6	H	-	-	PK	334	1.0	RB 1 MHz;VB 3 MHz;Pk

5150 MHz Restricted Band Edge Signal Radiated Field Strength - Direct measurement of field strength

Frequency	Level	Pol	15.209 / 15 E		Detector	Azimuth	Height	Comments
MHz	dBμV/m	V/H	Limit	Margin	Pk/QP/Avg	degrees	meters	
5149.970	49.5	V	54.0	-4.5	AVG	91	1.0	RB 1 MHz;VB 10 Hz;Pk
5147.830	62.5	V	74.0	-11.5	PK	91	1.0	RB 1 MHz;VB 3 MHz;Pk
5149.970	43.3	H	54.0	-10.7	AVG	318	1.0	RB 1 MHz;VB 10 Hz;Pk
5147.890	54.5	H	74.0	-19.5	PK	318	1.0	RB 1 MHz;VB 3 MHz;Pk

RB 1 MHz; VB 10 Hz Avg (Black Trace); 1MHz=RB=VB (Blue Trace) Vertical



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Contact:	Steven Hackett	Account Manager:	Christine Krebil
Standard:	FCC 15.247 / FCC 15 E / RSS 210	Class:	N/A

RSS 210 and FCC 15 E (DTS) Radiated Spurious Emissions

Test Specific Details

Objective: The objective of this test session is to perform final qualification testing of the EUT with respect to the specification listed above.

Summary of Results

MAC Address: 001500634F48 DRTU Tool Version 1.1.3 Driver version 13.0.0.238

Run #	Mode	Channel	Target Power	Measured Power	Test Performed	Limit	Result / Margin
Run #3 - Band edge measurements in restricted bands based on worst case operating configurations for both 20- and 40-MHz channels from the original certification tests (n40 evaluated on separate data sheet, runs 1 and 2).							
Run # 3	802.11n20 Chain A+B	#36 5180MHz	A: 12.5 B: 12.5	A: 12.7 B: 12.6	Restricted Band Edge at 5150 MHz	15.209	45.8dBµV/m @ 5149.7MHz (-8.2dB)
		#64 5320MHz	A: 13.0 B: 13.0	A: 13.1 B: 13.2	Restricted Band Edge at 5350 MHz	15.209	44.5dBµV/m @ 5350.0MHz (-9.5dB)
		#100 5500MHz	A: 13.5 B: 13.5	A: 13.6 B: 13.8	Restricted Band Edge at 5460 MHz	15.209	45.0dBµV/m @ 5459.9MHz (-9.0dB)
					Band Edge at 5470 MHz	15 E	60.2dBµV/m @ 5469.9MHz (-8.1dB)
Run #4, 5 - Spurious emissions away from the band edges based on worst case operating configurations from the original certification tests. The 802.11n (20MHz) mode with both chains active was the worst case mode in the 5150-5250 MHz and 5250-5350 MHz bands. 802.11a mode was worst case in the upper 5470-5725 MHz band. For 802.11a mode Chain A and Chain B were tested on the center channel and worst-case chain evaluated on low and high channels.							
Run # 4	802.11n20 Chain A+B	#36 5180MHz	A: 16.0 B: 16.0	A: 16.0 B: 16.1	Radiated Emissions, 1 - 40 GHz	FCC 15.209 / 15 E	43.4dBµV/m @ 5413.7MHz (-10.6dB)
		#40 5200MHz	A: 16.0 B: 16.0	A: 16.1 B: 16.1			43.5dBµV/m @ 5413.7MHz (-10.5dB)
		#48 5240MHz	A: 16.0 B: 16.0	A: 16.1 B: 16.2			42.4dBµV/m @ 5038.8MHz (-11.6dB)
		#52 5260MHz	A: 16.0 B: 16.0	A: 16.0 B: 16.1			42.3dBµV/m @ 5415.6MHz (-11.7dB)
		#60 5300MHz	A: 16.5 B: 16.5	A: 16.6 B: 16.8			50.4dBµV/m @ 10600.0MHz (-3.6dB)
		#64 5320MHz	A: 16.0 B: 16.0	A: 16.2 B: 16.3			49.4dBµV/m @ 10639.2MHz (-4.6dB)

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Contact:	Steven Hackett	Account Manager:	Christine Krebil
Standard:	FCC 15.247 / FCC 15 E / RSS 210	Class:	N/A

Run #	Mode	Channel	Target Power	Measured Power	Test Performed	Limit	Result / Margin
Run # 5	802.11a Chain A	#100 5500MHz	16.5	16.7	Radiated Emissions, 1 - 40 GHz	FCC 15.209 / 15 E	44.0dBμV/m @ 1597.3MHz (-10.0dB)
	802.11a Chain B	#100 5500MHz	16.5	16.7			44.7dBμV/m @ 11000.1MHz (-9.3dB)
	802.11a Chain B	#120 5580MHz	16.5	16.6			44.5dBμV/m @ 11160.1MHz (-9.5dB)
		#140 5700MHz	16.5	16.6			43.9dBμV/m @ 1594.7MHz (-10.1dB)
Run #6 - Spurious emissions for receive mode, cenetr channel in each band.							
Run # 6	Receiver Chain A+B	#40 5200MHz	-	-	Radiated Emissions, 1 - 18 GHz	RSS GEN	44.8dBμV/m @ 6000.6MHz (-9.2dB)
		#60 5300MHz	-	-			44.7dBμV/m @ 9001.0MHz (-9.3dB)
		#116 5580MHz	-	-			46.3dBμV/m @ 6000.7MHz (-7.7dB)

General Test Configuration

The EUT and all local support equipment were located on the turntable for radiated spurious emissions testing.
For radiated emissions testing the measurement antenna was located 3 meters from the EUT.

Ambient Conditions:

Temperature: 15-25 °C
Rel. Humidity: 30-80 %

Modifications Made During Testing

No modifications were made to the EUT during testing

Deviations From The Standard

No deviations were made from the requirements of the standard.

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Contact:	Steven Hackett	Account Manager:	Christine Krebil
Standard:	FCC 15.247 / FCC 15 E / RSS 210	Class:	N/A

Run # 3, Band Edge Field Strength - 802.11n20, Chain A+B

Run # 3a, EUT on Channel #36 5180MHz - 802.11n20, Chain A+B

Date of Test: 6/16/2011

Test Location: FT Chamber#5

Test Engineer: Rafael Varelas

Config Change: none

Chain	Target (dBm)				Power Settings Measured (dBm)				Software Setting
	A	B	C	Total	A	B	C	Total	
	12.5	12.5		15.5	12.7	12.6		15.7	21.0/21.0

Fundamental Signal Field Strength

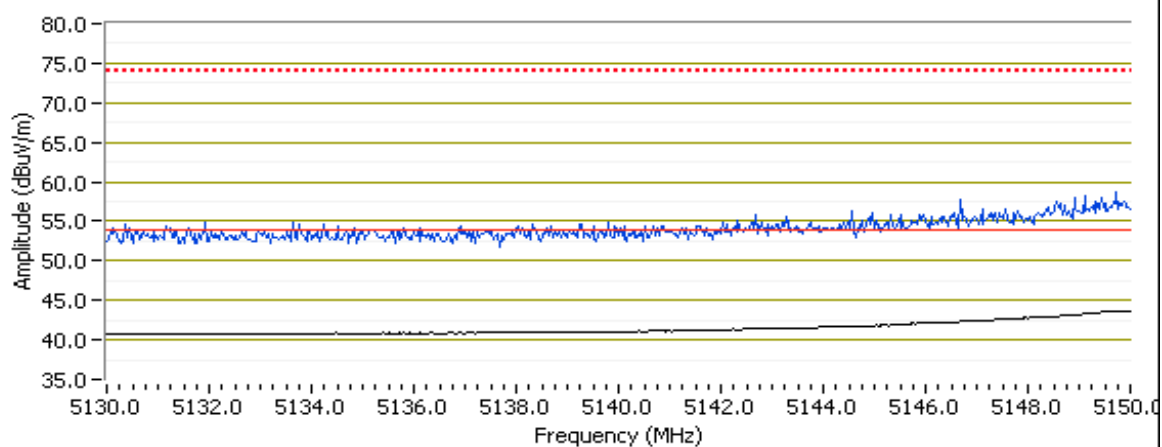
Frequency	Level	Pol	15.209 / 15 E		Detector	Azimuth	Height	Comments
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	
5173.570	95.7	V	-	-	AVG	240	1.0	RB 1 MHz;VB 10 Hz;Pk
5174.430	107.0	V	-	-	PK	240	1.0	RB 1 MHz;VB 3 MHz;Pk
5185.930	85.7	H	-	-	AVG	328	1.0	RB 1 MHz;VB 10 Hz;Pk
5177.130	95.8	H	-	-	PK	328	1.0	RB 1 MHz;VB 3 MHz;Pk

Field Strength at 5150 MHz Band Edge

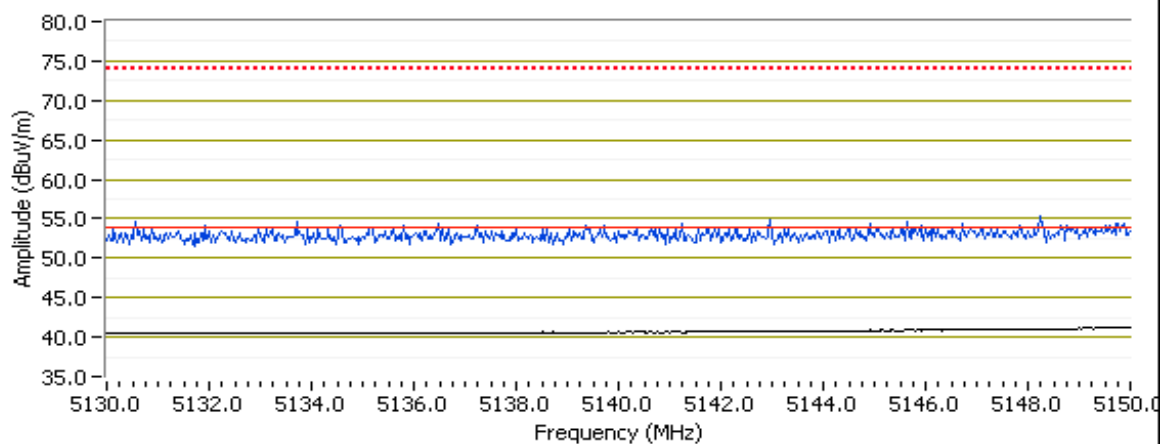
Frequency	Level	Pol	15.209 / 15 E		Detector	Azimuth	Height	Comments
MHz	dBμV/m	V/H	Limit	Margin	Pk/QP/Avg	degrees	meters	
5149.690	45.8	V	54.0	-8.2	AVG	258	1.0	RB 1 MHz;VB 10 Hz;Pk
5149.120	58.3	V	74.0	-15.7	PK	258	1.0	RB 1 MHz;VB 3 MHz;Pk
5149.310	43.4	H	54.0	-10.6	AVG	300	1.0	RB 1 MHz;VB 10 Hz;Pk
5149.410	55.9	H	74.0	-18.1	PK	300	1.0	RB 1 MHz;VB 3 MHz;Pk

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		Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210	Class:	N/A

RB 1 MHz; VB 10 Hz Avg (Black Trace); RB=VB=1MHz PK (Blue Trace) Vertical



RB 1 MHz; VB 10 Hz Avg (Black Trace); RB=VB=1MHz PK (Blue Trace) Horizontal



Client:	Intel Corporation	Job Number:	J83582
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205) with WNC 81XCAA15.G03 Dipole	T-Log Number:	T83587
Contact:	Steven Hackett	Account Manager:	Christine Krebil
Standard:	FCC 15.247 / FCC 15 E / RSS 210	Class:	N/A

Run # 3b, EUT on Channel #64 5320MHz - 802.11n20, Chain A+B

Date of Test: 6/16/2011

Test Location: FT Chamber#5

Test Engineer: Rafael Varelas

Config Change: none

Chain	Target (dBm)				Power Settings Measured (dBm)				Software Setting
	A	B	C	Total	A	B	C	Total	
	13.0	13.0		16.0	13.1	13.2		16.2	22.0/23.0

Fundamental Signal Field Strength

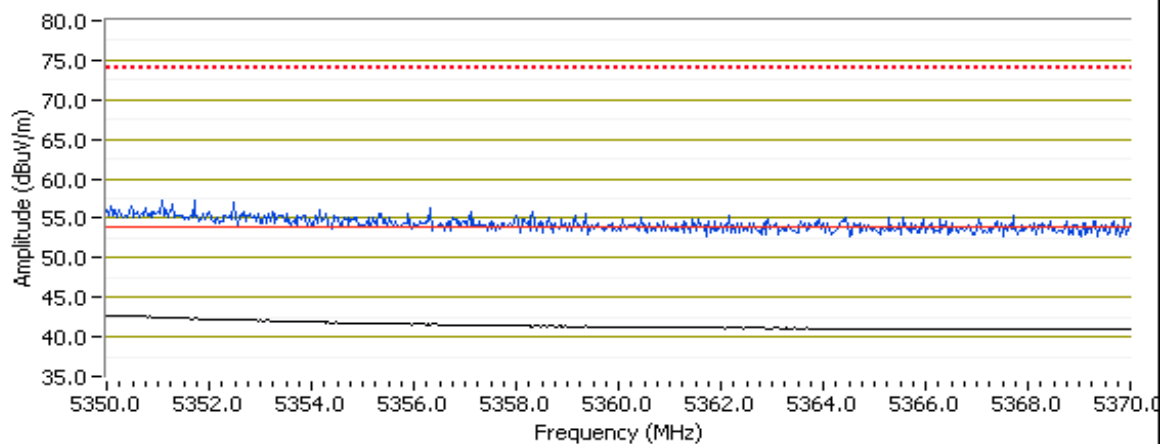
Frequency	Level	Pol	15.209 / 15 E		Detector	Azimuth	Height	Comments
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	
5326.030	96.0	V	-	-	AVG	228	1.3	RB 1 MHz;VB 10 Hz;Pk
5325.800	106.1	V	-	-	PK	228	1.3	RB 1 MHz;VB 3 MHz;Pk
5326.230	87.0	H	-	-	AVG	32	1.0	RB 1 MHz;VB 10 Hz;Pk
5315.470	97.1	H	-	-	PK	32	1.0	RB 1 MHz;VB 3 MHz;Pk

5350 MHz Band Edge Signal Radiated Field Strength

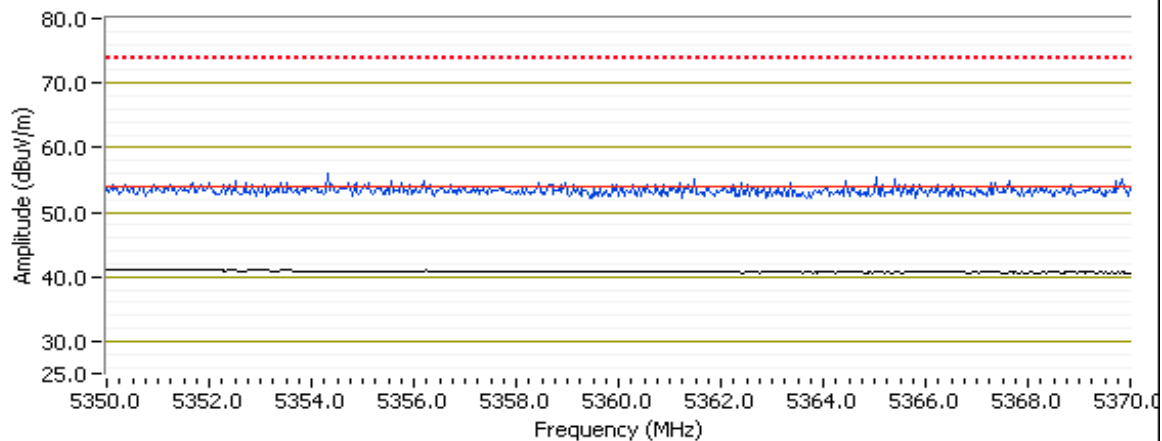
Frequency	Level	Pol	15.209 / 15 E		Detector	Azimuth	Height	Comments
MHz	dBμV/m	V/H	Limit	Margin	Pk/QP/Avg	degrees	meters	
5350.000	44.5	V	54.0	-9.5	AVG	146	1.0	RB 1 MHz;VB 10 Hz;Pk
5352.270	55.9	V	74.0	-18.1	PK	146	1.0	RB 1 MHz;VB 3 MHz;Pk
5350.010	43.3	H	54.0	-10.7	AVG	96	1.0	RB 1 MHz;VB 10 Hz;Pk
5351.500	54.5	H	74.0	-19.5	PK	96	1.0	RB 1 MHz;VB 3 MHz;Pk

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Contact:	Steven Hackett	Account Manager:	Christine Krebil
Standard:	FCC 15.247 / FCC 15 E / RSS 210	Class:	N/A

RB 1 MHz; VB 10 Hz Avg (Black Trace); RB=VB=1MHz PK (Blue Trace) Vertical



RB 1 MHz; VB 10 Hz Avg (Black Trace); RB=VB=1MHz PK (Blue Trace) Horizontal



Client:	Intel Corporation	Job Number:	J83582
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Contact:	Steven Hackett	Account Manager:	Christine Krebil
Standard:	FCC 15.247 / FCC 15 E / RSS 210	Class:	N/A

Run # 3c, EUT on Channel #100 5500MHz - 802.11n20, Chain A+B

Chain	Target (dBm)				Power Settings Measured (dBm)				Software Setting
	A	B	C	Total	A	B	C	Total	
	13.5	13.5		16.5	13.6	13.8		16.7	25.5/26.5

Fundamental Signal Field Strength

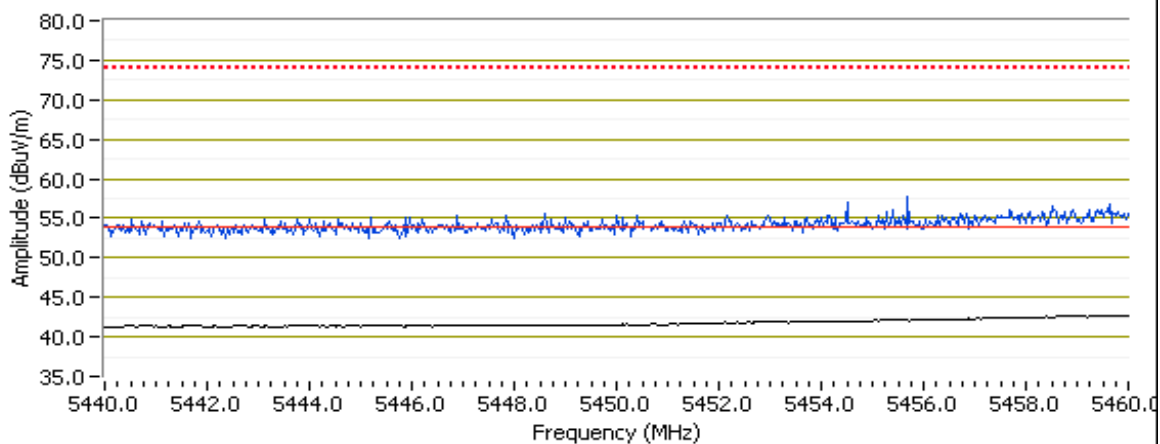
Frequency	Level	Pol	15.209 / 15 E		Detector	Azimuth	Height	Comments
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	
5498.870	96.7	V	-	-	AVG	210	1.1	RB 1 MHz;VB 10 Hz;Pk
5494.530	106.8	V	-	-	PK	210	1.1	RB 1 MHz;VB 3 MHz;Pk
5504.770	89.4	H	-	-	AVG	350	1.1	RB 1 MHz;VB 10 Hz;Pk
5505.900	99.7	H	-	-	PK	350	1.1	RB 1 MHz;VB 3 MHz;Pk

5460 MHz Restricted Band Edge Signal Radiated Field Strength - Direct measurement of field strength

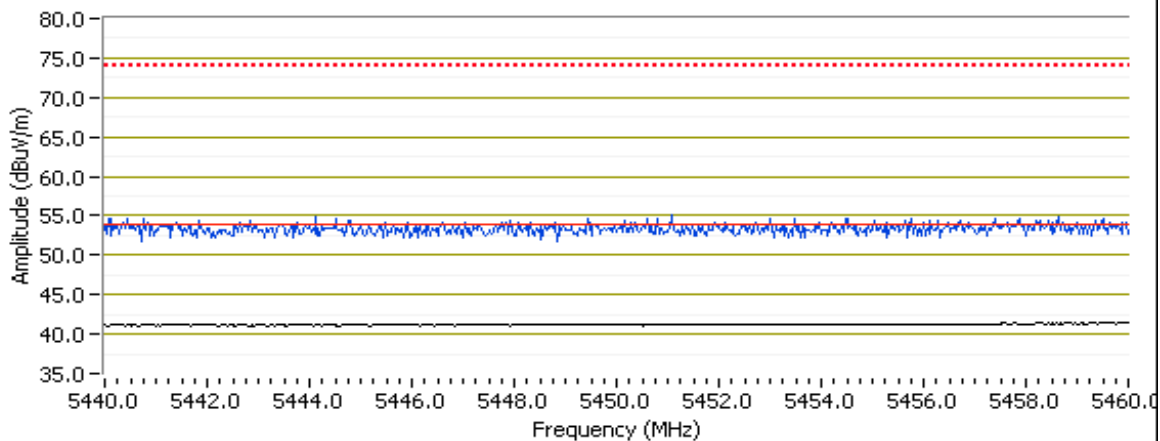
Frequency	Level	Pol	15.209 / 15 E		Detector	Azimuth	Height	Comments
MHz	dBμV/m	V/H	Limit	Margin	Pk/QP/Avg	degrees	meters	
5459.870	45.0	V	54.0	-9.0	AVG	219	1.3	RB 1 MHz;VB 10 Hz;Pk
5458.070	56.7	V	74.0	-17.3	PK	219	1.3	RB 1 MHz;VB 3 MHz;Pk
5460.000	43.6	H	54.0	-10.4	AVG	334	1.0	RB 1 MHz;VB 10 Hz;Pk
5458.440	54.8	H	74.0	-19.2	PK	334	1.0	RB 1 MHz;VB 3 MHz;Pk

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		Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210	Class:	N/A

RB 1 MHz; VB 10 Hz Avg (Black Trace); RB=VB=1MHz PK (Blue Trace) Vertical



RB 1 MHz; VB 10 Hz Avg (Black Trace); RB=VB=1MHz PK (Blue Trace) Horizontal



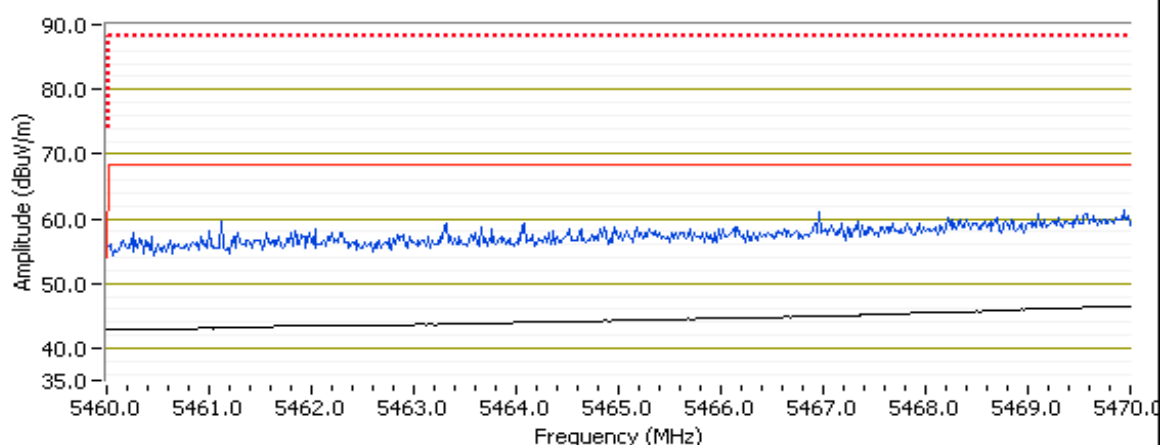
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Contact:	Steven Hackett	Account Manager:	Christine Krebil
Standard:	FCC 15.247 / FCC 15 E / RSS 210	Class:	N/A

5470 MHz Restricted Band Edge Signal Radiated Field Strength - Direct Measurement

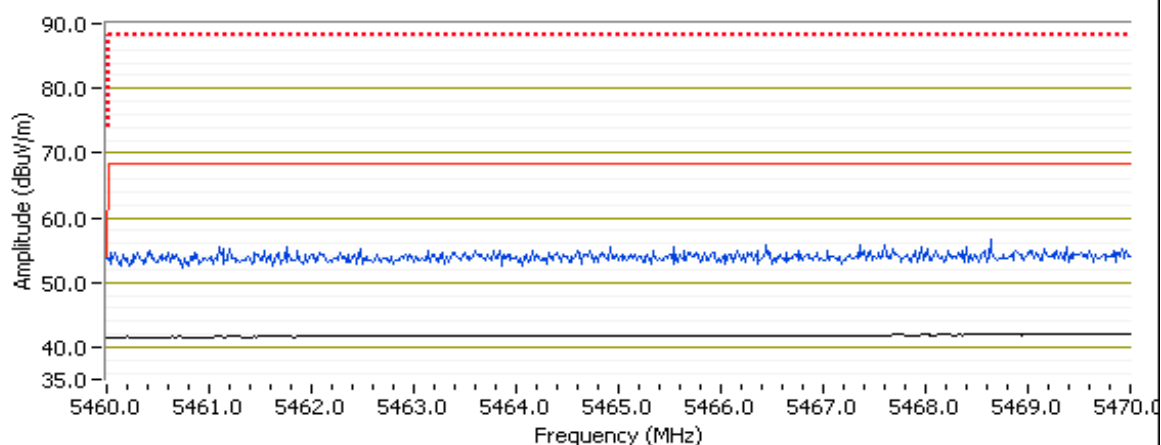
Frequency	Level	Pol	15 E		Detector	Azimuth	Height	Comments
MHz	dBμV/m	V/H	Limit	Margin	Pk/QP/Avg	degrees	meters	
5469.890	60.2	V	68.3	-8.1	PK	219	1.3	RB 1 MHz;VB 3 MHz;Pk
5468.830	55.3	H	68.3	-13.0	PK	334	1.0	RB 1 MHz;VB 3 MHz;Pk

Peak readings. Limit of -27dBm/MHz eirp is for the same measurement method used for in-band power density (power averaging).

RB 1 MHz; VB 10 Hz Avg (Black Trace); RB=VB=1MHz PK (Blue Trace) Vertical



RB 1 MHz; VB 10 Hz Avg (Black Trace); RB=VB=1MHz PK (Blue Trace) Horizontal



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Contact:	Steven Hackett	Account Manager:	Christine Krebil
Standard:	FCC 15.247 / FCC 15 E / RSS 210	Class:	N/A

Run # 4, Radiated Spurious Emissions, 1-40GHz, 802.11n20, Chain A+B

Date of Test: 6/16/2011

Test Location: FT Chamber#4

Test Engineer: Joseph Cadigal

Config Change: none

Note 1:	For emissions in restricted bands, the limit of 15.209 was used which requires average and peak measurements.
Note 2:	For emissions outside of the restricted bands the limit is -27dBm/MHz eirp (68.3dBuV/m). The measurement method required is the same measurement method used to determine the in-band power spectral density or a peak measurement (RB=1MHz, VB>1MHz). Pavg indicates that the power averaging method of measurement was used for the measurement of emissions outside of the restricted bands. PK indicates that a peak measurement was made.
Note 3:	No significant emissions above 18GHz

For emissions in restricted bands, the limit of 15.209 was used. For all other emissions, the limit is -27dBm eirp (68.3dBuV/m @3m). As the power measured is average power this is considered an average limit so the peak limit would be 88.3dBuV/m at 3m.

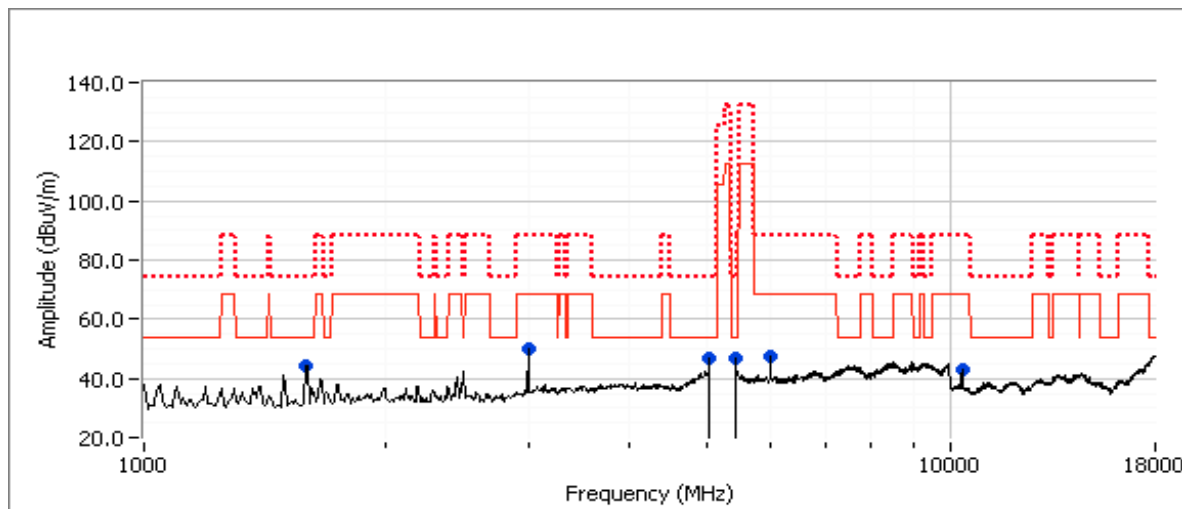
Client:	Intel Corporation	Job Number:	J83582
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205) with WNC 81XCAA15.G03 Dipole	T-Log Number:	T83587
Contact:	Steven Hackett	Account Manager:	Christine Krebil
Standard:	FCC 15.247 / FCC 15 E / RSS 210	Class:	N/A

Run # 4a: EUT on Channel #36 5180MHz - 802.11n20, Chain A+B

Chain	Target (dBm)				Power Settings Measured (dBm)				Software Setting
	A	B	C	Total	A	B	C	Total	
	16.0	16.0		19.0	16.0	16.1		19.1	24,25

Spurious Radiated Emissions:

Frequency	Level	Pol	15.209 / 15E		Detector	Azimuth	Height	Comments
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	
5413.690	43.4	H	54.0	-10.6	AVG	16	1.0	RB 1 MHz;VB 10 Hz;Pk
5039.360	42.4	V	54.0	-11.6	AVG	55	1.6	RB 1 MHz;VB 10 Hz;Pk
1594.070	38.9	V	54.0	-15.1	AVG	193	1.0	RB 1 MHz;VB 10 Hz;Pk
3000.220	53.0	H	68.3	-15.3	PK	184	1.0	RB 1 MHz;VB 3 MHz;Pk
6000.710	49.7	V	68.3	-18.6	PK	164	1.0	RB 1 MHz;VB 3 MHz;Pk
10359.890	49.6	V	68.3	-18.7	PK	39	1.6	RB 1 MHz;VB 3 MHz;Pk
5413.460	55.0	H	74.0	-19.0	PK	16	1.0	RB 1 MHz;VB 3 MHz;Pk
5037.840	54.3	V	74.0	-19.7	PK	55	1.6	RB 1 MHz;VB 3 MHz;Pk
1593.080	53.0	V	74.0	-21.0	PK	193	1.0	RB 1 MHz;VB 3 MHz;Pk



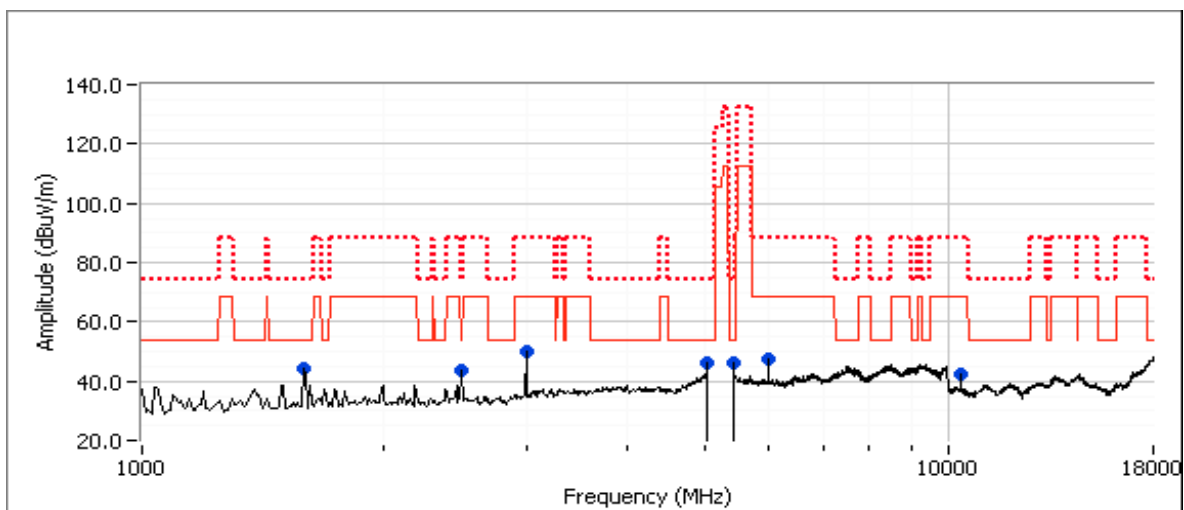
Client:	Intel Corporation	Job Number:	J83582
Model:	62205ANHMMW (Intel® Centrino® Advanced-N 6205) with WNC 81XCAA15.G03 Dipole	T-Log Number:	T83587
Contact:	Steven Hackett	Account Manager:	Christine Krebil
Standard:	FCC 15.247 / FCC 15 E / RSS 210	Class:	N/A

Run # 4b: EUT on Channel #40 5200MHz - 802.11n20, Chain A+B

	Power Settings								
	Target (dBm)				Measured (dBm)				Software Setting
	A	B	C	Total	A	B	C	Total	
Chain	16.0	16.0		19.0	16.1	16.1		19.1	25.5,25.5

Spurious Radiated Emissions:

Frequency	Level	Pol	15.209 / 15E		Detector	Azimuth	Height	Comments
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	
5413.730	43.5	V	54.0	-10.5	AVG	3	1.6	RB 1 MHz;VB 10 Hz;Pk
5035.110	41.5	V	54.0	-12.5	AVG	346	1.6	RB 1 MHz;VB 10 Hz;Pk
6000.590	51.4	V	68.3	-16.9	PK	154	1.0	RB 1 MHz;VB 3 MHz;Pk
5415.620	55.2	V	74.0	-18.8	PK	3	1.6	RB 1 MHz;VB 3 MHz;Pk
5035.740	53.3	V	74.0	-20.7	PK	346	1.6	RB 1 MHz;VB 3 MHz;Pk
1594.060	32.1	V	54.0	-21.9	AVG	211	1.0	RB 1 MHz;VB 10 Hz;Pk
2488.110	31.3	H	54.0	-22.7	AVG	145	1.0	RB 1 MHz;VB 10 Hz;Pk
2488.030	50.6	H	74.0	-23.4	PK	145	1.0	RB 1 MHz;VB 3 MHz;Pk
10380.210	41.8	V	68.3	-26.5	PK	360	1.3	RB 1 MHz;VB 3 MHz;Pk
3004.020	41.6	H	68.3	-26.7	PK	188	1.0	RB 1 MHz;VB 3 MHz;Pk
1592.810	45.2	V	74.0	-28.8	PK	211	1.0	RB 1 MHz;VB 3 MHz;Pk



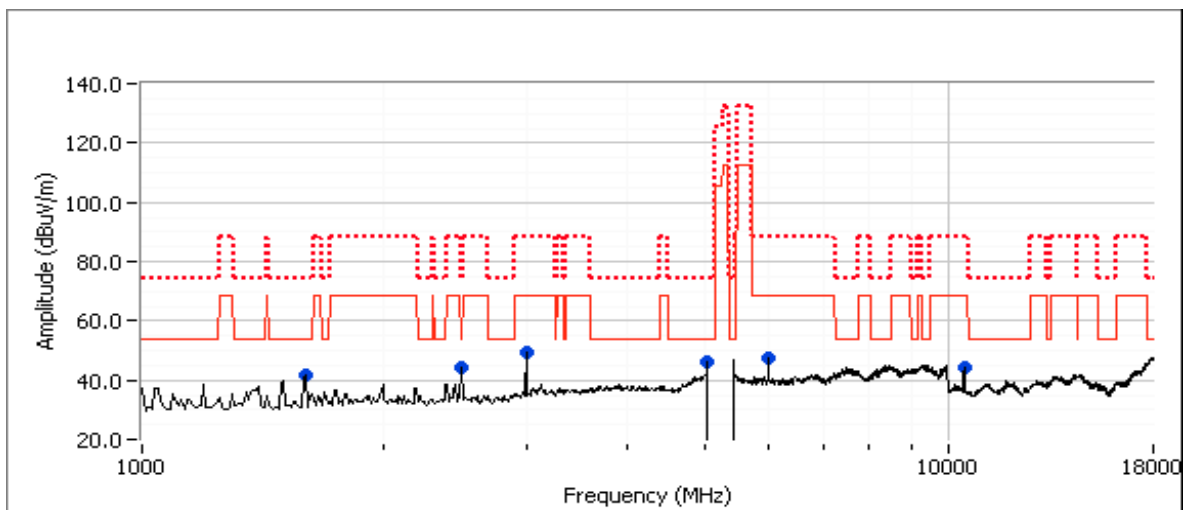
Client:	Intel Corporation	Job Number:	J83582
Model:	62205ANHMMW (Intel® Centrino® Advanced-N 6205) with WNC 81XCAA15.G03 Dipole	T-Log Number:	T83587
Contact:	Steven Hackett	Account Manager:	Christine Krebil
Standard:	FCC 15.247 / FCC 15 E / RSS 210	Class:	N/A

Run # 4c: EUT on Channel #48 5240MHz - 802.11n20, Chain A+B

Chain	Target (dBm)				Power Settings Measured (dBm)				Software Setting
	A	B	C	Total	A	B	C	Total	
	16.0	16.0		19.0	16.1	16.2		19.2	26,26

Spurious Radiated Emissions:

Frequency	Level	Pol	15.209 / 15E		Detector	Azimuth	Height	Comments
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	
5038.770	42.4	V	54.0	-11.6	AVG	351	1.6	RB 1 MHz;VB 10 Hz;Pk
3000.290	54.0	H	68.3	-14.3	PK	184	1.0	RB 1 MHz;VB 3 MHz;Pk
6000.720	52.5	V	68.3	-15.8	PK	150	1.0	RB 1 MHz;VB 3 MHz;Pk
1599.150	35.3	V	54.0	-18.7	AVG	179	1.3	RB 1 MHz;VB 10 Hz;Pk
5038.460	53.6	V	74.0	-20.4	PK	351	1.6	RB 1 MHz;VB 3 MHz;Pk
2496.590	52.9	H	74.0	-21.1	PK	226	1.0	RB 1 MHz;VB 3 MHz;Pk
2497.240	32.8	H	54.0	-21.2	AVG	226	1.0	RB 1 MHz;VB 10 Hz;Pk
1598.960	48.5	V	74.0	-25.5	PK	179	1.3	RB 1 MHz;VB 3 MHz;Pk
10467.480	42.7	V	68.3	-25.6	PK	11	1.0	RB 1 MHz;VB 3 MHz;Pk



Client:	Intel Corporation	Job Number:	J83582
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205) with WNC 81XCAA15.G03 Dipole	T-Log Number:	T83587
Contact:	Steven Hackett	Account Manager:	Christine Krebil
Standard:	FCC 15.247 / FCC 15 E / RSS 210	Class:	N/A

Run # 4d: EUT on Channel #52 5260MHz - 802.11n20, Chain A+B

Date of Test: 6/16/2011

Test Location: FT Chamber#4

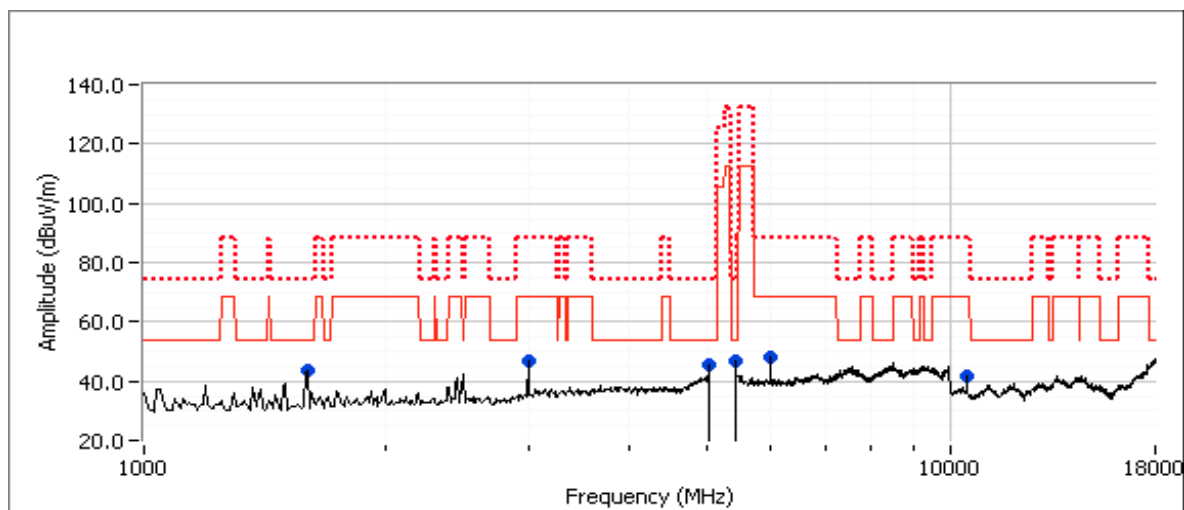
Test Engineer: Joseph Cadigal

Config Change: -

Chain	Target (dBm)				Measured (dBm)				Software Setting
	A	B	C	Total	A	B	C	Total	
	16.0	16.0		19.0	16.0	16.1		19.1	26,26

Spurious Radiated Emissions:

Frequency	Level	Pol	15.209 / 15E		Detector	Azimuth	Height	Comments
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	
5415.560	42.3	V	54.0	-11.7	AVG	321	1.0	RB 1 MHz;VB 10 Hz;Pk
5037.480	41.6	V	54.0	-12.4	AVG	70	1.6	RB 1 MHz;VB 10 Hz;Pk
1593.300	39.3	V	54.0	-14.7	AVG	193	1.0	RB 1 MHz;VB 10 Hz;Pk
10520.070	50.5	V	68.3	-17.8	PK	10	1.0	RB 1 MHz;VB 3 MHz;Pk
1593.360	53.5	V	74.0	-20.5	PK	193	1.0	RB 1 MHz;VB 3 MHz;Pk
5416.050	53.2	V	74.0	-20.8	PK	321	1.0	RB 1 MHz;VB 3 MHz;Pk
5036.020	52.9	V	74.0	-21.1	PK	70	1.6	RB 1 MHz;VB 3 MHz;Pk
5988.100	46.2	V	68.3	-22.1	PK	161	1.0	RB 1 MHz;VB 3 MHz;Pk
2993.230	42.8	H	68.3	-25.5	PK	187	1.6	RB 1 MHz;VB 3 MHz;Pk



Client:	Intel Corporation	Job Number:	J83582
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205) with WNC 81XCAA15.G03 Dipole	T-Log Number:	T83587
Contact:	Steven Hackett	Account Manager:	Christine Krebil
Standard:	FCC 15.247 / FCC 15 E / RSS 210	Class:	N/A

Run # 4e: EUT on Channel #60 5300MHz - 802.11n20, Chain A+B

Date of Test: 6/17/2011

Test Location: FT Chamber #4

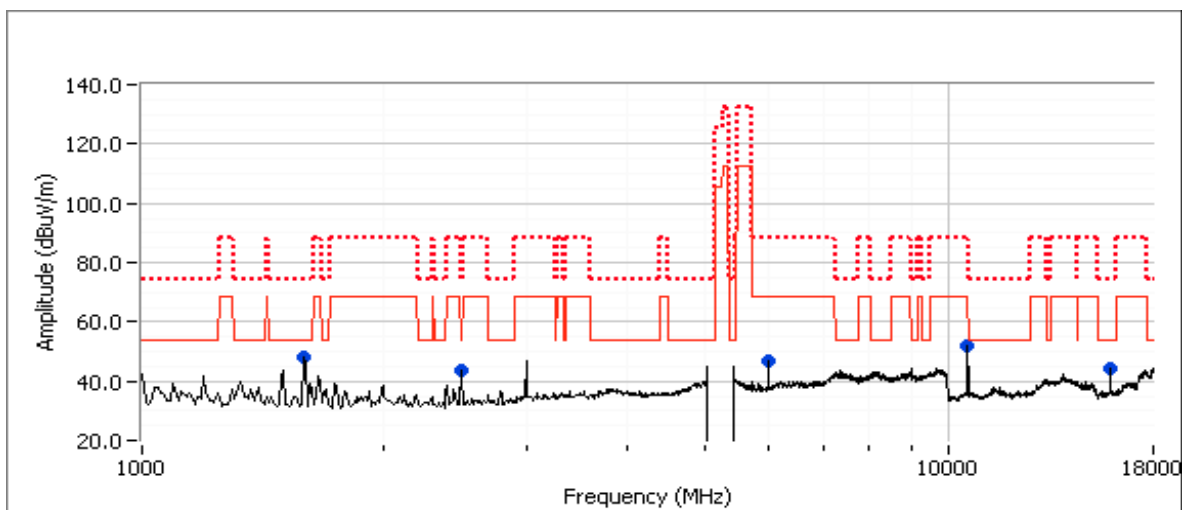
Test Engineer: Rafael Varelas

Config Change: -

Chain	Target (dBm)				Power Settings Measured (dBm)				Software Setting
	A	B	C	Total	A	B	C	Total	
	16.5	16.5		19.5	16.6	16.8		19.7	27.0/28.5

Spurious Radiated Emissions:

Frequency	Level	Pol	15.209 / 15E		Detector	Azimuth	Height	Comments
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	
10600.040	50.4	V	54.0	-3.6	AVG	15	1.0	RB 1 MHz;VB 10 Hz;Pk
10600.110	64.4	V	74.0	-9.6	PK	15	1.0	RB 1 MHz;VB 3 MHz;Pk
15899.500	40.5	V	54.0	-13.5	AVG	208	1.0	RB 1 MHz;VB 10 Hz;Pk
15903.200	52.3	V	74.0	-21.7	PK	208	1.0	RB 1 MHz;VB 3 MHz;Pk
1594.160	43.2	V	54.0	-10.8	AVG	133	1.0	RB 1 MHz;VB 10 Hz;Pk
1593.960	56.3	V	74.0	-17.7	PK	133	1.0	RB 1 MHz;VB 3 MHz;Pk
2490.590	33.9	H	54.0	-20.1	AVG	217	1.0	RB 1 MHz;VB 10 Hz;Pk
2495.900	52.5	H	74.0	-21.5	PK	217	1.0	RB 1 MHz;VB 3 MHz;Pk
6000.210	46.8	V	68.3	-21.5	Peak	122	1.0	RB 1 MHz;VB 3 MHz;Pk



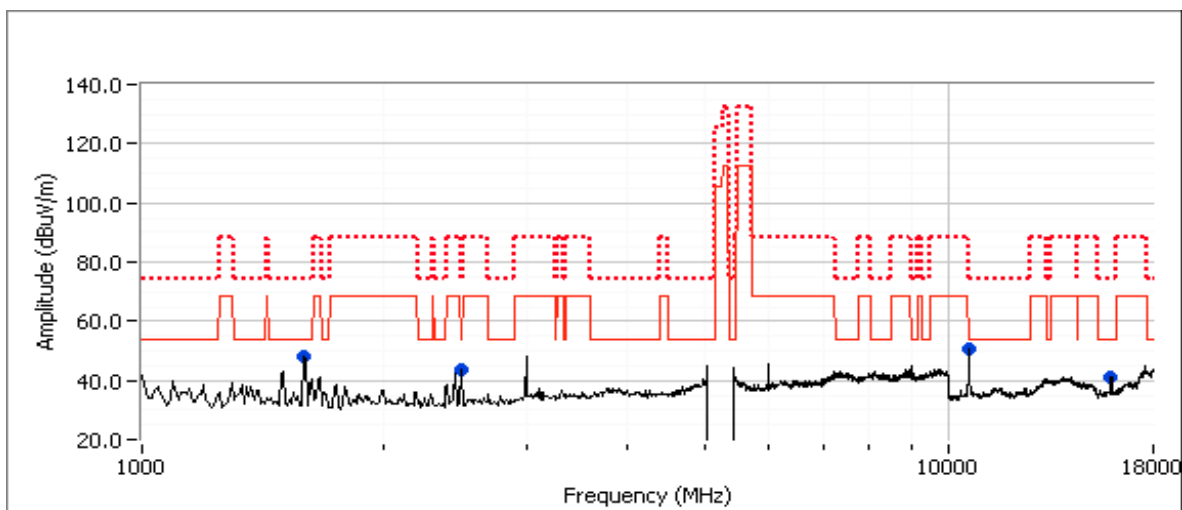
Client:	Intel Corporation	Job Number:	J83582
Model:	62205ANHMMW (Intel® Centrino® Advanced-N 6205) with WNC 81XCAA15.G03 Dipole	T-Log Number:	T83587
Contact:	Steven Hackett	Account Manager:	Christine Krebil
Standard:	FCC 15.247 / FCC 15 E / RSS 210	Class:	N/A

Run # 4f: EUT on Channel #64 5320MHz - 802.11n20, Chain A+B

Chain	Target (dBm)				Power Settings				Software Setting
	A	B	C	Total	A	B	C	Total	
	16.0	16.0		19.0	16.2	16.3		19.3	27.0/28.5

Spurious Radiated Emissions:

Frequency	Level	Pol	15.209 / 15E		Detector	Azimuth	Height	Comments
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	
10639.230	49.4	V	54.0	-4.6	AVG	12	1.0	RB 1 MHz;VB 10 Hz;Pk
10640.230	62.7	V	74.0	-11.3	PK	12	1.0	RB 1 MHz;VB 3 MHz;Pk
15960.160	41.3	V	54.0	-12.7	Peak	215	1.0	
1596.600	42.1	V	54.0	-11.9	AVG	132	1.0	RB 1 MHz;VB 10 Hz;Pk
1595.200	56.0	V	74.0	-18.0	PK	132	1.0	RB 1 MHz;VB 3 MHz;Pk
2490.280	33.1	V	54.0	-20.9	AVG	137	1.0	RB 1 MHz;VB 10 Hz;Pk
2497.120	52.5	V	74.0	-21.5	PK	137	1.0	RB 1 MHz;VB 3 MHz;Pk



Client:	Intel Corporation	Job Number:	J83582
Model:	62205ANHWW (Intel® Centrino® Advanced-N 6205) with WNC 81XCAA15.G03 Dipole	T-Log Number:	T83587
Contact:	Steven Hackett	Account Manager:	Christine Krebil
Standard:	FCC 15.247 / FCC 15 E / RSS 210	Class:	N/A

Run # 5, Radiated Spurious Emissions, 1-40GHz, 802.11a, Chain A/B

Date of Test: 6/17/2011

Test Location: FT Chamber #4

Test Engineer: Rafael Varelas

Config Change: -

Note 1:	For emissions in restricted bands, the limit of 15.209 was used which requires average and peak measurements.
Note 2:	For emissions outside of the restricted bands the limit is -27dBm/MHz eirp (68.3dBuV/m). The measurement method required is the same measurement method used to determine the in-band power spectral density or a peak measurement (RB=1MHz, VB>1MHz). Pavg indicates that the power averaging method of measurement was used for the measurement of emissions outside of the restricted bands. PK indicates that a peak measurement was made.

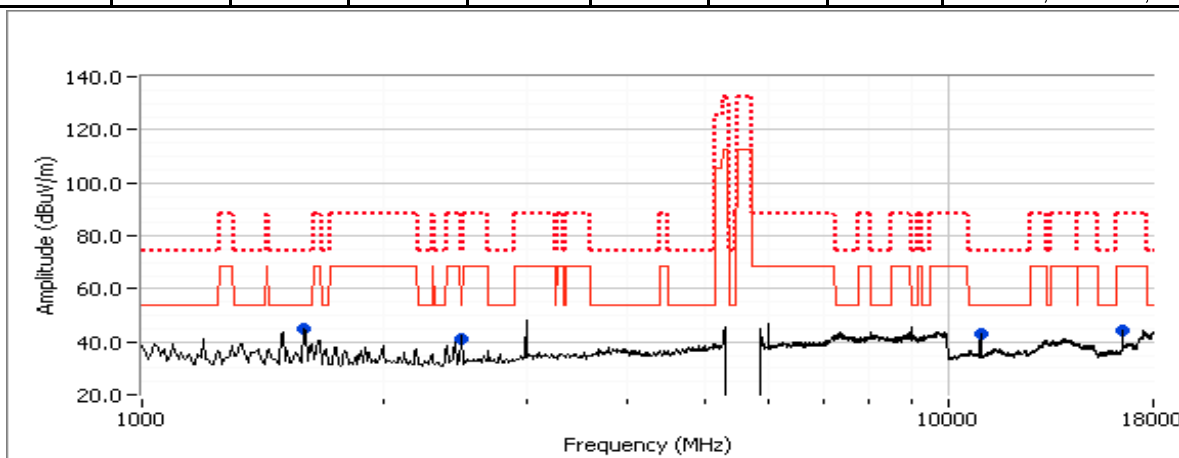
For emissions in restricted bands, the limit of 15.209 was used. For all other emissions, the limit is -27dBm eirp (68.3dBuV/m @3m). As the power measured is average power this is considered an average limit so the peak limit would be 88.3dBuV/m at 3m.

Run # 5a: EUT on Channel #100 5500MHz - 802.11a, Chain A

	Target (dBm)	Power Settings Measured (dBm)	Software Setting
Chain A	16.5	16.7	26.0

Spurious Radiated Emissions:

Frequency MHz	Level dBuV/m	Pol v/h	15.209 / 15E Limit Margin	Detector Pk/QP/Avg	Azimuth degrees	Height meters	Comments
1597.260	44.0	V	54.0 -10.0	AVG	130	1.0	RB 1 MHz;VB 10 Hz;Pk
1593.500	57.0	V	74.0 -17.0	PK	130	1.0	RB 1 MHz;VB 3 MHz;Pk
10999.870	42.4	V	54.0 -11.6	AVG	310	1.0	RB 1 MHz;VB 10 Hz;Pk
11002.270	54.4	V	74.0 -19.6	PK	310	1.0	RB 1 MHz;VB 3 MHz;Pk
16520.000	44.3	V	68.3 -24.0	Peak	214	1.0	RB 1 MHz;VB 3 MHz;Pk
2490.980	33.6	V	54.0 -20.4	AVG	136	1.0	RB 1 MHz;VB 10 Hz;Pk
2489.120	54.1	V	74.0 -19.9	PK	136	1.0	RB 1 MHz;VB 3 MHz;Pk



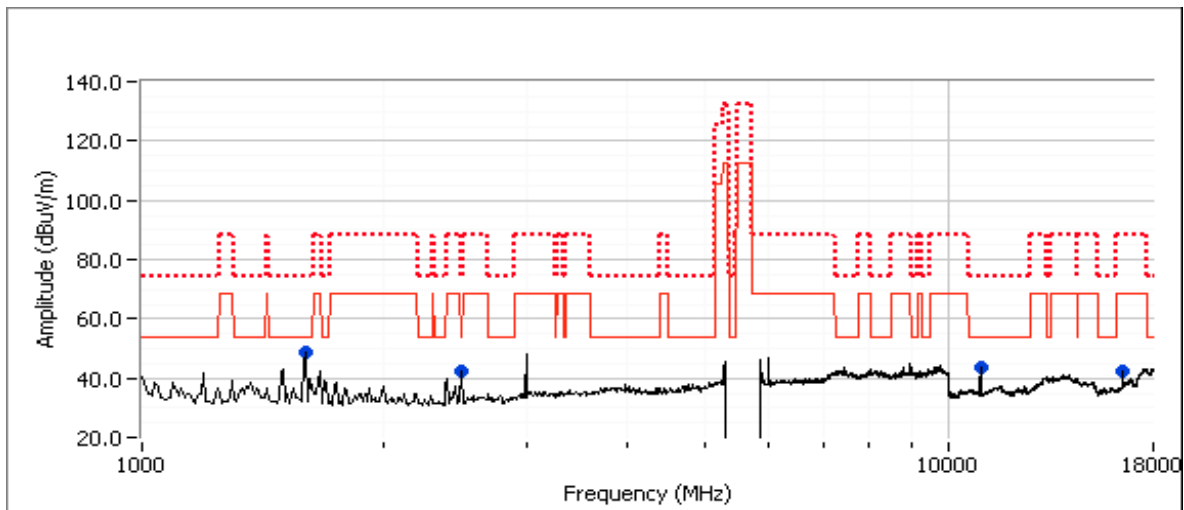
Client:	Intel Corporation	Job Number:	J83582
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205) with WNC 81XCAA15.G03 Dipole	T-Log Number:	T83587
Contact:	Steven Hackett	Account Manager:	Christine Krebil
Standard:	FCC 15.247 / FCC 15 E / RSS 210	Class:	N/A

Run # 5b: EUT on Channel #100 5500MHz - 802.11a, Chain B

	Target (dBm)	Power Settings Measured (dBm)	Software Setting
Chain B	16.5	16.7	26.5

Spurious Radiated Emissions:

Frequency MHz	Level dBμV/m	Pol v/h	15.209 / 15E		Detector Pk/QP/Avg	Azimuth degrees	Height meters	Comments
			Limit	Margin				
11000.080	44.7	V	54.0	-9.3	AVG	67	1.0	RB 1 MHz;VB 10 Hz;Pk
11000.710	55.9	V	74.0	-18.1	PK	67	1.0	RB 1 MHz;VB 3 MHz;Pk
16511.480	42.1	V	68.3	-26.2	Peak	304	1.0	RB 1 MHz;VB 3 MHz;Pk
1594.740	43.3	V	54.0	-10.7	AVG	127	1.0	RB 1 MHz;VB 10 Hz;Pk
1594.540	56.1	V	74.0	-17.9	PK	127	1.0	RB 1 MHz;VB 3 MHz;Pk
2490.640	32.9	V	54.0	-21.1	AVG	206	1.0	RB 1 MHz;VB 10 Hz;Pk
2489.380	51.5	V	74.0	-22.5	PK	206	1.0	RB 1 MHz;VB 3 MHz;Pk



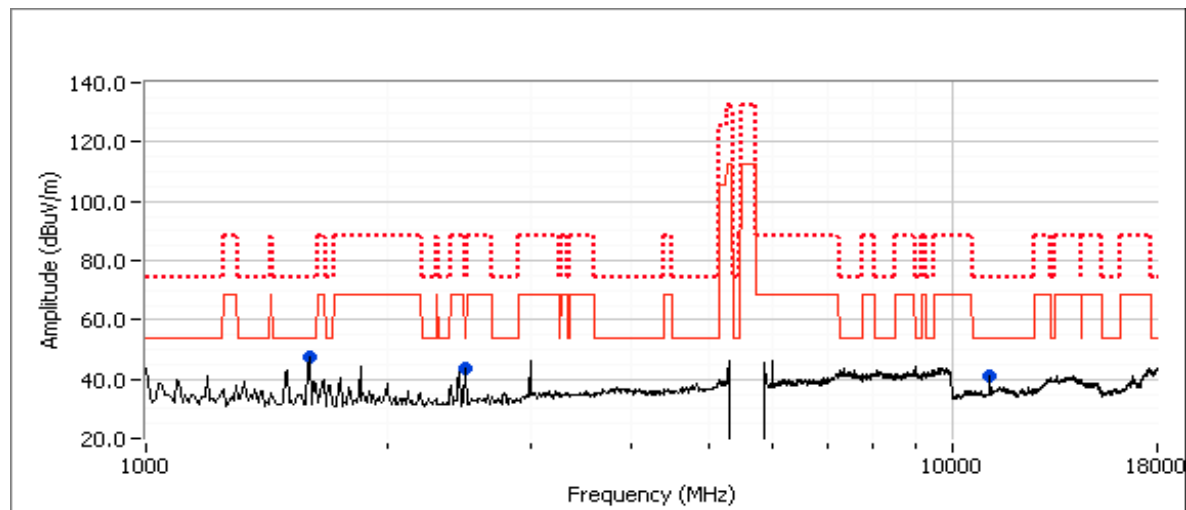
Client:	Intel Corporation	Job Number:	J83582
Model:	62205ANHMMW (Intel® Centrino® Advanced-N 6205) with WNC 81XCAA15.G03 Dipole	T-Log Number:	T83587
Contact:	Steven Hackett	Account Manager:	Christine Krebil
Standard:	FCC 15.247 / FCC 15 E / RSS 210	Class:	N/A

Run # 5c: EUT on Channel #120 5580MHz - 802.11a, Worst case chain from 5a and 5b (Chain B)

	Target (dBm)	Power Settings Measured (dBm)	Software Setting
Chain A	16.5	16.6	26.5

Spurious Radiated Emissions:

Frequency MHz	Level dBμV/m	Pol v/h	15.209 / 15E		Detector Pk/QP/Avg	Azimuth degrees	Height meters	Comments
			Limit	Margin				
11160.070	44.5	V	54.0	-9.5	AVG	44	1.5	RB 1 MHz;VB 10 Hz;Pk
11158.470	56.5	V	74.0	-17.5	PK	44	1.5	RB 1 MHz;VB 3 MHz;Pk
2490.300	34.4	H	54.0	-19.6	AVG	125	1.0	RB 1 MHz;VB 10 Hz;Pk
2490.930	54.1	H	74.0	-19.9	PK	125	1.0	RB 1 MHz;VB 3 MHz;Pk
1598.310	43.4	V	54.0	-10.6	AVG	135	1.0	RB 1 MHz;VB 10 Hz;Pk
1598.540	56.6	V	74.0	-17.4	PK	135	1.0	RB 1 MHz;VB 3 MHz;Pk



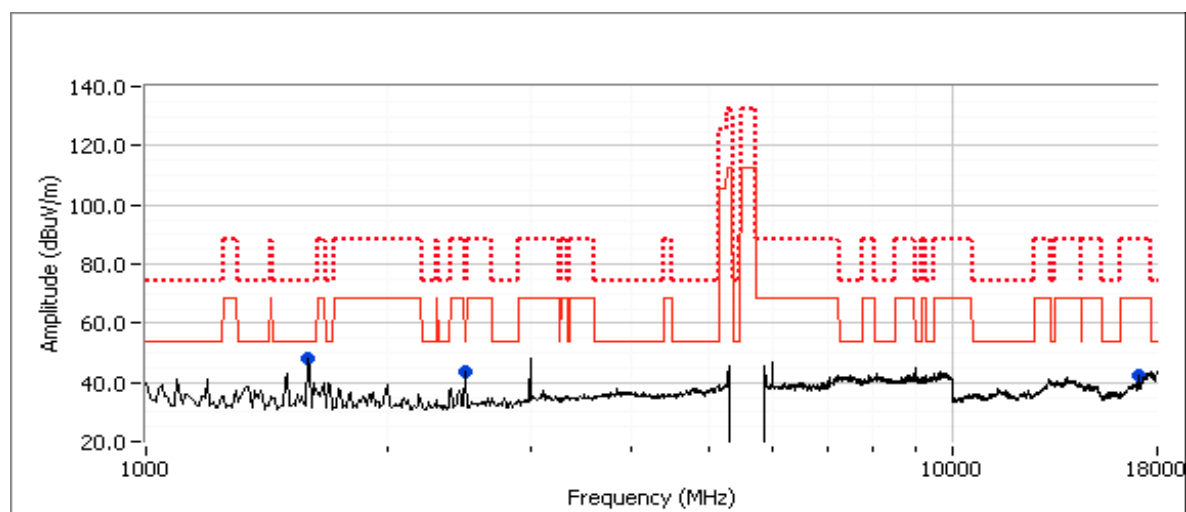
Client:	Intel Corporation	Job Number:	J83582
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205) with WNC 81XCAA15.G03 Dipole	T-Log Number:	T83587
Contact:	Steven Hackett	Account Manager:	Christine Krebil
Standard:	FCC 15.247 / FCC 15 E / RSS 210	Class:	N/A

Run # 5d: EUT on Channel #140 5700MHz - 802.11a, Worst case chain from 5a and 5b (Chain B)

	Power Settings		
	Target (dBm)	Measured (dBm)	Software Setting
Chain A	16.5	16.6	27.0

Spurious Radiated Emissions:

Frequency	Level	Pol	15.209 / 15E		Detector	Azimuth	Height	Comments
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	
1594.690	43.9	V	54.0	-10.1	AVG	132	1.0	RB 1 MHz;VB 10 Hz;Pk
1593.120	56.4	V	74.0	-17.6	PK	132	1.0	RB 1 MHz;VB 3 MHz;Pk
11390.230	39.8	H	54.0	-14.2	AVG	332	1.0	RB 1 MHz;VB 10 Hz;Pk
11394.230	51.1	H	74.0	-22.9	PK	332	1.0	RB 1 MHz;VB 3 MHz;Pk
17093.330	42.3	H	68.3	-26.0	Peak	205	1.0	RB 1 MHz;VB 3 MHz;Pk
2489.860	32.5	V	54.0	-21.5	AVG	132	1.0	RB 1 MHz;VB 10 Hz;Pk
2487.620	51.4	V	74.0	-22.6	PK	132	1.0	RB 1 MHz;VB 3 MHz;Pk



Client:	Intel Corporation	Job Number:	J83582
Model:	62205ANHMMW (Intel® Centrino® Advanced-N 6205) with WNC 81XCAA15.G03 Dipole	T-Log Number:	T83587
Contact:	Steven Hackett	Account Manager:	Christine Krebil
Standard:	FCC 15.247 / FCC 15 E / RSS 210	Class:	N/A

Run # 6, Radiated Spurious Emissions, 1-18GHz, Receiver, Chain A+B

Date of Test: 6/17/2011

Test Location: FT Chamber #4

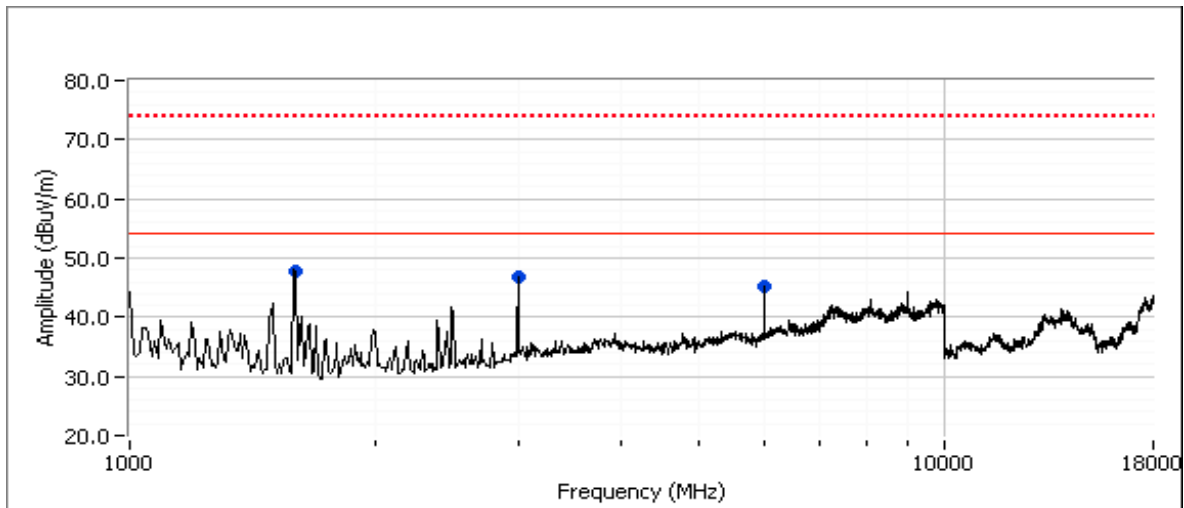
Test Engineer: Rafael Varelas

Config Change: none

For emissions in restricted bands, the limit of 15.209 was used. For all other emissions, the limit is -27dBm eirp (68.3dBuV/m @3m). As the power measured is average power this is considered an average limit so the peak limit would be 88.3dBuV/m at 3m.

Run # 6a: EUT on Channel #40 5200MHz - Receiver, Chain A+B

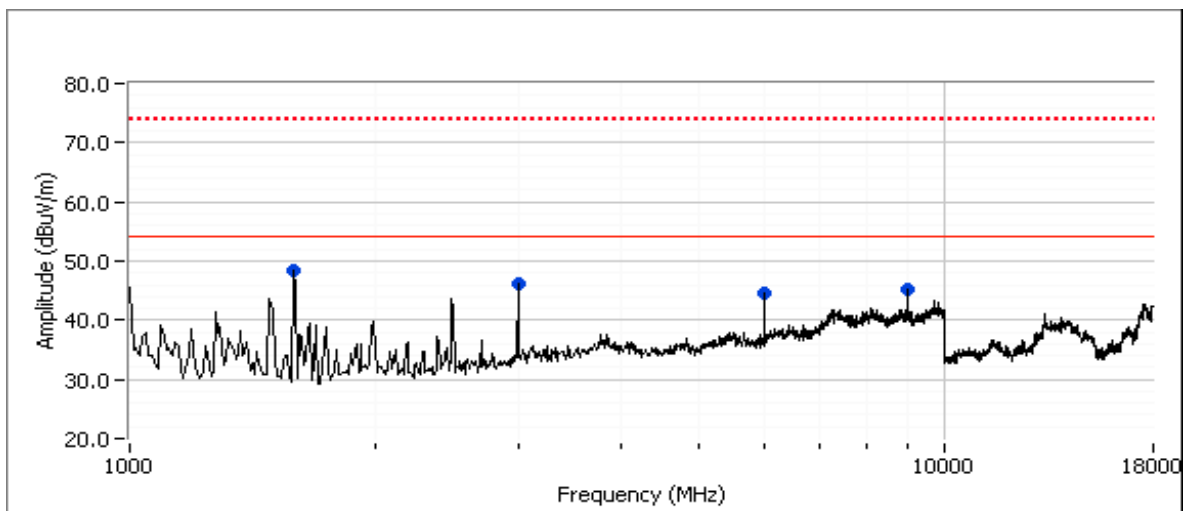
Frequency	Level	Pol	RSS GEN		Detector	Azimuth	Height	Comments
MHz	dBuV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	
6000.640	44.8	V	54.0	-9.2	AVG	115	1.0	RB 1 MHz;VB 10 Hz;Pk
6000.730	51.3	V	74.0	-22.7	PK	115	1.0	RB 1 MHz;VB 3 MHz;Pk
1594.710	42.4	V	54.0	-11.6	AVG	127	1.0	RB 1 MHz;VB 10 Hz;Pk
1598.140	55.0	V	74.0	-19.0	PK	127	1.0	RB 1 MHz;VB 3 MHz;Pk
3000.270	43.7	H	54.0	-10.3	AVG	167	1.1	RB 1 MHz;VB 10 Hz;Pk
3000.130	49.1	H	74.0	-24.9	PK	167	1.1	RB 1 MHz;VB 3 MHz;Pk



Client:	Intel Corporation	Job Number:	J83582
Model:	62205ANHMMW (Intel® Centrino® Advanced-N 6205) with WNC 81XCAA15.G03 Dipole	T-Log Number:	T83587
Contact:	Steven Hackett	Account Manager:	Christine Krebil
Standard:	FCC 15.247 / FCC 15 E / RSS 210	Class:	N/A

Run # 6b: EUT on Channel #60 5300MHz - Receiver, Chain A+B

Frequency	Level	Pol	RSS GEN		Detector	Azimuth	Height	Comments
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	
9001.040	44.7	V	54.0	-9.3	AVG	143	1.0	MHz;VB 10 Hz;Pk
9001.010	52.2	V	74.0	-21.8	PK	143	1.0	MHz;VB 3 MHz;Pk
3000.300	42.7	H	54.0	-11.3	AVG	198	1.0	MHz;VB 10 Hz;Pk
3000.180	48.6	H	74.0	-25.4	PK	198	1.0	MHz;VB 3 MHz;Pk
1595.830	43.5	V	54.0	-10.5	AVG	131	1.0	MHz;VB 10 Hz;Pk
1594.860	55.7	V	74.0	-18.3	PK	131	1.0	MHz;VB 3 MHz;Pk
6000.650	43.7	V	54.0	-10.3	AVG	116	1.1	MHz;VB 10 Hz;Pk
6000.590	49.9	V	74.0	-24.1	PK	116	1.1	MHz;VB 3 MHz;Pk



Client:	Intel Corporation	Job Number:	J83582
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205) with WNC 81XCAA15.G03 Dipole	T-Log Number:	T83587
Contact:	Steven Hackett	Account Manager:	Christine Krebil
Standard:	FCC 15.247 / FCC 15 E / RSS 210	Class:	N/A

Run # 6c: EUT on Channel #116 5580MHz - Receiver, Chain A+B

Frequency	Level	Pol	RSS GEN		Detector	Azimuth	Height	Comments
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	
6000.720	46.3	V	54.0	-7.7	AVG	272	1.0	RB 1 MHz;VB 10 Hz;Pk
6000.780	50.7	V	74.0	-23.3	PK	272	1.0	RB 1 MHz;VB 3 MHz;Pk
1594.890	40.0	V	54.0	-14.0	AVG	191	1.0	RB 1 MHz;VB 10 Hz;Pk
1599.060	52.1	V	74.0	-21.9	PK	191	1.0	RB 1 MHz;VB 3 MHz;Pk
3000.370	46.1	V	54.0	-7.9	AVG	223	1.0	RB 1 MHz;VB 10 Hz;Pk
3000.270	51.2	V	74.0	-22.8	PK	223	1.0	RB 1 MHz;VB 3 MHz;Pk
9000.970	44.4	V	54.0	-9.6	AVG	142	1.0	RB 1 MHz;VB 10 Hz;Pk
9001.070	52.2	V	74.0	-21.8	PK	142	1.0	RB 1 MHz;VB 3 MHz;Pk

