



FCC Test Report

According to

47 CFR Part 15 Subpart E

Equipment : Tablet computer
Trade Name : CReTE
Model No. : DR886 EX
FCC ID : IR5DR886EX
Filing Type : Certification
Applicant : **CReTE SYSTEMS INC.**

7F,No.250,Sec.3,Pei Shen Rd.,Shen Keng Hsiang,Taipei County,Taiwan

- The CReTE / DR886 EX is use Intel / WM3945ABG WLAN module. Therefore, only retest RSE in this report and all test data of conducted can be referred to Aegis report number INTEL-051020F as appendix C.
- The test result refers exclusively to the test presented test model / sample.
- Without written approval of SPORTON International Inc., the test report shall not be reproduced except in full.
- The data shown in this test report were carried out on Jul. 19, 2008 at **Sporton International Inc. LAB.**
- Report No.: FR840719B, Report Version: Rev.01.

Roy Wu
Manager

SPORTON International Inc.

No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.



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History of This Test Report

Report Issue Date: Jul. 21, 2008

Report No.	Description



1. General Description of Equipment under Test

1.1 Applicant

CReTE SYSTEMS INC.
7F,No.250,Sec.3,Pei Shen Rd.,Shen Keng Hsiang,Taipei County,Taiwan

1.2 Manufacturer

CReTE SYSTEMS INC.
7F,No.250,Sec.3,Pei Shen Rd.,Shen Keng Hsiang,Taipei County,Taiwan

1.3 Basic Description of Accessory

AC Adapter	Brand Name	FranMar
	Model Name	F10903-A
	Power Rating	I/P: 100-240Vac, 50-60Hz, 1.2A; O/P: 19Vdc, 4.75A
Battery	Brand Name	J.S. POWER
	Model Name	BD83A
	Power Rating	11.1Vdc, 4800mAh
	Type	Li-ion

Remark: Above EUT's information was declared by manufacturer. Please refer to the specifications of manufacturer or User's Manual for more detailed features description.

1.4 Feature of Equipment under Test

Product Feature & Specification			
DUT Type :	Tablet computer		
Trade Name :	CReTE		
Model Name :	DR886 EX		
FCC ID :	IR5DR886EX		
Frequency Range :	5150 MHz ~ 5250 MHz, 5250 MHz ~ 5350 MHz		
Carrier Frequency of each channel :	802.11a <5150 MHz ~ 5250 MHz> 5000+n*5 MHz, n=36, 40, 44, 48 802.11a <5250 MHz ~ 5350 MHz> 5000+n*5 MHz, n=52, 56, 60, 64		
Channel Spacing :	20 MHz		
Antenna Type :	PIFA Antenna		
HW Version :	V03		
WLAN Module :	Intel / WM3945ABG		
Modulation Type/Data Rate :	OFDM		
Function Type :	Transmitter		Transceiver V

2. Test Configuration of Equipment under Test

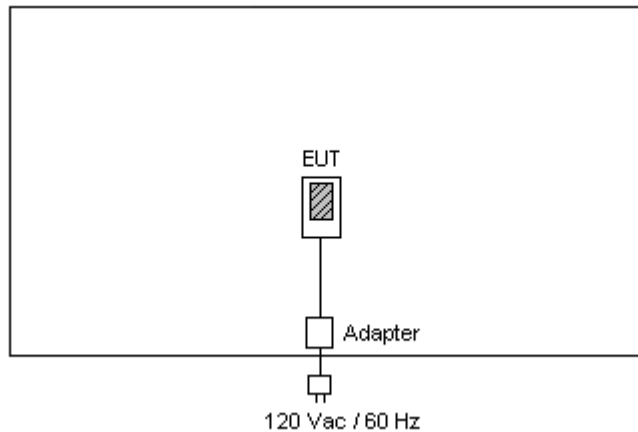
2.1 Test Manner

- a. The EUT has been associated with peripherals pursuant to ANSI C63.4-2003 and configuration operated in a manner tended to maximize its emission characteristics in a typical application.
- b. The complete test system refers to section 2.2 and EUT for EMI test.
- c. The EUT can operate on 5150MHz to 5250MHz and 5250MHz to 5350MHz as listed in section 1.4.
- d. Test Mode for radiated emission:

Application	Test Mode	
Radiated Emission	802.11a	
	Mode 1: TX_CH36	Mode 4: TX_CH52
	Mode 2: TX_CH44	Mode 5: TX_CH60
	Mode 3: TX_CH48	Mode 6: TX_CH64

- e. Frequency range investigated: conduction 150 KHz to 30 MHz, radiation 30 MHz to 40000MHz.

2.2 Connection Diagram of Test System





3. Operation of Equipment under Test

Programmed RF utility "CRTU" installed in EUT provides functions like channel selection and power level for continuous transmitting and receiving signal.



4. General Information of Test

Test Site Location : No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park,
Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.
TEL : 886-3-327-3456
FAX : 886-3-328-4978

Test Site No : 03CH06-HY
FCC Designation No : TW1022

4.1 Test Voltage

AC 120V / 60Hz

4.2 Standard for Methods of Measurement

ANSI C63.4-2003

4.3 Test in Compliance

FCC Part 15, Subpart E

4.4 Frequency Range

a. Radiation: from 9KHz to 40GHz

4.5 Test Distance

The test distance of radiated emission from antenna to EUT is 3 M.



5. Report of Measurements and Examinations

5.1 List of Measurements and Examinations

FCC Rule	Description of Test	Result
15.407(b)(1)(2)(5)	Radiated Emission	Pass

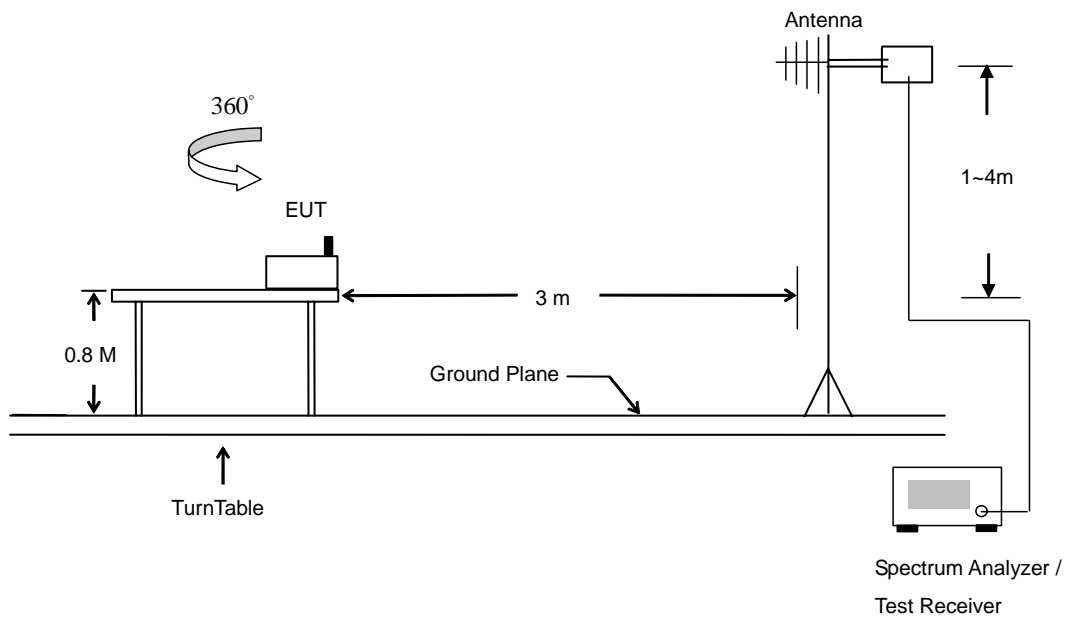


5.2 Test of Radiated Emission

5.2.1 Test Procedures

- a. The EUT was placed on a rotatable table top 0.8 meter above ground.
- b. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
- c. The table was rotated 360 degrees to determine the position of the highest radiation.
- d. The antenna is a broadband antenna and its height is varied between one meter and four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
- e. For each suspected emission, the EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
- f. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function and specified bandwidth with Maximum Hold Mode.
- g. For testing below 1GHz, If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the quasi-peak method and reported.
- h. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in average mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

5.2.2 Typical Test Setup Layout of Radiated Emission

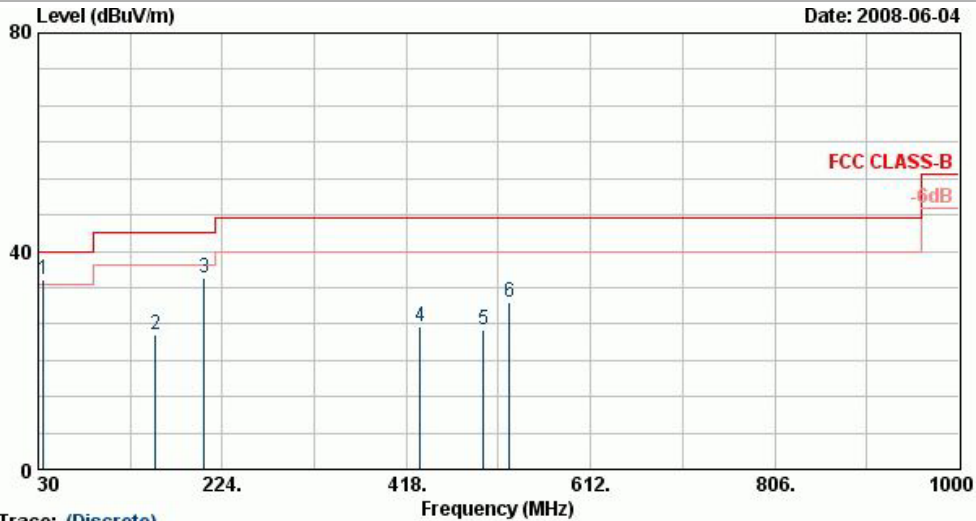




5.2.3 Test Data

- Test Mode : Mode 1
 - Temperature : 22~27°C
 - Relative Humidity : 50~57%
 - Test Engineer : Sun
 - Polarization : Horizontal

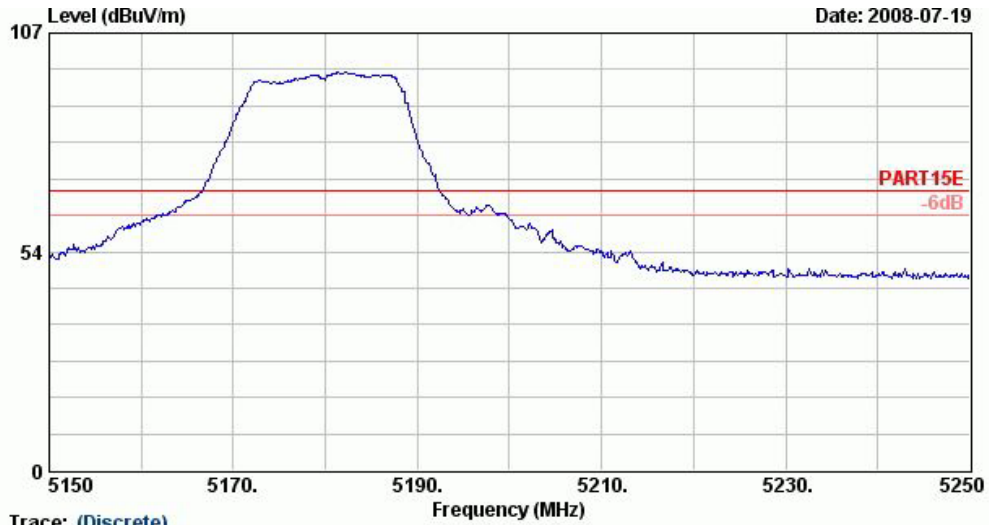
The test that passed at minimum margin was marked by the boldface in the following table.



Trace: (Discrete)
 Site : 03CH06-HY
 Condition : FCC CLASS-B 3m LP-ANT(051121) HORIZONTAL
 EUT : 平板电脑
 Power : 120Vac/60Hz
 Model : FR 840719
 Memo : Mode 1
 Data Rate : 6

	Freq	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1 @	35.94	34.76	-5.24	40.00	52.13	15.61	0.30	33.28	100	106	Peak
2	153.93	24.54	-18.96	43.50	47.18	10.29	0.60	33.53	---	---	Peak
3 @	204.69	35.03	-8.47	43.50	58.36	9.59	0.60	33.52	---	---	Peak
4	432.30	26.32	-19.68	46.00	42.33	16.31	0.83	33.15	---	---	Peak
5	498.80	25.64	-20.36	46.00	40.61	17.40	0.98	33.34	---	---	Peak
6 @	526.80	30.62	-15.38	46.00	45.21	17.70	0.93	33.22	---	---	Peak

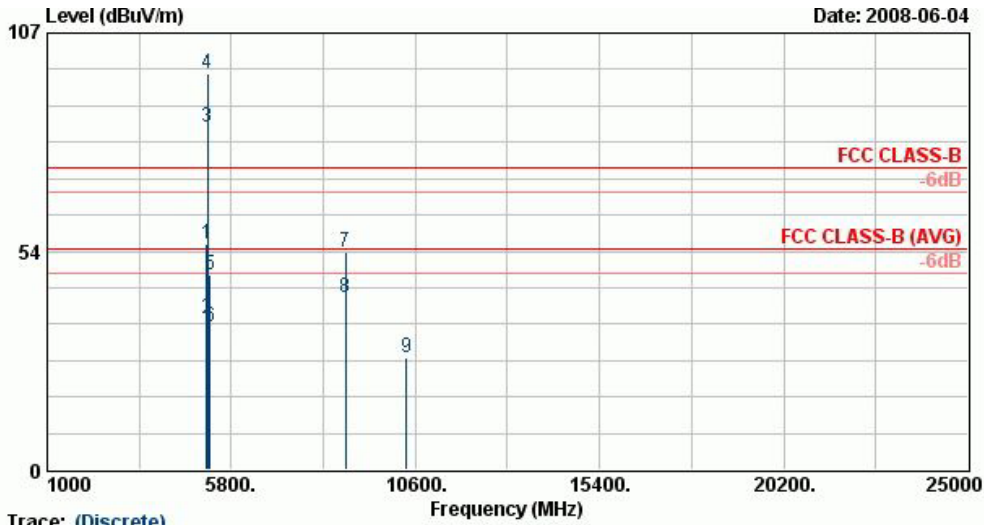
Remark: Frequency from 9KHz to 30MHz, the emission emitted by the EUT is too low to be measured.



Trace: (Discrete)

Site : D3CH06-HY
 Condition : PART15E 3m HF-ANT(071024) HORIZONTAL
 EUT : 平板电脑
 Power : 120Vac/60Hz
 Model : FR 840719
 Memo : Mode 1
 Data Rate : 6

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1 @	5150.00	52.39	-15.91	68.30	47.66	34.38	5.98	35.63	---	---	Peak



Date: 2008-06-04

Trace: (Discrete)

Site : D3CH06-HY
 Condition : FCC CLASS-B 3m SHF-EHF HORN HORIZONTAL
 EUT : 平板电脑
 Power : 120Vac/60Hz
 Model : FR 840719
 Memo : Mode 1
 Data Rate : 6

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	cm	deg	
1	5150.00	55.47	-18.53	74.00	50.74	34.38	5.98	35.63	100	0 Peak
2	5150.00	36.85	-17.15	54.00	32.12	34.38	5.98	35.63	100	360 Average
3 @	5180.00	83.74			78.96	34.42	6.00	35.64	100	360 Average
4 @	5180.00	96.92			92.14	34.42	6.00	35.64	100	0 Peak
5	5250.00	47.64	-26.36	74.00	42.75	34.50	6.04	35.65	100	0 Peak
6	5250.00	35.18	-18.82	54.00	30.29	34.50	6.04	35.65	100	360 Average
7	8774.00	53.18	-20.82	74.00	45.94	36.17	7.53	36.47	100	0 Peak
8 @	8774.00	42.06	-11.94	54.00	34.82	36.17	7.53	36.47	100	134 Average
9	10356.00	27.64	-46.36	74.00	64.63	-8.72	8.25	36.52	100	0 Peak

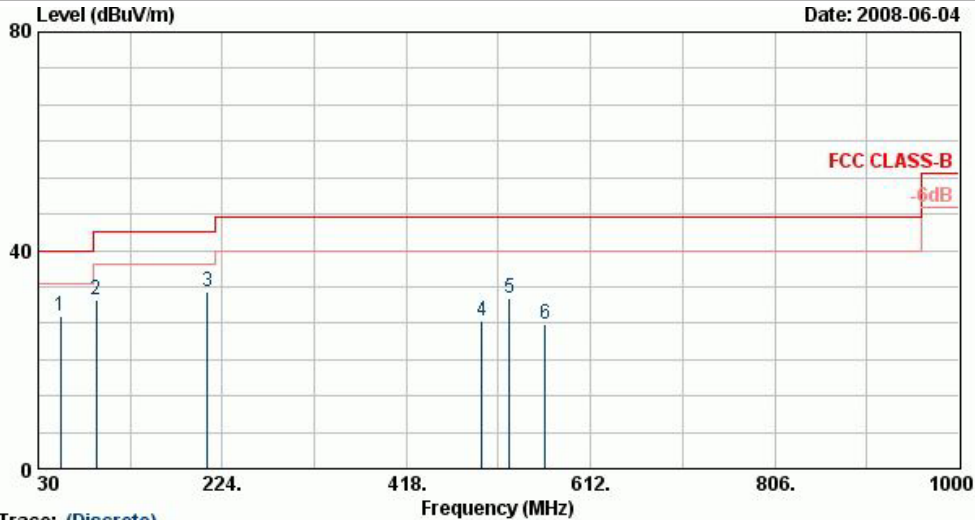
Remark: 1. #3 and #4 are Fundamental Signals.

2. Frequency from 25GHz to 40GHz, the emission emitted by the EUT is too low to be measured.



- Polarization : Vertical

The test that passed at minimum margin was marked by the boldface in the following table.

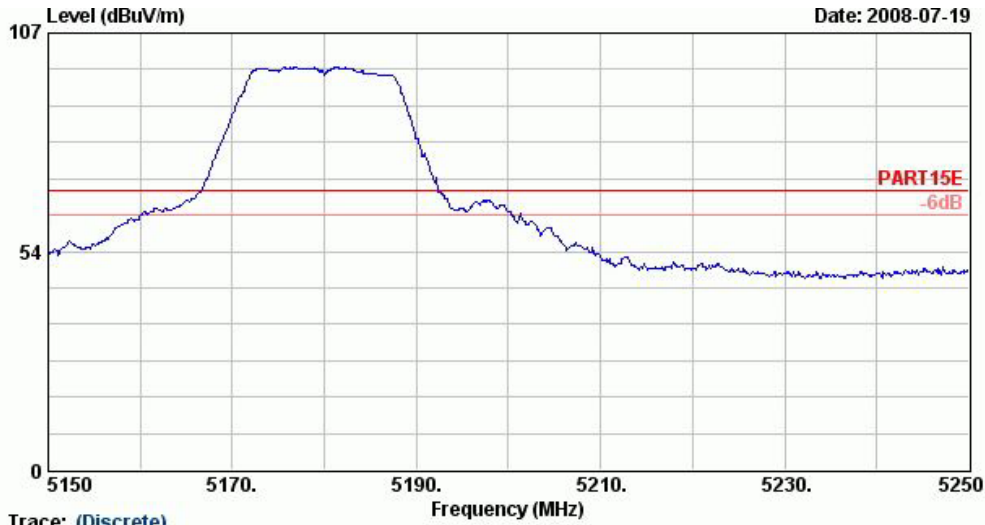


Trace: (Discrete)

Site : 03CH06-HY
 Condition : FCC CLASS-B 3m LF-ANT(951121) VERTICAL
 EUT : 平板电脑
 Power : 120Vac/60Hz
 Model : FR 840719
 Memo : Mode 1
 Data Rate : 6

	Freq	Level	Over Limit	Limit Line	Read Antenna Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1 @	53.49	27.97	-12.03	40.00	53.25	7.64	0.36	33.28	---	---	Peak
2 @	91.29	31.02	-12.48	43.50	54.59	9.23	0.50	33.30	---	---	Peak
3 @	208.74	32.40	-11.10	43.50	55.50	9.81	0.60	33.51	100	281	Peak
4	497.40	27.12	-18.88	46.00	42.11	17.38	0.97	33.34	---	---	Peak
5 @	526.80	31.36	-14.64	46.00	45.95	17.70	0.93	33.22	---	---	Peak
6	563.90	26.62	-19.38	46.00	40.57	18.09	1.00	33.04	---	---	Peak

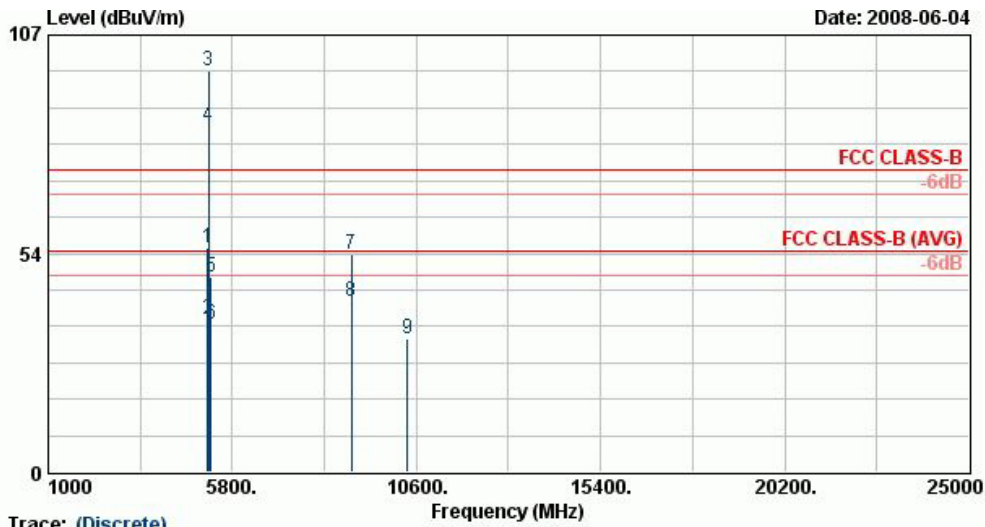
Remark: Frequency from 9KHz to 30MHz, the emission emitted by the EUT is too low to be measured.



Trace: (Discrete)

Site : D3CH06-HY
 Condition : PART15E 3m HF-ANT(071024) VERTICAL
 EUT : 平板电脑
 Power : 120Vac/60Hz
 Model : FR 840719
 Memo : Mode 1
 Data Rate : 6

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1 @	5150.00	53.20	-15.10	68.30	48.47	34.38	5.98	35.63	---	---	Peak



Trace: (Discrete)

Site : 03CH06-HY
 Condition : FCC CLASS-B 3m SHF-EHF HORN VERTICAL
 EUT : 平板电脑
 Power : 120Vac/60Hz
 Model : FR 840719
 Memo : Mode 1
 Data Rate : 6

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	cm	deg	
1	5150.00	54.82	-19.18	74.00	50.09	34.38	5.98	35.63	100	0 Peak
2	5150.00	37.39	-16.61	54.00	32.66	34.38	5.98	35.63	100	8 Average
3 @	5180.00	98.45			93.67	34.42	6.00	35.64	100	0 Peak
4 @	5180.00	84.70			79.92	34.42	6.00	35.64	100	8 Average
5	5250.00	47.73	-26.27	74.00	42.85	34.50	6.04	35.65	100	0 Peak
6	5250.00	36.12	-17.88	54.00	31.23	34.50	6.04	35.65	100	8 Average
7	8914.00	53.10	-20.90	74.00	45.55	36.38	7.71	36.54	100	0 Peak
8 @	8914.00	41.70	-12.30	54.00	34.15	36.38	7.71	36.54	100	215 Average
9	10362.00	32.75	-41.25	74.00	69.74	-8.72	8.25	36.52	100	0 Peak

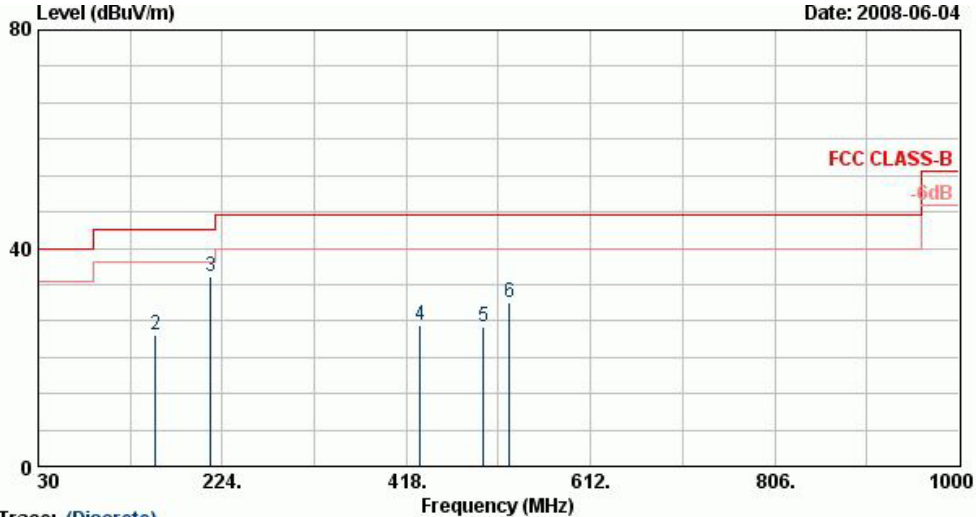
Remark: 1. #3 and #4 are Fundamental Signals.

2. Frequency from 25GHz to 40GHz, the emission emitted by the EUT is too low to be measured.



- Test Mode : Mode 2
- Polarization : Horizontal

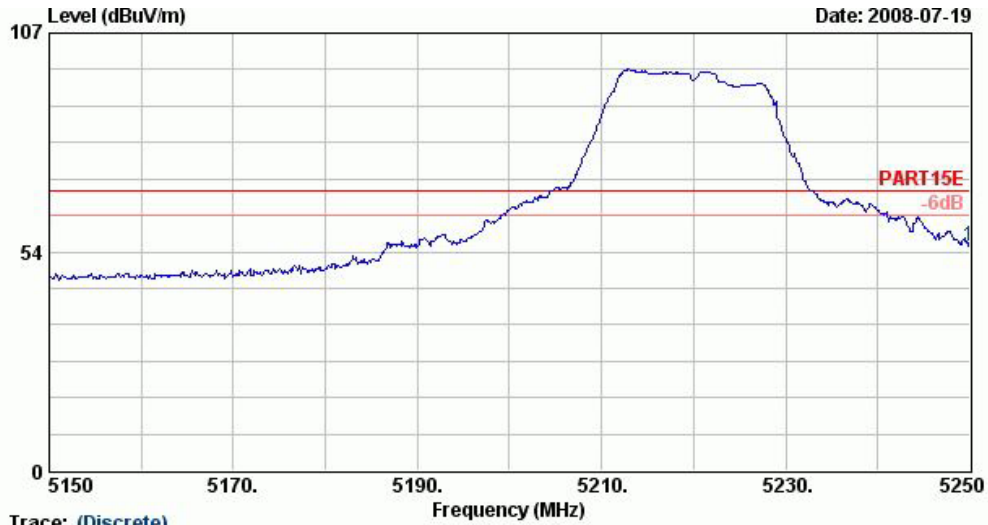
The test that passed at minimum margin was marked by the boldface in the following table.



Trace: (Discrete)
 Site : 03CH06-HY
 Condition : FCC CLASS-B 3m LF-ANT(951121) HORIZONTAL
 EUT : 平板电脑
 Power : 120Vac/60Hz
 Model : FR 840719
 Memo : Mode 2
 Data Rate : 6

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	30.00	23.25	-16.75	40.00	36.79	19.66	0.30	33.50	---	---	Peak
2	153.93	24.13	-19.37	43.50	46.77	10.29	0.60	33.53	---	---	Peak
3 @	211.98	34.82	-8.68	43.50	57.66	10.04	0.62	33.51	100	135	Peak
4	432.30	25.74	-20.26	46.00	41.75	16.31	0.83	33.15	---	---	Peak
5	498.80	25.71	-20.29	46.00	40.67	17.40	0.98	33.34	---	---	Peak
6	526.80	29.99	-16.01	46.00	44.58	17.70	0.93	33.22	---	---	Peak

Remark: Frequency from 9KHz to 30MHz, the emission emitted by the EUT is too low to be measured.

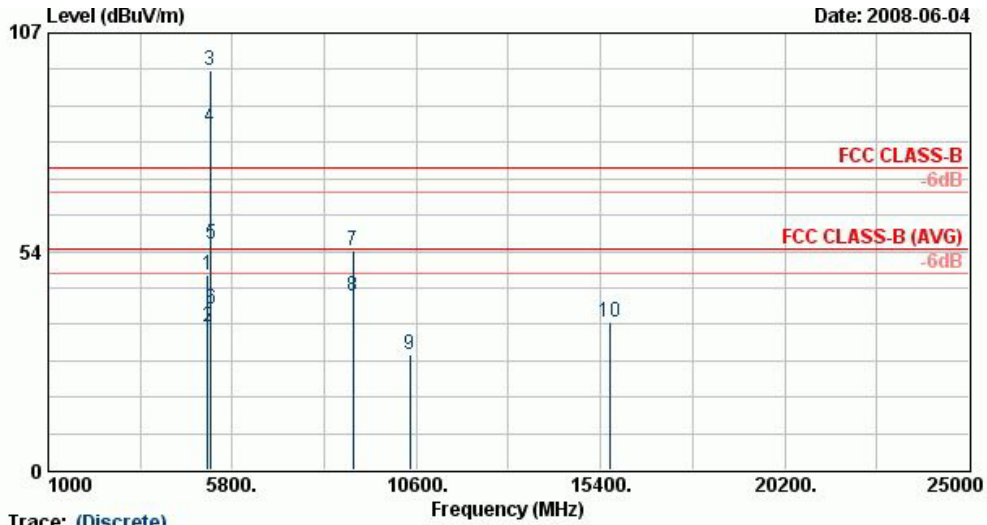


Date: 2008-07-19

Trace: (Discrete)

Site : 03CH06-HY
 Condition : PART15E 3m HF-ANT(071024) HORIZONTAL
 EUT : 平板电脑
 Power : 120Vac/60Hz
 Model : FR 840719
 Memo : Mode 2
 Data Rate : 6

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1 @	5250.00	54.93	-13.37	68.30	50.05	34.50	6.04	35.65	---	---	Peak



Date: 2008-06-04

Trace: (Discrete)

Site : D3CH06-HY
 Condition : FCC CLASS-B 3m SHF-EHF HORN HORIZONTAL
 EUT : 平板电脑
 Power : 120Vac/60Hz
 Model : FR 840719
 Memo : Mode 2
 Data Rate : b

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Pos	Pos	
			dB	dBuV/m	dBuV	dB	dB	cm	deg	
1	5150.00	47.62	-26.38	74.00	42.89	34.38	5.98	35.63	100	0 Peak
2	5150.00	34.91	-19.09	54.00	30.18	34.38	5.98	35.63	100	313 Average
3 @	5220.00	97.71			92.87	34.46	6.02	35.64	100	0 Peak
4 @	5220.00	84.05			79.21	34.46	6.02	35.64	100	313 Average
5	5250.00	55.38	-18.62	74.00	50.50	34.50	6.04	35.65	100	0 Peak
6	5250.00	39.44	-14.56	54.00	34.55	34.50	6.04	35.65	100	313 Average
7	8944.00	53.76	-20.24	74.00	46.18	36.41	7.74	36.57	100	0 Peak
8 @	8944.00	42.60	-11.40	54.00	35.02	36.41	7.74	36.57	100	213 Average
9	10437.00	28.07	-45.93	74.00	64.84	-8.60	8.28	36.46	100	0 Peak
10	15657.00	36.03	-37.97	74.00	69.08	-6.28	9.56	36.33	100	0 Peak

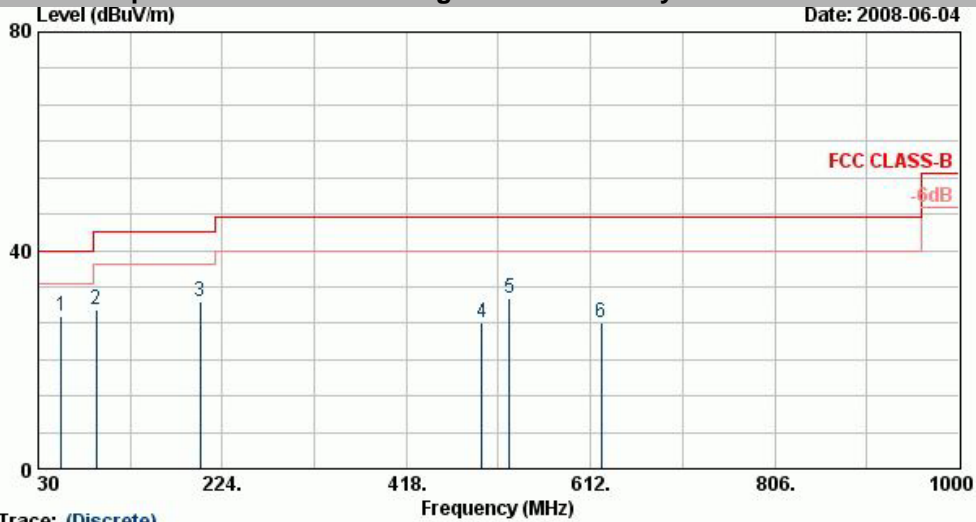
Remark: 1. #3 and #4 are Fundamental Signals.

2. Frequency from 25GHz to 40GHz, the emission emitted by the EUT is too low to be measured.



• Polarization : Vertical

■ The test that passed at minimum margin was marked by the boldface in the following table.

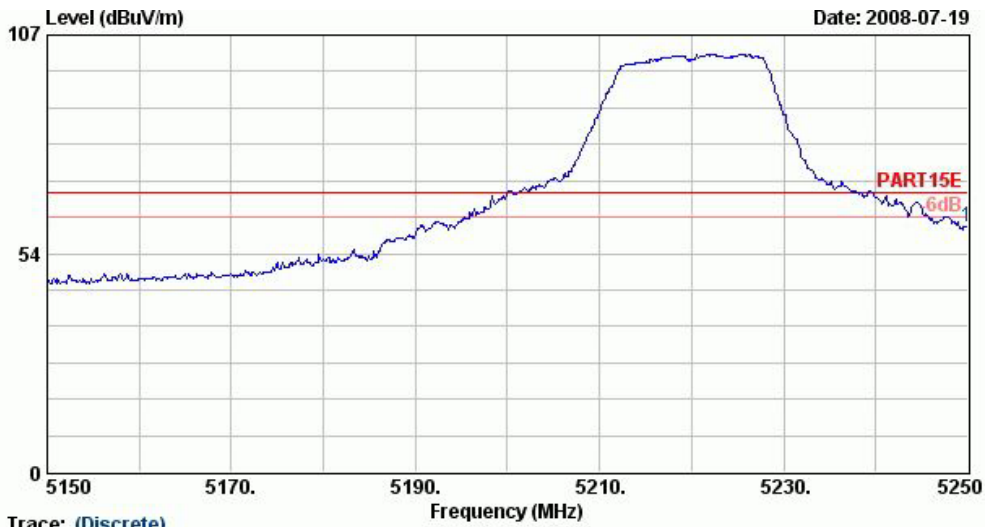


Trace: (Discrete)

Site : 03CH06-HY
 Condition : FCC CLASS-B 3m LF-ANT(951121) VERTICAL
 EUT : 手帳電腦
 Power : 120Vac/60Hz
 Model : FR 840719
 Memo : Mode 2
 Data Rate : 6

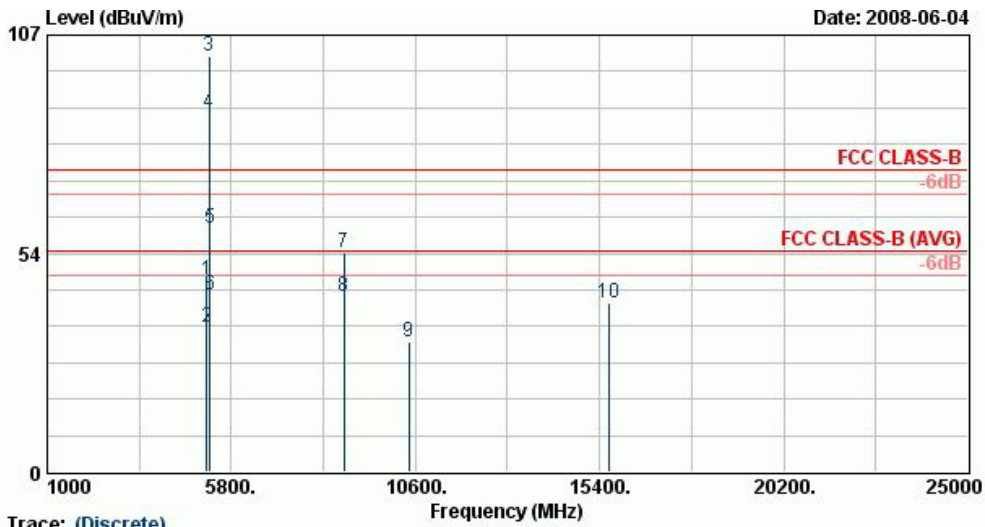
	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1 @	54.03	27.97	-12.03	40.00	53.42	7.50	0.38	33.33	100	145	Peak
2	91.29	29.02	-14.48	43.50	52.59	9.23	0.50	33.30	---	---	Peak
3 @	200.64	30.60	-12.90	43.50	54.17	9.36	0.60	33.53	---	---	Peak
4	497.40	26.82	-19.18	46.00	41.81	17.38	0.97	33.34	---	---	Peak
5	526.80	31.22	-14.78	46.00	45.81	17.70	0.93	33.22	---	---	Peak
6	623.40	26.88	-19.12	46.00	40.18	18.57	1.06	32.93	---	---	Peak

Remark: Frequency from 9KHz to 30MHz, the emission emitted by the EUT is too low to be measured.



Trace: (Discrete)
 Site : 03CH06-HY
 Condition : PART15E 3m HF-ANT(071024) VERTICAL
 EUT : 平板电脑
 Power : 120Vac/60Hz
 Model : FR 840719
 Memo : Mode 2
 Data Rate : 6

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1 @	5250.00	60.12	-8.18	68.30	55.23	34.50	6.04	35.65	---	---	Peak



Date: 2008-06-04

Trace: (Discrete)

Site : 03CH06-HY
 Condition : FCC CLASS-B 3m SHF-EHF HORN VERTICAL
 EUT : 平板电脑
 Power : 120Vac/60Hz
 Model : FR 840719
 Memo : Mode 2
 Data Rate : 6

	Freq	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	5150.00	46.98	-27.02	74.00	42.25	34.38	5.98	35.63	100	0	Peak
2	5150.00	35.36	-18.64	54.00	30.63	34.38	5.98	35.63	100	348	Average
3 @	5220.00	101.98			97.13	34.46	6.02	35.64	100	0	Peak
4 @	5220.00	87.75			82.91	34.46	6.02	35.64	100	348	Average
5	5250.00	59.58	-14.42	74.00	54.70	34.50	6.04	35.65	100	0	Peak
6 @	5250.00	43.24	-10.76	54.00	38.35	34.50	6.04	35.65	100	348	Average
7	8728.00	53.89	-20.11	74.00	46.73	36.13	7.48	36.44	100	0	Peak
8 @	8728.00	42.78	-11.22	54.00	35.61	36.13	7.48	36.44	100	145	Average
9	10431.00	31.96	-42.04	74.00	68.75	-8.61	8.28	36.46	100	0	Peak
10	15651.00	41.54	-32.46	74.00	74.66	-6.35	9.55	36.33	100	0	Peak

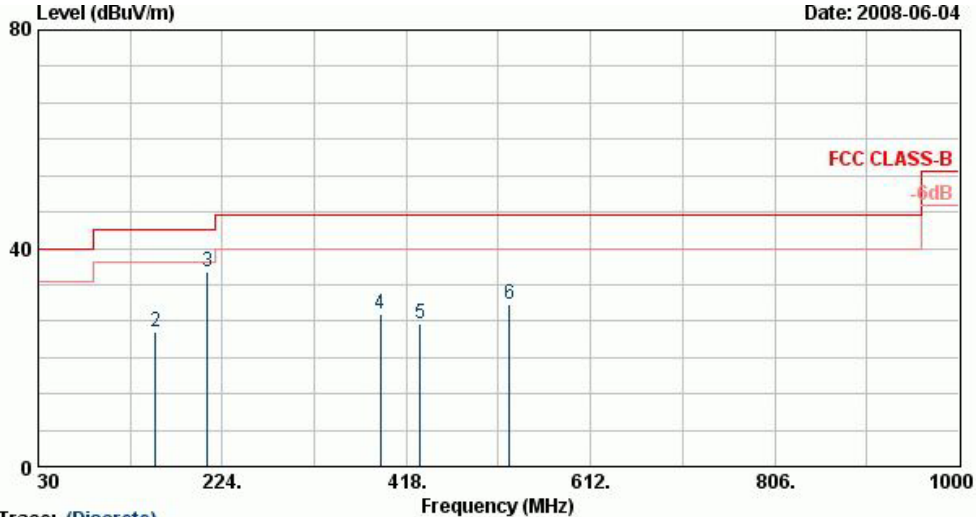
Remark: 1. #3 and #4 are Fundamental Signals.

2. Frequency from 25GHz to 40GHz, the emission emitted by the EUT is too low to be measured.



- Test Mode : Mode 3
- Polarization : Horizontal

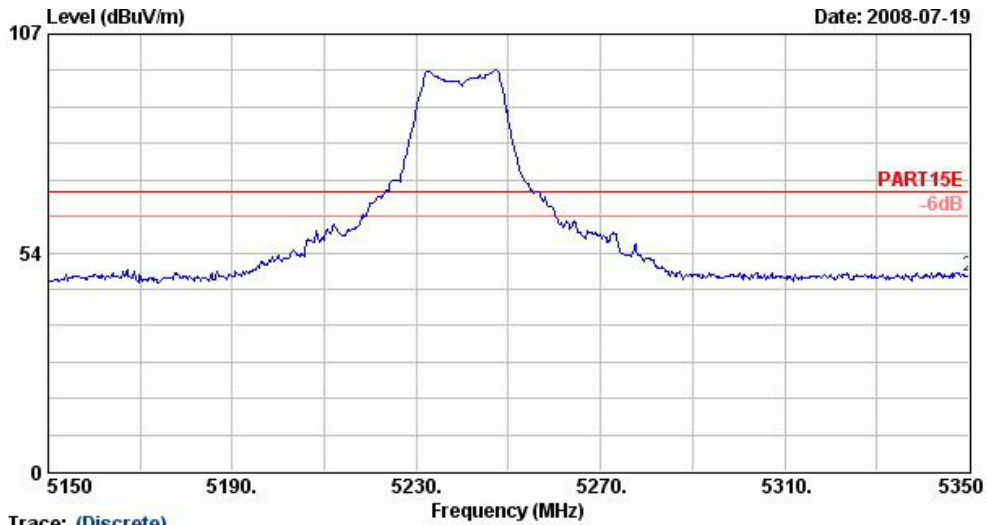
The test that passed at minimum margin was marked by the boldface in the following table.



Trace: (Discrete)
 Site : 03CH06-HY
 Condition : FCC CLASS-B 3m LF-ANT(951121) HORIZONTAL
 EUT : 平板电脑
 Power : 120Vac/60Hz
 Model : FR 640719
 Memo : Mode 3
 Data Rate : 6

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1 @	30.00	23.23	-16.77	40.00	36.77	19.66	0.30	33.50	---	---	Peak
2 @	153.39	24.74	-18.76	43.50	47.36	10.32	0.60	33.54	---	---	Peak
3 @	208.74	35.81	-7.69	43.50	58.91	9.81	0.60	33.51	100	137	Peak
4 @	390.30	27.99	-18.01	46.00	44.75	15.51	0.80	33.08	---	---	Peak
5 @	432.30	26.19	-19.81	46.00	42.20	16.31	0.83	33.15	---	---	Peak
6 @	526.80	29.83	-16.17	46.00	44.42	17.70	0.93	33.22	---	---	Peak

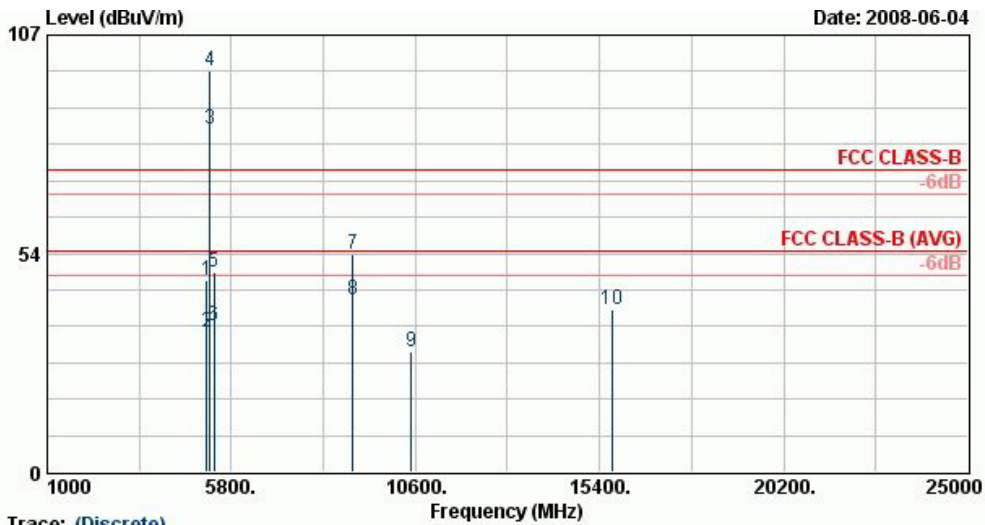
Remark: Frequency from 9KHz to 30MHz, the emission emitted by the EUT is too low to be measured.



Trace: (Discrete)

Site : 03CH06-HY
 Condition : PART15E 3m HF-ANT(071024) HORIZONTAL
 EUT : 平板电脑
 Power : 120Vac/60Hz
 Model : FR 840719
 Memo : Mode 3
 Data Rate : 6

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	5150.00	46.89	-21.41	68.30	42.16	34.38	5.98	35.63	---	---	Peak
2 @	5350.00	47.86	-20.44	68.30	42.82	34.62	6.09	35.67	---	---	Peak



Trace: (Discrete)

Site : 03CH06-HY
 Condition : FCC CLASS-B 3m SHF-EHF HORN HORIZONTAL
 EUT : 平板电脑
 Power : 120Vac/60Hz
 Model : FR 840719
 Memo : Mode 3
 Data Rate : 6

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	5150.00	46.96	-27.04	74.00	42.23	34.38	5.98	35.63	100	0	Peak
2 @	5150.00	34.32	-19.68	54.00	29.59	34.38	5.98	35.63	137	312	Average
3 @	5240.00	83.94			79.07	34.48	6.04	35.65	137	312	Average
4 @	5240.00	98.14			93.25	34.50	6.04	35.65	100	0	Peak
5	5350.00	49.04	-24.96	74.00	44.00	34.62	6.09	35.67	100	0	Peak
6 @	5350.00	35.95	-18.05	54.00	30.91	34.62	6.09	35.67	137	312	Average
7	8978.00	53.50	-20.50	74.00	45.86	36.45	7.77	36.59	100	0	Peak
8 @	8978.00	42.35	-11.65	54.00	34.71	36.45	7.77	36.59	100	301	Average
9	10482.00	29.42	-44.58	74.00	66.07	-8.53	8.30	36.42	100	0	Peak
10	15711.00	39.70	-34.30	74.00	72.42	-5.93	9.57	36.37	100	0	Peak

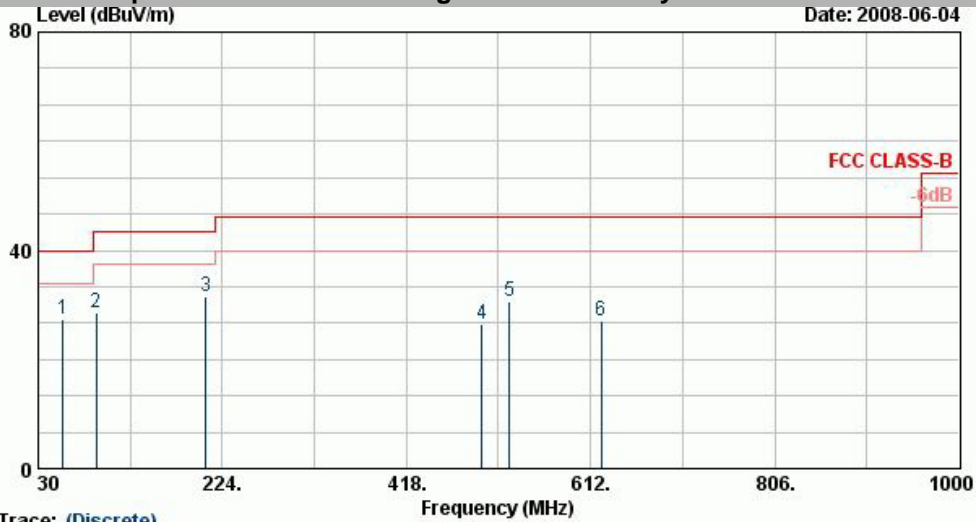
Remark: 1. #3 and #4 are Fundamental Signals.

2. Frequency from 25GHz to 40GHz, the emission emitted by the EUT is too low to be measured.



• Polarization : Vertical

■ The test that passed at minimum margin was marked by the boldface in the following table.

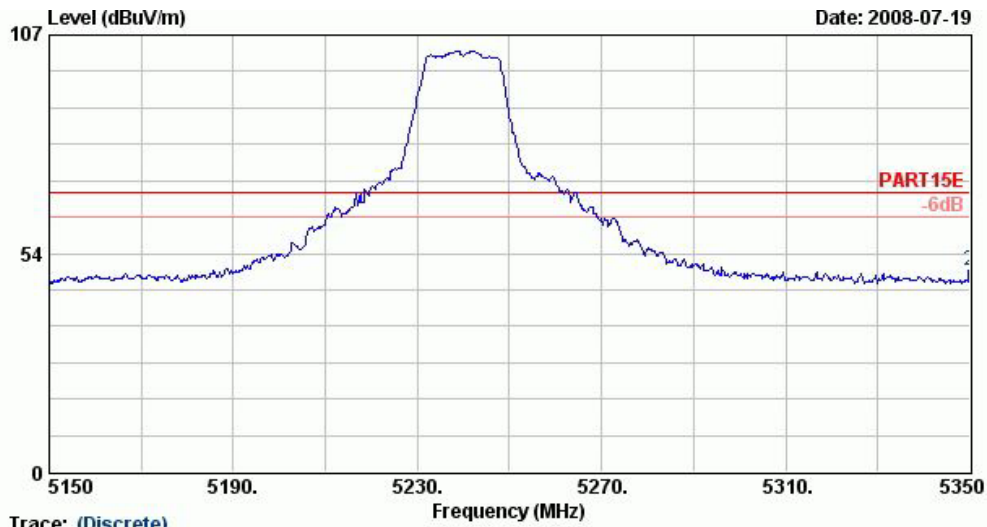


Trace: (Discrete)

Site : 03CH06-HY
 Condition : FCC CLASS-B 3m LF-ANT(051121) VERTICAL
 EUT : 手紙電腦
 Power : 120Vac/60Hz
 Model : FR 840719
 Memo : Mode 3
 Data Rate : 6

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1 @	56.19	27.25	-12.75	40.00	53.02	7.20	0.40	33.37	---	---	Peak
2 @	91.29	28.54	-14.96	43.50	52.11	9.23	0.50	33.30	---	---	Peak
3 @	206.58	31.46	-12.04	43.50	54.67	9.70	0.60	33.52	100	183	Peak
4 @	497.40	26.45	-19.55	46.00	41.43	17.38	0.97	33.34	---	---	Peak
5 @	526.80	30.60	-15.40	46.00	45.19	17.70	0.93	33.22	---	---	Peak
6 @	623.40	27.18	-18.82	46.00	40.48	18.57	1.06	32.93	---	---	Peak

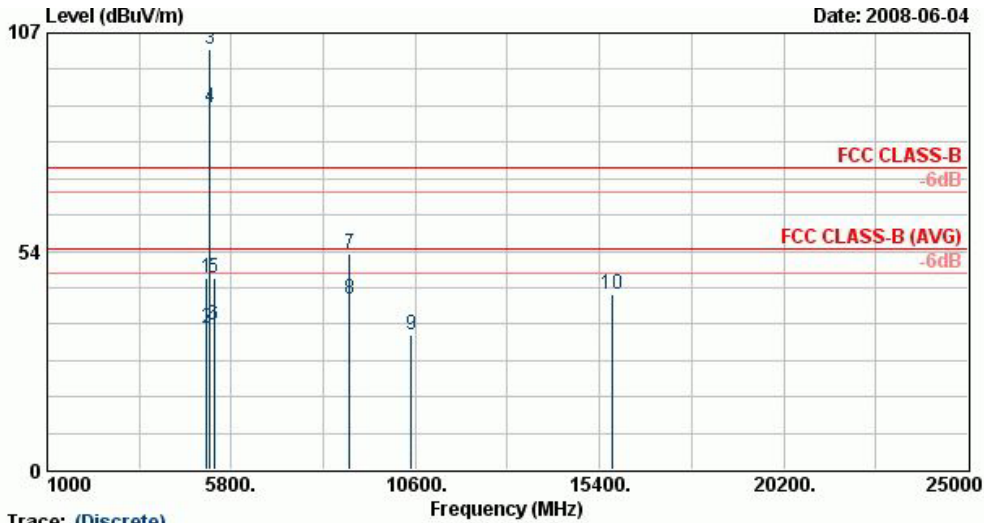
Remark: Frequency from 9KHz to 30MHz, the emission emitted by the EUT is too low to be measured.



Trace: (Discrete)

Site : D3CH06-HY
 Condition : PART15E 3m HF-ANT(071024) VERTICAL
 EUT : 平板电脑
 Power : 120Vac/60Hz
 Model : FR 840719
 Memo : Mode 3
 Data Rate : 6

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	5150.00	46.26	-22.04	68.30	41.53	34.38	5.98	35.63	---	---	Peak
2 @	5350.00	49.35	-18.95	68.30	44.31	34.62	6.09	35.67	---	---	Peak



Trace: (Discrete)

Site : D3CH06-HY
 Condition : FCC CLASS-B 3m SHF-EHF HORN VERTICAL
 EUT : 平板电脑
 Power : 120Vac/60Hz
 Model : FR 840719
 Memo : Mode 3
 Data Rate : 6

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Pos	Pos	
			dB	dBuV/m	dBuV	dB	dB	cm	deg	
1	5150.00	47.14	-26.86	74.00	42.40	34.38	5.98	35.63	100	0 Peak
2 @	5150.00	34.75	-19.25	54.00	30.02	34.38	5.98	35.63	129	356 Average
3 @	5240.00	102.95			98.09	34.48	6.02	35.65	100	0 Peak
4 @	5240.00	88.78			83.91	34.48	6.04	35.65	129	356 Average
5	5350.00	47.00	-27.00	74.00	41.96	34.62	6.09	35.67	100	0 Peak
6 @	5350.00	35.30	-18.70	54.00	30.26	34.62	6.09	35.67	129	356 Average
7	8894.00	52.95	-21.05	74.00	45.47	36.34	7.68	36.54	100	0 Peak
8 @	8894.00	41.73	-12.27	54.00	34.25	36.34	7.68	36.54	100	106 Average
9	10482.00	32.93	-41.07	74.00	69.59	-8.53	8.30	36.42	100	0 Peak
10	15717.00	43.09	-30.91	74.00	75.75	-5.86	9.57	36.37	100	0 Peak

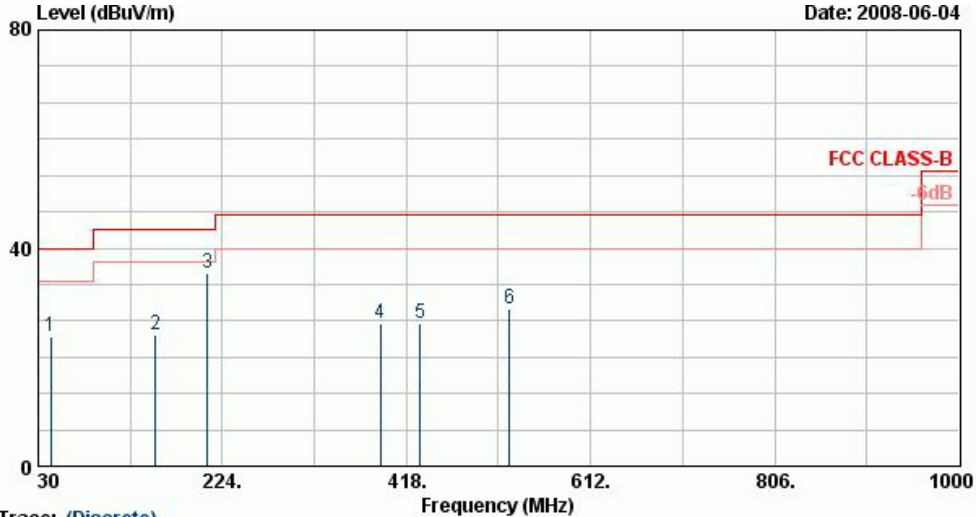
Remark: 1. #3 and #4 are Fundamental Signals.

2. Frequency from 25GHz to 40GHz, the emission emitted by the EUT is too low to be measured.



- Test Mode : Mode 4
- Polarization : Horizontal

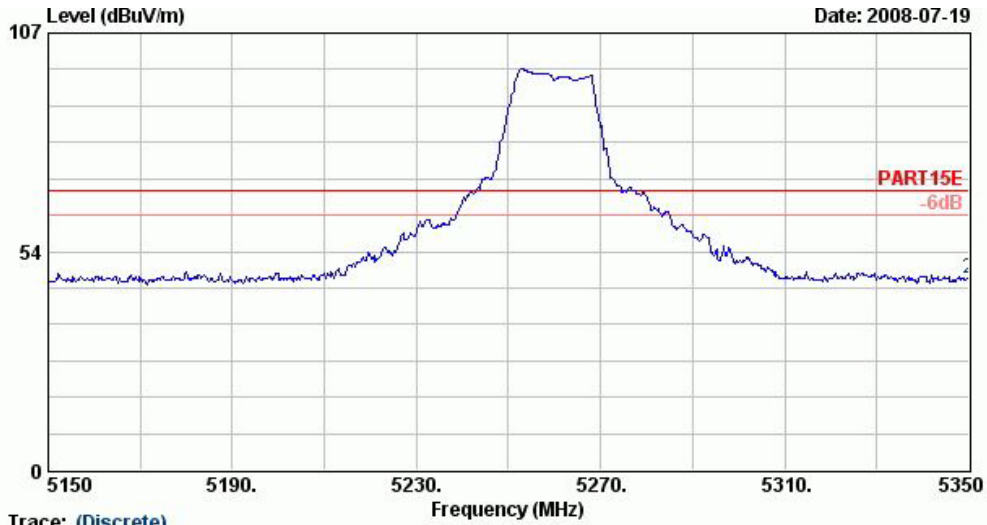
The test that passed at minimum margin was marked by the boldface in the following table.



Trace: (Discrete)
 Site : 03CH06-HY
 Condition : FCC CLASS-B 3m LF-ANT(951121) HORIZONTAL
 EUT : 手紙 電箱
 Power : 120Vac/60Hz
 Model : FR 840719
 Memo : Mode 4
 Data Rate : 6

	Freq	Level	Over Limit	Limit Line	ReadAntenna	Cable	Preamp	Ant	Table	Remark	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1 @	43.23	23.74	-16.26	40.00	45.05	11.52	0.30	33.13	---	---	Peak
2 @	153.39	24.14	-19.36	43.50	46.76	10.32	0.60	33.54	---	---	Peak
3 @	207.93	35.52	-7.98	43.50	58.68	9.76	0.60	33.52	100	19	Peak
4 @	390.30	26.08	-19.92	46.00	42.85	15.51	0.80	33.08	---	---	Peak
5 @	432.30	26.26	-19.74	46.00	42.28	16.31	0.83	33.15	---	---	Peak
6 @	526.80	28.79	-17.21	46.00	43.38	17.70	0.93	33.22	---	---	Peak

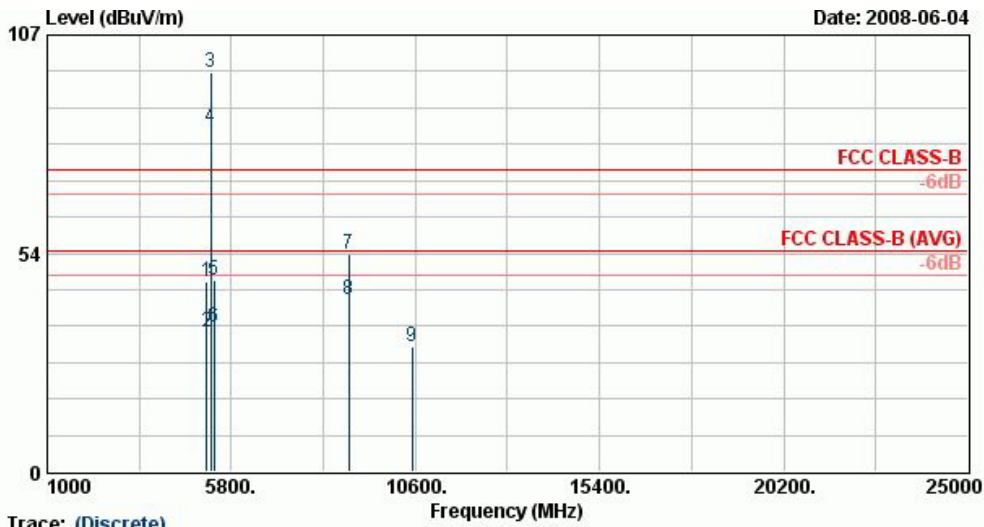
Remark: Frequency from 9KHz to 30MHz, the emission emitted by the EUT is too low to be measured.



Trace: (Discrete)

Site : D3CH06-HY
 Condition : PART 15E 3m HF-ANT(071024) HORIZONTAL
 EUT : 平板电脑
 Power : 120Vac/60Hz
 Model : FR 840719
 Memo : Mode 4
 Data Rate : 6

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	5150.00	46.24	-22.06	68.30	41.50	34.38	5.98	35.63	---	---	Peak
2 @	5350.00	46.84	-21.46	68.30	41.80	34.62	6.09	35.67	---	---	Peak



Trace: (Discrete)

Site : 03CH06-HY
 Condition : FCC CLASS-B 3m SHF-EHF HORN HORIZONTAL
 EUT : 平板电脑
 Power : 120Vac/60Hz
 Model : FR 840719
 Memo : Mode 4
 Data Rate : 6

	Freq	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	5150.00	46.70	-27.30	74.00	41.97	34.38	5.98	35.63	100	0	Peak
2 @	5150.00	34.37	-19.63	54.00	29.64	34.38	5.98	35.63	105	336	Average
3 @	5260.00	98.01			93.12	34.50	6.04	35.65	100	0	Peak
4 @	5260.00	84.24			79.32	34.52	6.05	35.65	105	336	Average
5	5350.00	46.89	-27.11	74.00	41.85	34.62	6.09	35.67	100	0	Peak
6 @	5350.00	35.21	-18.79	54.00	30.17	34.62	6.09	35.67	105	336	Average
7 @	8868.00	53.20	-20.80	74.00	45.76	36.31	7.65	36.53	100	0	Peak
8 @	8868.00	42.05	-11.95	54.00	34.61	36.31	7.65	36.53	100	116	Average
9	10521.00	30.49	-43.51	74.00	67.05	-8.49	8.34	36.40	100	0	Peak

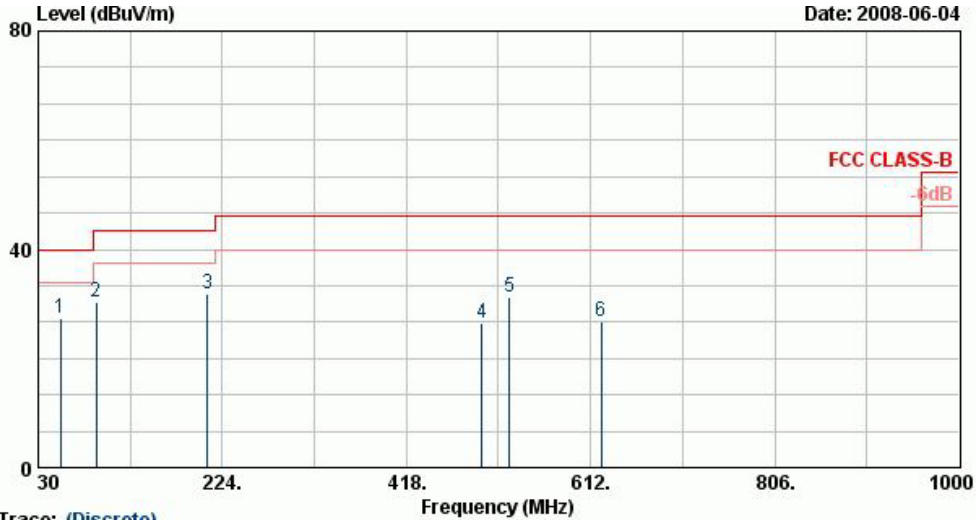
Remark: 1. #3 and #4 are Fundamental Signals.

2. Frequency from 25GHz to 40GHz, the emission emitted by the EUT is too low to be measured.



- Polarization : Vertical

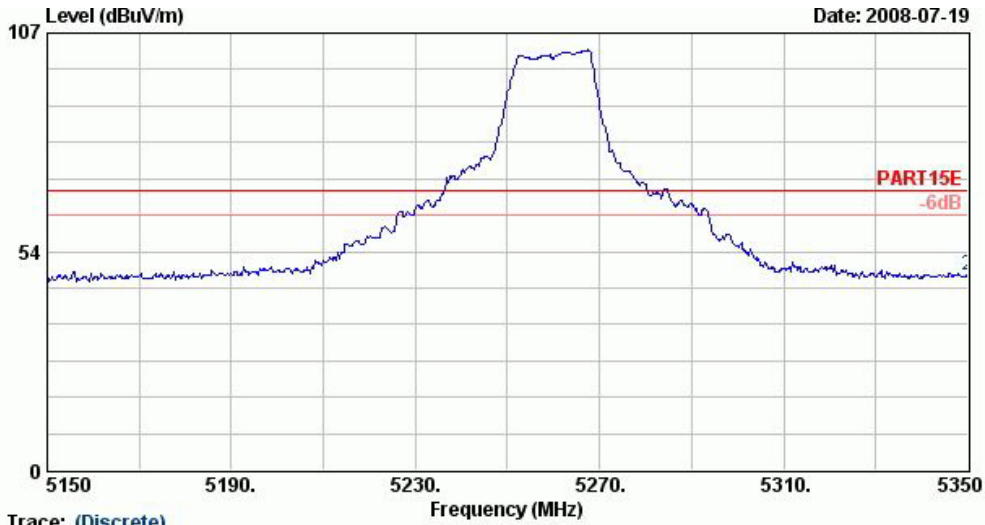
The test that passed at minimum margin was marked by the boldface in the following table.



Trace: (Discrete)
 Site : D3CH06-HY
 Condition : FCC CLASS-B 3m LP-ANT(951121) VERTICAL
 EUT : 平板电脑
 Power : 120Vac/60Hz
 Model : FR 840719
 Memo : Mode 4
 Data Rate : 6

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1 @	53.49	27.48	-12.52	40.00	52.76	7.64	0.36	33.28	---	---	Peak
2 @	91.29	30.41	-13.09	43.50	53.98	9.23	0.50	33.30	---	---	Peak
3 @	208.74	31.84	-11.66	43.50	54.94	9.81	0.60	33.51	100	208	Peak
4 @	497.40	26.51	-19.49	46.00	41.50	17.38	0.97	33.34	---	---	Peak
5 @	526.80	31.27	-14.73	46.00	45.86	17.70	0.93	33.22	---	---	Peak
6 @	623.40	26.72	-19.28	46.00	40.02	18.57	1.06	32.93	---	---	Peak

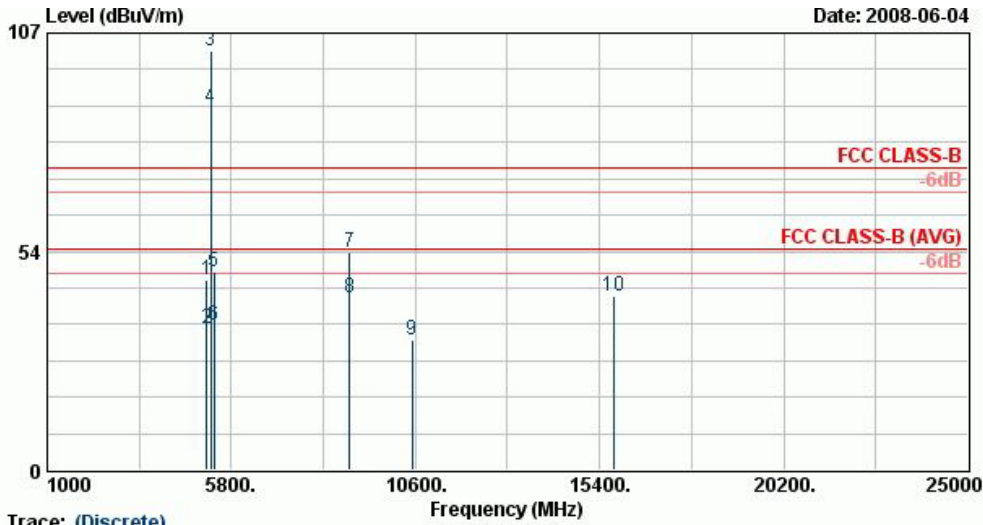
Remark: Frequency from 9KHz to 30MHz, the emission emitted by the EUT is too low to be measured.



Trace: (Discrete)

Site : 03CH06-HY
 Condition : PART15E 3m HF-ANT(071024) VERTICAL
 EUT : 平板电脑
 Power : 120Vac/60Hz
 Model : FR 840719
 Memo : Mode 4
 Data Rate : 6

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1 @	5150.00	47.81	-20.49	68.30	43.08	34.38	5.98	35.63	---	---	Peak
2 @	5350.00	47.73	-20.57	68.30	42.69	34.62	6.09	35.67	---	---	Peak



Trace: (Discrete)

Site : 03CH06-HY
 Condition : FCC CLASS-B 3m SHF-EHF HORN VERTICAL
 EUT : 平板电脑
 Power : 120Vac/60Hz
 Model : FR 840719
 Memo : Mode 4
 Data Rate : 6

	Freq	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	5150.00	46.66	-27.34	74.00	41.93	34.38	5.98	35.63	100	0	Peak
2 @	5150.00	34.56	-19.44	54.00	29.83	34.38	5.98	35.63	127	358	Average
3 @	5260.00	102.77			97.85	34.52	6.05	35.65	100	0	Peak
4 @	5260.00	88.58			83.66	34.52	6.05	35.65	127	358	Average
5	5350.00	48.55	-25.45	74.00	43.51	34.62	6.09	35.67	100	0	Peak
6 @	5350.00	35.58	-18.42	54.00	30.54	34.62	6.09	35.67	127	358	Average
7 @	8894.00	53.35	-20.65	74.00	45.87	36.34	7.68	36.54	100	0	Peak
8 @	8894.00	42.15	-11.85	54.00	34.67	36.34	7.68	36.54	100	271	Average
9	10521.00	31.92	-42.08	74.00	68.47	-8.49	8.34	36.40	100	0	Peak
10	15786.00	42.54	-31.46	74.00	74.74	-5.37	9.60	36.43	100	0	Peak

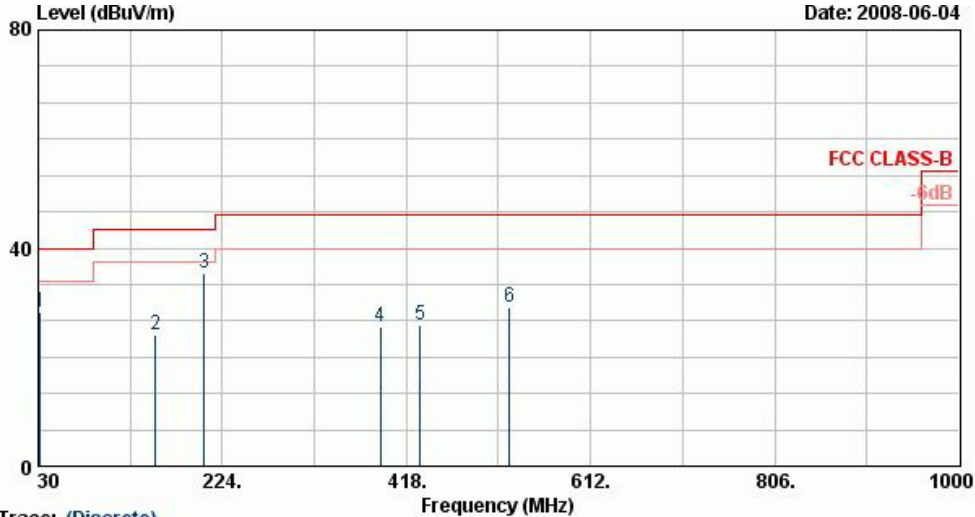
Remark: 1. #3 and #4 are Fundamental Signals.

2. Frequency from 25GHz to 40GHz, the emission emitted by the EUT is too low to be measured.



- Test Mode : Mode 5
- Polarization : Horizontal

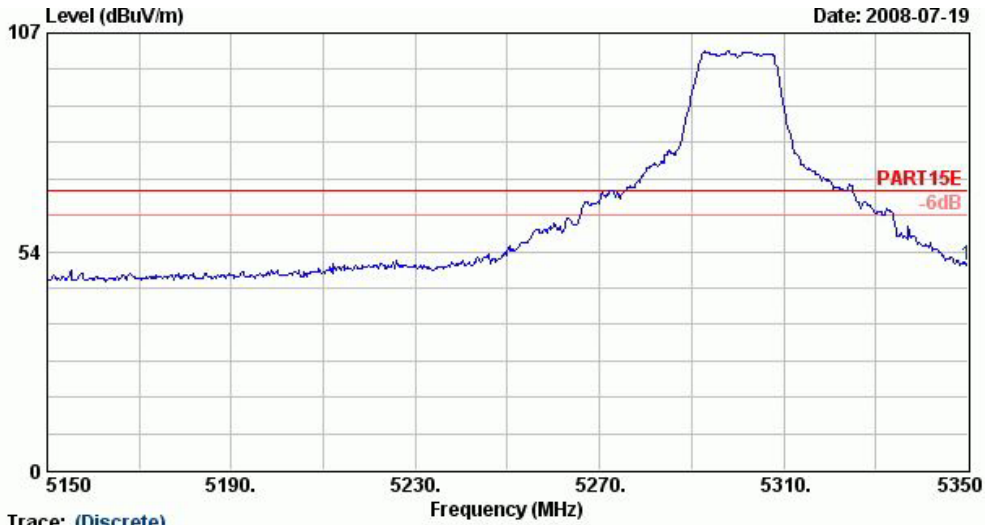
The test that passed at minimum margin was marked by the boldface in the following table.



Trace: (Discrete)
 Site : 03CH06-HY
 Condition : FCC CLASS-B 3m LF-ANT(951121) HORIZONTAL
 EUT : 平板电脑
 Power : 120Vac/60Hz
 Model : FR 840719
 Memo : Mode 5
 Data Rate : 6

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1 @	32.43	28.39	-11.61	40.00	43.93	17.54	0.30	33.38	---	---	Peak
2	153.39	24.11	-19.39	43.50	46.73	10.32	0.60	33.54	---	---	Peak
3 @	205.23	35.38	-8.12	43.50	58.66	9.64	0.60	33.52	100	304	Peak
4	390.30	25.69	-20.31	46.00	42.46	15.51	0.80	33.08	---	---	Peak
5	432.30	25.88	-20.12	46.00	41.90	16.31	0.83	33.15	---	---	Peak
6 @	526.80	29.13	-16.87	46.00	43.71	17.70	0.93	33.22	---	---	Peak

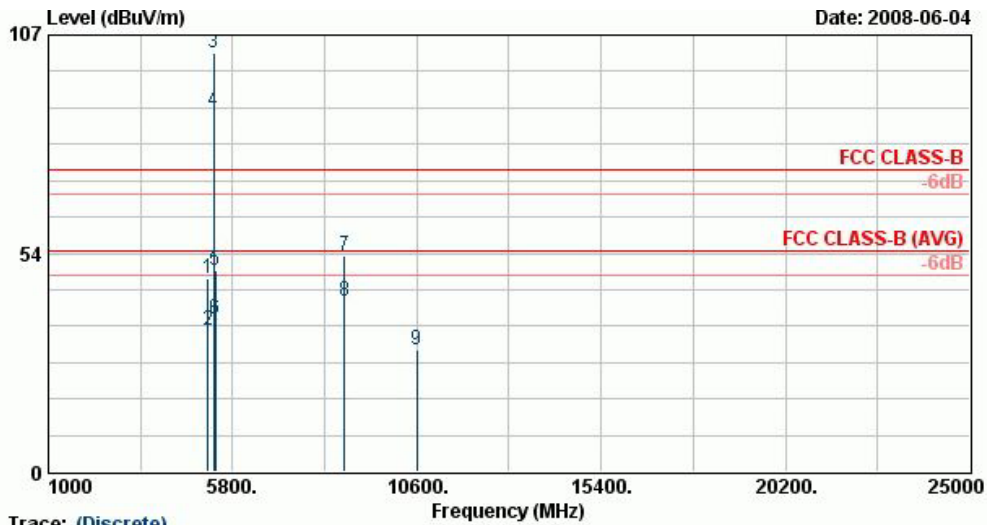
Remark: Frequency from 9KHz to 30MHz, the emission emitted by the EUT is too low to be measured.



Trace: (Discrete)

Site : 03CH06-HY
 Condition : PART15E 3m HF-ANT(071024) HORIZONTAL
 EUT : 平板电脑
 Power : 120Vac/60Hz
 Model : FR 840719
 Memo : Mode 5
 Data Rate : 6

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1 @	5350.00	50.30	-18.00	68.30	45.26	34.62	6.09	35.67	---	---	Peak



Trace: (Discrete)

Site : 03CH06-HY
 Condition : FCC CLASS-B 3m SHF-EHF HORN HORIZONTAL
 EUT : 平板电脑
 Power : 120Vac/60Hz
 Model : FR 840719
 Memo : Mode 5
 Data Rate : 6

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	cm	deg	
1	5150.00	47.38	-26.62	74.00	42.65	34.38	5.98	35.63	100	0 Peak
2	5150.00	34.65	-19.35	54.00	29.92	34.38	5.98	35.63	151	102 Average
3 @	5300.00	102.46			97.51	34.54	6.07	35.66	100	0 Peak
4 @	5300.00	88.18			83.22	34.56	6.07	35.66	151	102 Average
5	5350.00	49.17	-24.83	74.00	44.13	34.62	6.09	35.67	100	0 Peak
6 @	5350.00	37.37	-16.63	54.00	32.33	34.62	6.09	35.67	151	102 Average
7	8704.00	52.84	-21.16	74.00	45.74	36.08	7.45	36.42	100	0 Peak
8 @	8704.00	41.73	-12.27	54.00	34.62	36.08	7.45	36.42	100	191 Average
9	10596.00	29.77	-44.23	74.00	66.17	-8.46	8.41	36.35	100	0 Peak

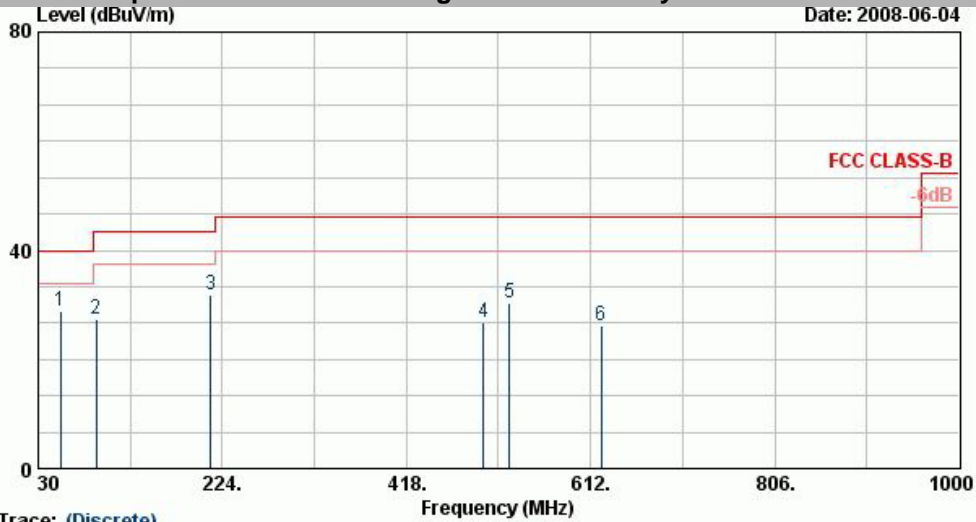
Remark: 1. #3 and #4 are Fundamental Signals.

2. Frequency from 25GHz to 40GHz, the emission emitted by the EUT is too low to be measured.



• Polarization : Vertical

■ The test that passed at minimum margin was marked by the boldface in the following table.

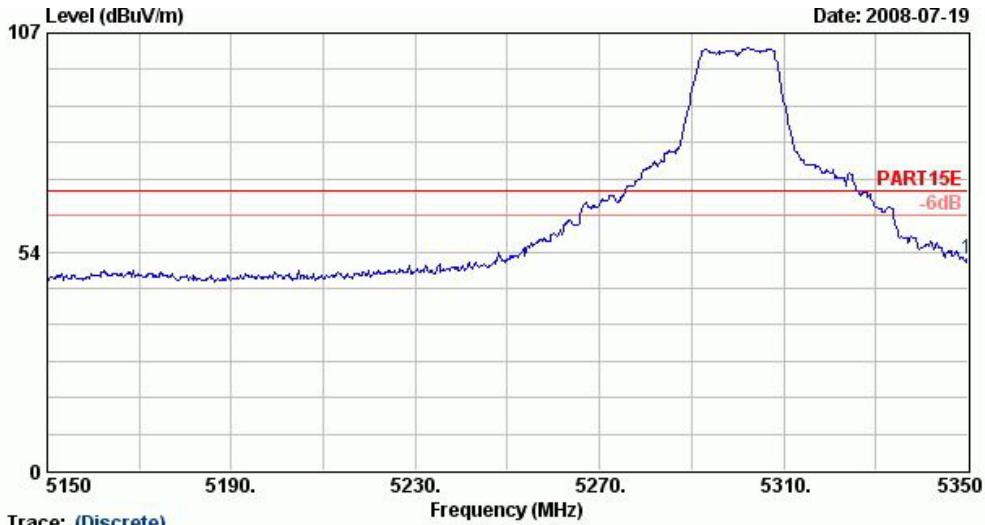


Trace: (Discrete)

Site : 03CH06-HY
 Condition : FCC CLASS-B 3m LF-ANT(051121) VERTICAL
 EUT : 手紙電腦
 Power : 120Vac/60Hz
 Model : FR 840719
 Memo : Mode 5
 Data Rate : 6

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1 @	53.49	28.89	-11.11	40.00	54.17	7.64	0.36	33.28	100	185	Peak
2 @	91.29	27.24	-16.26	43.50	50.81	9.23	0.50	33.30	---	---	Peak
3 @	211.98	31.81	-11.69	43.50	54.65	10.04	0.62	33.51	---	---	Peak
4	498.80	26.70	-19.30	46.00	41.66	17.40	0.98	33.34	---	---	Peak
5 @	526.80	30.23	-15.77	46.00	44.82	17.70	0.93	33.22	---	---	Peak
6	623.40	26.29	-19.71	46.00	39.59	18.57	1.06	32.93	---	---	Peak

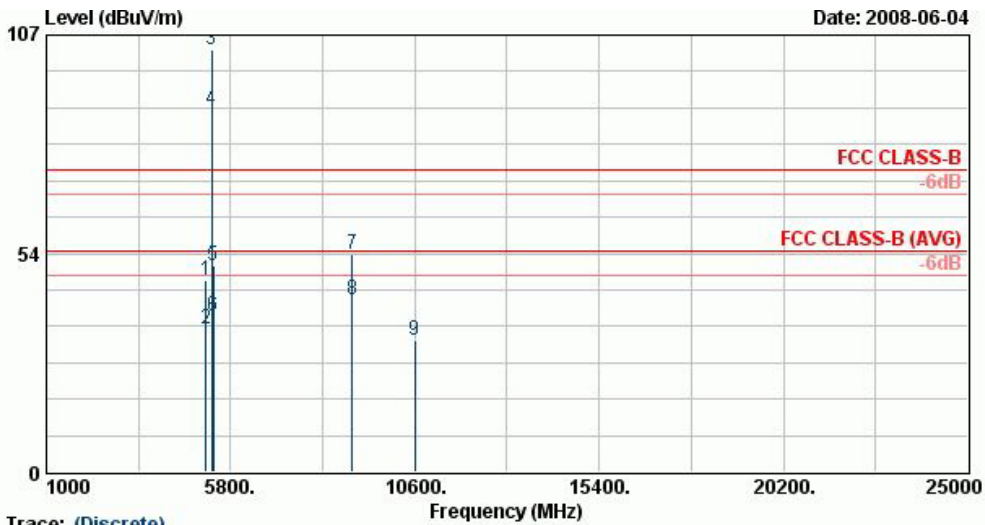
Remark: Frequency from 9KHz to 30MHz, the emission emitted by the EUT is too low to be measured.



Trace: (Discrete)

Site : 03CH06-HY
 Condition : PART15E 3m HF-ANT(071024) VERTICAL
 EUT : 平板电脑
 Power : 120Vac/60Hz
 Model : FR 840719
 Memo : Mode 5
 Data Rate : 6

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1 @	5350.00	51.55	-16.75	68.30	46.51	34.62	6.09	35.67	---	---	Peak



Trace: (Discrete)

Site : 03CH06-HY
 Condition : FCC CLASS-B 3m SHF-EHF HORN VERTICAL
 EUT : 平板电脑
 Power : 120Vac/60Hz
 Model : FR 840719
 Memo : Mode 5
 Data Rate : 6

	Freq	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	5150.00	47.08	-26.92	74.00	42.35	34.38	5.98	35.63	100	0	Peak
2	5150.00	34.86	-19.14	54.00	30.13	34.38	5.98	35.63	100	359	Average
3 @	5300.00	103.43			98.47	34.56	6.07	35.66	100	0	Peak
4 @	5300.00	88.80			83.84	34.56	6.07	35.66	100	359	Average
5	5350.00	50.57	-23.43	74.00	45.53	34.62	6.09	35.67	100	0	Peak
6 @	5350.00	38.12	-15.88	54.00	33.08	34.62	6.09	35.67	100	359	Average
7	8978.00	53.32	-20.68	74.00	45.68	36.45	7.77	36.59	100	0	Peak
8 @	8978.00	42.15	-11.85	54.00	34.51	36.45	7.77	36.59	100	117	Average
9	10596.00	32.32	-41.68	74.00	68.72	-8.46	8.41	36.35	100	0	Peak

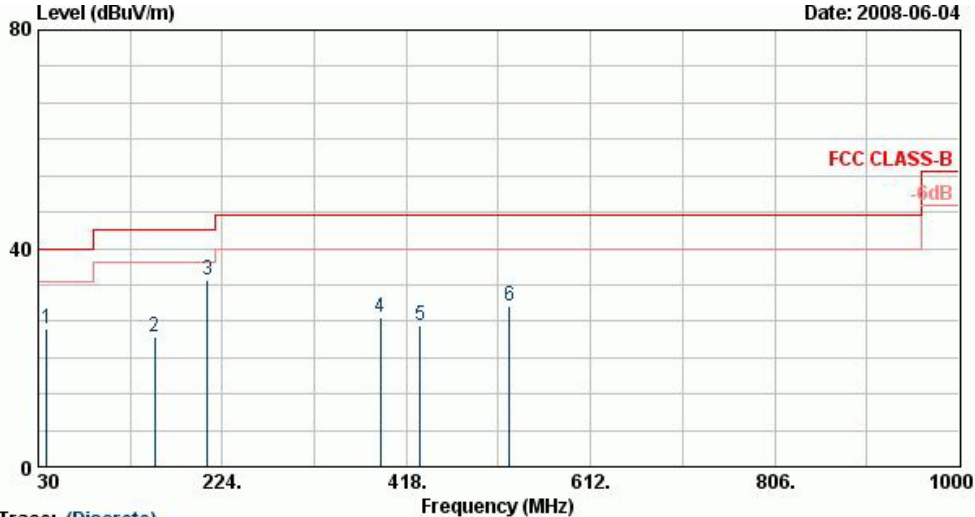
Remark: 1. #3 and #4 are Fundamental Signals.

2. Frequency from 25GHz to 40GHz, the emission emitted by the EUT is too low to be measured.



- Test Mode : Mode 6
- Polarization : Horizontal

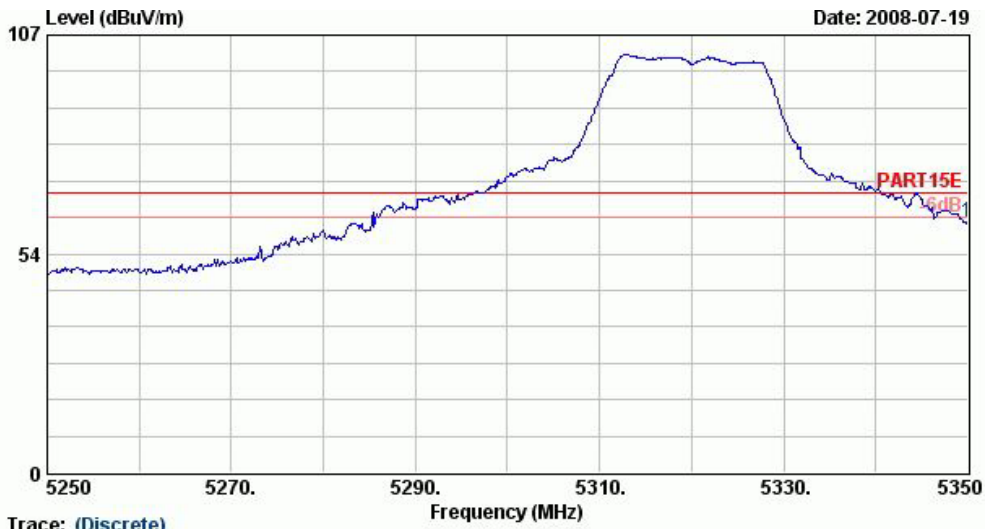
The test that passed at minimum margin was marked by the boldface in the following table.



Trace: (Discrete)
 Site : 03CH06-HY
 Condition : FCC CLASS-B 3m LF-ANT(951121) HORIZONTAL
 EUT : 平板电脑
 Power : 120Vac/60Hz
 Model : FR 840719
 Memo : Mode 6
 Data Rate : 6

	Freq	Level	Over Limit	Limit Line	ReadAntenna	Cable	Preamp	Ant	Table	Remark	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	39.18	25.24	-14.76	40.00	44.12	14.03	0.30	33.22	---	---	Peak
2	152.58	23.69	-19.81	43.50	46.29	10.35	0.60	33.55	---	---	Peak
3	207.93	34.24	-9.26	43.50	57.40	9.76	0.60	33.52	100	152	Peak
4	390.30	27.38	-18.62	46.00	44.15	15.51	0.80	33.08	---	---	Peak
5	432.30	25.91	-20.09	46.00	41.93	16.31	0.83	33.15	---	---	Peak
6	526.80	29.54	-16.46	46.00	44.13	17.70	0.93	33.22	---	---	Peak

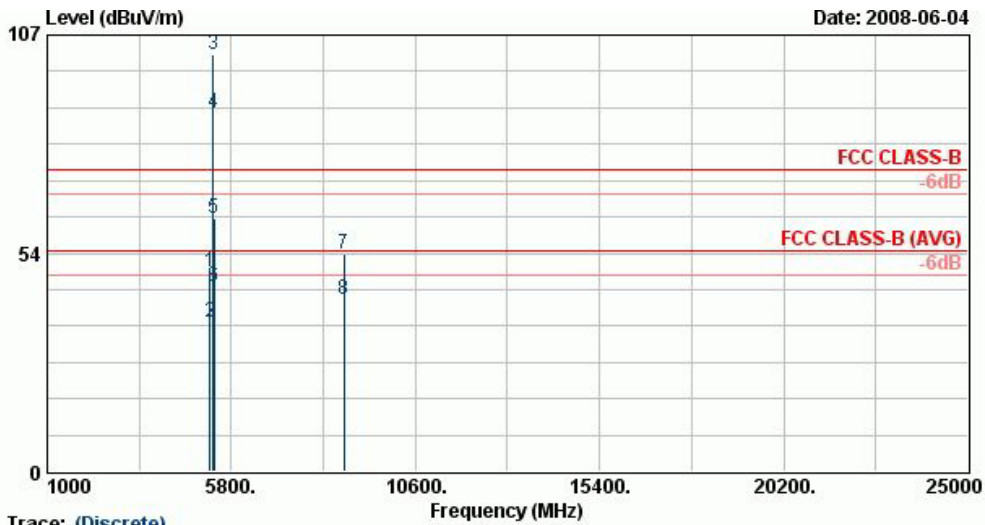
Remark: Frequency from 9KHz to 30MHz, the emission emitted by the EUT is too low to be measured.



Trace: (Discrete)

Site : 03CH06-HV
 Condition : PART15E 3m HF-ANT(071024) HORIZONTAL
 EUT : 平板电脑
 Power : 120Vac/60Hz
 Model : FR 840719
 Memo : Mode 6
 Data Rate : 6

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1 @	5350.00	61.41	-6.89	68.30	56.37	34.62	6.09	35.67	---	---	Peak



Trace: (Discrete)

Site : 03CH06-RV
 Condition : FCC CLASS-B 3m SHF-EHF HORN HORIZONTAL
 EUT : 平板电脑
 Power : 120Vac/60Hz
 Model : FR 840719
 Memo : Mode 6
 Data Rate : 6

	Freq	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	5250.00	49.01	-24.99	74.00	44.12	34.50	6.04	35.65	100	0	Peak
2	5250.00	36.77	-17.23	54.00	31.88	34.50	6.04	35.65	171	101	Average
3 @	5320.00	102.23			97.23	34.58	6.08	35.66	100	0	Peak
4 @	5320.00	87.94			82.94	34.58	6.08	35.66	171	101	Average
5	5350.00	62.00	-12.00	74.00	56.96	34.62	6.09	35.67	100	0	Peak
6	5350.00	45.54	-8.46	54.00	40.50	34.62	6.09	35.67	171	101	Average
7	8728.00	53.37	-20.63	74.00	46.20	36.13	7.48	36.44	100	0	Peak
8	8728.00	42.28	-11.72	54.00	35.11	36.13	7.48	36.44	100	160	Average

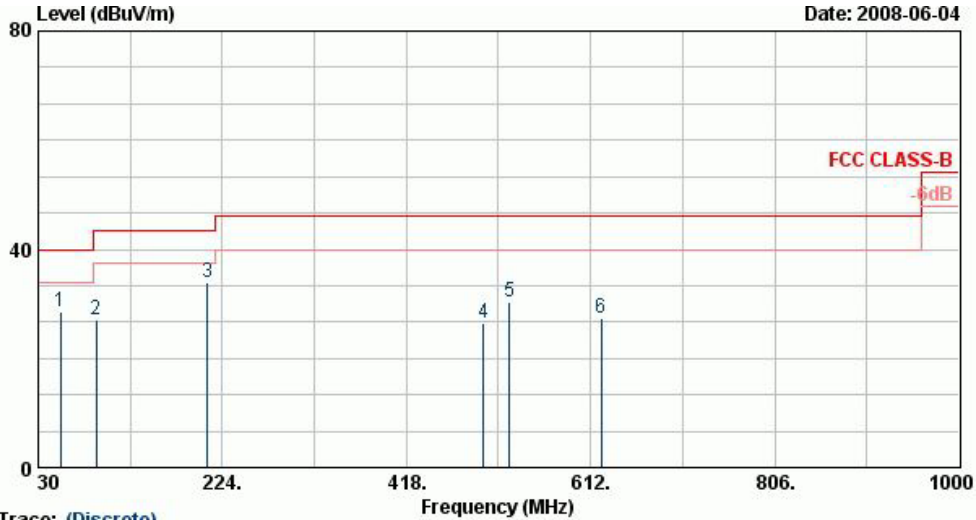
Remark: 1. #3 and #4 are Fundamental Signals.

2. Frequency from 25GHz to 40GHz, the emission emitted by the EUT is too low to be measured.



- Polarization : Vertical

The test that passed at minimum margin was marked by the boldface in the following table.

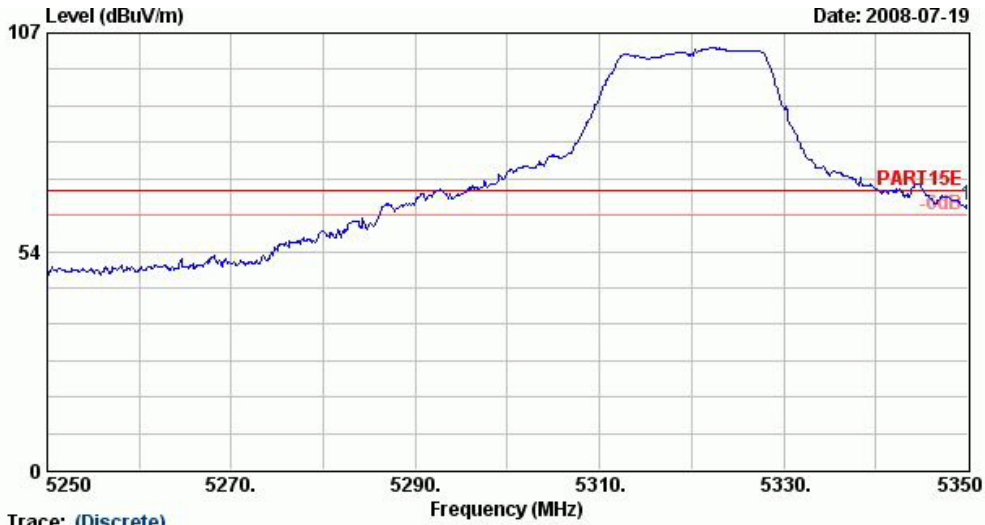


Trace: (Discrete)

Site : D3CH06-HY
 Condition : FCC CLASS-B 3m LP-ANT(951121) VERTICAL
 EUT : 平板电脑
 Power : 120Vac/60Hz
 Model : FR 840719
 Memo : Mode 6
 Data Rate : 6

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	53.49	28.46	-11.54	40.00	53.74	7.64	0.36	33.28	---	---	Peak
2	91.29	27.17	-16.33	43.50	50.75	9.23	0.50	33.30	---	---	Peak
3	207.93	33.86	-9.64	43.50	57.02	9.76	0.60	33.52	100	124	Peak
4	498.80	26.41	-19.59	46.00	41.37	17.40	0.98	33.34	---	---	Peak
5	526.80	30.47	-15.53	46.00	45.05	17.70	0.93	33.22	---	---	Peak
6	623.40	27.33	-18.67	46.00	40.63	18.57	1.06	32.93	---	---	Peak

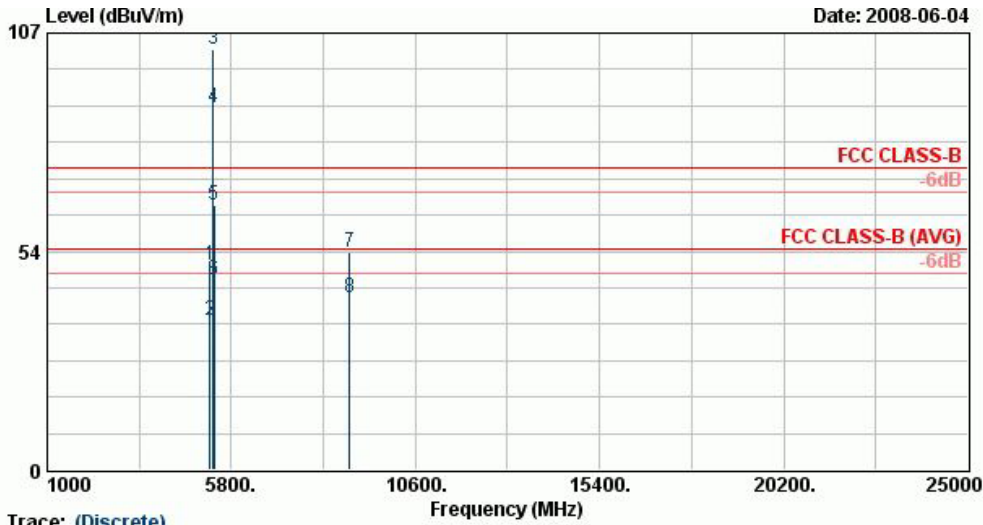
Remark: Frequency from 9KHz to 30MHz, the emission emitted by the EUT is too low to be measured.



Trace: (Discrete)

Site : 03CH06-HY
 Condition : PART15E 3m HF-ANT(071024) VERTICAL
 EUT : 平板电脑
 Power : 120Vac/60Hz
 Model : FR 840719
 Memo : Mode 6
 Data Rate : 6

	Freq	Level	Over Limit	Limit Line	ReadAntenna	Cable	Preamp	Ant	Table	Remark	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1 @	5350.00	64.73	-3.57	68.30	59.69	34.62	6.09	35.67	---	---	Peak



Trace: (Discrete)

Site : 03CH06-HY
 Condition : FCC CLASS-B 3m SHF-EHF HORN VERTICAL
 EUT : 平板电脑
 Power : 120Vac/60Hz
 Model : FR 840719
 Memo : Mode 6
 Data Rate : 6

	Freq	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	5250.00	49.93	-24.07	74.00	45.04	34.50	6.04	35.65	100	0	Peak
2	5250.00	36.47	-17.53	54.00	31.58	34.50	6.04	35.65	100	360	Average
3 @	5320.00	103.15			98.15	34.58	6.08	35.66	100	0	Peak
4 @	5320.00	88.85			83.85	34.58	6.08	35.66	100	360	Average
5	5350.00	64.72	-9.28	74.00	59.68	34.62	6.09	35.67	100	0	Peak
6	5350.00	46.49	-7.51	54.00	41.45	34.62	6.09	35.67	100	360	Average
7	8878.00	53.41	-20.59	74.00	45.97	36.31	7.65	36.53	100	0	Peak
8	8878.00	42.31	-11.69	54.00	34.87	36.31	7.65	36.53	100	215	Average

Remark: 1. #3 and #4 are Fundamental Signals.

2. Frequency from 25GHz to 40GHz, the emission emitted by the EUT is too low to be measured.



5.3 Antenna Requirements

The EUT meets antenna requirement of FCC for the following reasons.

5.3.1 Standard Applicable

According to FCC 47 CFR Section 15.407(a)(1)(2) ,if transmitting antennas of directional gain greater than 6 dBi are used, both the peak transmit power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

5.3.2 Antenna Connected Construction

The antenna used in this product is PIFA Antenna for WLAN without connector and it is considered to meet antenna requirement of FCC.



6. List of Measuring Equipments

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Due Date	Remark
Bilog Antenna	SCHAFFNER	CBL6112B	2885	30MHz~2GHz	Dec. 01, 2007	Nov. 31, 2008	Radiation (03CH06-HY)
Double Ridge Horn Antenna	EMCO	3117	66583	1G~18G	Aug. 29, 2007	Aug. 28, 2008	Radiation (03CH06-HY)
SHF-EHF Horn	SCHWARZBECK	BBHA 9170	9170-251	15G~40GHz	Oct. 17, 2007	Oct. 16, 2008	Radiation (03CH06-HY)
Spectrum Analyzer	Agilent	E4408B	MY44211028	9KHz~26.5GHz	Oct. 17, 2007	Oct. 16, 2008	Radiation (03CH06-HY)
EMI Test Receiver	R&S	ESVS10	834468/003	20~1000MHz	Apr. 24, 2008	Apr. 23, 2009	Radiation (03CH06-HY)
Pre Amplifier	Agilent	310N	186713	9KHz~1GHz	Apr. 21, 2008	Apr. 20, 2009	Radiation (03CH06-HY)
Pre Amplifier	Agilent	8449B	3008A01917	1G~26.5G	Nov. 22, 2007	Nov. 21, 2008	Radiation (03CH06-HY)



7. Uncertainty Evaluation

Uncertainty of Conducted Emission Measurement (150 KHz ~ 30 MHz)

Contribution	Uncertainty of x_i		$u(x_i)$
	dB	Probability Distribution	
Receiver reading	0.10	Normal(k=2)	0.05
Cable loss	0.10	Normal(k=2)	0.05
AMN insertion loss	2.50	Rectangular	0.63
Receiver Spec	1.50	Rectangular	0.43
Site imperfection	1.39	Rectangular	0.80
Mismatch	+0.34/-0.35	U-shape	0.24
Combined standard uncertainty Uc(y)	1.13		
Measuring uncertainty for a level of confidence of 95% U=2Uc(y)	2.26		

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Contribution	Uncertainty of x_i		$u(x_i)$
	dB	Probability Distribution	
Receiver reading	0.41	Normal(k=2)	0.21
Antenna factor calibration	0.83	Normal(k=2)	0.42
Cable loss calibration	0.25	Normal(k=2)	0.13
Pre Amplifier Gain calibration	0.27	Normal(k=2)	0.14
RCV/SPA specification	2.50	Rectangular	0.72
Antenna Factor Interpolation for Frequency	1.00	Rectangular	0.29
Site imperfection	1.43	Rectangular	0.83
Mismatch	+0.39/-0.41	U-shaped	0.28
Combined standard uncertainty Uc(y)	1.27		
Measuring uncertainty for a level of confidence of 95% U=2Uc(y)	2.54		



Uncertainty of Radiated Emission Measurement (1 GHz ~ 40 GHz)

Contribution	Uncertainty of x_i		$u(x_i)$	C_i	$C_i * u(x_i)$
	dB	Probability Distribution			
Receiver reading	±0.10	Normal(k=1)	0.10	1	0.10
Antenna factor calibration	±1.70	Normal(k=2)	0.85	1	0.85
Cable loss calibration	±0.50	Normal(k=2)	0.25	1	0.25
Receiver Correction	±2.00	Rectangular	1.15	1	1.15
Antenna Factor Directional	±1.50	Rectangular	0.87	1	0.87
Site imperfection	±2.80	Triangular	1.14	1	1.14
Mismatch Receiver VSWR $\Gamma_1 = 0.197$ Antenna VSWR $\Gamma_2 = 0.194$ Uncertainty = $20 \log(1 - \Gamma_1 * \Gamma_2 * \Gamma_3)$	+0.34/-0.35	U-shaped	0.244	1	0.244
Combined standard uncertainty $U_c(y)$	2.36				
Measuring uncertainty for a level of confidence of 95% $U = 2U_c(y)$	4.72				

The measured result is : y dBuV \pm U dB
for a level of confidence of approximately 95% , ($k = 2$)



Appendix A. Photographs of EUT

Please refer to Sporton report number EP840719.



Appendix C. WLAN Module Report

Please refer to Aegis report number INTEL-051020F as below.



AEGIS LABS INC.



Class II Permissive Change
Test Report
And Application for Grant of Equipment Authorization

Pertaining To:

Equipment Under Test	FCC ID:
Intel PRO/Wireless 3945ABG Network Connection, MN: WM3945ABG	PD9WM3945ABG

Configuration
802.11a / 802.11b / 802.11g with a set of Sony IRX-3400 Antennas

MEASUREMENTS PERFORMED IN ACCORDANCE WITH

Regulatory Standard(s)
47 CFR Part 15, Subpart E Section 15.407 (UNII Devices)
<p>Test Method: ANSI C63.4: 2003 American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz</p>



Certificate Number: 1111.01

APPLICANT:

Intel Corporation
2111 NE 25th Avenue
Hillsboro, Oregon 97124

Contact(s): Mr. Robert Paxman

PREPARED BY:

Aegis Labs, Inc.
22431 Antonio Parkway B160-417
Rancho S. Margarita, CA 92688

Agent(s): Mr. Steve Kuiper
Mr. Rick Candelas
Mr. Johnny Candelas

Test Report #: INTEL-051020F
Test Report Revision: None

	REPORT BODY	APPENDICES <i>A</i>	TOTAL PAGES
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Report Number: INTEL-051020F
FCC ID: PD9WM3945ABG



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APPENDICES

A	Test Data
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AEGIS LABS INC.


1.0 CERTIFICATION OF TEST DATA

Aegis Labs, Inc. operates as both a Nevada and California Corporation with no organizational or financial relationship with any company, institution, or private individual.

Testing and engineering functions provided by Aegis Labs are furnished through the use of part-time, full-time or consulting engineers with the appropriate qualifications to carry out their duties. The intended purpose of this test report is to describe the measurement procedure and to determine whether the equipment under test "EUT" complies with both the conducted and radiated limits. Limits for emissions testing are described under Subpart E of Part 15 of the FCC rules for Unlicensed National Information Infrastructure (UNII) Devices.

The data, data evaluation and equipment configuration represented herein are a true and accurate representation of the Equipment Under Test (EUT) under the requirements specified in the emissions standard as described below. The test results contained in this report are only representative of the test sample tested as described in Section 3.0 of this report. Certification of the EUT is required as a prerequisite to marketing as defined in Part 2 of the FCC Rules.


Prepared By:



Johnny Candelas
Test Technician
Aegis Labs, Inc.

10/21/05
Date:

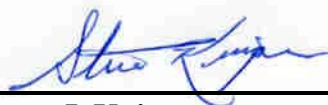
Reviewed By:



Rick Candelas
Lab Manager
Aegis Labs, Inc.

10/21/05
Date:

Report Approved By:



Steve J. Kuiper
Quality Assurance Manager
Aegis Labs, Inc.

10/21/05
Date:

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Report Number: INTEL-051020F
FCC ID: PD9WM3945ABG



2.0 SUMMARY OF TEST RESULTS

The test results provided within this report, indicate that the EUT has been found to be in **COMPLIANCE** with the test specifications based upon the following RF compliance standards:

Pass/Fail determination is based upon the nominal values of the test data.

EMISSIONS STANDARD			
FCC Part 15 Section	Description	Results	Comments
Operation in the 5.15-5.25 GHz Band			
15.407(d)	Any UNII device shall use a transmitting antenna that is an integral part of the device.	PASSED	The antenna will be integral when installed in a notebook computer
15.407(e)	UNII devices will be restricted to indoor operations.	PASSED	Refer to "User's Manual" Exhibit
15.407(a)(1)	26dB emissions bandwidth in MHz.	N/A	5.18 GHz = 23.33 MHz <i>Per Original Filing</i>
15.407(a)(1)	Peak transmit power shall not exceed the lesser of 50mW or 4dBm+10logB (where B = 26dB emissions bandwidth).	PASSED	5.18 GHz = 16.45dBm (44.16mW) 5.24 GHz = 16.88dBm (48.75mW)
15.407(a)(1)	The peak power spectral density shall not exceed 4dBm in any 1MHz band.	PASSED	5.18 GHz = 3.50dBm <i>Per Original Filing</i>
15.407(a)(1)	Peak transmit power and the peak power spectral density shall be reduced by the amount in dB that the transmitting antenna exceeds 6dBi.	N/A	All antennas tested have less than 6dBi antenna gain (Please see the antenna data sheets)
15.407(b)(6) 15.209	Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in Section 15.209.	PASSED	<i>See Original Filing</i>
15.407(b)(1)	All emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27dBm/MHz.	PASSED	See Data Sheets
Operation in the 5.25-5.35 GHz Band			
15.407(a)(2)	26dB emissions bandwidth in MHz.	N/A	5.26 GHz = 23.33 MHz 5.32 GHz = 25.33 MHz <i>Per Original Filing</i>
15.407(a)(2)	Peak transmit power shall not exceed the lesser of 250mW or 11dBm+10logB (where B = 26dB emissions bandwidth).	PASSED	5.26 GHz = 18.32dBm (67.92mW) 5.32 GHz = 18.19dBm (65.92mW)
15.407(a)(2)	The peak power spectral density shall not exceed 11dBm in any 1MHz band.	PASSED	5.26 GHz = 7.33dBm 5.32 GHz = 7.00dBm <i>Per Original Filing</i>
15.407(a)(2)	Peak transmit power and the peak power spectral density shall be reduced by the amount in dB that the transmitting antenna exceeds 6dBi.	N/A	All antennas tested have less than 6dBi antenna gain (Please see the antenna data sheets)
15.407(b)(6) 15.209	Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in Section 15.209.	PASSED	<i>See Original Filing</i>
15.407(b)(2)	All emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27dBm/MHz. Must meet all applicable technical requirements for operating in the 5.15-5.25 GHz band.	PASSED	See Data Sheets



AEGIS LABS INC.

2.0 SUMMARY OF TEST RESULTS (Continued)

EMISSIONS STANDARD			
FCC Part 15 Section	Description	Results	Comments
General Requirements For All Bands			
15.407(a)(6)	The ratio of the peak excursion of the modulation envelope to the peak transmit power shall not exceed 13dB across any 1 MHz bandwidth or the emissions bandwidth whichever is less.	PASSED	5.18 GHz = 5.00 dB 5.26 GHz = 5.00 dB 5.32 GHz = 5.00 dB <i>Per Original Filing</i>
15.407(f)	Radio frequency radiation exposure requirement.	PASSED	Refer to MPE Calculations Exhibit
15.407(b)(6) 15.207	UNII devices using AC power line are required to comply with the conducted limits set forth in Section 15.207.	PASSED	See Data Sheets

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3.0 ADMINISTRATIVE DATA AND TEST DESCRIPTION

DEVICE TESTED:	ITE Type: Intel PRO/Wireless 3945ABG Network Connection Model Number(s): WM3945ABG Serial Number: 00B11A295CVD26965002 FCC ID: PD9WM3945ABG
TEST DATE(S):	October 19-24, 2005
DATE EUT RECEIVED:	October 17, 2005
ORIGIN OF TEST SAMPLE(S):	Production Unit
RESPONSIBLE PARTY:	Intel Corporation 2111 NE 25 th Avenue Hillsboro, Oregon 97124
CLIENT CONTACT:	Mr. Robert Paxman
MANUFACTURER:	Intel Corporation
TEST LOCATION:	Aegis Labs, Inc. 32231 Trabuco Creek Road Trabuco Canyon, CA 92678 Conducted Site #2 Radiated Site #2
A2LA CERTIFICATE:	1111.01, Valid through February 28, 2006
PURPOSE OF TEST:	To demonstrate compliance with the relevant standards described in Section 2.0 of this report.
TEST(S) PERFORMED:	Refer to Table in Section 2.0 of this report.

All calibration vendors were responsible for certifying Aegis Labs, Inc. test equipment as per the manufacturer's specifications and that the equipment is calibrated using instruments and standards where the accuracy is traceable to the National Institute of Standards and Technology (NIST). Calibration of all test equipment conforms to ANSI/NCSL Z540-1 and ISO 10012-1 and/or ISO/IEC Guide 17025 compliance (Additionally, other pertinent test equipment will carry MIL-STD-45662A). All calibration documents are on file with Aegis Labs, Inc., with copies provided upon request.

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4.0 DESCRIPTION OF EUT

4.1 EUT Description

Equipment Under Test (EUT)	
Trade Name:	Intel PRO/Wireless 3945ABG Network Connection
Model Number:	WM3945ABG
Frequency Range:	5.15-5.35 GHz
Enclosure:	The EUT contains it's own shield made of aluminum approximately 3.5cm wide by 3.5cm deep by 2mm high.
Transfer Rate:	6/36/52 Mbps
Antenna Type:	Main = Inverted F, Aux = Inverted F
Antenna Gain (See Note 2):	Sony IRX-3400 = 1.80 dBi @ 5 GHz
Transmit Output Power:	16 dBm (Typical) for 5.15-5.25 GHz 18 dBm (Typical) for 5.25-5.35 GHz Please see Appendix A (Data Sheets) for actual output power.
Power Supply:	3.3VDC from computer MPCIE slot.
Number of External Test Ports Exercised:	2 Antenna Ports (1 Main & 1 Auxiliary)

The Intel PRO/Wireless 3945ABG Network Connection is an embedded 802.11a/b/g network adapter operating in the 2.4 GHz and 5 GHz spectrum. The EUT is based on the Mini Card form factor designed to meet the space and size requirements for thin and light notebook PCs. It is capable of a data rate of up to 52 Mbps.

NOTE 1: For a more detailed description, please refer to the manufacture's specifications or User's Manual.

NOTE 2: Refer to the antenna specifications for a further description of the antennas. Antennas will be professionally installed inside the laptop computer by the laptop vendor.



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4.2 EUT Configuration

The EUT was tested installed in the Mini PCI-E slot of the host computer as a modular device using a PCI extender board to extend the EUT outside the computer chassis. The EUT was then connected to a set of antennas via its Main and AUX antenna ports. Data for a set of Sony IRX-3400 Antennas can be found in Appendix A (Data Sheets)

The low, middle, and high channels were tested in 802.11a, b, & g modes. Also, the EUT was tested once transmitting from the MAIN antenna port and once transmitting from the AUX antenna port. The EUT was placed in either continuous transmit or continuous receive mode by a program provided by the manufacturer (GRTT *Version 1.1.1*).



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4.3 List of EUT, Sub-Assemblies, and Host Equipment

LIST OF EUT AND SUB-ASSEMBLIES			
Equipment Name	Manufacturer	Model Number	Serial Number
Intel PRO/Wireless 3945ABG Network Connection	Intel Corporation	WM3945ABG	00B11A295CV D26965002
EUT Sub-Assemblies			
Main Multi Band Antenna	NISSEI ELECTRIC CO.	1-754-420-11	N/A
Auxiliary Multi Band Antenna	NISSEI ELECTRIC CO.	1-754-420-11	N/A

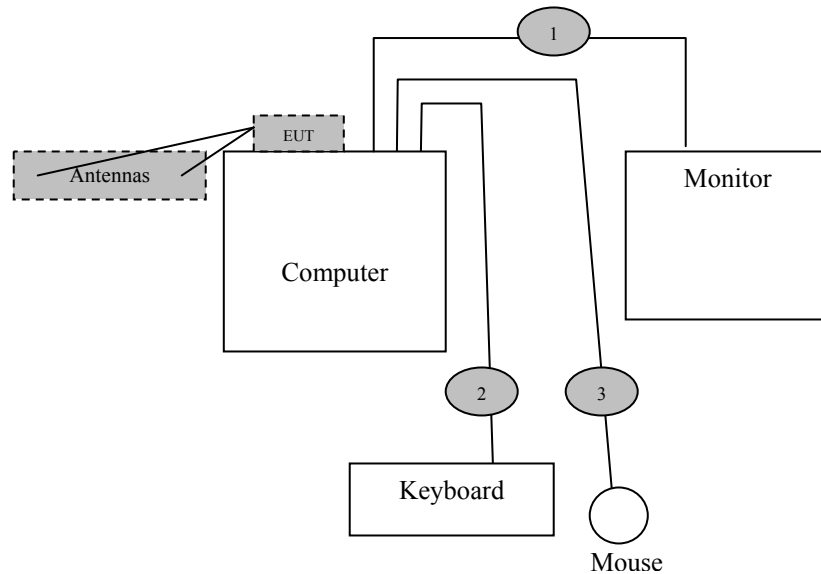
HOST EQUIPMENT LIST			
Equipment Name	Manufacturer	Model Number	Serial Number
Computer	Intel	Generic	IZTGVV4312035
Monitor	Compaq	610	712BC060B526
Keyboard	Logitech	Y-BF37	MCTZ5200581
Mouse	Logitech	M-BJ58	PMA32715049

NOTE: All the power cords of the above support equipment are standard non-shielded, 1.8 meters long.

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4.4 I/O Cabling Diagram and Description



- Cable 1: This is a 6-foot braid and foil shielded round cable connecting the host computer with the monitor. It has metallic DB-15 type connector at the computer end and is hardwired to the monitor. The cable is bundled to a length of one meter and the shield of the cable is grounded to the chassis of both devices via the connector shells.
- Cable 2: This is a 6-foot braid and foil shielded round cable connecting the host computer to the keyboard. It has a metallic 6-pin mini din type connector at the computer end and is hardwired to the keyboard. The shield of the cable is grounded to the chassis of the computer via the connector shell.
- Cable 3: This is a 6-foot braid and foil shielded round cable connecting the host computer to the mouse. It has a metallic 6-pin mini din type connector at the computer end and is hardwired to the mouse. The shield of the cable is grounded to the chassis of the computer via the connector shell.



5.0 TEST EQUIPMENT AND TEST SETUPS

The test equipment settings and functions are selected using the guidance of ANSI C63.4-2003. All test equipment setups and operations during conducted and radiated emissions testing are in accordance with this reference document.

5.1 AC Power Line Conducted Emissions

During conducted emissions measurements, a spectrum analyzer was used as the measuring instrument along with a preselector and quasi-peak detector. A 10 dB attenuation pad was used for the protection of the spectrum analyzer input stage. The conducted emissions from the EUT in the frequency range from 150 kHz to 30 MHz were captured for graphical display through the use of automated LABVIEW EMI measurement software. All graphical readings were measured in the “Peak” mode only to reduce testing time. Upon completion of the graphical scan, the test lab personnel performed the conducted measurement scan manually using the spectrum analyzer front panel keys. All peak measurements coming within 3 dB of the limit line were “Averaged” and/or “Quasi-Peaked” and denoted appropriately in the EXCEL spreadsheet.

The Equipment Under Test (EUT) was configured as a system with peripherals connected, so that at least one interface port of each type is connected to one external peripheral when tested for conducted emissions according to ANSI C63.4: 2003. Excess power cord length was wrapped in a bundle 30 to 40 centimeters in length near the center of the cord. The EUT was tested in a tabletop configuration.

The emission readings for Line 1 and Line 2 are highlighted on the data sheets in Appendix A. The graphical scans only reflect peak readings while the tabulated data sheets reflect peak, average, and/or quasi-peak readings which ever applies.



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5.2 Spurious Radiated Emissions

A spectrum analyzer was used as the measuring instrumentation along with a preselector and quasi-peak-detector. The pre-amplifiers were used to increase the sensitivity of the instrument. The spectrum analyzer was used in the peak detector mode with the “max-hold” feature activated and in Positive Peak mode. In this mode, the spectrum analyzer records the highest measured reading over all the sweeps. The quasi-peak detector was used only for those readings, which are marked accordingly in the data sheet. The effective measurement bandwidth used for the radiated emissions test was 120 kHz for (30 MHz- 1000 MHz). The spectrum analyzer operated such that the modulation of the signal was filtered out to set the analyzer in linear mode. For testing beyond 1000 MHz a spectrum analyzer capable of taking reading above 1000 MHz was connected to the high frequency amplifier, where these measurement readings were taken with the transducer placed at a 3-meter test distance from the EUT.

The Open Area Test Sites (OATS) was used for radiated emission testing. These test sites are designed according to ANSI C63.4: 2003 and ANSI C63.7: 1992 guidelines. The Measurements were conducted in accordance with ANSI C63.4: 2003 and ANSI C63.7: 1992 requirements.

Broadband biconical, log periodic, and horn antennas were used as transducers during the measurement reading phase. The frequency spans were wide (30 MHz-88 MHz, 88 MHz- 216 MHz, 216 MHz- 300 MHz, and 300 MHz- 1000 MHz). After 1000 MHz the horn antenna was used to measure emissions. The emission readings in both horizontal and vertical polarities are highlighted on the data sheets in Appendix A.

5.3 Conducted Emissions at the Antenna Port

A spectrum analyzer or power meter was used as the measuring instrumentation along with an attenuator and/or filter connected to the EUT antenna port. The attenuator and filters are used to ensure that the front end of the measurement instrument is not overloaded by the fundamental transmission. . The instruments recorded the measured readings with the bandwidths (video and resolution) set in accordance with the FCC Rules and regulations.

The measured readings are on the data sheets in Appendix A.



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5.4 Test and Measurement Equipment Used

TEST EQUIPMENT USED					
Equipment Name	Manufacturer	Model Number	Serial Number	Calibration Due Date	Calibration Cycle
Spectrum Analyzer	Agilent	8564EC	4046A00387	08/15/06	1 Year
Preamp	Miteq	JS42-01001800-25-10P	815980	07/21/06	1 Year
2.4 GHz Notch Filter	Micro-Tronics	BRM50702-02	003	04/21/06	1 Year
5.15-5.35 GHz Notch Filter	Microwave Circuits	N0452502	3173-01	06/27/06	1 Year
5.725-5.850 GHz Notch Filter	Microwave Circuits	N0257881	3173-01	06/27/06	1 Year
Horn Antenna	EMCO	3115	2230	02/06/06	1 Year
Antenna - 18-26.5 GHz Pre-amplified Horn	Aegis Labs, Inc.	H042	SLK-35-3W	11/04/05	1 Year
Antenna - 26.5-40 GHz Pre-amplified Horn	Aegis Labs, Inc.	H028	GM1260-10	11/04/05	1 Year
Cable	Semflex	60637	S1L29BFS1348	04/11/06	1 Year
Temperature/Humidity Monitor	Dickson	TH550	7255185	N/A	N/A
Power Meter	Anritsu	ML2487A	6K00001785	04/12/06	1 Year
Wide Bandwidth Sensor	Anritsu	MA2491A	31193	04/12/06	1 Year
12dB Attenuator	Narda	4779-12	203	08/06/06	1 Year
Antenna - Biconical	EMCO	3110	9108-1421	05/17/06	1 Year
Antenna - Log Periodic	EMCO	3148	4947	05/11/06	1 Year
LISN (EUT)	FCC	FCC-LISN-50-25-2	9931	02/06/06	1 Year
LISN (Access)	Com-Power	LI-200	12019	07/05/07	1 Year
LISN (Access)	Com-Power	LI-200	12018	07/05/07	1 Year

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6.0 SAMPLE CALCULATIONS

If a preamplifier is used during the Radiated Emissions Testing, it is required that the amplifier gain be subtracted from the Spectrum Analyzer (Meter) Reading. In addition, a correction factor for the antenna, cable and a distance factor, if any, must be applied to the Meter Reading before a true field strength reading can be obtained. In the Automatic Mode of A.R.M.S. measurements, these considerations are automatically presented as a part of the printout. In the case of manual measurements and for greater efficiency and convenience, usage of the calibration correction factors in the Appendices is necessary to calculate the Corrected Meter Reading. These correlation factors for each meter reading, shall be modified to reflect these correlation factors at each frequency value so that the meter readings can be compared directly to the modified specification limit. This modified specification limit is referred to as the “Corrected Meter Reading Limit” (CML).

The equation shall be derived in the following manner:

$$\text{Corrected Meter Reading} = \text{Meter Reading} + F + C - G - D$$

Where, F = Antenna Factor

C = Cable Factor

G = Amplifier Gain

D = Distance Factor

Therefore, the equation for determining the Corrected Meter Reading Limit (CML) is:

$$\text{CML} = \text{Specification Limit} - F - C + G + D$$

For the manual mode of measurement, a table of corrected meter reading limits shall be used to permit immediate comparison of the meter reading to determine if the measured emission amplitude exceeded the specification limit at that specific frequency. There shall be two calculation sheets done, one for three meter and one for ten-meter measurement distances, where applicable. The correction factors for the antenna and the amplifier gain are attached in the Appendices.



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6.0 Sample Calculations (Continued)

Peak Transmit Power Output:

A correction factor for the cable must be applied to the Conducted Power before a true power reading can be obtained. This is referred to as the “Corrected Power” (CP).

The equation shall be derived in the following manner:

$$\text{Corrected Power Reading} = \text{Conducted Power Reading} + C$$

Where, C = Cable Factor

The conducted power is taken in units of dBm. To obtain units of mW the following equation is used:

$$\text{mW} = 10^{(\text{dBm}/10)}$$



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7.0 MODIFICATIONS AND RECOMMENDATIONS

No modifications were made to the EUT.

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APPENDIX A

TEST DATA

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Sony IRX-3400
TEST DATA

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Spurious Radiated Emissions Test Results (Continued)

CLIENT:	Intel Corporation	DATE:	10/19/05
EUT:	Intel PRO/Wireless 3945ABG Network Connection	PROJECT NUMBER:	INTEL-051019
MODEL NUMBER:	WM3945ABG	TEST ENGINEER:	BM
SERIAL NUMBER:	00B11A295CVD26965002	SITE #:	2
CONFIGURATION:	Tested installed in the host computer's mini PCI slot in 802.11a (5150-5350 MHz) mode with the Sony IRX-3400 Antennas.	TEMPERATURE:	22 C
		HUMIDITY:	50% RH
		TIME:	3:15 PM

Standard:	FCC CFR 47, Part 15.407(b)(7)
Description:	The provisions of Sec. 15.205 apply to intentional radiators operating under this section.
Results:	Passes (See Data Sheets)

Unwanted Spurious Emissions Limits

Frequency (MHz)	Field Strength (uV/m)	Field Strength (dBuV/m) (Emissions in the restricted bands)	Field Strength (dBm/MHz) (Emissions outside the restricted bands)
Above 960	500	54.00 (Average) 74.00 (Peak)	EIRP < -27dBm/MHz (68.3dBuV/m)

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Spurious Radiated Emissions Test Results (Continued)

Fundamental Measurements in 802.11a mode (5150-5350 MHz)
Channels 36, 51, 52, & 64
Continuous TX at MAIN Antenna port with Sony IRX-3400 Antennas
Aegis Labs, Inc. File #: INTEL-051019-02

RADIATED EMISSIONS - Horizontal Antenna Polarization											
<i>Freq. (MHz)</i>	<i>Meter Reading (dBuV)</i>	<i>Antenna Height (cm)</i>	<i>Azimuth (degrees)</i>	<i>Quasi pk or AVG (dBuV)</i>		<i>Preamp Factor (dB)</i>	<i>Cable Factor (dB)</i>	<i>Ant. Factor (dB)</i>	<i>Corrected Reading (dBuV)</i>	<i>Limits (dBuV)</i>	<i>Diff (dB) +=FAIL</i>
5180.00	67.33	100	135				4.51	34.77	106.61		
5180.00				57.10	A		4.51	34.77	96.38		
5240.00	68.83	100	135				4.53	34.80	108.16		
5240.00				58.93	A		4.53	34.80	98.26		
5260.00	69.67	100	135				4.54	34.80	109.01		
5260.00				59.39	A		4.54	34.80	98.73		
5320.00	68.00	100	135				4.56	34.83	107.39		
5320.00				57.41	A		4.56	34.83	96.80		

RADIATED EMISSIONS – Vertical Antenna Polarization											
<i>Freq. (MHz)</i>	<i>Meter Reading (dBuV)</i>	<i>Antenna Height (cm)</i>	<i>Azimuth (degrees)</i>	<i>Quasi pk or AVG (dBuV)</i>		<i>Preamp Factor (dB)</i>	<i>Cable Factor (dB)</i>	<i>Ant. Factor (dB)</i>	<i>Corrected Reading (dBuV)</i>	<i>Limits (dBuV)</i>	<i>Diff (dB) +=FAIL</i>
5180.00	63.50	100	225				4.51	34.64	102.64		
5180.00				53.23	A		4.51	34.64	92.37		
5240.00	65.00	100	270				4.53	34.65	104.18		
5240.00				54.30	A		4.53	34.65	93.48		
5260.00	65.50	100	225				4.54	34.65	104.69		
5260.00				55.19	A		4.54	34.65	94.38		
5320.00	65.00	100	225				4.56	34.66	104.23		
5320.00				54.25	A		4.56	34.66	93.48		

NOTE: Fundamental signals measured to calculate the band edge field strengths using the “Marker Delta Method”.



Spurious Radiated Emissions Test Results (Continued)

Band Edge Field Strength Calculations in 802.11a mode (5150-5350 MHz)
Channels 36, 52, & 64
Continuous TX at MAIN Antenna port with Sony IRX-3400 Antennas
Aegis Labs, Inc. File #: INTEL-051019-02

RADIATED EMISSIONS - Horizontal Antenna Polarization										
Freq. (MHz)	Meter Reading (dBuV)	Antenna Height (cm)	Azimuth (degrees)	Quasi pk or AVG (dBuV)	Preamp Factor (dB)	Cable Factor (dB)	Ant. Factor (dB)	Corrected Reading (dBuV)	Limits (dBuV)	Diff (dB) +=FAIL
5150.00								60.95	74.00	-13.05
5150.00					A			45.72	54.00	-8.28
5350.00								63.56	74.00	-10.44
5350.00					A			49.64	54.00	-4.36
5353.00								66.56	74.00	-7.44
RADIATED EMISSIONS - Vertical Antenna Polarization										
Freq. (MHz)	Meter Reading (dBuV)	Antenna Height (cm)	Azimuth (degrees)	Quasi pk or AVG (dBuV)	Preamp Factor (dB)	Cable Factor (dB)	Ant. Factor (dB)	Corrected Reading (dBuV)	Limits (dBuV)	Diff (dB) +=FAIL
5150.00								56.98	74.00	-17.02
5150.00					A			41.71	54.00	-12.29
5350.00								60.40	74.00	-13.60
5350.00					A			46.32	54.00	-7.68
5353.00								63.40	74.00	-10.60

NOTE: The “Band Edge Field Strength” was calculated using the “Fundamental” and “Conducted Band Edge” measurements per the “Marker-Delta Method” with the following formula:

$$BE = Fm - \Delta m$$

Where

BE = Band Edge Field Strength

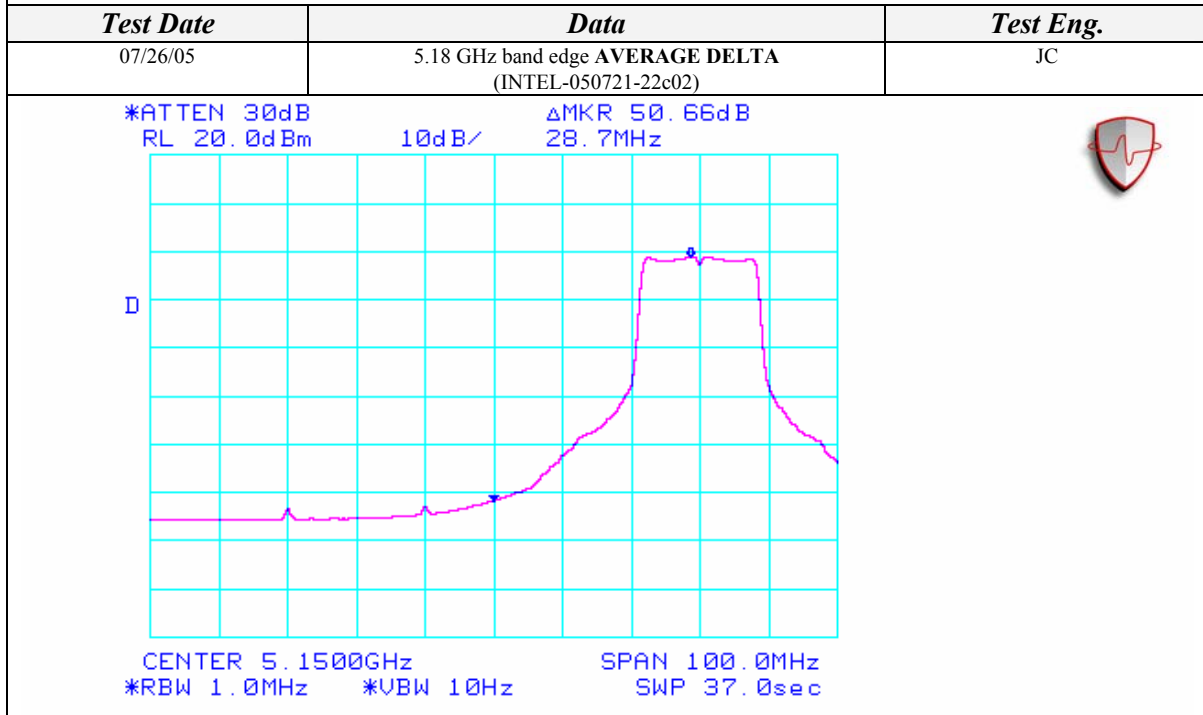
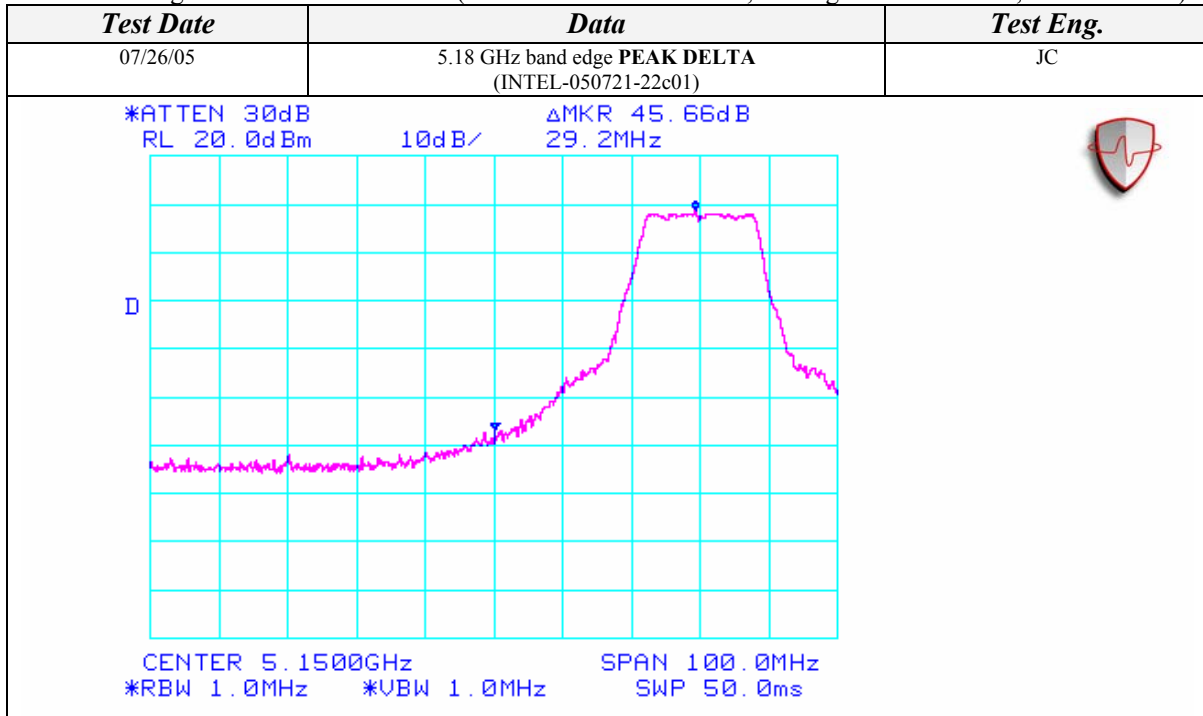
Fm = Measured Fundamental (Peak or Average)

Δm = Measured Conducted Band Edge Delta (Peak or Average)



Spurious Radiated Emissions Test Results (Continued)

Plots Showing Out-Of-Band Emissions (Peak RBW=VBW=1MHz; Average RBW = 1MHz, VBW = 10Hz)

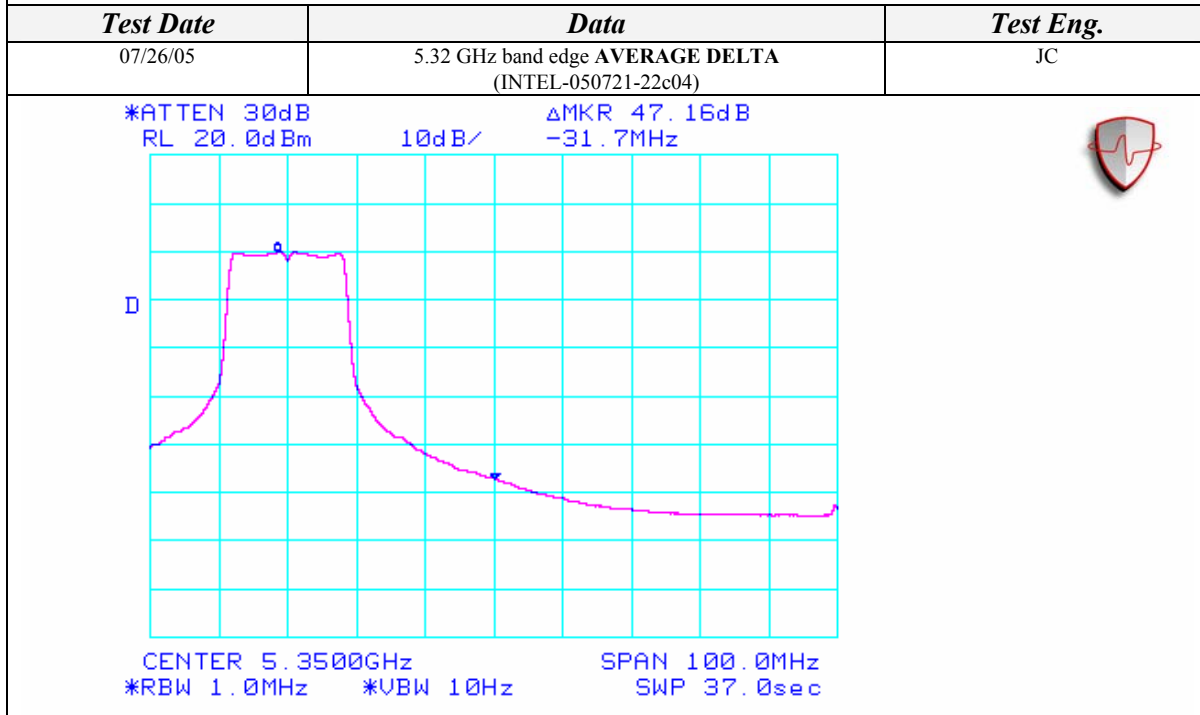
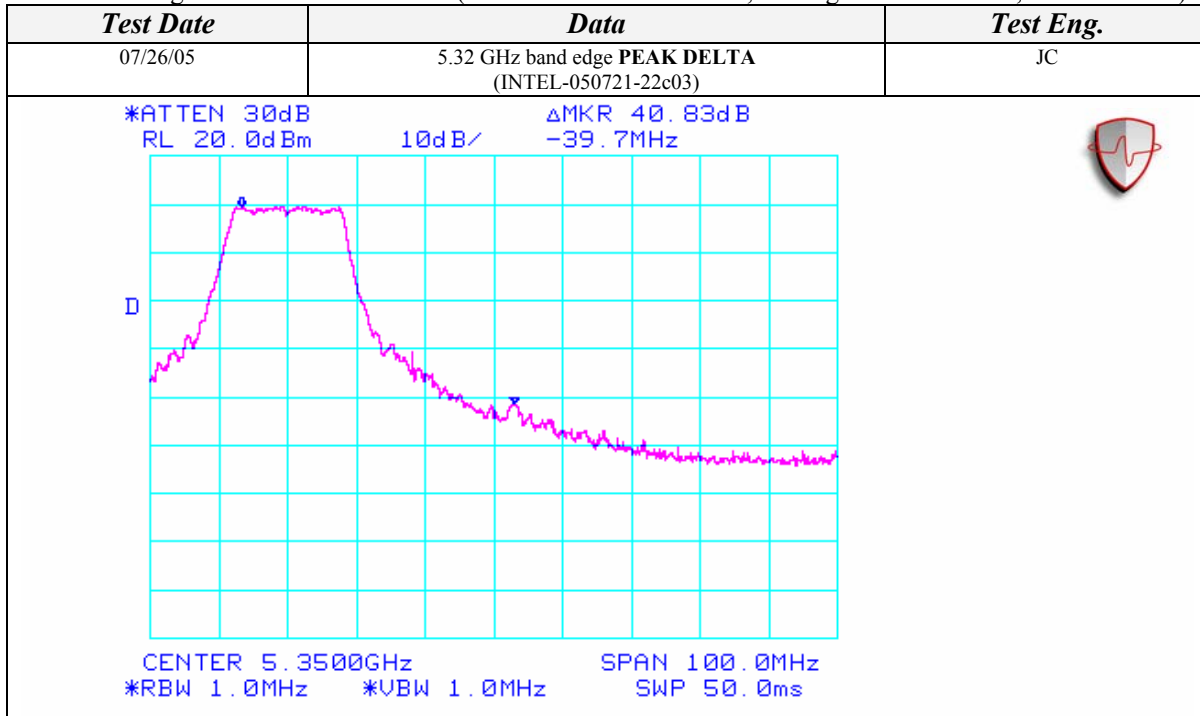




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Spurious Radiated Emissions Test Results (Continued)

Plots Showing Out-Of-Band Emissions (Peak RBW=VBW=1MHz; Average RBW = 1MHz, VBW = 10Hz)





Spurious Radiated Emissions Test Results (Continued)

*Spurious Emissions Measurements in 802.11a mode (5150-5350 MHz)
Channels 36, 52, & 64
Continuous TX at MAIN Antenna port with Sony IRX-3400 Antennas
Aegis Labs, Inc. File #: INTEL-051019-04*

RADIATED EMISSIONS - Horizontal Antenna Polarization											
<i>Freq. (MHz)</i>	<i>Meter Reading (dBuV)</i>	<i>Antenna Height (cm)</i>	<i>Azimuth (degrees)</i>	<i>Quasi pk or AVG (dBuV)</i>		<i>Preamp Factor (dB)</i>	<i>Cable Factor (dB)</i>	<i>Ant. Factor (dB)</i>	<i>Corrected Reading (dBuV)</i>	<i>Limits (dBuV)</i>	<i>Diff (dB) +=FAIL</i>
EUT in Continuous Transmit Mode on Channel 36 (5.18 GHz)											
3453.33	55.50	100	135			46.84	3.64	31.50	43.79	68.00	-24.21
10360.01	63.83	100	225			45.00	6.48	38.60	63.91	68.00	-4.09
15540.00	59.67	100	135			44.56	8.00	39.08	62.19	74.00	-11.81
15540.00				45.26	A	44.56	8.00	39.08	47.78	54.00	-6.22
EUT in Continuous Transmit Mode on Channel 52 (5.26 GHz)											
3506.66	54.83	100	135			46.85	3.66	31.62	43.26	68.00	-24.74
10520.00	61.50	100	225			45.05	6.55	38.61	61.61	68.00	-6.39
15780.00	62.83	100	180			44.54	8.08	38.93	65.30	74.00	-8.70
15780.00				49.39	A	44.54	8.08	38.93	51.86	54.00	-2.14
EUT in Continuous Transmit Mode on Channel 64 (5.32 GHz)											
3546.66	53.83	100	135			46.84	3.69	31.72	42.40	68.00	-25.60
10639.98	60.17	100	225			45.02	6.58	38.68	60.42	74.00	-13.58
10639.98				43.21	A	45.02	6.58	38.68	43.46	54.00	-10.54
15960.00	62.50	100	135			44.53	8.14	38.82	64.93	74.00	-9.07
15960.00				48.97	A	44.53	8.14	38.82	51.40	54.00	-2.60



Spurious Radiated Emissions Test Results (Continued)

RADIATED EMISSIONS - Vertical Antenna Polarization											
<i>Freq. (MHz)</i>	<i>Meter Reading (dBuV)</i>	<i>Antenna Height (cm)</i>	<i>Azimuth (degrees)</i>	<i>Quasi pk or AVG (dBuV)</i>		<i>Preamp Factor (dB)</i>	<i>Cable Factor (dB)</i>	<i>Ant. Factor (dB)</i>	<i>Corrected Reading (dBuV)</i>	<i>Limits (dBuV)</i>	<i>Diff (dB) +=FAIL</i>
EUT in Continuous Transmit Mode on Channel 36 (5.18 GHz)											
3453.33	55.50	100	180			46.84	3.64	31.52	43.81	68.00	-24.19
10360.02	58.33	100	225			45.00	6.48	38.80	58.61	68.00	-9.39
15540.00	58.00	100	225			44.56	8.00	39.09	60.54	74.00	-13.46
15540.00				43.15	A	44.56	8.00	39.09	45.69	54.00	-8.31
EUT in Continuous Transmit Mode on Channel 52 (5.26 GHz)											
3506.66	55.67	100	135			46.85	3.66	31.62	44.10	68.00	-23.90
10520.00	57.33	100	180			45.05	6.55	38.82	57.65	68.00	-10.35
15780.00	63.17	100	135			44.54	8.08	39.04	65.75	74.00	-8.25
15780.00				50.22	A	44.54	8.08	39.04	52.80	54.00	-1.20
EUT in Continuous Transmit Mode on Channel 64 (5.32 GHz)											
3546.66	55.67	100	180			46.84	3.69	31.72	44.24	68.00	-23.76
10639.98	55.83	100	225			45.02	6.58	38.91	56.30	74.00	-17.70
10639.98				42.12	A	45.02	6.58	38.91	42.59	54.00	-11.41
15960.00	64.83	100	135			44.53	8.14	39.01	67.44	74.00	-6.56
15960.00				50.44	A	44.53	8.14	39.01	53.05	54.00	-0.95



Spurious Radiated Emissions Test Results (Continued)

*Spurious Emissions Measurements in 802.11a mode (5150-5350 MHz)
Channels 36, 52, & 64
Continuous TX at MAIN Antenna port with Sony IRX-3400 Antennas
Aegis Labs, Inc. File #: INTEL-051019-05*

RADIATED EMISSIONS - Horizontal Antenna Polarization										
Freq. (MHz)	Meter Reading (dBuV)	Antenna Height (cm)	Azimuth (degrees)	Quasi pk or AVG (dBuV)	Cable Factor (dB)	Antenna/ Preamp Factor (dB)	Corrected Reading (dBuV/m)	Limits (dBuV/m)	Diff (dB) +=FAIL	
EUT in Continuous Transmit Mode on Channel 36 (5.18 GHz)										
20720.00	55.33	100	225			9.33	3.25	61.42	74.00	-12.58
20720.00				38.56	A	9.33	3.25	44.65	54.00	-9.35
EUT in Continuous Transmit Mode on Channel 52 (5.26 GHz)										
21040.00	55.83	100	225			9.40	3.23	62.00	74.00	-12.00
21040.00				41.62	A	9.40	3.23	47.79	54.00	-6.21
EUT in Continuous Transmit Mode on Channel 64 (5.32 GHz)										
21280.00	60.33	100	225			9.46	3.39	66.40	74.00	-7.60
21280.00				44.60	A	9.46	3.39	50.67	54.00	-3.33
RADIATED EMISSIONS - Vertical Antenna Polarization										
Freq. (MHz)	Meter Reading (dBuV)	Antenna Height (cm)	Azimuth (degrees)	Quasi pk or AVG (dBuV)	Cable Factor (dB)	Antenna/ Preamp Factor (dB)	Corrected Reading (dBuV/m)	Limits (dBuV/m)	Diff (dB) +=FAIL	
EUT in Continuous Transmit Mode on Channel 36 (5.18 GHz)										
20720.00	60.67	100	270			9.33	2.95	67.06	74.00	-6.94
20720.00				43.98	A	9.33	2.95	50.37	54.00	-3.63
EUT in Continuous Transmit Mode on Channel 52 (5.26 GHz)										
21040.00	61.50	100	270			9.40	2.95	67.95	74.00	-6.05
21040.00				45.91	A	9.40	2.95	52.36	54.00	-1.64
EUT in Continuous Transmit Mode on Channel 64 (5.32 GHz)										
21280.00	54.33	100	270			9.46	3.22	60.58	74.00	-13.42
21280.00				40.83	A	9.46	3.22	47.08	54.00	-6.92



Spurious Radiated Emissions Test Results (Continued)

*Spurious Emissions Measurements in 802.11a mode (5150-5350 MHz)
Channels 36, 52, & 64
Continuous RX at MAIN Antenna port with Sony IRX-3400 Antennas
Aegis Labs, Inc. File #: INTEL-051019-04*

RADIATED EMISSIONS - Horizontal Antenna Polarization											
<i>Freq. (MHz)</i>	<i>Meter Reading (dBuV)</i>	<i>Antenna Height (cm)</i>	<i>Azimuth (degrees)</i>	<i>Quasi pk or AVG (dBuV)</i>		<i>Preamp Factor (dB)</i>	<i>Cable Factor (dB)</i>	<i>Ant. Factor (dB)</i>	<i>Corrected Reading (dBuV)</i>	<i>Limits (dBuV)</i>	<i>Diff (dB) +=FAIL</i>
EUT in Continuous Transmit Mode on Channel 36 (5.18 GHz)											
3453.33	54.33	100	180			46.84	3.64	31.50	42.62	74.00	-31.38
3453.33				44.29	A	46.84	3.64	31.50	32.58	54.00	-21.42
EUT in Continuous Transmit Mode on Channel 52 (5.26 GHz)											
3506.66	54.50	100	135			46.85	3.66	31.62	42.93	74.00	-31.07
3506.66				44.13	A	46.85	3.66	31.62	32.56	54.00	-21.44
EUT in Continuous Transmit Mode on Channel 64 (5.32 GHz)											
3546.72	54.00	100	135			46.84	3.69	31.72	42.57	74.00	-31.43
3546.72				43.58	A	46.84	3.69	31.72	32.15	54.00	-21.85

RADIATED EMISSIONS - Vertical Antenna Polarization											
<i>Freq. (MHz)</i>	<i>Meter Reading (dBuV)</i>	<i>Antenna Height (cm)</i>	<i>Azimuth (degrees)</i>	<i>Quasi pk or AVG (dBuV)</i>		<i>Preamp Factor (dB)</i>	<i>Cable Factor (dB)</i>	<i>Ant. Factor (dB)</i>	<i>Corrected Reading (dBuV)</i>	<i>Limits (dBuV)</i>	<i>Diff (dB) +=FAIL</i>
EUT in Continuous Transmit Mode on Channel 36 (5.18 GHz)											
3453.33	55.50	100	180			46.84	3.64	31.52	43.81	74.00	-30.19
3453.33				45.24	A	46.84	3.64	31.52	33.55	54.00	-20.45
EUT in Continuous Transmit Mode on Channel 52 (5.26 GHz)											
3506.68	55.67	100	180			46.85	3.66	31.62	44.10	74.00	-29.90
3506.68				46.92	A	46.85	3.66	31.62	35.35	54.00	-18.65
EUT in Continuous Transmit Mode on Channel 64 (5.32 GHz)											
3546.66	55.33	100	180			46.84	3.69	31.72	43.90	74.00	-30.10
3546.66				46.92	A	46.84	3.69	31.72	35.49	54.00	-18.51



AEGIS LABS INC.

PEAK TRANSMIT POWER

CLIENT:	Intel Corporation	DATE:	10/19/05
EUT:	Intel PRO/Wireless 3945ABG Network Connection	PROJECT NUMBER:	INTEL-051019
MODEL NUMBER:	WM3945ABG	TEST ENGINEER:	BM
SERIAL NUMBER:	00B11A295CVD26965002	SITE #:	2
CONFIGURATION:	Tested installed in the Hewlett Packard host computer's mini PCI slot.	TEMPERATURE:	22 C
		HUMIDITY:	50% RH
		TIME:	2:30 PM

Standard:	FCC CFR 47, Part 15.407(a)(1) & 15.407(a)(2)
Description:	For the band 5.15-5.25 GHz, the peak transmit power over the frequency band of operation shall not exceed the lesser of 50 mW or 4 dBm + 10logB, where B is the 26-dB emission bandwidth in MHz. For the band 5.25-5.35 GHz, the peak transmit power over the frequency band of operation shall not exceed the lesser of 250 mW or 11 dBm + 10logB, where B is the 26-dB emission bandwidth in MHz.
Results:	See Data Sheet

Peak Transmit Power Limits		
Frequency (MHz)	Output Power (mW)	Output Power (Note 1)
5150-5250	50 (17 dBm)	4 dBm + 10logB = 17.68 dBm @ 5180 MHz
5250-5350	250 (24 dBm)	11 dBm + 10logB = 24.68 dBm @ 5260 MHz 11 dBm + 10logB = 25.04 dBm @ 5320 MHz

Note 1: Calculated using the 26-dB emissions bandwidth measurements.

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Report Number: INTEL-051020F
FCC ID: PD9WM3945ABG



Peak Transmit Power (Continued)

Mode	Channel	Frequency (MHz)	Rate (Mbps)	Average Power (dBm)	Average Power (mW)	Peak Power (dBm)	Peak Power (mW)
802.11a	36	5180	6	16.08	40.55	16.45	44.16
802.11a	51	5240	6	16.16	41.30	16.88	48.75
802.11a	52	5260	6	17.27	53.33	18.32	67.92
802.11a	64	5320	6	17.02	50.35	18.19	65.92

Note: Power was measured conducted.



AEGIS LABS INC.

CONDCUTED BAND EDGE EMISSIONS TEST RESULTS

CLIENT:	Intel Corporation	DATE:	10/19/05
EUT:	Intel PRO/Wireless 3945ABG Network Connection	PROJECT NUMBER:	INTEL-051019
MODEL NUMBER:	WM3945ABG	TEST ENGINEER:	BM
SERIAL NUMBER:	00B11A295CVD26965002	SITE #:	2
CONFIGURATION:	Tested installed in the host computer's mini PCI slot.	TEMPERATURE:	22 C
		HUMIDITY:	50% RH
		TIME:	3:15 PM

Standard:	FCC CFR 47, Part 15.407(b)(2)
Description:	For transmitters operating in the 5.25-5.35 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz. Devices operating in the 5.25-5.35 GHz band that generate emissions in the 5.15-5.25 GHz band must meet all applicable technical requirements for operation in the 5.15-5.25 GHz band (including indoor use) or alternatively meet an out-of-band emission EIRP limit of -27 dBm/MHz in the 5.15-5.25 GHz band.
Results:	Passes (See Data Sheets)

Unwanted Spurious Emissions Limits	
Frequency (MHz)	Field Strength (dBm/MHz) (Emissions outside the restricted bands)
5250-5350	EIRP < -27dBm/MHz (68.3dBuV/m)

<i>Freq. (MHz)</i>	<i>Power Spec Den. Reading (dBm/MHz)</i>	<i>Antenna Gain (dBi)</i>	<i>Corrected Reading (dBm/MHz)</i>	<i>Limits (dBm/MHz)</i>	<i>Diff (dB) +=FAIL</i>	<i>Comments</i>
With Sony IRX-3400 Antenna Gain at 5 GHz						
5250.00	-54.70	1.80	-52.90	-27.00	-25.90	Tx @ 5240 MHz
5250.00	-54.00	1.80	-52.20	-27.00	-25.20	Tx @ 5260 MHz

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 Report Number: INTEL-051020F
 FCC ID: PD9WM3945ABG

