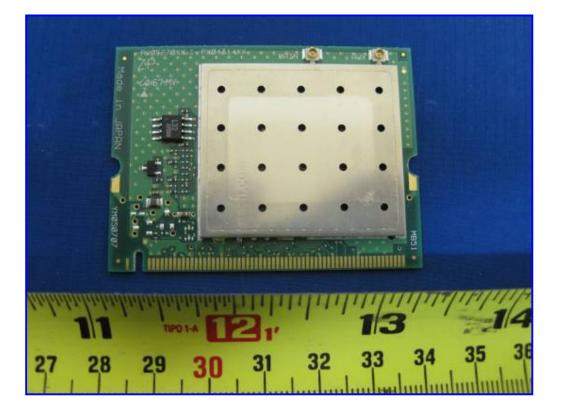
AVERY DENNISON RETAIL INFORMATION SERVICES LLC

HOST PRINTER MODEL: 9493, 9460, 9433 WITH WIRELESS 802.11B/G MODULE

Model: 128921

30 October 2009 Report No.: SL09051203-PAX-002-E (FCC 15.247) (This report supersedes NONE)



Modifications made to the product : None

| This Test Report is Issued Under the Authority | / of: |
|--|---------------------------|
| floreni | Bui |
| Dan Coronia | Leslie Bai |
| Compliance Engineer | Director of Certification |

FCC Part 15.247 & RSS 210 Issue Ö



This test report may be reproduced in full only. All Test Data Presented in this report is only applicable to presented Test sample.



Title

Accessing global markets RF Test Report of Avery Dennison Retail Information Services LL Model : 128921 FCC 15.247 2008 & RSS-210 Issue 7 : 2007

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Laboratory Introduction

SIEMIC, headquartered in the heart of Silicon Valley, with superior facilities in US and Asia, is one of the leading independent testing and certification facilities providing customers with one-stop shop services for Compliance Testing and Global Certifications.



In addition to <u>testing</u> and <u>certification</u>, SIEMIC provides initial design reviews and <u>compliance</u> <u>management</u> through out a project. Our extensive experience with <u>China</u>, <u>Asia Pacific</u>, <u>North America</u>, <u>European</u>, <u>and international</u> compliance requirements, assures the fastest, most cost effective way to attain regulatory compliance for the <u>global markets</u>.

| Country/Region | Accreditation Body | Scope | | |
|----------------|---|-------------------------------|--|--|
| USA | FCC, A2LA | EMC , RF/Wireless , Telecom | | |
| Canada | IC, A2LA, NIST | EMC, RF/Wireless , Telecom | | |
| Taiwan | BSMI , NCC , NIST | EMC, RF, Telecom , Safety | | |
| Hong Kong | OFTA , NIST | RF/Wireless , Telecom | | |
| Australia | NATA, NIST | EMC, RF, Telecom , Safety | | |
| Korea | KCC/RRA, NIST | EMI, EMS, RF, Telecom, Safety | | |
| Japan | VCCI, JATE, TELEC, RFT | EMI, RF/Wireless, Telecom | | |
| Mexico | NOM, COFETEL, Caniety Safety, EMC , RF/Wireless, Teleco | | | |
| Europe | A2LA, NIST | EMC, RF, Telecom , Safety | | |

Accreditations for Conformity Assessment

Accreditations for Product Certifications

| Country | Accreditation Body | Scope |
|-----------|--------------------|--------------------|
| USA | FCC TCB, NIST | EMC , RF , Telecom |
| Canada | IC FCB , NIST | EMC , RF , Telecom |
| Singapore | iDA, NIST | EMC , RF , Telecom |



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1 Executive Summary & EUT information

The purpose of this test programmed was to demonstrate compliance of the Avery Dennison Retail Information Services LLC Model: 128921 against the current Stipulated Standards. The Host Printer Model: 9493, 9460, 9433 with Wireless 802.11b/g Module have demonstrated compliance with the FCC 15.247 2008 & RSS-210 Issue 7 : 2007.

Avery Dennison Retail Information Services LLC is the applicant and claimed manufacturer of this tested product. For the detailed description of this product, please refer to the Host Printer Model: 9493, 9460, 9433 with Wireless 802.11b/g Module User Manual submitted as another Exhibit to this application.

The equipment under test radio operating frequency is 2412 MHz – 2462 MHz.

The test has demonstrated that this unit complies with stipulated standards.

EUT Information EUT Avery Dennison Retail Information Services LLC will use the 128921 radio module within Avery Description Host Printer Model: 9493, 9460, 9433 with Wireless 802.11b/g Module. The radio will be installed inside the product and will not be user accessible. The antenna is an internal antenna and will not be user accessible. 802.11b/g radios are designed to operate in the international ISM Band from 2.412 to 2.462 GHz. The Host Printer Model: 9493, 9460, 9433 with Wireless 802.11b/g Module contains an 802.11b/g print server (radio), which lets you communicate with your printer on a wired Ethernet 802.3 network (9493 printer only), or on an 802.11b or 802.11g wireless network. : Model No 128921 : Serial No N/A Input: 100-240VAC; 50-60Hz; 550mA (9493) Output: 16.5VDC; 1.4A Battery: 14.8V Input Power Input: 100-240VAC; 47-63Hz; 1.4A (9460/9433) Output: 8.0V; 5A Battery: 7.4V; 1.6AH Classification Spread Spectrum System / Device Per Stipulated **Test Standard**



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2 TECHNICAL DETAILS

| Purpose | Compliance testing of 802.11b/g radio module model 128921 with stipulated standard |
|---------------------------------|--|
| Applicant / Client | Avery Dennison Retail Information Services LLC |
| Manufacturer | Avery Dennison Retail Information Services LLC 170 Monarch Lane Miamisburg, OH 45342 USA |
| Laboratory performing the tests | SIEMIC Laboratories |
| Test report reference number | SL09051203-PAX-002-E (FCC 15.247) |
| Date EUT received | 23 September 2009 |
| Standard applied | See Page 9 |
| Dates of test (from – to) | 19 - 21 October 2009 |
| No of Units: | 3 |
| Equipment Category: | DTS |
| Trade Name: | Monarch |
| Model Name: | 128921 |
| RF Operating Frequency (ies) | 2412-2462MHz |
| Number of Channels: | 11 |
| Modulation: | CCK & OFDM |
| FCC ID: | GU6-SX10WGPM |
| IC ID: | 1502A-SX10WGPM |



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3 MODIFICATION

NONE



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4 TEST SUMMARY

The product was tested in accordance with the following specifications. All testing has been performed according to below product classification:

Spread Spectrum System / Device

| Test Results | Summary |
|--------------|---------|
|--------------|---------|

| Test Standard | | Description | Pass / Fail | |
|--------------------------|-----------------------|----------------------------------|-------------|--|
| CFR 47 Part 15.247: 2008 | RSS 210 Issue 7: 2007 | | | |
| 15.203 | | Antenna Requirement | Pass | |
| 15.205 | RSS210(A8.5) | Restricted Band of Operation | Pass | |
| 15.207(a) | RSSGen(7.2.2) | Conducted Emissions Voltage | Pass | |
| 15.247(a)(1) | RSS210(A8.1) | Channel Separation | N/A | |
| 15.247(a)(1) | RSS210(A8.1) | Occupied Bandwidth | Pass | |
| 15.247(a)(2) | RSS210 (A8.2) | Bandwidth | Pass | |
| 15.247(a)(1) | RSS210(A8.1) | Number of Hopping Channels | N/A | |
| 15.247(a)(1) | RSS210(A8.1) | Time of Occupancy | N/A | |
| 15.247(b) | RSS210(A8.4) | Output Power | Pass | |
| 15.247(c) | RSS210(A8.4) | Antenna Gain > 6 dBi | Pass | |
| 15.247(d) | RSS210(A8.5) | Conducted Spurious Emissions | Pass | |
| 15.209; 15.247(d) | RSS210(A8.5) | Radiated Spurious Emissions | Pass | |
| 15.247(e) | RSS210(A8.3) | Power Spectral Density | Pass | |
| 15.247(f) | RSS210(A8.3) | Hybrid System Requirement | N/A | |
| 15.247(g) | RSS210(A8.1) | Hopping Capability | N/A | |
| 15.247(h) | RSS210(A8.1) | Hopping Coordination Requirement | N/A | |
| 15.247(i) | RSSGen(5.5) | RF Exposure requirement | Pass | |
| | RSSGen(4.8) | Receiver Spurious Emissions | Pass | |

ANSI C63.4: 2003/ RSS-Gen Issue 2: 2007

PS: All measurement uncertainties are not taken into consideration for all presented test result.



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5 MEASUREMENTS, EXAMINATION AND DERIVED RESULTS

5.1 Antenna Requirement

Title

То

Requirement(s): 47 CFR §15.203

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

Antenna requirement must meet at least one of the following:

- a) Antenna must be permanently attached to the device.
- b) Antenna must use a unique type of connector to attach to the device.
- c) Device must be professionally installed. Installer shall be responsible for ensuring that the correct antenna is employed with the device.

The antenna connector is SMT type. Antenna maximum gain is 2.8dBi for 2.400–2.500 GHz band.

Results: PASS

5.2 Conducted Emissions Voltage

Title

То

| | Conducted lin | Conducted limit (dBµV) | | | |
|-----------------------------|---------------|------------------------|--|--|--|
| Frequency of emission (MHz) | Quasi-peak | Average | | | |
| 0.15–0.5 | 66 to 56* | 56 to 46* | | | |
| 0.5–5 | 56 | 46 | | | |
| 5–30 | 60 | 50 | | | |

Requirement:

*Decreases with the logarithm of the frequency.

Procedures:

- 1. All possible modes of operation were investigated. Only the 6 worst case emissions measured, using the correct CISPR and Average detectors, are reported. All other emissions were relatively insignificant.
- 2. A "-ve" margin indicates a PASS as it refers to the margin present below the limit line at the particular frequency.
- Conducted Emissions Measurement Uncertainty All test measurements carried out are traceable to national standards. The uncertainty of the measurement at a confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2, in the range 9kHz – 30MHz (Average & Quasi-peak) is ±3.5dB.

| 4. | Environmental Conditions | Temperature | 23°C |
|----|------------------------------|----------------------|----------|
| | | Relative Humidity | 50% |
| | | Atmospheric Pressure | 1019mbar |
| | Test Date : October 19 to 21 | 2009 | |
| | Tested By :Dan Coronia | | |

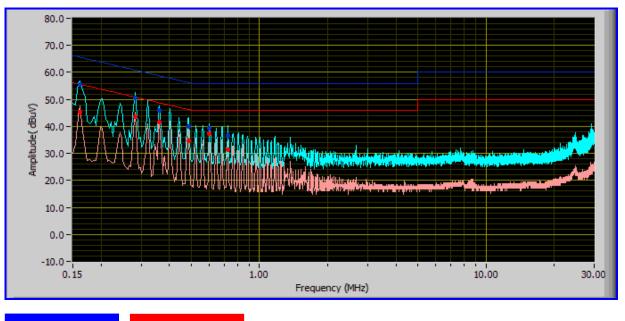
Results: Pass

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Host: 9493



Quasi-Peak Limit

Average Limit

Phase Line Plot at 120Vac, 60Hz

| Frequency (MHz) | QP Value (dBµV) | Class B Limit (dB) | Pass / Fail | Margin (dB) | Avg Value (dBµV) | Class B Limit (dB) | Pass / Fail | Margin (dB) | Line |
|--------------------|-----------------------|--------------------------|-------------------|----------------|------------------------|--------------------------|-------------------|----------------|-------|
| 0.28 | 50.54 | 60.85 | PASS | -10.31 | 43.64 | 50.85 | PASS | -7.21 | Phase |
| 0.16 | 55.39 | 65.54 | PASS | -10.15 | 45.10 | 55.54 | PASS | -10.44 | Phase |
| 0.36 | 45.97 | 58.73 | PASS | -12.76 | 41.69 | 48.73 | PASS | -7.04 | Phase |
| 0.49 | 39.90 | 56.24 | PASS | -16.34 | 34.83 | 46.24 | PASS | -11.41 | Phase |
| 0.60 | 39.46 | 56.00 | PASS | -16.54 | 37.17 | 46.00 | PASS | -8.83 | Phase |
| 0.73 | 36.50 | 56.00 | PASS | -19.50 | 31.41 | 46.00 | PASS | -14.59 | Phase |

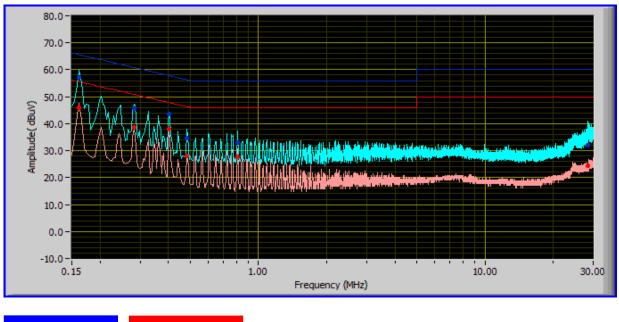


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Quasi-Peak Limit

Average Limit

| Frequency (MHz) | QP Value (dBµV) | Class B Limit (dB) | Pass / Fail | Margin (dB) | Avg Value (dBµV) | Class B Limit (dB) | Pass / Fail | Margin (dB) | Line |
|--------------------|-----------------------|--------------------------|-------------------|----------------|------------------------|--------------------------|-------------------|----------------|---------|
| 0.16 | 57.04 | 65.54 | PASS | -8.49 | 45.95 | 55.54 | PASS | -9.59 | Neutral |
| 0.28 | 45.66 | 60.85 | PASS | -15.18 | 38.52 | 50.85 | PASS | -12.32 | Neutral |
| 0.40 | 43.49 | 57.84 | PASS | -14.36 | 37.85 | 47.84 | PASS | -10.00 | Neutral |
| 0.48 | 34.78 | 56.31 | PASS | -21.52 | 28.10 | 46.31 | PASS | -18.20 | Neutral |
| 0.81 | 33.02 | 56.00 | PASS | -22.98 | 27.65 | 46.00 | PASS | -18.35 | Neutral |
| 28.54 | 31.93 | 60.00 | PASS | -28.07 | 24.29 | 50.00 | PASS | -25.71 | Neutral |

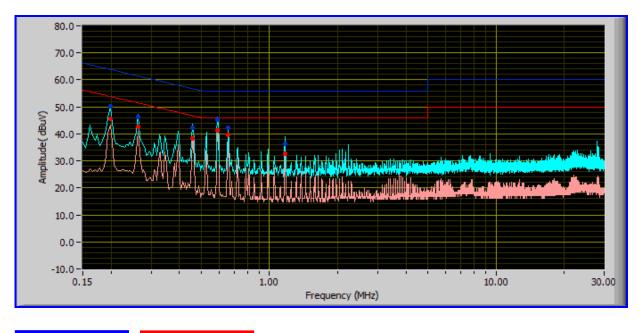
Neutral Line Plot at 120Vac, 60Hz

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Host: 9460



Quasi-Peak Limit

Average Limit

| Frequency (MHz) | QP Value (dBµV) | Class B Limit (dB) | Pass / Fail | Margin (dB) | Avg Value (dBµV) | Class B Limit (dB) | Pass / Fail | Margin (dB) | Line |
|--------------------|-----------------------|--------------------------|-------------------|----------------|------------------------|--------------------------|-------------------|----------------|-------|
| 0.59 | 45.40 | 56.00 | PASS | -10.60 | 41.26 | 46.00 | PASS | -4.74 | Phase |
| 0.46 | 42.25 | 56.74 | PASS | -14.49 | 38.19 | 46.74 | PASS | -8.54 | Phase |
| 0.66 | 42.34 | 56.00 | PASS | -13.66 | 39.76 | 46.00 | PASS | -6.24 | Phase |
| 0.20 | 50.32 | 63.84 | PASS | -13.52 | 45.73 | 53.84 | PASS | -8.11 | Phase |
| 0.26 | 46.37 | 61.47 | PASS | -15.10 | 42.66 | 51.47 | PASS | -8.81 | Phase |
| 1.17 | 36.44 | 56.00 | PASS | -19.56 | 32.60 | 46.00 | PASS | -13.40 | Phase |

Phase Line Plot at 120Vac, 60Hz

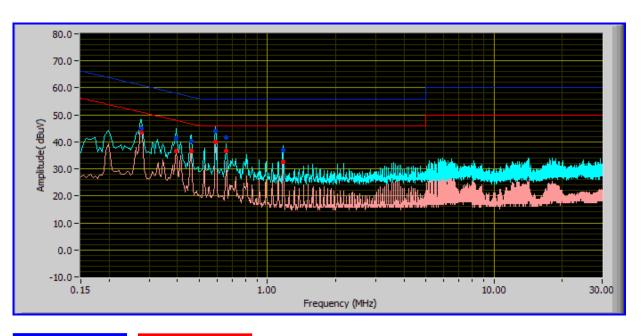
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Quasi-Peak Limit

Average Limit

| Frequency (MHz) | QP Value (dBµV) | Class B Limit (dB) | Pass / Fail | Margin (dB) | Avg Value (dBµV) | Class B Limit (dB) | Pass / Fail | Margin (dB) | Line |
|--------------------|-----------------------|--------------------------|-------------------|----------------|------------------------|--------------------------|-------------------|----------------|---------|
| 0.59 | 44.03 | 56.00 | PASS | -11.97 | 39.81 | 46.00 | PASS | -6.19 | Neutral |
| 0.28 | 44.88 | 60.97 | PASS | -16.09 | 43.49 | 50.97 | PASS | -7.48 | Neutral |
| 0.39 | 41.24 | 58.01 | PASS | -16.77 | 36.65 | 48.01 | PASS | -11.36 | Neutral |
| 0.46 | 40.42 | 56.67 | PASS | -16.25 | 36.50 | 46.67 | PASS | -10.16 | Neutral |
| 0.66 | 41.56 | 56.00 | PASS | -14.44 | 36.57 | 46.00 | PASS | -9.43 | Neutral |
| 1.17 | 36.96 | 56.00 | PASS | -19.04 | 32.82 | 46.00 | PASS | -13.18 | Neutral |

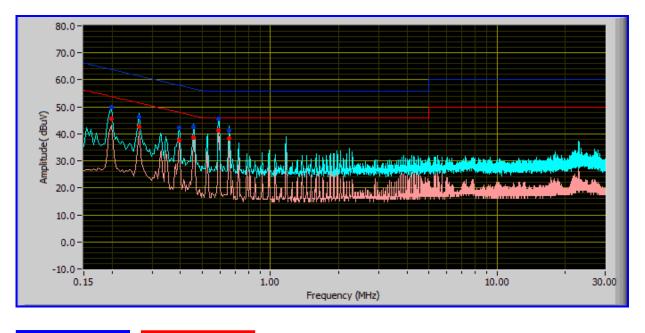
Neutral Line Plot at 120Vac, 60Hz

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Host: 9433



Quasi-Peak Limit

Average Limit

| Frequency (MHz) | QP Value (dBµV) | Class B Limit (dB) | Pass / Fail | Margin (dB) | Avg Value (dBµV) | Class B Limit (dB) | Pass / Fail | Margin (dB) | Line |
|--------------------|-----------------------|--------------------------|-------------------|----------------|------------------------|--------------------------|-------------------|----------------|-------|
| 0.59 | 45.47 | 56.00 | PASS | -10.53 | 41.16 | 46.00 | PASS | -4.84 | Phase |
| 0.46 | 42.56 | 56.74 | PASS | -14.18 | 38.75 | 46.74 | PASS | -7.99 | Phase |
| 0.66 | 41.22 | 56.00 | PASS | -14.78 | 38.23 | 46.00 | PASS | -7.77 | Phase |
| 0.20 | 50.05 | 63.84 | PASS | -13.79 | 45.58 | 53.84 | PASS | -8.26 | Phase |
| 0.26 | 46.34 | 61.47 | PASS | -15.13 | 42.66 | 51.47 | PASS | -8.81 | Phase |
| 0.39 | 42.12 | 58.01 | PASS | -15.89 | 37.49 | 48.01 | PASS | -10.53 | Phase |

Phase Line Plot at 120Vac, 60Hz

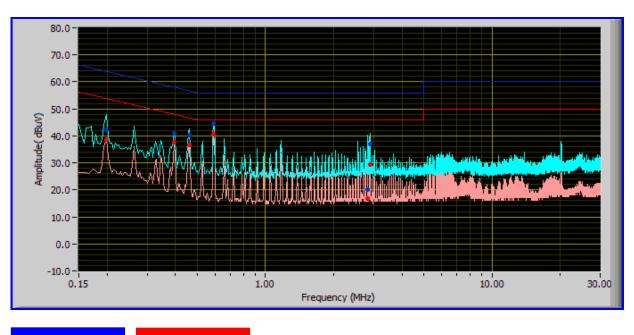
Title: То

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Quasi-Peak Limit

Average Limit

| Frequency (MHz) | QP Value (dBµV) | Class B Limit (dB) | Pass / Fail | Margin (dB) | Avg Value (dBµV) | Class B Limit (dB) | Pass / Fail | Margin (dB) | Line |
|--------------------|-----------------------|--------------------------|-------------------|----------------|------------------------|--------------------------|-------------------|----------------|---------|
| 0.59 | 44.53 | 56.00 | PASS | -11.47 | 40.78 | 46.00 | PASS | -5.22 | Neutral |
| 0.46 | 40.25 | 56.67 | PASS | -16.41 | 36.59 | 46.67 | PASS | -10.08 | Neutral |
| 2.89 | 36.87 | 56.00 | PASS | -19.13 | 29.37 | 46.00 | PASS | -16.63 | Neutral |
| 2.82 | 20.22 | 56.00 | PASS | -35.78 | 16.70 | 46.00 | PASS | -29.30 | Neutral |
| 0.20 | 42.22 | 63.84 | PASS | -21.61 | 38.57 | 53.84 | PASS | -15.27 | Neutral |
| 0.39 | 41.09 | 58.01 | PASS | -16.92 | 37.77 | 48.01 | PASS | -10.24 | Neutral |

Neutral Line Plot at 120Vac, 60Hz

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5.3 6dB & 99% Occupied Bandwidth

Title

То

1. Conducted Measurement EUT was set for low , mid, high channel with modulated mode and highest RF output power. The spectrum analyzer was connected to the antenna terminal. 23°C 2 **Environmental Conditions** Temperature **Relative Humidity** 50% Atmospheric Pressure 1019mbar 3 Conducted Emissions Measurement Uncertainty All test measurements carried out are traceable to national standards. The uncertainty of the measurement at a confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2, in the range 30MHz - 40GHz is ±1.5dB. 4 Test Date : October 19 to 21 2009 Tested By :Dan Coronia

Requirement(s): 47 CFR §15.247(a)(1)

Procedures: The 6dB bandwidths were measured conducted using a spectrum analyzer at low, mid, and hi channels. 6 dB Bandwidth Limit: > 500 kHz.

| Protocol | Channel | Channel Frequency (MHz) | 6 dB Channel Bandwidth (MHz) | 99% Channel Bandwidth (MHz) | 6 dB Occupied Bandwidth Limit (MHz) |
|----------|---------|-------------------------------|------------------------------------|-----------------------------------|---|
| 802.11b | Low | 2412 | 12.25 | 15.17 | 0.5 |
| 802.11b | Mid | 2437 | 12.25 | 15.33 | 0.5 |
| 802.11b | High | 2462 | 12.17 | 15.25 | 0.5 |
| 802.11g | Low | 2412 | 16.83 | 16.60 | 0.5 |
| 802.11g | Mid | 2437 | 16.83 | 16.60 | 0.5 |
| 802.11g | High | 2462 | 16.75 | 16.53 | 0.5 |

Results: Pass

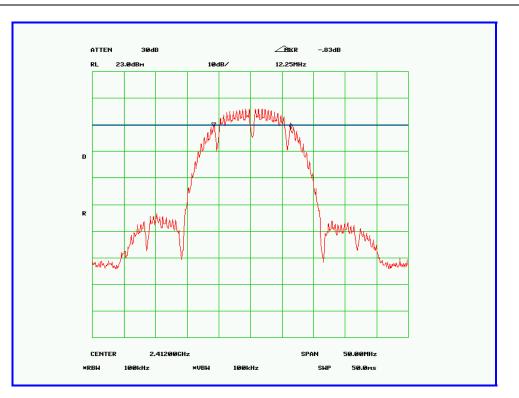
Refer to the attached plots.

Title:

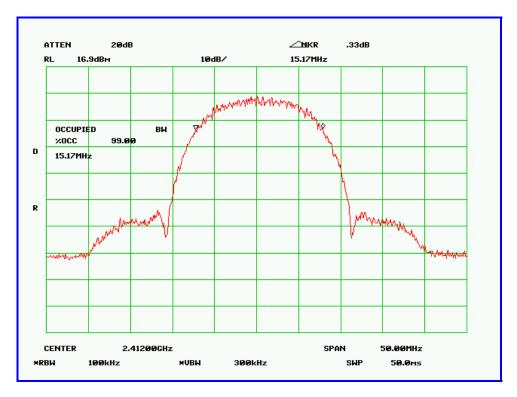
То

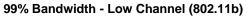
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6 dB Bandwidth - Low Channel (802.11b)



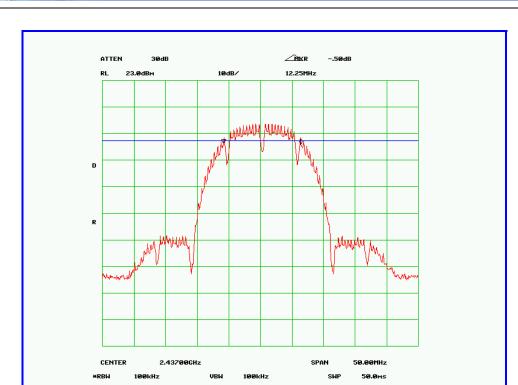


Title:

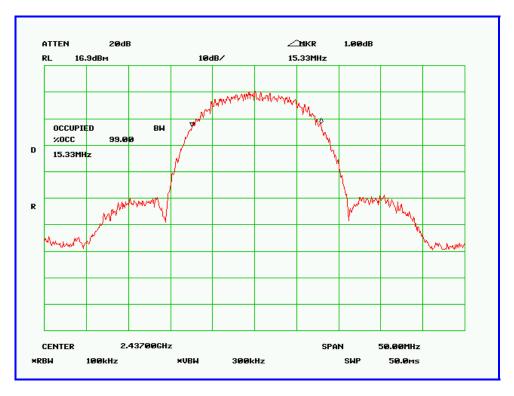
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6 dB Bandwidth - Mid Channel (802.11b)





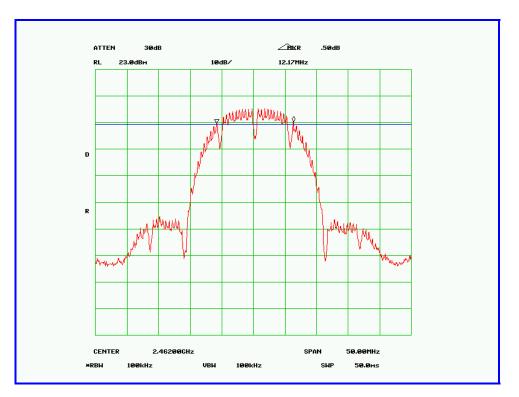
Title:

То

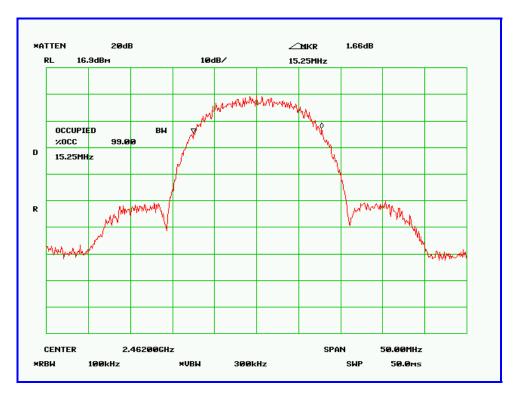
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6 dB Bandwidth – High Channel (802.11b)



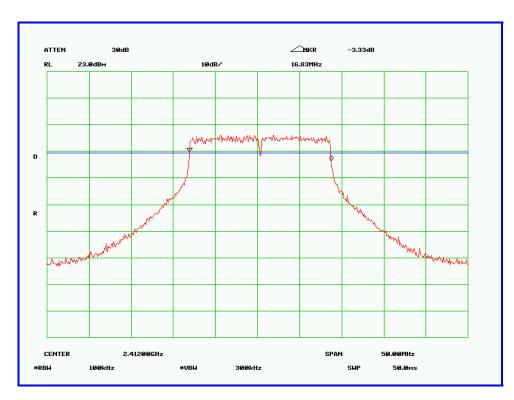
99% Bandwidth - High Channel (802.11b)

Title:

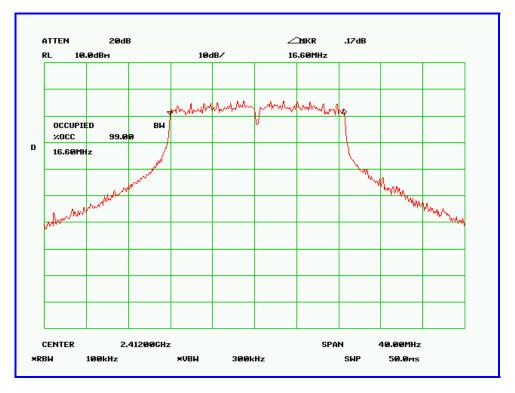
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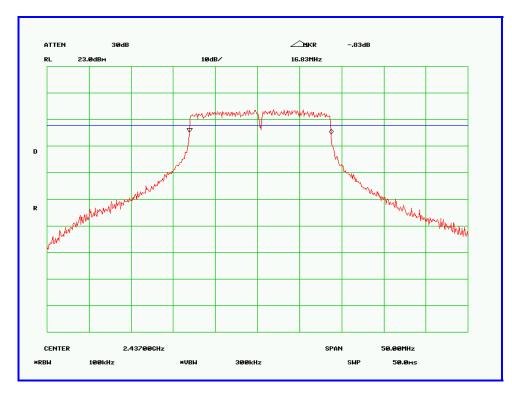
6 dB Bandwidth - Low Channel (802.11g)



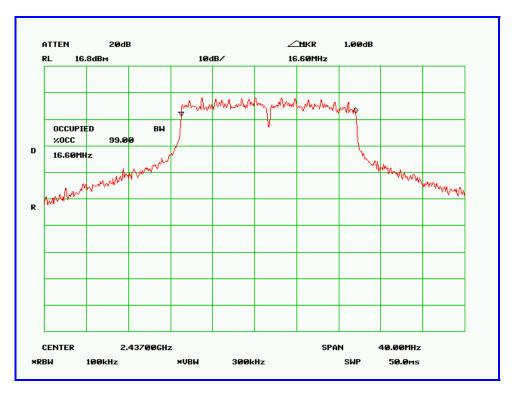
99% Bandwidth - Low Channel (802.11g)

Title: То

RF Test Report of Avery Dennison Retail Information Services LLC Model : 128921 FCC 15.247 2008 & RSS-210 Issue 7 : 2007



6 dB Bandwidth – Mid Channel (802.11g)





Title: То

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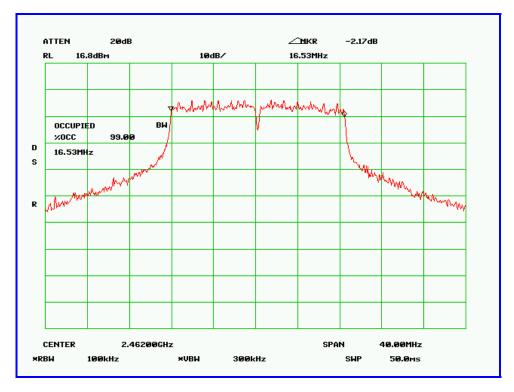
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ATTEN -1.50dB 30dB 16.75MHz RL 23.0dBm 10dB/ mannewann mann mm D R Nerry Wh my My May CENTER 2.46200CHz SPAN 50.00MHz ×RB₩ 100kHz ×VBW 300kHz SMP 50.0ms

6dB Bandwidth - High Channel (802.11g)





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5.4 Peak Spectral Density

1. Conducted Measurement EUT was set for low , mid, high channel with modulated mode and highest RF output power. The spectrum analyzer was connected to the antenna terminal. Conducted Emissions Measurement Uncertainty 2 All test measurements carried out are traceable to national standards. The uncertainty of the measurement at a confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2, in the range 30MHz - 40GHz is ±1.5dB. **Environmental Conditions** 3 Temperature 23°C **Relative Humidity** 50% Atmospheric Pressure 1019mbar Test Date : October 19 to 21 2009 4 Tested By :Dan Coronia

Standard Requirement: 47 CFR §15.247(e)

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission

Procedures: The Peak Spectral density measurement was taken conducted using a spectrum analyzer.

RBW=3KHz, VBW > RBW, Sweep time to SPAN/RBW (sec)

| Protocol | Channel | Channel Frequency (MHz) | Peak Spectral Density Limit (dBm/3KHz) | Peak Spectral Density (dBm/3KHz) |
|----------|---------|-------------------------------|--|--|
| 802.11b | Low | 2412 | 8 | -4.83 |
| 802.11b | Mid | 2437 | 8 | -7.33 |
| 802.11b | High | 2462 | 8 | -8.00 |
| 802.11g | Low | 2412 | 8 | -4.67 |
| 802.11g | Mid | 2437 | 8 | -6.83 |
| 802.11g | High | 2462 | 8 | -12.83 |

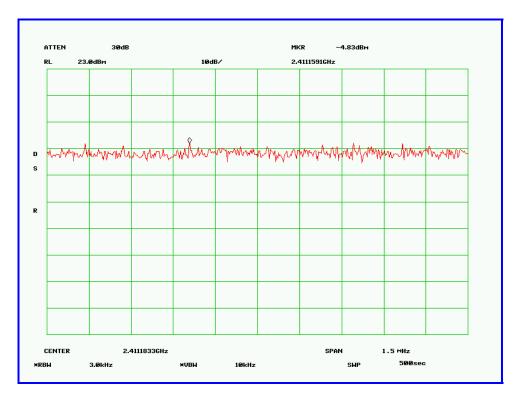
Test Result: Pass

Refer to the attached plots.

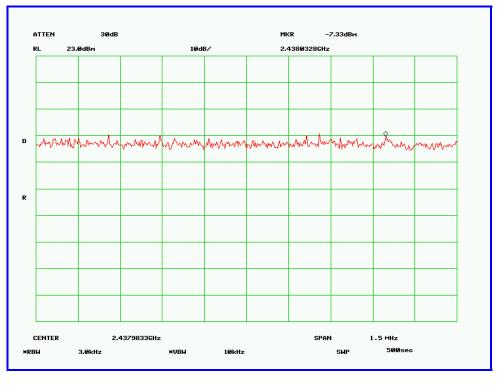
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PSD Low Channel (802.11b)



PSD Mid Channel (802.11b)

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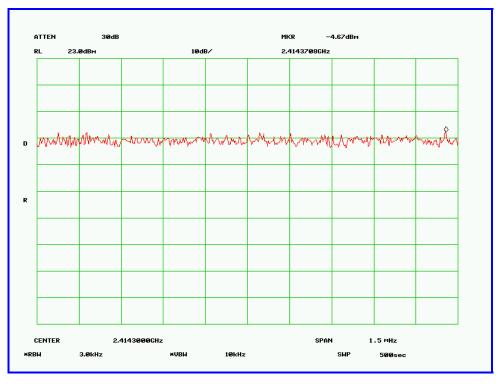
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ATTEN 30dB MKR -8.00dBm RL 23.0dBm 10dB/ 2.4614963GHz D how many many war and many many many and www. mmmmmmmmmm s R CENTER 2.4614250GHz SPAN 1.5 MHz ×RBW 3.0kHz ×VBM 10kHz SMP 500sec

PSD High Channel (802.11b)



PSD Low Channel (802.11g)

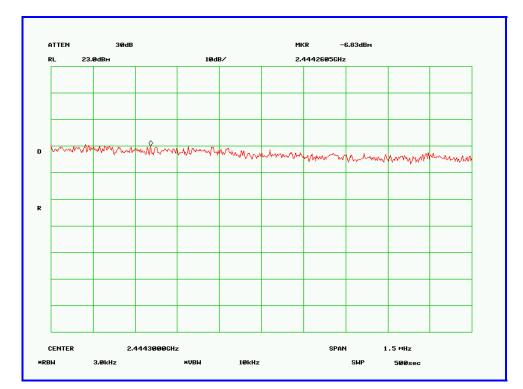
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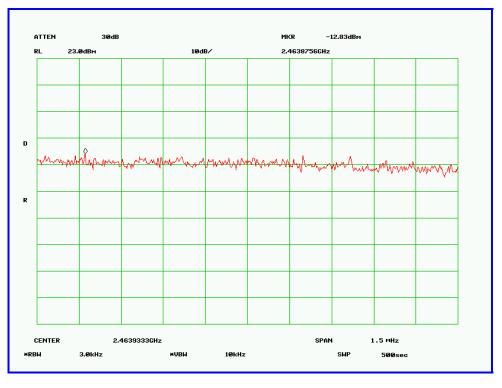
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PSD Mid Channel (802.11g)



PSD High Channel (802.11g)

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5.10 Peak Output Power

Title

- Conducted Measurement EUT was set for low, mid, high channel with modulated mode and highest RF output power. The spectrum analyzer was connected to the antenna terminal.
 Conducted Emissions Measurement Uncertainty All test measurements carried out are traceable to national standards. The uncertainty of the measurement at a confidence level of approximately 95% (in the case where distributions are
- normal), with a coverage factor of 2, in the range 30MHz 40GHz is ±1.5dB.
 Environmental Conditions Temperature 23°C Relative Humidity 50% Atmospheric Pressure 1019mbar
 Test Date : October 19 to 21 2009 Tested By :Dan Coronia

Standard Requirement : 47 CFR §15.247(b)

Procedures: The peak output power was measured conducted using a spectrum analyzer at low, mid, and hi channels. Peak detector was set to measure the power output. The power is converted from watt to dBm, therefore, 1 watt = 30 dBm. The highest antenna gain that will be used is 3 dBi.

| Protocol | Channel | Channel Frequency (MHz) | Peak Output Power Limit (dBm) | Measured Output Power(dBm) |
|----------|---------|-------------------------------|--|----------------------------------|
| 802.11b | Low | 2412 | 30 | 15.4 |
| 802.11b | Mid | 2437 | 30 | 16.7 |
| 802.11b | High | 2462 | 30 | 16.9 |
| 802.11g | Low | 2412 | 30 | 13.2 |
| 802.11g | Mid | 2437 | 30 | 17.2 |
| 802.11g | High | 2462 | 30 | 14.6 |

Test Result: Pass

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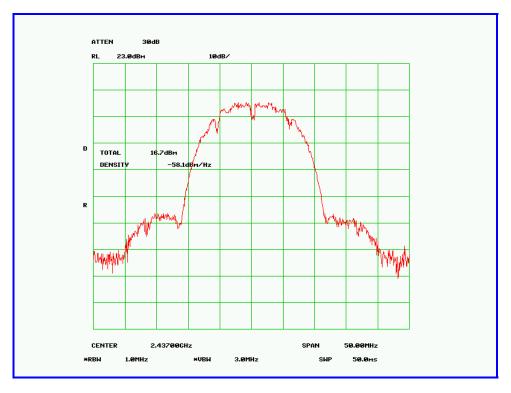
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Output Power Low Channel (802.11b)



Output Power Mid Channel (802.11b)

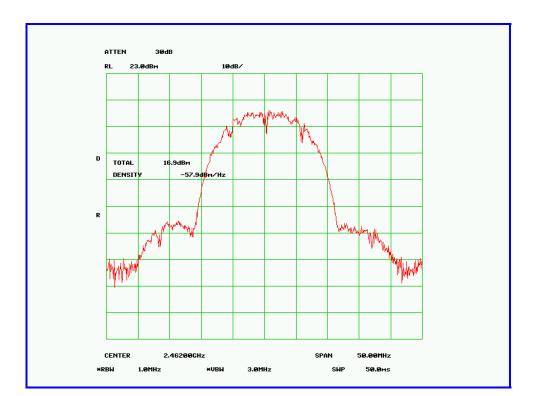
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RF Test Report of Avery Dennison Retail Information Services LLC Model : 128921 FCC 15.247 2008 & RSS-210 Issue 7 : 2007

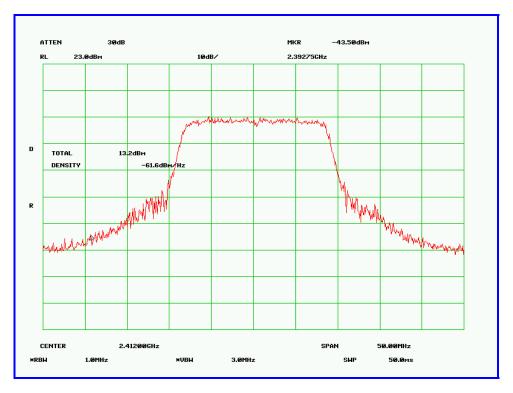
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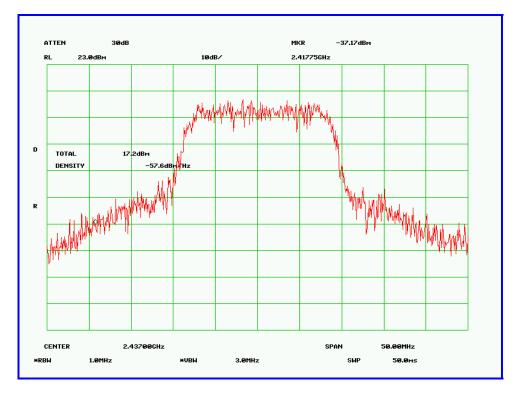
Output Power High Channel (802.11b)



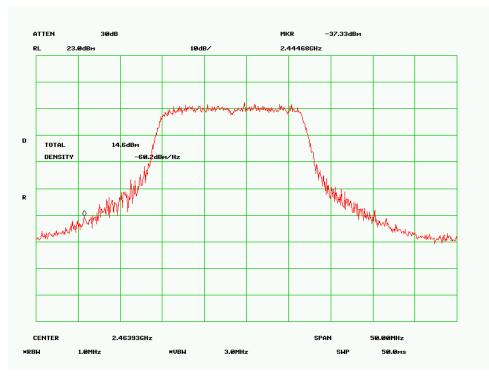
Output Power Low Channel (802.11g)

Title: То

RF Test Report of Avery Dennison Retail Information Services LLC Model : 128921 FCC 15.247 2008 & RSS-210 Issue 7 : 2007



Output Power Mid Channel (802.11g)



Output Power High Channel (802.11g)



5.10 Antenna Port Emission

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Standard Requirement: 47 CFR §15.247(d)

Procedures: The conducted spurious emissions were measured conducted using a spectrum analyzer at low, mid, and hi channels. The limit was determined by attenuating 20 dB of the RF peak power output

Test Result: Pass

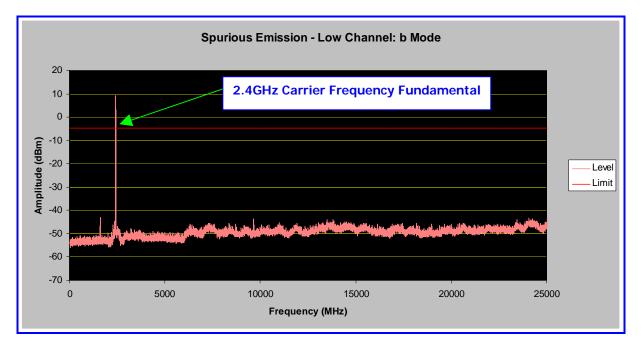
Title:

То

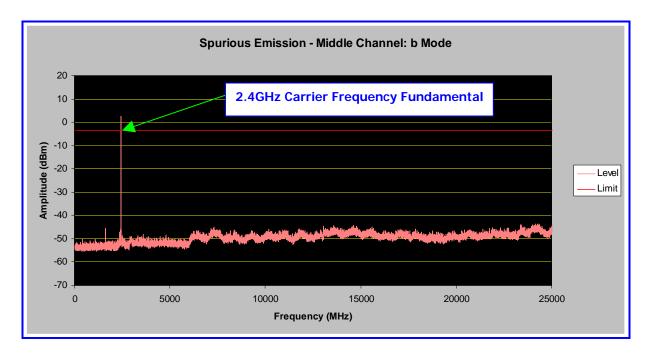
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Low Channel (802.11b)



Middle Channel (802.11b)

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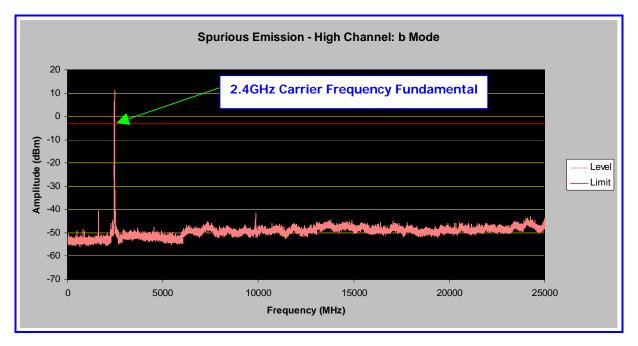
Title:

То

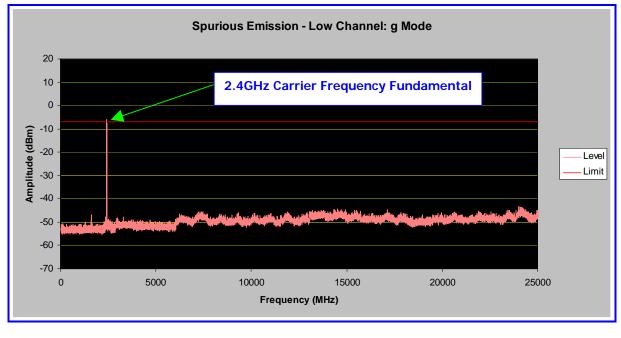
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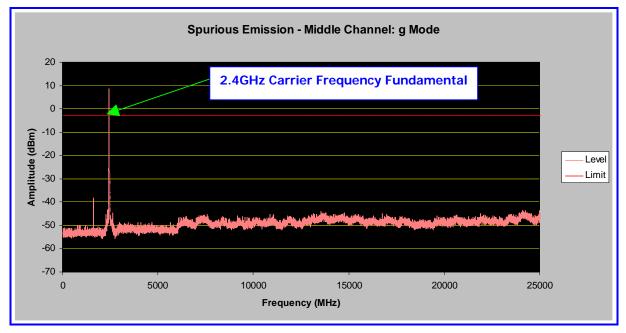


High Channel (802.11b)

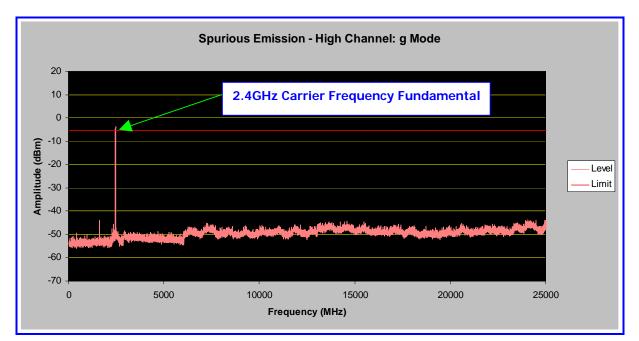


Low Channel (802.11g)

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Middle Channel (802.11g)



High Channel (802.11g)



Title

То

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5.10 Radiated Spurious Emission < 1GHz

- 1. <u>All possible modes of operation were investigated</u>. Only the 6 worst case emissions measured, using the correct CISPR detectors, are reported. All other emissions were relatively insignificant.
- 2. <u>A "-ve" margin indicates a PASS as it refers to the margin present below the limit line at the particular frequency.</u>
- Radiated Emissions Measurement Uncertainty
 All test measurements carried out are traceable to national standards. The uncertainty of the
 measurement at a confidence level of approximately 95% (in the case where distributions are
 normal), with a coverage factor of 2, in the range 30MHz 1GHz (QP only @ 3m & 10m) is
 +5.6dB/-4.5dB (for EUTs < 0.5m X 0.5m X 0.5m).</p>

 Environmental Conditions Temperature 23°C
- 4 Environmental Conditions Temperature Relative Humidity Atmospheric Pressure Test Date : October 19 to 21 2009 Tested By :Dan Coronia

Standard Requirement: 47 CFR §15.247(d)

Procedures: Radiated emissions were measured according to ANSI C63.4. The EUT was set to transmit at the highest output power. The EUT was set to transmit at mid channel. Note that setting the channel other than mid, the spurious emissions are the same.

The limit is converted from microvolts/meter to decibel microvolts/meter.

Sample Calculation: Corrected Amplitude = Raw Amplitude (dBµV/m) + ACF (dB) + Cable Loss(dB)

Test Result: Pass

SIEMIC, INC. Accessing global markets Title: RF Test Report of Avery Dennison Retail Information Services LLC Model: 128921 FOC 15.247 2008 & RSS-210 Issue 7 : 2007

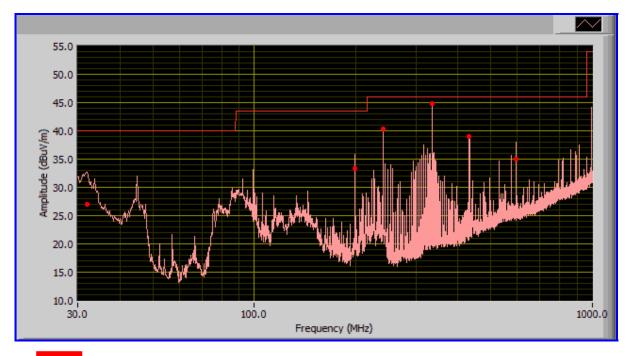
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Radiated Emission Plot - Transmit Mode



Host: 9493

Limit

| Frequency (MHz) | Quasi-Peak (dBµV/m) | Antenna height (cm) | Polarity | Turntable position (deg) | Limit (dBµV/m) | Margin (dB) |
|--------------------|------------------------|---------------------------|----------|--------------------------------|-------------------|----------------|
| 336.35 | 44.80 | 106.00 | Н | 319.00 | 46.00 | -1.20 |
| 240.25 | 40.41 | 200.00 | V | 302.00 | 46.00 | -5.59 |
| 432.46 | 39.00 | 100.00 | Н | 22.00 | 46.00 | -7.00 |
| 31.95 | 27.08 | 124.00 | V | 0.00 | 40.00 | -12.92 |
| 198.66 | 33.35 | 116.00 | Н | 137.00 | 43.50 | -10.15 |
| 595.88 | 35.02 | 122.00 | Н | 79.00 | 46.00 | -10.98 |

30MHz ~1000MHz

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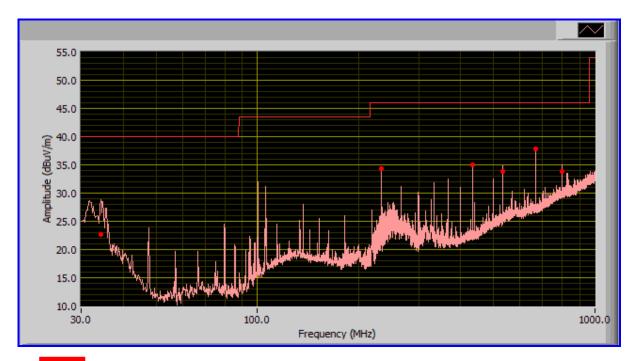
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Host: 9460



Limit

| Frequency (MHz) | Quasi-Peak (dBµV/m) | Antenna height (cm) | Polarity | Turntable position (deg) | Limit (dBµV/m) | Margin (dB) |
|--------------------|------------------------|---------------------------|----------|--------------------------------|-------------------|----------------|
| 233.32 | 34.32 | 148.00 | Н | 69.00 | 46.00 | -11.68 |
| 666.65 | 37.80 | 134.00 | Н | 46.00 | 46.00 | -8.20 |
| 433.37 | 34.94 | 102.00 | Н | 84.00 | 46.00 | -11.06 |
| 800.03 | 33.86 | 157.00 | Н | 332.00 | 46.00 | -12.14 |
| 533.36 | 33.82 | 106.00 | V | 297.00 | 46.00 | -12.18 |
| 34.20 | 22.71 | 105.00 | V | 319.00 | 40.00 | -17.29 |

30MHz ~1000MHz

SIEMIC, INC. Accessing global markets RF Test Report of Avery Dennison Retail Infor

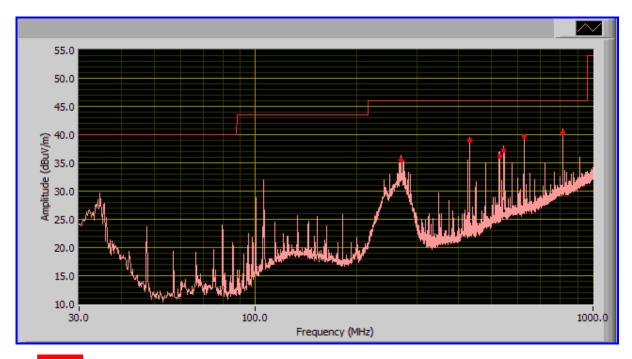
Title: To RF Test Report of Avery Dennison Retail Information Services LLC Model : 128921 FCC 15.247 2008 & RSS-210 Issue 7 : 2007
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Host: 9433



Limit

| Frequency (MHz) | Quasi-Peak (dBµV/m) | Antenna height (cm) | Polarity | Turntable position (deg) | Limit (dBµV/m) | Margin (dB) |
|--------------------|------------------------|---------------------------|----------|--------------------------------|-------------------|----------------|
| 543.76 | 36.27 | 251.00 | V | 183.00 | 46.00 | -9.73 |
| 269.20 | 36.15 | 100.00 | Н | 104.00 | 46.00 | -9.85 |
| 816.00 | 40.37 | 101.00 | Н | 305.00 | 46.00 | -5.63 |
| 431.98 | 38.98 | 101.00 | Н | 86.00 | 46.00 | -7.02 |
| 623.98 | 39.66 | 102.00 | V | 295.00 | 46.00 | -6.34 |
| 527.99 | 36.24 | 107.00 | V | 48.00 | 46.00 | -9.76 |

30MHz ~1000MHz

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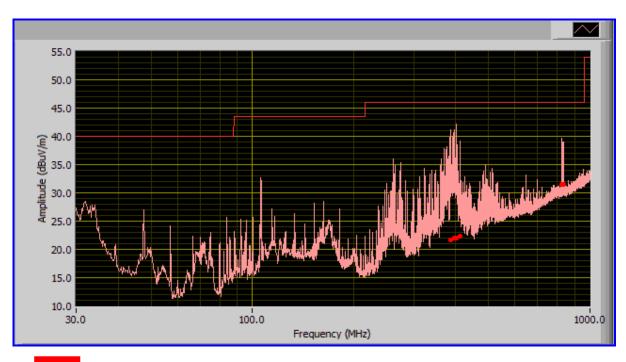
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Radiated Emission Plot - Receive Mode



Host: 9493

Limit

| Frequency (MHz) | Quasi-Peak (dBµV/m) | Antenna height (cm) | Polarity | Turntable position (deg) | Limit (dBµV/m) | Margin (dB) |
|--------------------|------------------------|---------------------------|----------|--------------------------------|-------------------|----------------|
| 834.66 | 31.47 | 219.00 | Н | 343.00 | 46.00 | -14.53 |
| 824.71 | 31.44 | 173.00 | Н | 92.00 | 46.00 | -14.56 |
| 401.10 | 22.05 | 385.00 | V | 276.00 | 46.00 | -23.95 |
| 397.68 | 21.97 | 101.00 | V | 259.00 | 46.00 | -24.03 |
| 387.41 | 21.65 | 372.00 | V | 114.00 | 46.00 | -24.35 |
| 411.50 | 22.34 | 136.00 | V | 207.00 | 46.00 | -23.66 |

30MHz ~1000MHz

Test Result: Pass

Remarks: A preliminary radiated spurious emissions below 1GHz test has been performed for Host model 9493SNP, 9460SNP, 9433SNP. Only the worst case 9493SNP was presented in this test report. The test has demonstrated that all host printer models complies with stipulated standards.

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5.10 Radiated Spurious Emissions > 1GHz & Band Edge

1. All possible modes of operation were investigated. Only the 6 worst case emissions measured, using the correct CISPR detectors, are reported. All other emissions were relatively insignificant. A "-ve" margin indicates a PASS as it refers to the margin present below the limit line at the 2. particular frequency. 3. Radiated Emissions Measurement Uncertainty All test measurements carried out are traceable to national standards. The uncertainty of the measurement at a confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2, in the range 1GHz - 40GH is +5.6dB/-4.5dB (for EUTs < 0.5m X 0.5m X 0.5m). 23°C 4. **Environmental Conditions** Temperature **Relative Humidity** 50% Atmospheric Pressure 1019mbar Test Date : October 19 to 21 2009 Tested By :Dan Coronia

Standard Requirement: 47 CFR §15.247(d)

То

Procedures: Equipment was setup in a semi-anechoic chamber. For measurements above 1 GHz an average measurement was taken with a 10Hz video bandwidth. The EUT was tested at low, mid and high with the highest output power. An emission was scan up to 10th harmonic of the operating frequency.

Sample Calculation:

EUT Field Strength = Raw Amplitude $(dB\mu V/m)$ – Amplifier Gain (dB) + Antenna Factor(dB) + Cable Loss (dB) + Filter Attenuation (dB, if used)

Test Result: Pass

Remarks: A preliminary radiated spurious emissions test has been performed for Host model 9493SNP, 9460SNP, 9433SNP. Only the worst case 9493SNP was presented in this test report. The test has demonstrated that all host printer models complies with stipulated standards.



То

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Host EUT: 9493SNP

| Frequency (GHz) | Reading (dBuV/m) | Direction (degree) | Height (m) | Polarity (H/V) | Antenna Loss (dB) | Cable Loss (dB) | Amplifier (dB) | Corrected Reading (dBuV/m) | 15.247/15.209 Limit @ 3m (dBuV/m) | Margin (dBuV/m) | Detector (pk/avg) |
|--------------------|---------------------|-----------------------|---------------|-------------------|-------------------------|-----------------------|-------------------|----------------------------------|--|--------------------|----------------------|
| 4.824 | 41.24 | 130.0 | 1.2 | V | 32.20 | 4.13 | 32.49 | 45.08 | 74.00 | -28.93 | pk |
| 4.824 | 41.57 | 113.0 | 1.2 | Н | 32.20 | 4.13 | 32.49 | 45.41 | 74.00 | -28.60 | avg |
| 4.824 | 26.35 | 130.0 | 1.2 | V | 32.20 | 4.13 | 32.49 | 30.19 | 54.00 | -23.82 | pk |
| 4.824 | 27.63 | 113.0 | 1.2 | Н | 32.20 | 4.13 | 32.49 | 31.47 | 54.00 | -22.54 | avg |
| 7.236 | 42.91 | 118.0 | 1.5 | V | 35.10 | 5.22 | 32.39 | 50.84 | 74.00 | -23.16 | pk |
| 7.236 | 42.66 | 141.0 | 1.2 | Н | 35.10 | 5.22 | 32.39 | 50.59 | 74.00 | -23.41 | avg |
| 7.236 | 28.32 | 118.0 | 1.5 | V | 35.10 | 5.22 | 32.39 | 36.25 | 54.00 | -17.75 | pk |
| 7.236 | 28.30 | 141.0 | 1.2 | Н | 35.10 | 5.22 | 32.39 | 36.23 | 54.00 | -17.77 | avg |
| 9.648 | 41.65 | 190.0 | 1.1 | V | 38.90 | 6.26 | 32.32 | 54.49 | 74.00 | -19.52 | pk |
| 9.648 | 40.95 | 271.0 | 1.7 | Н | 38.90 | 6.26 | 32.32 | 53.79 | 74.00 | -20.22 | avg |
| 9.648 | 30.56 | 190.0 | 1.1 | V | 38.90 | 6.26 | 32.32 | 43.40 | 54.00 | -10.61 | pk |
| 9.648 | 30.24 | 271.0 | 1.7 | Н | 38.90 | 6.26 | 32.32 | 43.08 | 54.00 | -10.93 | avg |
| 2.400 | 49.78 | 159.0 | 1.6 | V | 27.50 | 2.50 | 32.04 | 47.74 | 74.00 | -26.26 | pk |
| 2.400 | 47.59 | 183.0 | 1.5 | Н | 27.50 | 2.50 | 32.04 | 45.55 | 74.00 | -28.45 | avg |
| 2.400 | 31.11 | 159.0 | 1.6 | V | 27.50 | 2.50 | 32.04 | 29.07 | 54.00 | -24.93 | pk |
| 2.400 | 33.72 | 183.0 | 1.5 | Н | 27.50 | 2.50 | 32.04 | 31.68 | 54.00 | -22.32 | avg |

802.11b @ 2412MHz @ 3 Meter

Note: Emission was scanned up to 25GHz; no emissions were detected above the noise floor which was at least 20dB below the specification limit

| Frequency (GHz) | Reading (dBuV/m) | Direction (degree) | Height (m) | Polarity (H/V) | Antenna Loss (dB) | Cable Loss (dB) | Amplifier (dB) | Corrected Reading (dBuV/m) | 15.247/15.209 Limit @ 3m (dBuV/m) | Margin (dBuV/m) | Detector (pk/avg) |
|--------------------|---------------------|-----------------------|---------------|-------------------|-------------------------|-----------------------|-------------------|----------------------------------|--|--------------------|----------------------|
| 4.874 | 54.71 | 174.0 | 1.3 | V | 32.20 | 4.13 | 32.49 | 58.55 | 74.00 | -15.46 | pk |
| 4.874 | 48.72 | 233.0 | 1.0 | Н | 32.20 | 4.13 | 32.49 | 52.56 | 74.00 | -21.45 | avg |
| 4.874 | 35.72 | 174.0 | 1.3 | V | 32.20 | 4.13 | 32.49 | 39.56 | 54.00 | -14.45 | pk |
| 4.874 | 33.91 | 233.0 | 1.0 | Н | 32.20 | 4.13 | 32.49 | 37.75 | 54.00 | -16.26 | avg |
| 7.311 | 48.68 | 214.0 | 1.3 | V | 35.10 | 5.22 | 32.39 | 56.61 | 74.00 | -17.39 | pk |
| 7.311 | 47.17 | 237.0 | 1.5 | Н | 35.10 | 5.22 | 32.39 | 55.10 | 74.00 | -18.90 | avg |
| 7.311 | 34.59 | 214.0 | 1.3 | V | 35.10 | 5.22 | 32.39 | 42.52 | 54.00 | -11.48 | pk |
| 7.311 | 33.58 | 237.0 | 1.5 | Н | 35.10 | 5.22 | 32.39 | 41.51 | 54.00 | -12.49 | avg |
| 9.748 | 42.68 | 190.0 | 1.1 | V | 38.90 | 6.26 | 32.32 | 55.52 | 74.00 | -18.49 | pk |
| 9.748 | 41.17 | 271.0 | 1.7 | Н | 38.90 | 6.26 | 32.32 | 54.01 | 74.00 | -20.00 | avg |
| 9.748 | 30.69 | 190.0 | 1.1 | V | 38.90 | 6.26 | 32.32 | 43.53 | 54.00 | -10.48 | pk |
| 9.748 | 30.38 | 271.0 | 1.7 | Н | 38.90 | 6.26 | 32.32 | 43.22 | 54.00 | -10.79 | avg |

802.11b @ 2437MHz @ 3 Meter

Note: Emission was scanned up to 25GHz; no emissions were detected above the noise floor which was at least 20dB below the specification limit



Title: То

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| Frequency (GHz) | Reading (dBuV/m) | Direction (degree) | Height (m) | Polarity (H/V) | Antenna Loss (dB) | Cable Loss (dB) | Amplifier (dB) | Corrected Reading (dBuV/m) | 15.247/15.209 Limit @ 3m (dBuV/m) | Margin (dBuV/m) | Detector (pk/avg) |
|--------------------|---------------------|-----------------------|---------------|-------------------|-------------------------|-----------------------|-------------------|----------------------------------|--|--------------------|----------------------|
| 4.924 | 48.17 | 138.0 | 1.4 | V | 32.20 | 4.13 | 32.49 | 52.01 | 74.00 | -22.00 | pk |
| 4.924 | 47.25 | 225.0 | 1.3 | н | 32.20 | 4.13 | 32.49 | 51.09 | 74.00 | -22.92 | avg |
| 4.924 | 33.10 | 138.0 | 1.4 | V | 32.20 | 4.13 | 32.49 | 36.94 | 54.00 | -17.07 | pk |
| 4.924 | 33.09 | 225.0 | 1.3 | Н | 32.20 | 4.13 | 32.49 | 36.93 | 54.00 | -17.08 | avg |
| 7.386 | 41.56 | 115.0 | 1.6 | V | 35.10 | 5.22 | 32.39 | 49.49 | 74.00 | -24.51 | pk |
| 7.386 | 42.16 | 235.0 | 1.2 | Н | 35.10 | 5.22 | 32.39 | 50.09 | 74.00 | -23.91 | avg |
| 7.386 | 38.32 | 115.0 | 1.6 | V | 35.10 | 5.22 | 32.39 | 46.25 | 54.00 | -7.75 | pk |
| 7.386 | 38.30 | 235.0 | 1.2 | Н | 35.10 | 5.22 | 32.39 | 46.23 | 54.00 | -7.77 | avg |
| 9.848 | 41.56 | 190.0 | 1.1 | V | 38.90 | 6.26 | 32.32 | 54.40 | 74.00 | -19.61 | pk |
| 9.848 | 42.16 | 271.0 | 1.7 | Н | 38.90 | 6.26 | 32.32 | 55.00 | 74.00 | -19.01 | avg |
| 9.848 | 31.32 | 190.0 | 1.1 | V | 38.90 | 6.26 | 32.32 | 44.16 | 54.00 | -9.85 | pk |
| 9.848 | 31.30 | 271.0 | 1.7 | Н | 38.90 | 6.26 | 32.32 | 44.14 | 54.00 | -9.87 | avg |
| 2.484 | 49.09 | 235.0 | 1.2 | V | 27.50 | 2.50 | 32.04 | 47.05 | 74.00 | -26.95 | pk |
| 2.484 | 46.04 | 94.0 | 1.2 | Н | 27.50 | 2.50 | 32.04 | 44.00 | 74.00 | -30.00 | avg |
| 2.484 | 38.62 | 235.0 | 1.2 | V | 27.50 | 2.50 | 32.04 | 36.58 | 54.00 | -17.42 | pk |
| 2.484 | 35.73 | 94.0 | 1.2 | Н | 27.50 | 2.50 | 32.04 | 33.69 | 54.00 | -20.31 | avg |

802.11b @ 2462MHz @ 3 Meter

Note: Emission was scanned up to 25GHz; no emissions were detected above the noise floor which was at least 20dB below the specification limit

| Frequency (GHz) | Reading (dBuV/m) | Direction (degree) | Height (m) | Polarity (H/V) | Antenna Loss (dB) | Cable Loss (dB) | Amplifier (dB) | Corrected Reading (dBuV/m) | 15.247/15.209 Limit @ 3m (dBuV/m) | Margin (dBuV/m) | Detector (pk/avg) |
|--------------------|---------------------|-----------------------|---------------|-------------------|-------------------------|-----------------------|-------------------|----------------------------------|--|--------------------|----------------------|
| 4.824 | 47.15 | 52.0 | 1.3 | V | 32.20 | 4.13 | 32.49 | 50.99 | 74.00 | -23.02 | pk |
| 4.824 | 48.01 | 52.0 | 1.2 | Н | 32.20 | 4.13 | 32.49 | 51.85 | 74.00 | -22.16 | avg |
| 4.824 | 33.10 | 52.0 | 1.3 | V | 32.20 | 4.13 | 32.49 | 36.94 | 54.00 | -17.07 | pk |
| 4.824 | 33.60 | 52.0 | 1.2 | Н | 32.20 | 4.13 | 32.49 | 37.44 | 54.00 | -16.57 | avg |
| 7.236 | 51.76 | 12.0 | 1.1 | V | 35.10 | 5.22 | 32.39 | 59.69 | 74.00 | -14.31 | pk |
| 7.236 | 50.71 | 43.0 | 1.6 | Н | 35.10 | 5.22 | 32.39 | 58.64 | 74.00 | -15.36 | avg |
| 7.236 | 37.02 | 12.0 | 1.1 | V | 35.10 | 5.22 | 32.39 | 44.95 | 54.00 | -9.05 | pk |
| 7.236 | 37.04 | 43.0 | 1.6 | Н | 35.10 | 5.22 | 32.39 | 44.97 | 54.00 | -9.03 | avg |
| 9.648 | 43.62 | 190.0 | 1.1 | V | 38.90 | 6.26 | 32.32 | 56.46 | 74.00 | -17.55 | pk |
| 9.648 | 42.89 | 271.0 | 1.7 | Н | 38.90 | 6.26 | 32.32 | 55.73 | 74.00 | -18.28 | avg |
| 9.648 | 30.24 | 190.0 | 1.1 | V | 38.90 | 6.26 | 32.32 | 43.08 | 54.00 | -10.93 | pk |
| 9.648 | 31.02 | 271.0 | 1.7 | Н | 38.90 | 6.26 | 32.32 | 43.86 | 54.00 | -10.15 | avg |
| 2.400 | 48.19 | 86.0 | 1.8 | V | 27.50 | 2.50 | 32.04 | 46.15 | 74.00 | -27.85 | pk |
| 2.400 | 47.72 | 83.0 | 1.5 | Н | 27.50 | 2.50 | 32.04 | 45.68 | 74.00 | -28.32 | avg |
| 2.400 | 37.46 | 86.0 | 1.8 | V | 27.50 | 2.50 | 32.04 | 35.42 | 54.00 | -18.58 | pk |
| 2.400 | 36.75 | 83.0 | 1.5 | Н | 27.50 | 2.50 | 32.04 | 34.71 | 54.00 | -19.29 | avg |

802.11g @ 2412MHz @ 3 Meter

Note: Emission was scanned up to 25GHz; no emissions were detected above the noise floor which was at least 20dB below the specification limit

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То

Model : 128921 FCC 15.247 2008 & RSS-210 Issue 7 : 2007

| Frequency (GHz) | Reading (dBuV/m) | Direction (degree) | Height (m) | Polarity (H/V) | Antenna Loss (dB) | Cable Loss (dB) | Amplifier (dB) | Corrected Reading (dBuV/m) | 15.247/15.209 Limit @ 3m (dBuV/m) | Margin (dBuV/m) | Detector (pk/avg) |
|--------------------|---------------------|-----------------------|---------------|-------------------|-------------------------|-----------------------|-------------------|----------------------------------|--|--------------------|----------------------|
| 4.874 | 56.88 | 174.0 | 1.32 | V | 32.20 | 4.13 | 32.49 | 60.72 | 74.00 | -13.29 | pk |
| 4.874 | 47.75 | 233.0 | 1.10 | Н | 32.20 | 4.13 | 32.49 | 51.59 | 74.00 | -22.42 | avg |
| 4.874 | 41.04 | 174.0 | 1.3 | V | 32.20 | 4.13 | 32.49 | 44.88 | 54.00 | -9.12 | pk |
| 4.874 | 33.49 | 233.0 | 1.1 | Н | 32.20 | 4.13 | 32.49 | 37.33 | 54.00 | -16.68 | avg |
| 7.311 | 51.16 | 207.0 | 1.2 | V | 35.10 | 5.22 | 32.39 | 59.09 | 74.00 | -14.91 | pk |
| 7.311 | 50.57 | 231.0 | 1.5 | Н | 35.10 | 5.22 | 32.39 | 58.50 | 74.00 | -15.50 | avg |
| 7.311 | 36.75 | 207.0 | 1.2 | V | 35.10 | 5.22 | 32.39 | 44.68 | 54.00 | -9.32 | pk |
| 7.311 | 36.67 | 231.0 | 1.5 | Н | 35.10 | 5.22 | 32.39 | 44.60 | 54.00 | -9.40 | avg |
| 9.748 | 41.84 | 190.0 | 1.1 | V | 38.90 | 6.26 | 32.32 | 54.68 | 74.00 | -19.33 | pk |
| 9.748 | 40.72 | 271.0 | 1.7 | Н | 38.90 | 6.26 | 32.32 | 53.56 | 74.00 | -20.45 | avg |
| 9.748 | 29.39 | 190.0 | 1.1 | V | 38.90 | 6.26 | 32.32 | 42.23 | 54.00 | -11.78 | pk |
| 9.748 | 29.81 | 271.0 | 1.7 | Н | 38.90 | 6.26 | 32.32 | 42.65 | 54.00 | -11.36 | avg |

802.11g @ 2437MHz @ 3 Meter

Note: Emission was scanned up to 25GHz; no emissions were detected above the noise floor which was at least 20dB below the specification limit

| Frequency (GHz) | Reading (dBuV/m) | Direction (degree) | Height (m) | Polarity (H/V) | Antenna Loss (dB) | Cable Loss (dB) | Amplifier (dB) | Corrected Reading (dBuV/m) | 15.247/15.209 Limit @ 3m (dBuV/m) | Margin (dBuV/m) | Detector (pk/avg) |
|--------------------|---------------------|-----------------------|---------------|-------------------|-------------------------|-----------------------|-------------------|----------------------------------|--|--------------------|----------------------|
| 4.924 | 48.17 | 138.0 | 1.4 | V | 32.20 | 4.13 | 32.49 | 52.01 | 74.00 | -22.00 | pk |
| 4.924 | 47.25 | 225.0 | 1.3 | Н | 32.20 | 4.13 | 32.49 | 51.09 | 74.00 | -22.92 | avg |
| 4.924 | 33.10 | 138.0 | 1.4 | V | 32.20 | 4.13 | 32.49 | 36.94 | 54.00 | -17.07 | pk |
| 4.924 | 33.09 | 225.0 | 1.3 | Н | 32.20 | 4.13 | 32.49 | 36.93 | 54.00 | -17.08 | avg |
| 7.386 | 41.56 | 115.0 | 1.6 | V | 35.10 | 5.22 | 32.39 | 49.49 | 74.00 | -24.51 | pk |
| 7.386 | 42.16 | 235.0 | 1.3 | Н | 35.10 | 5.22 | 32.39 | 50.09 | 74.00 | -23.91 | avg |
| 7.386 | 38.32 | 115.0 | 1.6 | V | 35.10 | 5.22 | 32.39 | 46.25 | 54.00 | -7.75 | pk |
| 7.386 | 38.30 | 235.0 | 1.3 | Н | 35.10 | 5.22 | 32.39 | 46.23 | 54.00 | -7.77 | avg |
| 9.848 | 40.40 | 190.0 | 1.1 | V | 38.90 | 6.26 | 32.32 | 53.24 | 74.00 | -20.77 | pk |
| 9.848 | 40.78 | 271.0 | 1.7 | Н | 38.90 | 6.26 | 32.32 | 53.62 | 74.00 | -20.39 | avg |
| 9.848 | 30.39 | 190.0 | 1.1 | V | 38.90 | 6.26 | 32.32 | 43.23 | 54.00 | -10.78 | pk |
| 9.848 | 30.81 | 271.0 | 1.7 | Н | 38.90 | 6.26 | 32.32 | 43.65 | 54.00 | -10.36 | avg |
| 2.484 | 48.87 | 234.0 | 1.7 | V | 27.50 | 2.50 | 32.04 | 46.83 | 74.00 | -27.17 | pk |
| 2.484 | 46.02 | 175.0 | 1.5 | Н | 27.50 | 2.50 | 32.04 | 43.98 | 74.00 | -30.02 | avg |
| 2.484 | 36.27 | 234.0 | 1.7 | V | 27.50 | 2.50 | 32.04 | 34.23 | 54.00 | -19.77 | pk |
| 2.484 | 35.86 | 175.0 | 1.5 | Н | 27.50 | 2.50 | 32.04 | 33.82 | 54.00 | -20.18 | avg |

802.11g @ 2462MHz @ 3 Meter

Note: Emission was scanned up to 25GHz; no emissions were detected above the noise floor which was at least 20dB below the specification limit



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Annex A. TEST INSTRUMENT & METHOD

Annex A.i. TEST INSTRUMENTATION & GENERAL PROCEDURES

| Instrument | Model | Calibration Due |
|------------------------------|---------|-----------------|
| AC Conducted Emissions | | |
| R&S EMI Test Receiver | ESIB40 | 04/25/2010 |
| R&S LISN | ESH2-Z5 | 04/24/2010 |
| CHASE LISN | MN2050B | 04/24/2010 |
| Radiated Emissions | | |
| Spectrum Analyzer | 8564E | 04/26/2010 |
| EMI Receiver | ESIB 40 | 04/25/2010 |
| R&S LISN | ESH2-Z5 | 04/24/2010 |
| CHASE LISN | MN2050B | 04/24/2010 |
| Antenna(1 ~18GHz) | 3115 | 01/04/2010 |
| Antenna (30MHz~2GHz) | JB1 | 01/04/2010 |
| Chamber | 3m | 04/18/2010 |
| Pre-Amplifier(1 ~ 26GHz) | 8449 | 04/24/2010 |
| Horn Antenna (18~40GHz) | AH-840 | 03/19/2010 |
| Microwave Pre-Amp (18~40GHz) | PA-840 | 03/19/2010* |

Note: Functional Verification



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Annex A.ii. CONDUCTED EMISSIONS TEST DESCRIPTION

Test Set-up

- 1. The EUT and supporting equipment were set up in accordance with the requirements of the standard on top of a 1.5m x 1m x 0.8m high, non-metallic table, as shown in <u>Annex B</u>.
- 2. The power supply for the EUT was fed through a $50\Omega/50\mu$ H EUT LISN, connected to filtered mains.
- 3. The RF OUT of the EUT LISN was connected to the EMI test receiver via a low-loss coaxial cable.
- 4. All other supporting equipments were powered separately from another main supply.

Test Method

- 1. The EUT was switched on and allowed to warm up to its normal operating condition.
- 2. A scan was made on the NEUTRAL line (for AC mains) or Earth line (for DC power) over the required frequency range using an EMI test receiver.
- 3. High peaks, relative to the limit line, were then selected.
- 4. The EMI test receiver was then tuned to the selected frequencies and the necessary measurements made with a receiver bandwidth setting of 10 KHz. For FCC tests, only Quasi-peak measurements were made; while for CISPR/EN tests, both Quasi-peak and Average measurements were made.
- 5. Steps 2 to 4 were then repeated for the LIVE line (for AC mains) or DC line (for DC power).

Sample Calculation Example

| At 20 MHz | limit = 250 μ V = 47.96 dB μ V | | | | | |
|--|--|--|--|--|--|--|
| Transducer factor of LISN, pulse limiter & cable loss at 20 MHz = 11.20 dB | | | | | | |
| Q-P reading obtained directly from EMI Receiver = $40.00 \text{ dB}\mu\text{V}$ (Calibrated for system losses) | | | | | | |
| Therefore, Q-P margin = 47.96 – 40.00 = 7.96 | i.e. 7.96 dB below limit | | | | | |

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Annex A. iii RADIATED EMISSIONS TEST DESCRIPTION

EUT Characterisation

Title

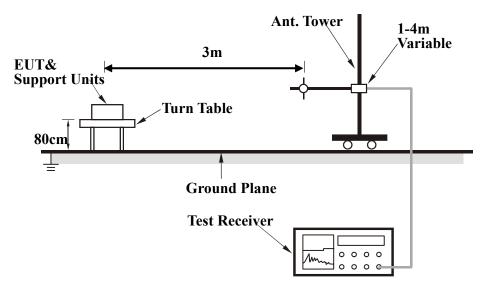
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EUT characterisation, over the frequency range from 30MHz to 1GHz (for FCC tests, until the 5th harmonic for operating frequencies \geq 108MHz), was done in order to minimise radiated emissions testing time while still maintaining high confidence in the test results.

The EUT was placed in the chamber, at a height of about 0.8m on a turntable. Its radiated emissions frequency profile was observed, using a spectrum analyzer /receiver with the appropriate broadband antenna placed 3m away from the EUT. Radiated emissions from the EUT were maximised by rotating the turntable manually, changing the antenna polarisation and manipulating the EUT cables while observing the frequency profile on the spectrum analyzer / receiver. Frequency points at which maximum emissions occurred, clock frequencies and operating frequencies were then noted for the formal radiated emissions test at the Open Area Test Site (OATS).

Test Set-up

- 1. The EUT and supporting equipment were set up in accordance with the requirements of the standard on top of a 1.5m X 1.0m X 0.8m high, non-metallic table as shown in <u>Annex B</u>.
- 2. The filtered power supply for the EUT and supporting equipment were tapped from the appropriate power sockets located on the turntable.
- 3. The relevant broadband antenna was set at the required test distance away from the EUT and supporting equipment boundary.





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Test Method

The following procedure was performed to determine the maximum emission axis of EUT:

1. With the receiving antenna is H polarization, rotate the EUT in turns with three orthogonal axes to determine the axis of maximum emission.

2. With the receiving antenna is V polarization, rotate the EUT in turns with three orthogonal axes to determine the axis of maximum emission.

3. Compare the results derived from above two steps. So, the axis of maximum emission from EUT was determined and the configuration was used to perform the final measurement.

Final Radiated Emission Measurement

1. Setup the configuration according to figure 1. Turn on EUT and make sure that it is in normal function.

2. For emission frequencies measured below 1 GHz, a pre-scan is performed in a shielded chamber to determine the accurate frequencies of higher emissions will be checked on a open test site. As the same purpose, for emission frequencies measured above 1 GHz, a pre-scan also be performed with a 1 meter measuring distance before final test.

3. For emission frequencies measured below and above 1 GHz, set the spectrum analyzer on a 100 kHz and 1 MHz resolution bandwidth respectively for each frequency measured in step 2.

4. The search antenna is to be raised and lowered over a range from 1 to 4 meters in horizontally polarized orientation. Position the highness when the highest value is indicated on spectrum analyzer, then change the orientation of EUT on test table over a range from 0 ° to 360 ° with a speed as slow as possible, and keep the azimuth that highest emission is indicated on the spectrum analyzer. Vary the antenna position again and record the highest value as a final reading.

5. Repeat step 4 until all frequencies need to be measured were complete.

6. Repeat step 5 with search antenna in vertical polarized orientations.

During the radiated emission test, the Spectrum Analyzer was set with the following configurations:

| Frequency Band (MHz) | Function | Resolution bandwidth | Video Bandwidth |
|----------------------|----------|----------------------|-----------------|
| 30 to 1000 | Peak | 100 kHz | 100 kHz |
| Above 1000 | Peak | 1 MHz | 1 MHz |
| | Average | 1 MHz | 10 Hz |

Sample Calculation Example

The field strength is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain (if any) from the measured reading. For the limit is employed average value, therefore the peak value can be transferred to average value by subtracting the duty factor. The basic equation with a sample calculation is as follows:

Peak = Reading + Corrected Factor

where

Corr. Factor = Antenna Factor + Cable Factor - Amplifier Gain (if any) And the average value is

Average = Peak Value + Duty Factor or Set RBW = 1MHz, VBW = 10Hz.

Note :

If the measured frequencies are fall in the restricted frequency band, the limit employed must be quasi peak value when frequencies are below or equal to 1 GHz. And the measuring instrument is set to quasi peak detector function.



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Annex B EUT AND TEST SETUP PHOTOGRAPHS

Please see the attachment

Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

EUT TEST CONDITIONS

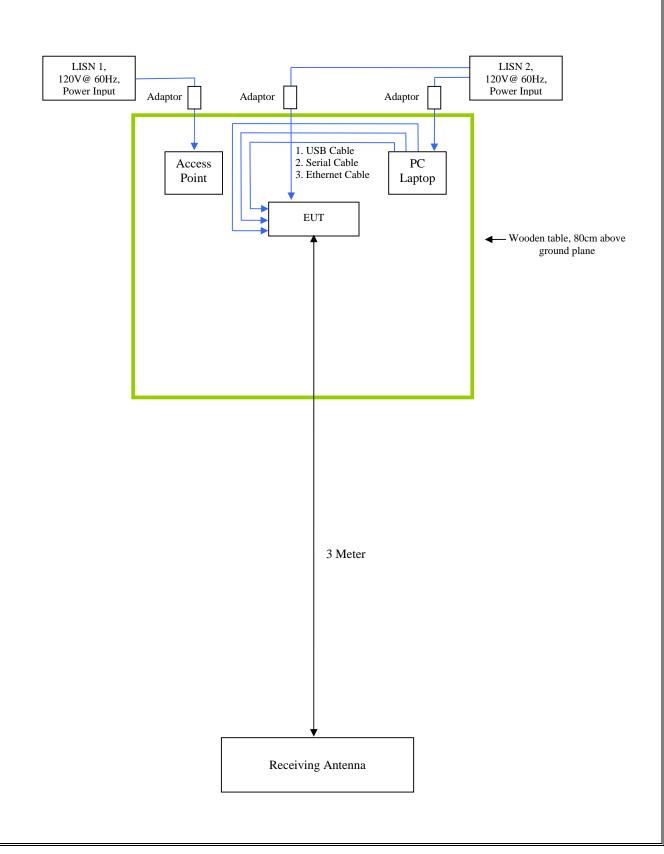
Annex C. i. SUPPORTING EQUIPMENT DESCRIPTION

The following is a description of supporting equipment and details of cables used with the EUT.

| Equipment Description (Including Brand Name) | Model & Serial Number | Cable Description (List Length, Type & Purpose) |
|---|---------------------------|---|
| PC Laptop / DELL | Latitude D600 | Serial Cable, <3 meter Ethernet Cable, <3 meter USB Cable, <3 meter |
| Wireless Access Point / Cisco | CISCO AIRONET 1200 Series | From PC Laptop to EUT |



Block Configuration Diagram for Radiated Emission



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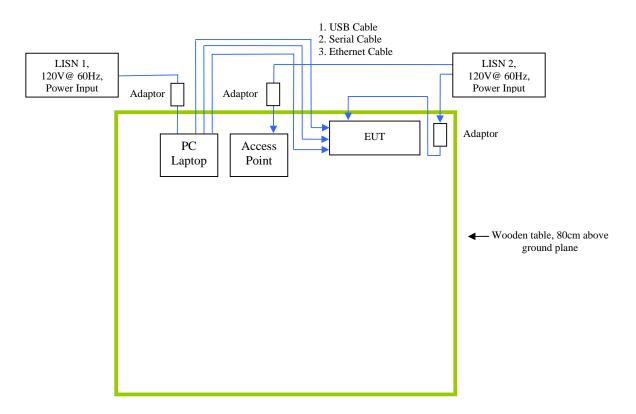
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Block Configuration Diagram for Conducted Emission

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Annex C.ii. **EUT OPERATING CONDITIONS**

The following is the description of how the EUT is exercised during testing.

| Test | Description Of Operation |
|-------------------|---|
| Emissions Testing | The EUT was controlled via PC Laptop and ACCESS POINT using MON315 FCC Test Console Command Program provided by applicant. |
| Others Testing | The EUT was controlled via PC Laptop and ACCESS POINT using MON315 FCC Test Console Command Program provided by applicant. |

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Annex D User Manual, Block Diagram, Circuit Diagram

Please see attachment



Title

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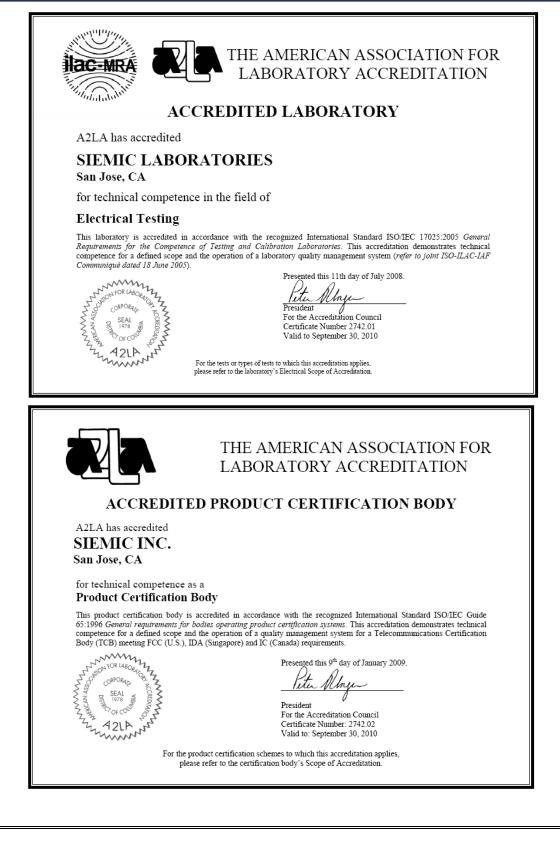
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Annex E. SIEMIC ACCREDITATION CERTIFICATES

SIEMIC ACREDITATION DETAILS: A2LA Certificate Number: 2742.01





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SCOPE OF ACCREDITATION TO ISO/IEC GUIDE 65:1996

SIEMIC INC. 2206 Ringwood Ave. San Jose, CA 95131 Mr. Snell Leong (Authorized Representative) Phone: 408 526 1188 www.siemic.com

PRODUCT CERTIFICATION CONFORMITY ASSESSMENT BODY (CAB)

Valid to: September 30, 2010

Certificate Number: 2742.02

In recognition of the successful completion of the A2LA Certification Body Accreditation Program evaluation, including the US Federal Communications Commission (FCC), Industry Canada (IC) and Singapore (IDA) requirements for the indicated types of product certifications, accreditation is granted to this organization to perform the following product certification schemes:

Economy

<u>Scope</u>

Federal Communication Commission - (FCC)

| Unlicensed Radio Frequency Devices | A1, A2, A3, A4 |
|------------------------------------|----------------|
| Licensed Radio Frequency Devices | B1, B2, B3, B4 |
| Telephone Terminal Equipment | С |

*Please refer to FCC TCB Program Roles and Responsibilities, v04, released February 14, 2008 detailing scopes, roles and responsibilities. <u>http://www.fcc.gov/oet/ea/FCC-Overview-TCB-Program.pdf</u>

Industry Canada - (IC)

Radio

All Radio Standards Specifications (RSS) in Category I Equipment Standards List Radio

*Please refer to Industry Canada (IC) website at: http://www.ic.gc.ca/epic/site/smt-gst.nsf/en/h_sf01342e.html

<u> IDA – Singapore</u>

| Line Terminal Equipment | All Technical Specifications for Line Terminal Equipment – Table 1 of IDA MRA Recognition Scheme: 2008, Annex 2 |
|-------------------------------|---|
| Radio-Communication Equipment | All Technical Specifications for Radio-Communication Equipment – Table 2 of IDA MRA Recognition Scheme: 2008, Annex 2 |

*Please refer to Info-Communication Development Authority (iDA) Singapore website at: http://www.ida.gov.sg/doc/Policies%20and%20Regulation/Policies_and_Regulation_Level2/20060609145118/MRA <u>RecScheme.pdf</u>

(A2LA Cert. No. 2742.02) 01/09/09

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Title

То

RF Test Report of Avery Dennison Retail Information Services LLC Model : 128921 FCC 15.247 2008 & RSS-210 Issue 7 : 2007

SIEMIC ACREDITATION DETAILS: FCC Test Site Registration No. 783147

FEDERAL COMMUNICATIONS COMMISSION

Laboratory Division 7435 Oakland Mills Road Columbia, MD 21046

December 20, 2007

Registration Number: 783147

SIEMIC Laboratories 2206 Ringwood Avenue, San Jose, CA 95131

Attention: Leslie Bai

Re:

Measurement facility located at San Jose 3 & 10 meter site Date of Renewal: December 20, 2007

Dear Sir or Madam:

Your request for renewal of the registration of the subject measurement facility has been received. The information submitted has been placed in your file and the registration has been renewed. The name of your organization will remain on the list of facilities whose measurement data will be accepted in conjunction with applications for Certification under Parts 15 or 18 of the Commission's Rules. Please note that the file must be updated for any changes made to the facility and the registration must be renewed at least every three years.

Measurement facilities that have indicated that they are available to the public to perform measurement services on a fee basis may be found on the FCC website <u>www.fcc.gov</u> under E-Filing, OET Equipment Authorization Electronic Filing, Test Firms.

Sincerely,

Phyllis Parrish Industry Analyst



Accessing global markets RF Test Report of Avery Dennison Retail Information Ser Model : 128921

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SIEMIC ACREDITATION DETAILS: Industry of Canada CAB ID : US0160



UNITED STATES DEPARTMENT OF COMMERCE National Institute of Standards and Technology Gaithersburg, Maryland 20899-

March 4, 2009

Mr. Leslie Bai SIEMIC, Inc. 2206 Ringwood Avenue San Jose, CA 95131

Dear Mr. Bai:

NIST is pleased to inform you that your laboratory has been recognized by Industry Canada (IC), under the Asia Pacific Economic Cooperation for Telecommunications Equipment Mutual Recognition Arrangement (APEC Tel MRA). Your laboratory is now designated to act as a Conformity Assessment Body (CAB) under Appendix B, **Phase I** Procedures, of the APEC Tel MRA. The pertinent information about your laboratory's designation is as follows:

| CAB Name: | SIEMIC, Inc. |
|----------------------|--|
| Physical Location: | 2206 Ringwood Avenue, San Jose, CA 95131 USA |
| Identification No .: | US0160 |
| Recognized Scope: | CS-03 Part I, II, V, VI, VII and VIII |

You may submit test data to IC to verify that the equipment to be imported into Canada satisfies the applicable requirements. The designation of your organization will remain in force as long as its accreditation for the designated scope remains valid and comply with the designation requirements.

Recognized CABs are listed on the NIST website at http://ts.nist.gov/mra. Please contact Ms. Ramona Saar at (301) 975-5521 or <u>ramona.saar@nist.gov</u> if you have any questions.

Sincerely,

David In Alde

David F. Alderman Group Leader, Standards Coordination and Conformity Group Standards Services Division

Enclosure

cc: CAB Program Manager





Title

То

RF Test Report of Avery Dennison Retail Information Services Model : 128921 FCC 15.247 2008 & RSS-210 Issue 7 : 2007
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OUR FILE: 46405-4842 Submission No: 126429

SIEMIC ACREDITATION DETAILS: Industry of Canada Test Site Registration No. 4842-1

industry Industrie Canada Canada

May 23rd, 2008

Siemic Inc. 2206 Ringwood Ave. San Jose CA 95131 USA

Attention: Leslie Bai

Dear Sir/Madame:

The Bureau has received your application for the registration / renewal of a 3/10m OATS. Be advised that the information received was satisfactory to Industry Canada. The following number(s) is now associated to the site(s) for which registration / renewal was sought (4842A-1). Please reference the appropriate site number in the body of test reports containing measurements performed on the site. In addition, please be informed that the Bureau is now utilizing a **new site numbering scheme** in order to simplify the electronic filing process. Our goal is to reduce the number of secondary codes associated to one particular company. The following changes have been made to your record.

- Your primary code is: 4842

- The company number associated to the site(s) located at the above address is: 4842A

- The table below is a summary of the changes made to the unique site registration number(s):

| New Site | Obsolete Site | Description of Site | Expiry Date |
|----------|---------------|---------------------|--------------|
| Number | Number | | (YYYY-MM-DD) |
| 4842A-1 | 4842-1 | 3m Chamber | 2010-05-23 |

Furthermore, to obtain or renew a unique site number, the applicant shall demonstrate that the site has been accredited to ANSI C63.4-2003 or later. A scope of accreditation indicating the accreditation by a recognized accreditation body to ANSI C63.4-2003 shall be accepted. Please indicate in a letter the previous assigned site number if applicable and the type of site (example: 3 meter OATS or 3 meter chamber). If the test facility is not accredited to ANSI C63.4-2003 or later, the test facility shall submit test data demonstrating full compliance with the ANSI standard. The Bureau will evaluate the filing to determine if recognition shall be granted.

The frequency for re-validation of the test site and the information that is required to be filed or retained by the testing party shall comply with the requirements established by the accrediting organization. However, in all cases, test site re-validation shall occur on an interval not to exceed two years. There is no fee or form associated with an OATS filing. OATS submissions are encouraged to be submitted electronically to the Bureau using the following URL; http://strategis.ic.ge.ca/epic/internet/inceb-bhst.nsf/en/h tt00052e.html.

If you have any questions, you may contact the Bureau by e-mail at <u>certification.bureau@ic.gc.c</u> Please reference our file and submission number above for all correspondence.

Yours sincerely,

12 20

S. Proulx Test & Measurement Specialist Certification and Engineering Bureau 3701 Carling Ave., Building 94 Ottawa, Ontario K2H 8S2



Title: То

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SIEMIC ACREDITATION DETAILS: FCC DOC CAB Recognition : US1109

| FEDERAL COMMUNICATIONS COMMISSION Laboratory Division 7435 Oakland Mills Road Columbia, MD 21046 | | |
|--|--|--|
| | August 28, 2008 | |
| Siemic Laborat 2206 Ringwoo San Jose, CA 9 | d Ave., | |
| Attention: | Leslie Bai | |
| Re: | Accreditation of Siemic Laboratories Designation Number: US1109 Test Firm Registration #: 540430 | |
| Dear Sir or Ma | dam: | |
| | notified by American Association for Laboratory Accreditation that Siemic Laboratories has been Conformity Assessment Body (CAB). | |
| At this time Siemic Laboratories is hereby designated to perform compliance testing on equipment subject to Declaration Of Conformity (DOC) and Certification under Parts 15 and 18 of the Commission's Rules. | | |
| This designation will expire upon expiration of the accreditation or notification of withdrawal of designation. | | |

Sincerely,

George Tannahill

Electronics Engineer



SIEMIC, INC. Accessing global markets RF Test Report of Avery Dennison Retail Information Services LLC Model - 128221

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SIEMIC ACREDITATION DETAILS: Australia CAB ID : US0160



UNITED STATES DEPARTMENT OF COMMERCE National Institute of Standards and Technology Gaithersburg, Maryland 20899-

November 20, 2008

Mr. Leslie Bai SIEMIC, Inc. 2206 Ringwood Avenue San Jose, CA 95131

Dear Mr. Bai:

NIST is pleased to inform you that your laboratory has been recognized by the Australian Communications and Media Authority (ACMA) under the Asia Pacific Economic Cooperation for Telecommunications Equipment Mutual Recognition Arrangement (APEC Tel MRA). Your laboratory is now designated to act as a Conformity Assessment Body (CAB) under Appendix B, **Phase I** Procedures, of the APEC Tel MRA. The pertinent information about your laboratory's designation is as follows:

CAB Name: Siemic, Inc. Physical Location: 2206 Ringwood Avenue, San Jose, CA 95131 Identification No.: US0160 EMC: AS/NZS 4251.1 (until 5/31/2009), AS/NZS 4251.2 (until 5/31/2009), Recognized Scope: AS/NZS CISPR 11, AS/NZS CISPR 14.1, AS/NZS CISPR 22, AS/NZS 61000.6.3, AS/NZS 61000.6.4 Radiocommunications: AS/NZS 4281, AS/NZS 4268, AS/NZS 4280.1, AS/NZS 4280.2, AS/NZS 4295, AS/NZS 4582, AS/NZS 4583, AS/NZS 4769.1, AS/NZS 4769.2, AS/NZS 4770, AS/NZS 4771 Telecommunications: AS/ACIF S002:05, AS/ACIF S003:06, AS/ACIF S004:06, AS/ACIF S006:01, AS/ACIF S016:01, AS/ACIF S031:01, AS/ACIF S038:01, AS/ACIF S040:01, AS/ACIF S041:05, AS/ACIF S043.2:06, AS/NZS 60950.1

You may submit test data to ACMA to verify that the equipment to be imported into Australia satisfies the applicable requirements. The designation of your organization will remain in force as long as its accreditation for the designated scope remains valid and comply with the designation requirements. Recognized CABs are listed on the NIST website at http://ts.nist.gov/mra. Please contact Ms. Ramona Saar, at (301) 975-5521 or ramona.saar@nist.gov if you have questions.

Sincerely,

Daniel I. alder

David F. Alderman Group Leader, Standards Coordination and Conformity Group Standards Services Division

Enclosure

cc: Snell Leong, Siemic, Inc.; Ramona Saar, NIST





RF Test Report of Avery Dennison Retail Information Services LLC Model : 128921 FCC 15.247 2008 & RSS-210 Issue 7 : 2007
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SIEMIC ACREDITATION DETAILS: Korea CAB ID: US0160



UNITED STATES DEPARTMENT OF COMMERCE National Institute of Standards and Technology Gaithersburg, Maryland 20899

October 1, 2008

Mr. Leslie Bai SIEMIC, Inc. 2206 Ringwood Avenue San Jose, CA 95131

Dear Mr. Bai:

NIST is pleased to inform you that your laboratory has been recognized by the Radio Research Agency (RRA) Korea Communications Commission (KCC) under the Asia Pacific Economic Cooperation for Telecommunications Equipment Mutual Recognition Arrangement (APEC Tel MRA). Your laboratory is now designated to act as a Conformity Assessment Body (CAB) under Appendix B, **Phase I** Procedures, of the APEC Tel MRA. The pertinent information about your laboratory's designation is as follows:

CAB Name: Physical Location: Identification No.: Recognized Scope: SIEMIC, Inc.
2206 Ringwood Avenue, San Jose, CA 95131
US0160
EMI: KCC Notice 2008-39, RRL Notice 2008-3: CA Procedures for EMI KN22: Test Method for EMI
EMS: KCC Notice 2008-38, RRL Notice 2008-4: CA Procedures for EMS KN24, KN-61000-4-2, -4-3, -4-4, -4-5, -4-6, -4-8, -4-11: Test Method for EMS
Wireless: RRL Notice 2008-26, RRL Notice 2008-2, RRL Notice 2008-10, RRL Notice 2007-49, RRL Notice 2007-20, RRL Notice 2007-21, RRL Notice 2007-80, RRL Notice 2004-68
Wired: President Notice 20664, RRL Notice 2007-30, RRL Notice 2008-7 with attachments 1, 3, 5, 6
President Notice 20664, RRL Notice 2008-7 with attachment 4

You may submit test data to RRA/KCC to verify that the equipment to be imported into Korea satisfies the applicable requirements. The designation of your organization will remain in force as long as its accreditation for the designated scope remains valid and comply with the designation requirements.

Recognized CABs are listed on the NIST website at http://ts.nist.gov/mra. If you have any questions please contact Ramona Saar at (301) 975-5521 or ramona.saar@nist.gov.

Sincerely,

Paris In alde

David F. Alderman Group Leader, Standards Coordination and Conformity Group Standards Services Division

Enclosure

cc: Ramona Saar





Title

То

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SIEMIC ACREDITATION DETAILS: Taiwan BSMI Accreditation No. SL2-IN-E-1130R



UNITED STATES DEPARTMENT OF COMMERCE National Institute of Standards and Technology Gethersburg, Maryland 20889-

NISI

May 3, 2006

Mr. Leslie Bai SIEMIC Laboratories 2206 Ringwood Avenue San Jose, CA 95131

Dear Mr. Bai:

I am pleased to inform you that your laboratory has been recognized by the Chinese Taipei's Bureau of Standards, Metrology, and Inspection (BSMI) under the Asia Pacific Economic Cooperation (APEC) Mutual Recognition Arrangement (MRA). Your laboratory is now designated to act as a Conformity Assessment Body (CAB) under Appendix B, Phase I Procedures, of the APEC Tel MRA. You may submit test data to BSMI to verify that the equipment to be imported into Chinese Taipei satisfies the applicable requirements. The designated scope remains valid and comply with the designation requirements. The pertinent designation information is as follows:

- BSMI number:

SL2-IN-E-1130R (Must be applied to the test reports)

U.S Identification No: US0160

Score of Designation: CNS 13438

Authorized signatory: Mr. Leslie Bai

The names of all recognized CABs will be posted on the NIST website at http://ts.nist.gov/mra. If you have any questions, please contact Mr. Dhillon at 301-975-5521. We appreciate your continued interest in our international conformity assessment activities.

Sincerely,

12 accu Vana

David F. Alderman Group Leader, Standards Coordination and Conformity Group

ee: Jogindar Dhillon



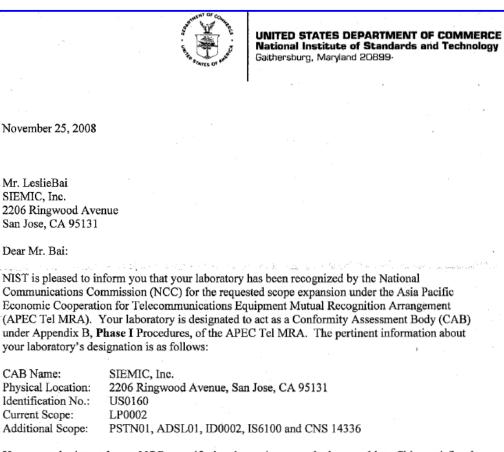
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SIEMIC ACREDITATION DETAILS: Taiwan NCC CAB ID: US0160



You may submit test data to NCC to verify that the equipment to be imported into China satisfies the applicable requirements. The designation of your organization will remain in force as long as its accreditation for the designated scope remains valid and comply with the designation requirements.

Recognized CABs are listed on the NIST website at http://ts.nist.gov/mra. If you have any questions please contact Ramona Saar at (301) 975-5521 or ramona.saar@nist.gov.

Sincerely,

Paris Z. alder

David F. Alderman Group Leader, Standards Coordination and Conformity Group Standards Services Division

Enclosure

cc: Ramona Saar





Title:

То

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SIEMIC ACREDITATION DETAILS: Mexico NOM Recognition

Laboratorio Valentín V. Rivero CANIE CAMARA NACIONAL BE LA INDUSTRIA ELECTRONICA, DE TELECOMUNICACIONES E INFORMATICA México D.F. a 16 de octubre de 2006. LESLIE BAI DIRECTOR OF CERTIFICATION SIEMIC LABORATORIES, INC. ACCESSING GLOBAL MARKETS PRESENTE En contestación a su escrito de fecha 5 de septiembre del año en curso, le comento que estamos muy interesados en su intención de firmar un Acuerdo de Reconocimiento Mutuo, para lo cual adjunto a este escrito encontrara el Acuardo en idioma ingles y español pretenado de los cuales le pido sea revisado y en su caso corregido, para que si esta de acuerdo poder firmarlo para mandarlo con las autoridades Mexicanas para su visto bueno y así poder ejercer dicho acuerdo. Aprovecho este escrito para mencionarle que nuestro intermediario gestor será la empresa Isatel de México. S. A. de C. V., empresa que ha colaborado durante mucho tiempo con nosotros en lo relacionado a la evaluación de la conformidad y que cuenta con amplia experiencia en la gestorla de la certificación de cumplimiento con Normas Oficiales Mexicanas de producto en México. Me despido de ustad enviêndole un cordial seludo y esperando sus comentarios al Acuerdo que nos scupa Atentamente 200 Ing. Faustino Borrez González Gerente Atenico del Laboratorio de GANIER. Cultanie 71 Hasterena Condesa Setto Maxim, D.F. 5254-0303 con 12 lineas Fax 5254-0488



SIEMIC, INC. Accessing global markets RF Test Report of Avery Dennison Retail Information Services LLC Model - 128921

FCC 15.247 2008 & RSS-210 Issue 7 : 2007

SIEMIC ACREDITATION DETAILS: Hong Kong OFTA CAB ID : US0160



UNITED STATES DEPARTMENT OF COMMERCE National Institute of Standards and Technology Gaithersburg, Maryland 20899-

December 8, 2008

Mr. Leslie Bai SIEMIC, Inc. 2206 Ringwood Avenue San Jose, CA 95131

Dear Mr. Bai:

NIST is pleased to inform you that your laboratory has been recognized by the Office of the Telecommunications Authority (OFTA) under the Asia Pacific Economic Cooperation for Telecommunications Equipment Mutual Recognition Arrangement (APEC Tel MRA). Your laboratory is now designated to act as a Conformity Assessment Body (CAB) under Appendix B, **Phase I** Procedures, of the APEC Tel MRA. The pertinent information about your laboratory's designation is as follows:

 CAB Name:
 SIEMIC, Inc.

 Physical Location:
 2206 Ringwood Avenue, San Jose, California 95131 USA

 Identification No.:
 US0160

 Recognized Scope:
 Radio: HKTA 1002, 1007, 1008, 1010, 1015, 1016, 1020, 1022, 1026, 1027, 1029, 1030, 1031, 1032, 1033, 1034, 1035, 1036, 1037, 1039, 1041, 1042, 1043, 1044, 1046, 1047, 1048, 1049, 1051

 Telecom: HKTA 2011, 2012, 2013, 2014, 2017, 2018, 2022, 2024, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033

You may submit test data to OFTA to verify that the equipment to be imported into Hong Kong satisfies the applicable requirements. The designation of your organization will remain in force as long as its accreditation for the designated scope remains valid and comply with the designation requirements.

Recognized CABs are listed on the NIST website at http://ts.nist.gov/mra. If you have any questions please contact Ramona Saar at (301) 975-5521 or ramona.saar@nist.gov.

Sincerely,

Pavid I. alden

David F. Alderman Group Leader, Standards Coordination and Conformity Group Standards Services Division

Enclosure

cc: Ramona Saar





Accessing global markets

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SIEMIC ACREDITATION DETAILS: Australia ACMA CAB ID: US0160



UNITED STATES DEPARTMENT OF COMMERCE National Institute of Standards and Technology Gaithersburg, Maryland 20899-

November 20, 2008

То

Mr. Leslie Bai SIEMIC, Inc. 2206 Ringwood Avenue San Jose, CA 95131

Dear Mr. Bai:

NIST is pleased to inform you that your laboratory has been recognized by the Australian Communications and Media Authority (ACMA) under the Asia Pacific Economic Cooperation for Telecommunications Equipment Mutual Recognition Arrangement (APEC Tel MRA). Your laboratory is now designated to act as a Conformity Assessment Body (CAB) under Appendix B, **Phase I** Procedures, of the APEC Tel MRA. The pertinent information about your laboratory's designation is as follows:

CAB Name: Siemic, Inc. Physical Location: 2206 Ringwood Avenue, San Jose, CA 95131 Identification No.: US0160 Recognized Scope: EMC: AS/NZS 4251.1 (until 5/31/2009), AS/NZS 4251.2 (until 5/31/2009), AS/NZS CISPR 11, AS/NZS CISPR 14.1, AS/NZS CISPR 22, AS/NZS 61000.6.3, AS/NZS 61000.6.4 Radiocommunications: AS/NZS 4281, AS/NZS 4268, AS/NZS 4280.1, AS/NZS 4280.2, AS/NZS 4295, AS/NZS 4582, AS/NZS 4583, AS/NZS 4769.1, AS/NZS 4769.2, AS/NZS 4770, AS/NZS 4771 Telecommunications: AS/ACIF S002:05, AS/ACIF S003:06, AS/ACIF S004:06, AS/ACIF S006:01, AS/ACIF S016:01, AS/ACIF S031:01, AS/ACIF S038:01, AS/ACIF S040:01, AS/ACIF S041:05, AS/ACIF S043.2:06, AS/NZS 60950.1

You may submit test data to ACMA to verify that the equipment to be imported into Australia satisfies the applicable requirements. The designation of your organization will remain in force as long as its accreditation for the designated scope remains valid and comply with the designation requirements. Recognized CABs are listed on the NIST website at http://ts.nist.gov/mra. Please contact Ms. Ramona Saar, at (301) 975-5521 or ramona.saar@nist.gov if you have questions.

Sincerely,

Daniel I. alder

David F. Alderman Group Leader, Standards Coordination and Conformity Group Standards Services Division

Enclosure

cc: Snell Leong, Siemic, Inc.; Ramona Saar, NIST



SIEMIC, INC. Accessing global markets

Title

То

RF Test Report of Avery Dennison Retail Informa

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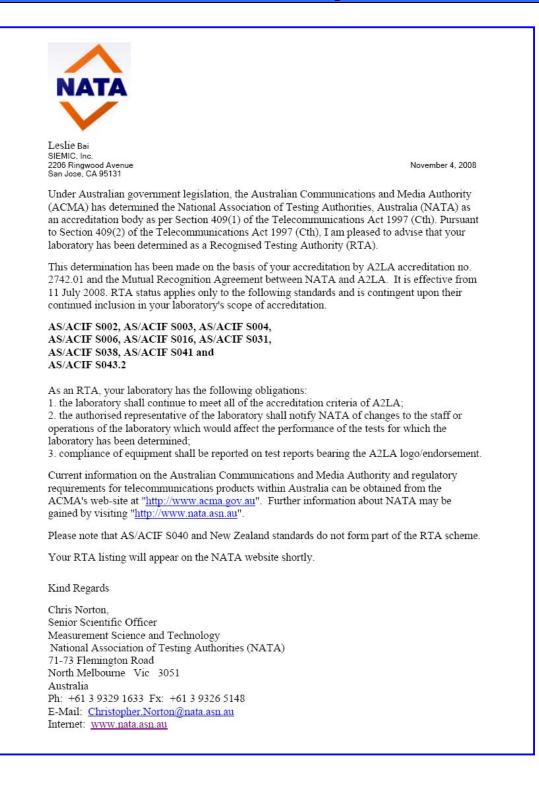
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SIEMIC ACREDITATION DETAILS: Australia NATA Recognition





SIEMIC, INC. Accessing global markets RF Test Report of Avery Dennison Retail Information Ser Model : 128921 FCC 15.247 2008 & RSS-210 Issue 7 : 2007

SIEMIC ACREDITATION DETAILS: VCCI Radiated Test Site Registration No. R-3083





Accessing global markets RF Test Report of Avery Dennison Retail Information Services LL Model : 128921 FCC 15.247 2008 & RSS-210 Issue 7 : 2007

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SIEMIC ACREDITATION DETAILS: VCCI Conducted (Main Port) Test Site Registration No. C-3421





Title

Accessing global markets RF Test Report of Avery Dennison Retail Information Services LL Model : 128921 FCC 15.247 2008 & RSS-210 Issue 7 : 2007

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SIEMIC ACREDITATION DETAILS: VCCI Conducted (Telecom Port) Test Site Registration No. T-1597

