

TEST REPORT

FROM



FOR

QI Systems, Inc.

SmartKit II System & Cash-to-Card System

Model: RMVD-U4 (SmartKit II) & CCRV-U4 (Cash-to-Card)

TO

47 CFR 15.225:2006

Test Report Serial No.:
SL07021502-QIS-001/HOST

This report supersedes None

Remarks: Equipment complied with the specification ☒ [X]
 Equipment did not comply with the specification ☐ []

This Test Report is Issued Under the Authority of:

A handwritten signature in black ink, appearing to read "Benjamin Jing".

.....
Tested by: Benjamin Jing, Test Engineer

A handwritten signature in blue ink, appearing to read "Kerwinn Corpuz".

.....
Reviewed by: Kerwinn Corpuz, EMC Lab Manager

Issue date: 13 April 2007
Manufacturer: QI Systems, Inc.



Registration No. 783147



Industry Canada
Industrie Canada

Registration No. 4842



Lab Code: KR0032



RTA No. D23/16V



Registration No. 2195



Lab Code: US 0160



CSMI Code: SL244-I-1000

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To: 47 CFR 15.225:2006

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Executive Summary

The purpose of this test programme was to demonstrate compliance of the QI Systems, Inc., SmartKit II System & Cash-to-Card System, model RMVD-U4 (SmartKit II) & CCRV-U4 (Cash-to-Card) against the current 47 CFR 15.225:2006. The SmartKit II System & Cash-to-Card System demonstrated compliance with the 47 CFR 15.225:2006.

QI Systems, Inc. is the applicant and claimed manufacturer of this tested product. For the detailed description of this product, please refer to the SmartKit II System & Cash-to-Card System User Manual.

The equipment under test operating frequency is 13.56 MHz.

Note 1: The power supply brick that was tested with the EUT (SmartKit II System) will not be marketed. It was used for testing purposes only. The DC cable is 1.45 meter long from the brick.

To comply with Radiated Emissions test at frequency of 36.11 MHz and 43.87 MHz, a ferrite (Fair-Rite, model: 0443164151) was installed onto DC cable with single turn.

Note 2: The SmartKit II System DC cable will be provided with a length of 0.8 meter and will be installed into another metal enclosure.

Note 3: To comply with Conducted Emissions Voltage test, the EUT (Cash-to-Card System) must have an LC Filter across each phase and neutral line. Its power supply must be vertical position and the power cord should hang down near the chassis base.

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



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1 Technical Details

Purpose	Compliance testing of SmartKit II System & Cash-to-Card System with 47 CFR 15.225:2006
Applicant / Client	QI Systems, Inc. 101-3820 Jacombs Road Richmond, BC V6V1Y6 Canada
Manufacturer	QI Systems, Inc.
Laboratory performing the tests	SIEMIC Labs 2206 Ringwood Avenue San Jose, CA 95131
Test location(s)	SIEMIC Labs 2206 Ringwood Avenue San Jose, CA 95131
Test report reference number	SL07021502-QIS-001/HOST
Date EUT received	29 March 2007
Standard applied	47 CFR 15.225:2006
Dates of test (from – to)	30 March 2007 to 12 April 2007
No of Units:	1 of each devices
Equipment Category:	DXX
Trade/Product Name:	SmartKit II & Cash-to-Card
Type/Model Name/No:	RMVD-U4 (SmartKit II) & CCRV-U4 (Cash-to-Card)
Technical Variants:	none
FCC ID No.	U4BM210-3G

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2 Tests Required

The product was tested in accordance with the following specifications.

The test results recorded in this Test Report are exclusively referred to the tested sample(s).

Test Standard		Description	Pass / Fail
47 CFR Part 15.225: 2006			
15.207(a)	Conducted Emissions Voltage		Pass
15.225(a)	Limit in the band of 13.553 – 13.567 MHz		Pass
15.225(b)	Limit in the band of 13.410 – 13.553 MHz and 13.567 – 13.710 MHz		Pass
15.225(c)	Limit in the band of 13.110 – 13.410 MHz and 13.710 – 14.010 MHz		Pass
15.225(d)	Limit outside the band of 13.110 – 14.010 MHz		Pass
15.209	Radiated Emission Limits		Pass
ANSI C63.4: 2003			

Notes: Deviations to above standards are outlined in specific test sections if applicable.

Cable loss and external attenuation are compensated for in the measurement system when applicable.



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3 Measurements, Examinations and Derived Results

3.1 General observations

Equipment serial number(s)		
Module:	Model number:	Serial number:
SmartKit II System & Cash-to-Card System	RMVD-U4 (SmartKit II) & CCRV-U4 (Cash-to-Card)	none



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3.2 Test Results

3.2.1 Conducted Emissions Voltage

Requirement(s): 47 CFR §15.207

Procedures:

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. The power supply for the EUT was fed through a 50Ω/50μH EUT LISN, connected to filtered mains. The RF OUT of the EUT LISN was connected to the EMI test receiver via a low-loss coaxial cable. All other supporting equipment were powered separately from another mains.

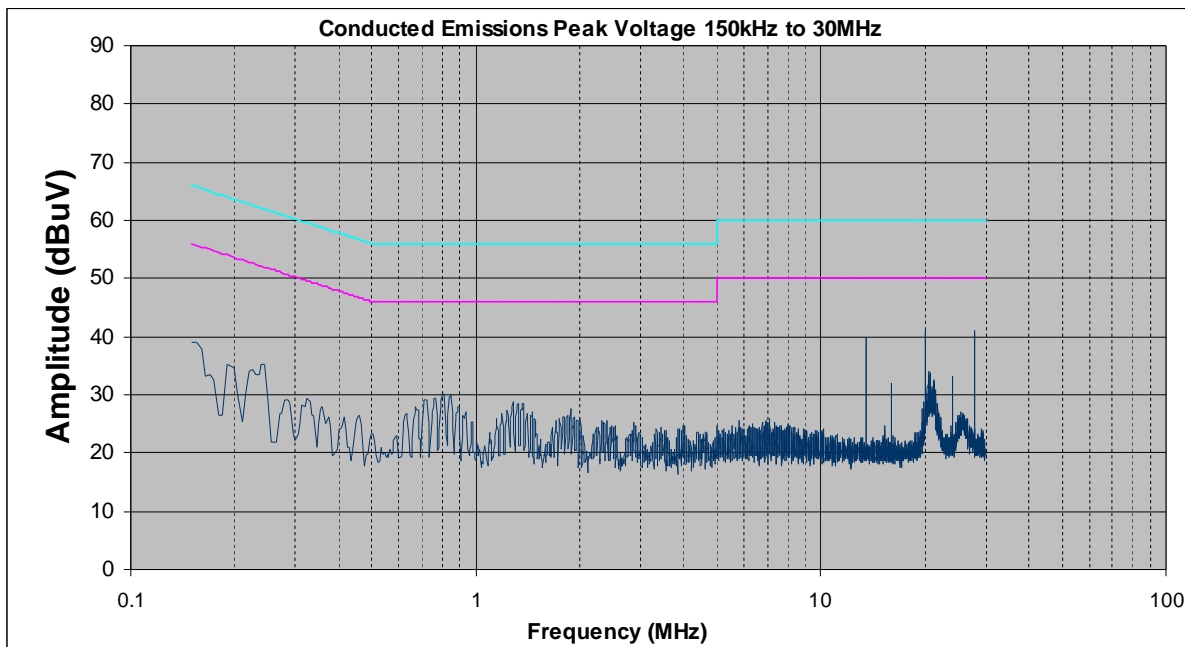
The EUT was switched on and allowed to warm up to its normal operating condition. A scan was made on the NEUTRAL line over the required frequency range using an EMI test receiver. High peaks, relative to the limit line, were then selected. The EMI test receiver was then tuned to the selected frequencies and the necessary measurements made with a receiver bandwidth setting of 10kHz. Quasi-peak and Average measurements were made. The procedure was then repeated for the PHASE line.

Results: with SmartKit II System

Note –

Quasi-Peak Limit

Average Limit



Neutral Line Plot at 120Vac, 60Hz

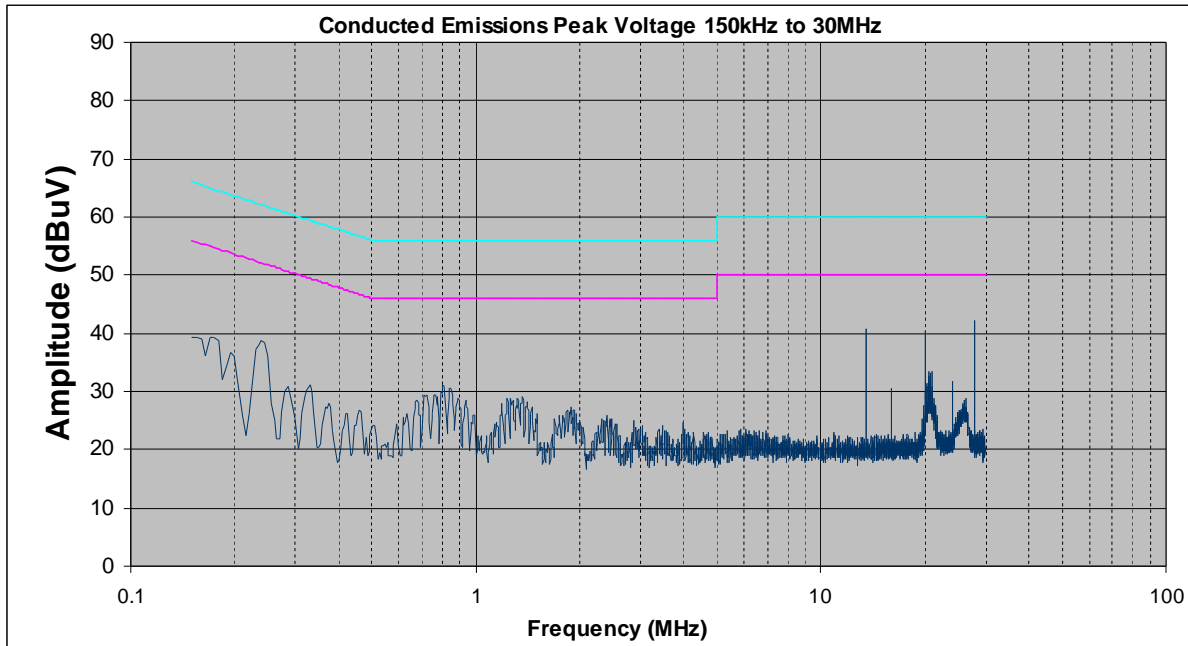


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Phase Line Plot at 120Vac, 60Hz

LINE	FREQ (MHz)	Corrected Amplitude (dBuV) PK	Limit (dBuV) QP	Margin (dB) QP	Corrected Amplitude (dBuV) PK	Limit (dBuV) AVG	Margin (dB) AVG
Neutral	13.56	39.8	60	-20.2	39.8	50	-10.2
Neutral	20	41.1	60	-18.9	41.1	50	-8.9
Neutral	28	41	60	-19	41	50	-9
Phase	13.56	40.9	60	-19.1	40.9	50	-9.1
Phase	20	40.4	60	-19.6	40.4	50	-9.6
Phase	28	41.6	60	-18.4	41.6	50	-8.4

Conducted Emission Table

Note: PK = peak; QP = quasi-peak; AVG = average detector.

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Date Tested: 03 April 2007



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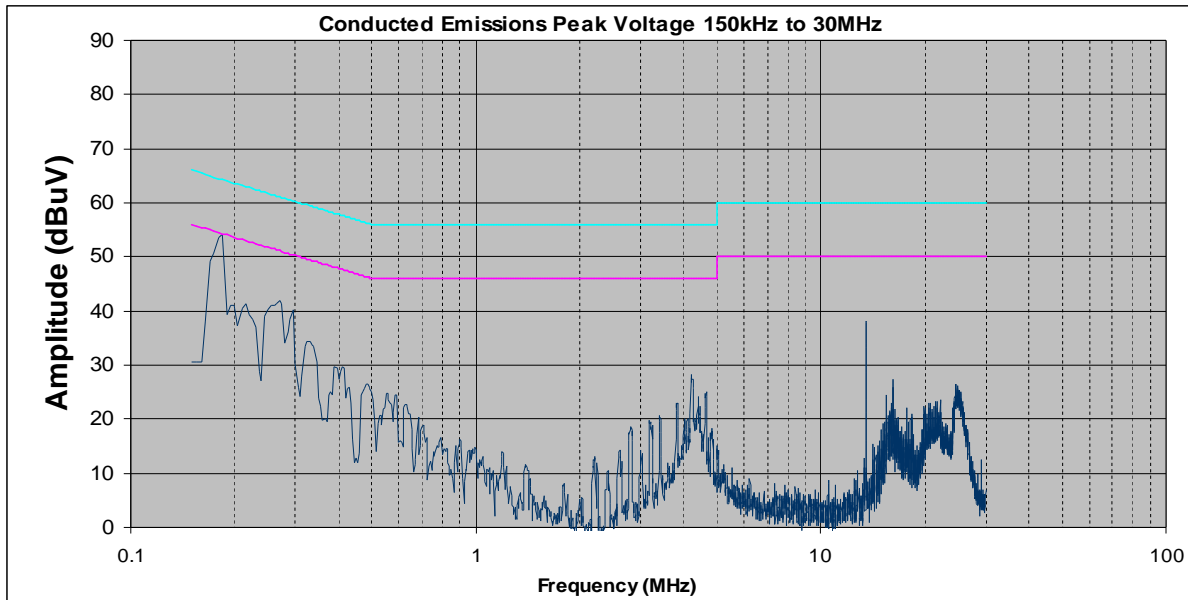
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Results: with Cash-to-Card System

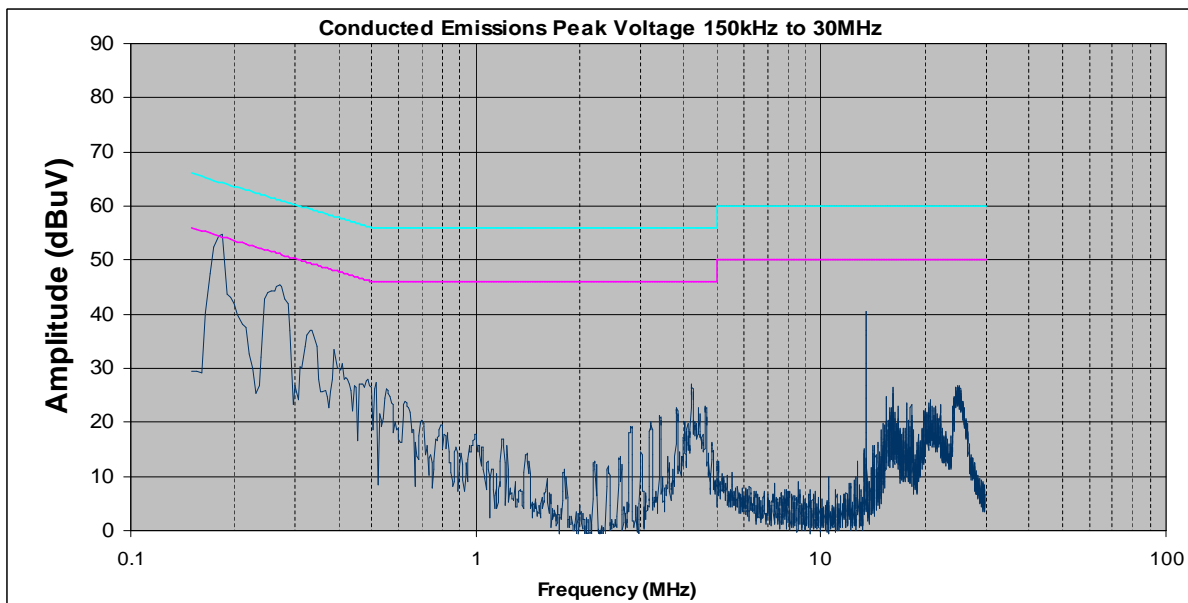
Note –

Quasi-Peak Limit

Average Limit



Neutral Line Plot at 120Vac, 60Hz



Phase Line Plot at 120Vac, 60Hz

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LINE	FREQ (MHz)	Corrected Amplitude (dBμV) QP	Limit (dBμV) QP	Margin (dB) QP	Corrected Amplitude (dBμV) AVG	Limit (dBμV) AVG	Margin (dB) AVG
Neutral	0.2	48.3	63.61	-15.31	41	53.61	-12.61
Neutral	0.285	38	60.67	-22.67	29	50.67	-21.67
Neutral	13.56	36.8	60	-23.2	36.8	50	-13.2
Phase	0.201	49.2	63.57	-14.37	38.6	53.57	-14.97
Phase	0.285	41.9	60.67	-18.77	32.8	50.67	-17.87
Phase	13.56	39.7	60	-20.3	39.7	50	-10.3

Conducted Emission Table

Note: PK = peak; QP = quasi-peak; AVG = average detector.

Tested By: Benjamin Jing

Date Tested: 12 April 2007

3.2.2 Radiated Emissions within the Band of 13.110 – 14.010 MHz

Requirement(s): 47 CFR §15.225(a) – (c)

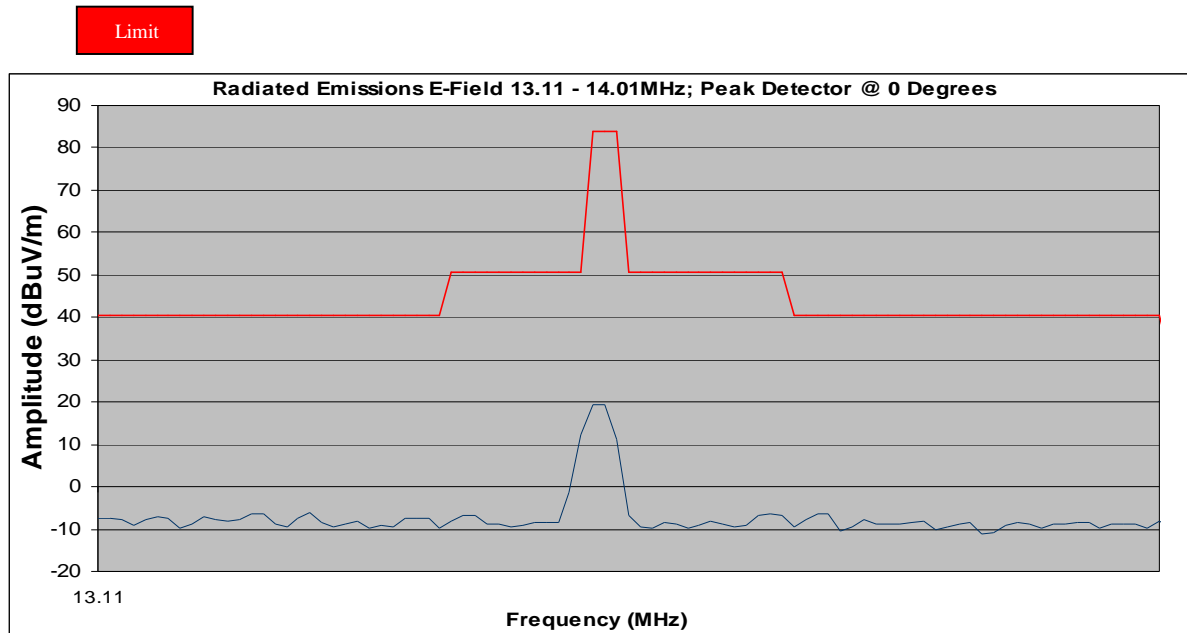
Procedures: Radiated emissions were measured according to ANSI C63.4. The EUT was set to transmit at the highest output power. The EUT was set 3 meter away from the measuring antenna. The loop antenna was positioned 1 meter above the ground from the center of the loop. The measuring bandwidth was set to 10 kHz.

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

Distance Correction Factor was calculated with 40 dB/decade.

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

Results: Loop Antenna Positioned at 0 degrees with SmartKit II System



Frequency	Raw Amplitude @ 3m	Antenna Factor	Cable Loss	Distance Correction Factor	Corrected Amplitude @ 3m	Limit @ 30m	Margin	Detector
(MHz)	(dBμV/m)	(dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dBμV/m)	PK/QP/AVG
13.56	23.6	35.62	0.28	40	19.5	84	-64.5	PK

Radiated Emissions Table

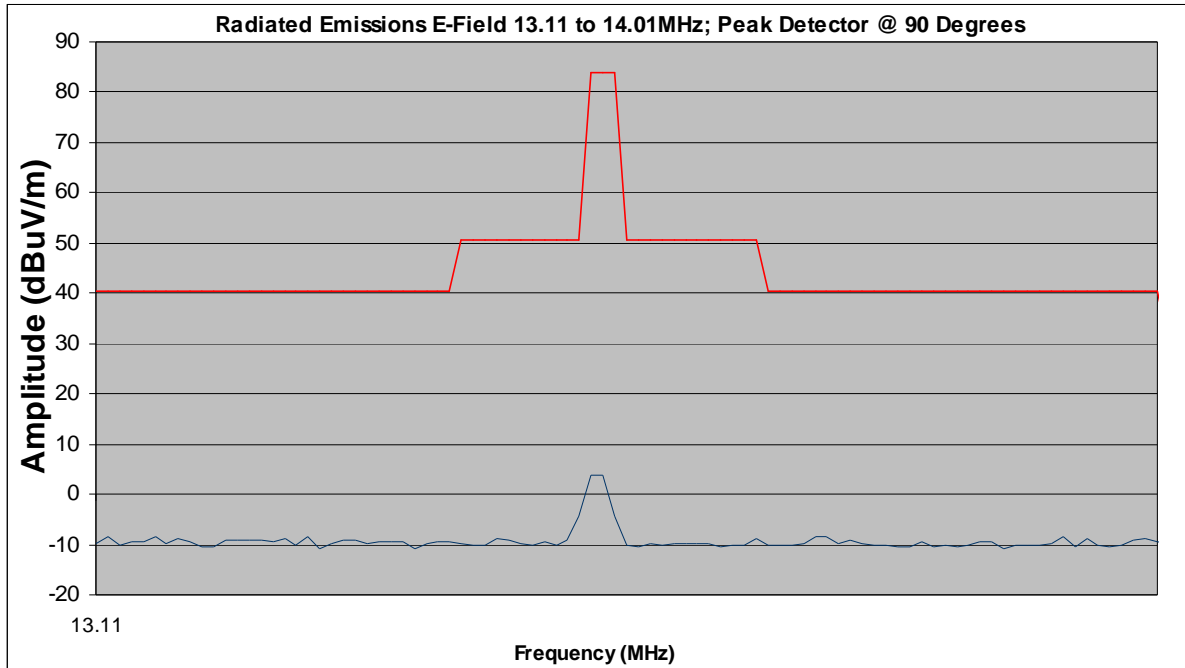
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Results: Loop Antenna Positioned at 90 degrees with SmartKit II System

Limit



Radiated Emissions Plot

Frequency	Raw Amplitude @ 3m	Antenna Factor	Cable Loss	Distance Correction Factor	Corrected Amplitude @ 3m	Limit @ 30m	Margin	Detector
(MHz)	(dBμV/m)	(dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dBμV/m)	PK/QP/AVG
13.56	7.9	35.62	0.28	40	3.8	84	-80.2	PK

Radiated Emissions Table

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Date Tested: 2 April 2007



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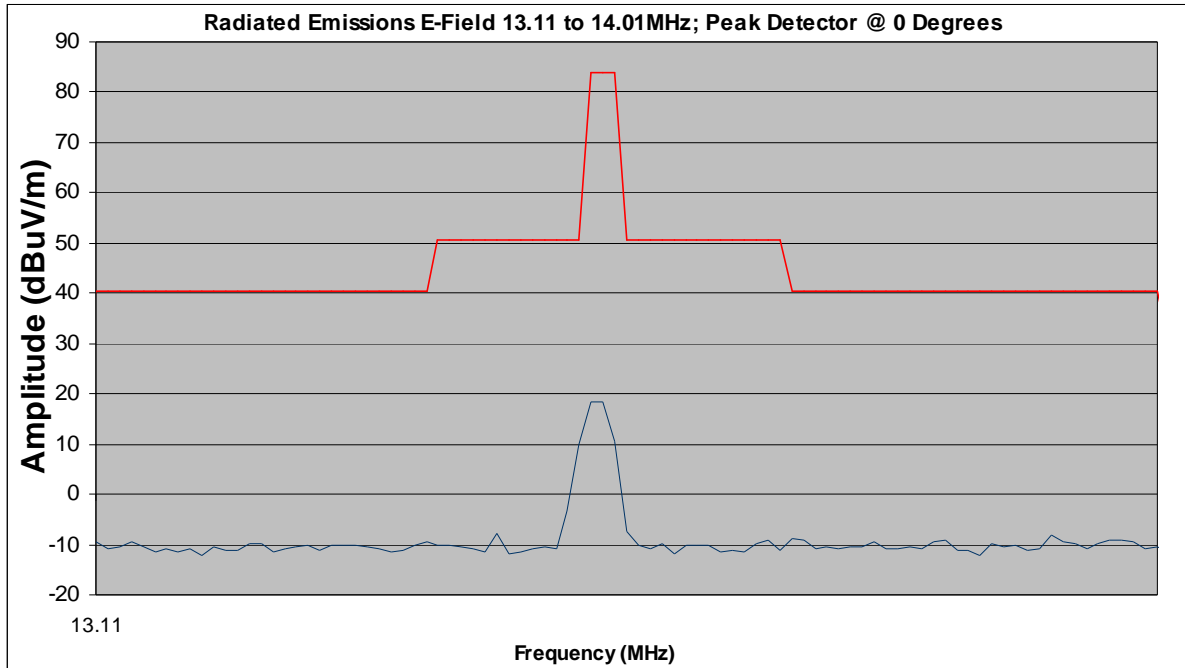
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Results: Loop Antenna Positioned at 0 degrees with Cash-to-Card System

Limit



Radiated Emissions Plot

Frequency	Raw Amplitude @ 3m	Antenna Factor	Cable Loss	Distance Correction Factor	Corrected Amplitude @ 3m	Limit @ 30m	Margin	Detector
(MHz)	(dBμV/m)	(dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dBμV/m)	PK/QP/AVG
13.56	22.6	35.62	0.28	40	18.5	84	-65.5	PK

Radiated Emissions Table



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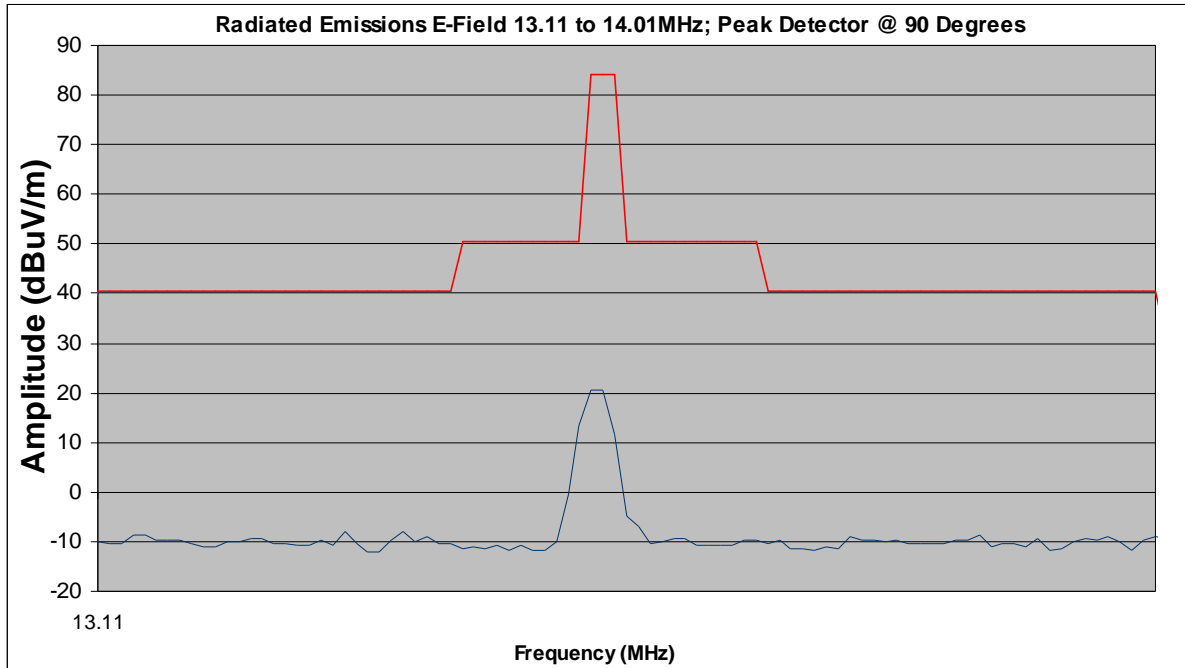
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Loop Antenna Positioned at 90 degrees with Cash-to-Card System

Limit



Radiated Emissions Plot

Frequency	Raw Amplitude @ 3m	Antenna Factor	Cable Loss	Distance Correction Factor	Corrected Amplitude @ 3m	Limit @ 30m	Margin	Detector
(MHz)	(dBμV/m)	(dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dBμV/m)	PK/QP/AVG
13.56	24.7	35.62	0.28	40	20.6	84	-63.4	PK

Radiated Emissions Table

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3.2.3 Radiated Emissions < 30 MHz (outside 13.110 – 14.010 MHz)

Requirement(s): 47 CFR §15.209; 47 CFR §15.225(d)

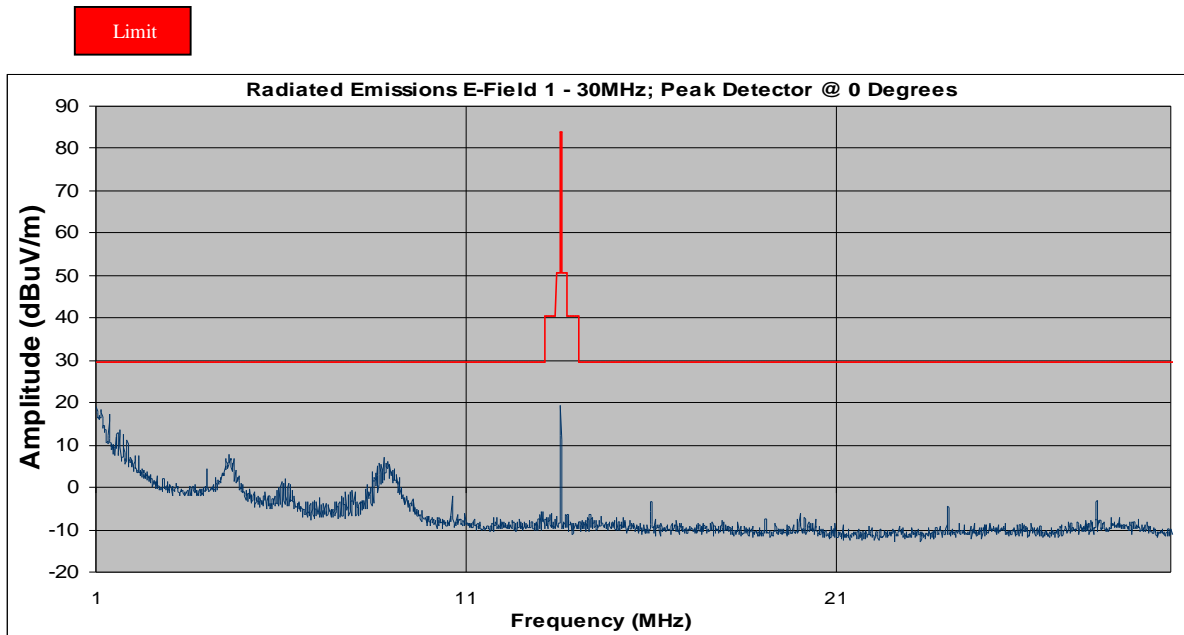
Procedures: Radiated emissions were measured according to ANSI C63.4. The EUT was set to transmit at the highest output power. The EUT was set 3 meter away from the measuring antenna. The loop antenna was positioned 1 meter above the ground from the center of the loop. The measuring bandwidth was set to 10 kHz.

Distance Correction Factor was calculated with 40 dB/decade.

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

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

Results: Loop Antenna Positioned at 0 degrees with SmartKit II System



Radiated Emissions Plot

Frequency	Raw Amplitude @ 3m	Antenna Factor	Cable Loss	Distance Correction Factor	Corrected Amplitude @ 3m	Limit @ 30m	Margin	Detector
(MHz)	(dBμV/m)	(dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dBμV/m)	PK/QP/AVG
1.16	-2.2	59.76	0.25	40	17.81	20.67	-2.86	PK
4.71	3.8	42.81	0.25	40	6.86	29.54	-22.68	PK

Radiated Emissions Table



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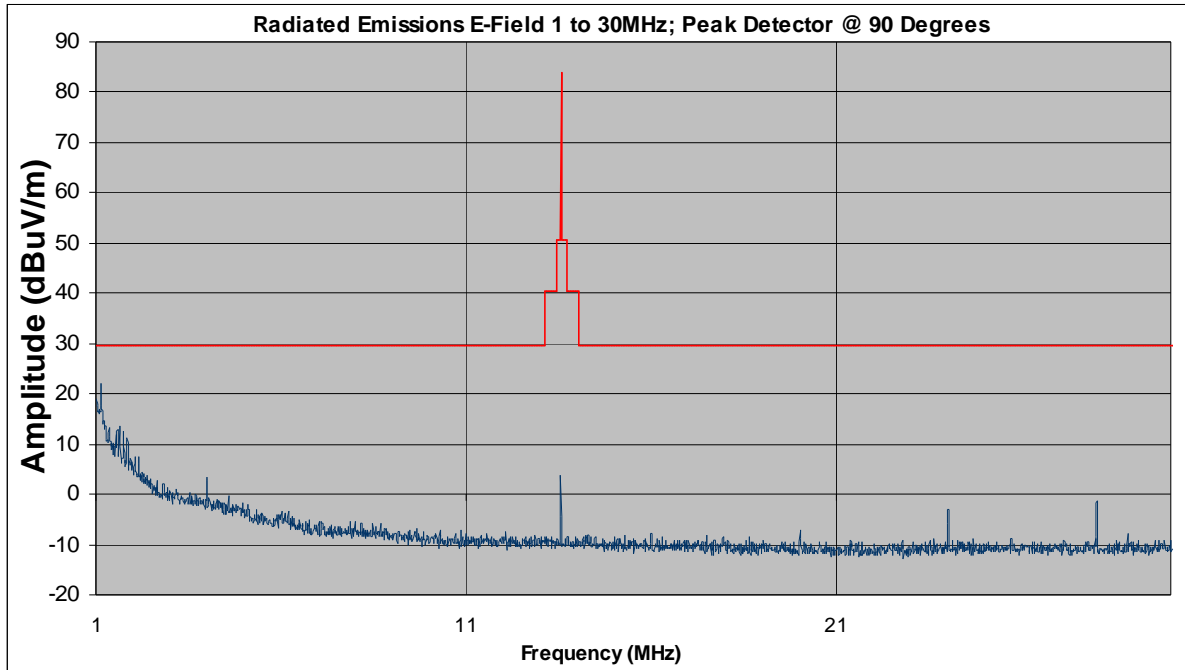
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Results: Loop Antenna Positioned at 90 degrees with SmartKit II System

Limit



Radiated Emissions Plot

Frequency	Raw Amplitude @ 3m	Antenna Factor	Cable Loss	Distance Correction Factor	Corrected Amplitude @ 3m	Limit @ 30m	Margin	Detector
(MHz)	(dBμV/m)	(dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dBμV/m)	PK/QP/AVG
1.16	-3	59.76	0.25	40	17.01	20.67	-3.66	PK
1.74	0.2	51.94	0.28	40	12.42	29.54	-17.12	PK

Radiated Emissions Table



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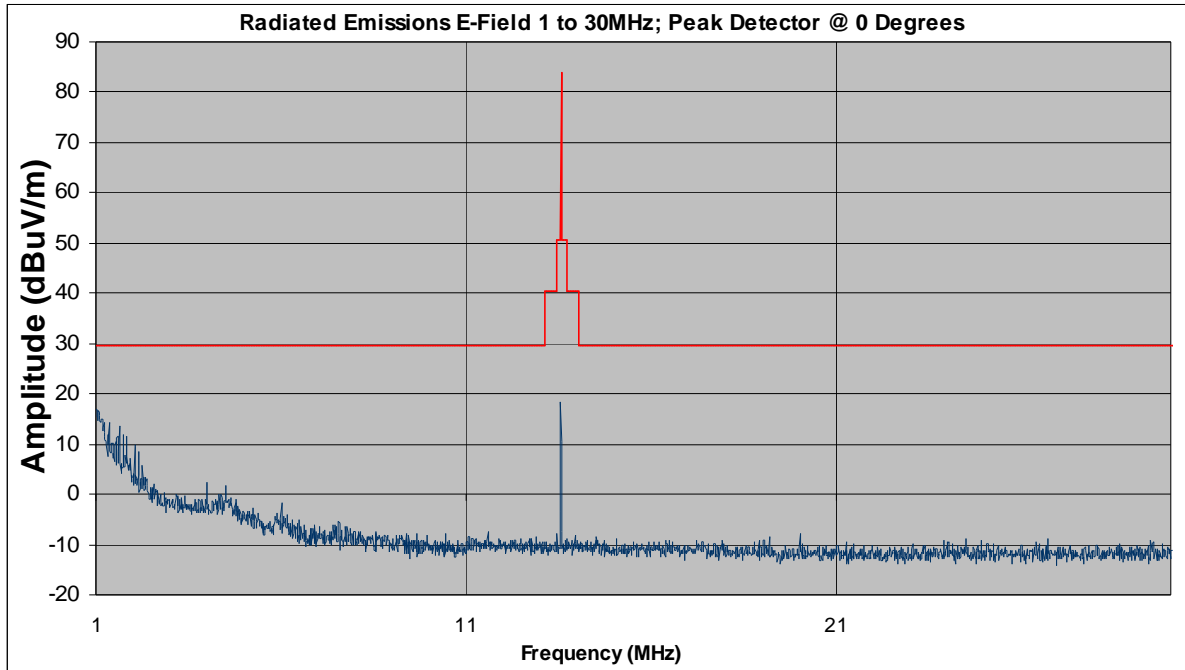
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Results: Loop Antenna Positioned at 0 degrees with Cash-to-Card System

Limit



Radiated Emissions Plot

Frequency	Raw Amplitude @ 3m	Antenna Factor	Cable Loss	Distance Correction Factor	Corrected Amplitude @ 3m	Limit @ 30m	Margin	Detector
(MHz)	(dBμV/m)	(dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dBμV/m)	PK/QP/AVG
1.02	-6.2	63.01	0.24	40	17.05	23.53	-6.48	PK

Radiated Emissions Table



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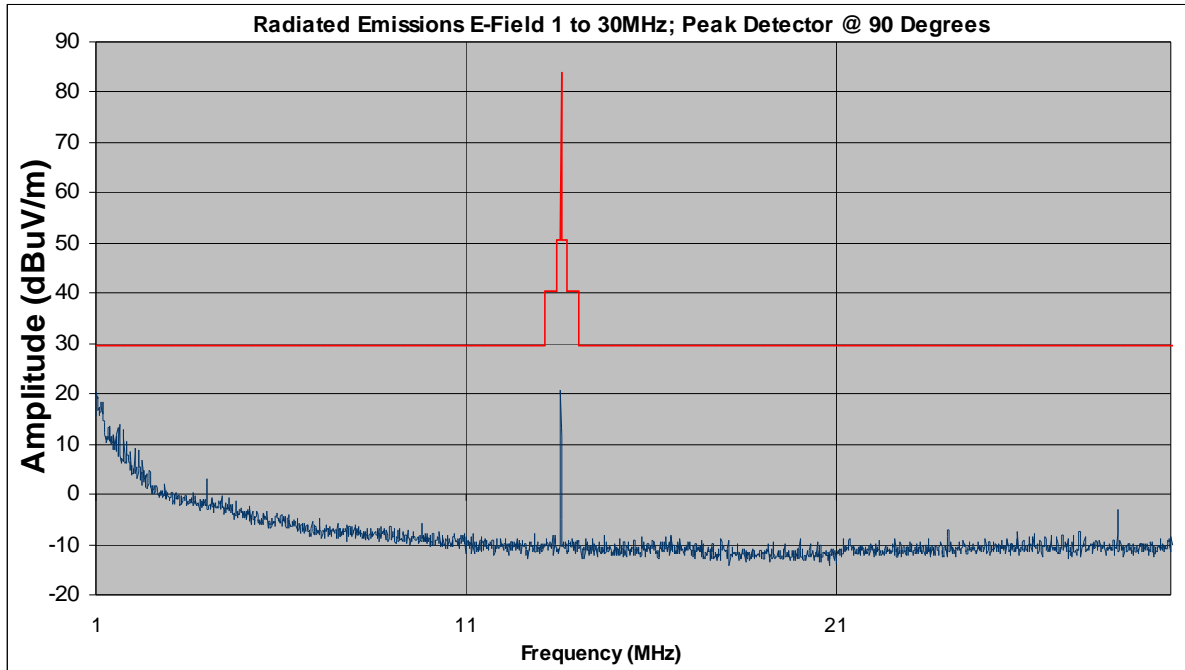
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Results: Loop Antenna Positioned at 90 degrees with Cash-to-Card System

Limit



Radiated Emissions Plot

Frequency	Raw Amplitude @ 3m	Antenna Factor	Cable Loss	Distance Correction Factor	Corrected Amplitude @ 3m	Limit @ 30m	Margin	Detector
(MHz)	(dBμV/m)	(dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dBμV/m)	PK/QP/AVG
1.02	-2.8	63.01	0.24	40	20.45	23.53	-3.08	PK

Radiated Emissions Table

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3.2.4 Radiated Emissions > 30 MHz

Requirement(s): 47 CFR §15.209; 47 CFR §15.225(d)

Procedures: Radiated emissions were measured according to ANSI C63.4. The EUT was set to transmit at the highest output power.

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

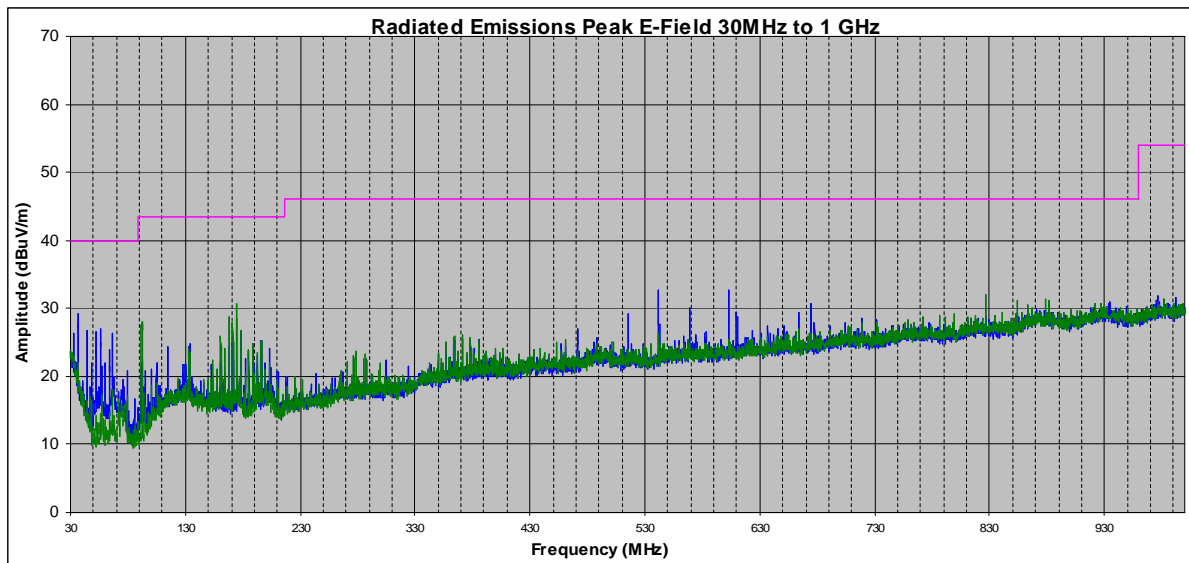
Sample Calculation: Corrected Amplitude = Raw Amplitude(dBuV/m) + ACF(dB) + Cable Loss(dB)

Results: with SmartKit II System

Vertical Polarization

Horizontal Polarization

Limit



Radiated Emissions Plot

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Frequency	Azimuth	Detector	Antenna Polarization	Antenna Height	Raw Amplitude @ 3m	Antenna Factor	Cable Loss	Corrected Amplitude @ 3m	Limit @ 3m	Margin
(MHz)	(degrees)	(qp/pk)	(H/V)	(m)	(dBμV/m)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dBμV/m)
32.134	0	PK	V	1	6.2	19.48	0.71	26.39	40	-13.61
36.111	355	PK	V	1	12.4	16.11	0.72	29.23	40	-10.77
43.871	343	PK	V	1	16.6	9.43	0.74	26.77	40	-13.23
52.116	350	PK	V	1	18.7	7.1	0.76	26.56	40	-13.44
56.093	345	PK	V	1	18.7	7.62	0.77	27.09	40	-12.91
66.76	347	PK	V	1	16.2	9.22	0.81	26.23	40	-13.77

Radiated Emissions Table

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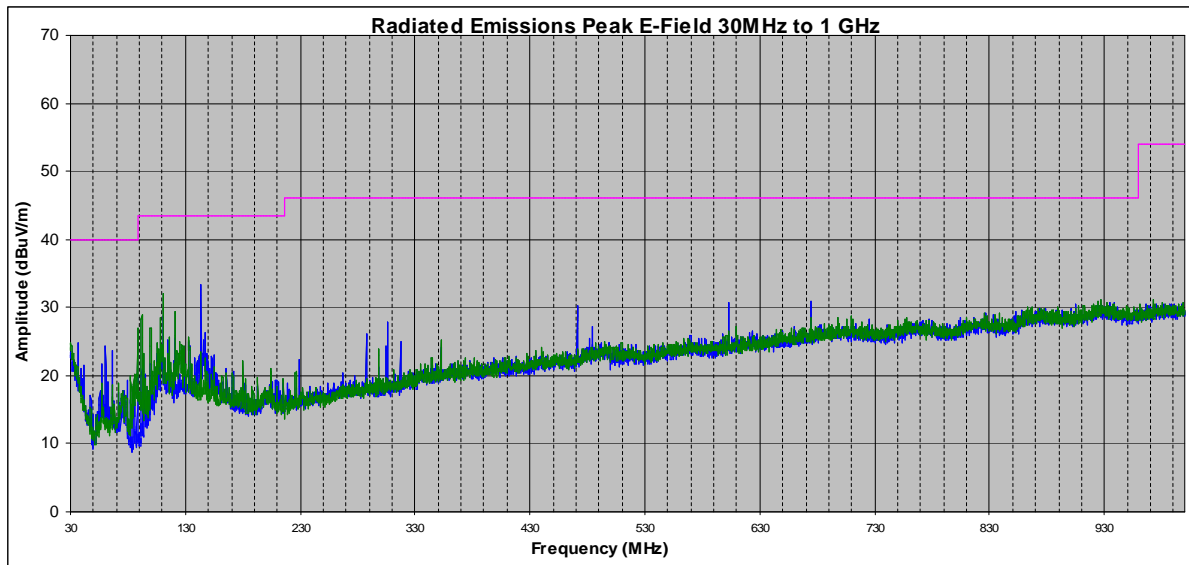
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Results: with Card-to-Cash System

Vertical Polarization

Horizontal Polarization

Limit

**Radiated Emissions Plot**

Frequency	Azimuth	Detector	Antenna Polarization	Antenna Height	Raw Amplitude @ 3m	Antenna Factor	Cable Loss	Corrected Amplitude @ 3m	Limit @ 3m	Margin
(MHz)	(degrees)	(qp/pk)	(H/V)	(m)	(dBμV/m)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dBμV/m)
60.55	350	PK	V	1	14.9	8.67	0.79	24.35	40	-15.65
143.58	30	PK	V	1	18.4	13.91	0.94	33.26	43.5	-10.24
88.1	45	PK	H	2.1	18.1	7.96	0.87	26.93	43.5	-16.57
91.88	60	PK	H	1.98	19.7	8.38	0.88	28.95	43.5	-14.55
110.61	72	PK	H	1.88	18.2	12.9	0.91	32	43.5	-11.5
121.37	135	PK	H	1.8	14.2	14.18	0.92	29.3	43.5	-14.2

Radiated Emissions Table**Tested By: Benjamin Jing****Date Tested: 12 April 2007**

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4 TEST INSTRUMENTATION

4.1 TEST INSTRUMENTATION

Instrument	Manufacturer	Model	CAL Due Date
Spectrum Analyzer	HP	8568B	04/26/2007
Quasi-Peak Adapter	HP	85650A	04/26/2007
RF Pre-Selector	HP	85685A	04/26/2007
Spectrum Analyzer	HP	8564E	05/01/2007
Biconlog Antenna	Sunol Sciences, Inc.	JB1	09/11/2007
Loop Antenna	ETS-Lingren	6512	05/13/2008
Near Field Probe	Chase	MFP9150	See Note
Chamber	Lingren	3m	08/21/2007
DMM	Fluke	73III	07/04/2007
Variac	KRM	AEEC-2090	See Note
Environment Chamber	TestEquity	1007H	01/24/2009
DMM	Fluke	73III	05/01/2007

Note: Functional Verification

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APPENDIX A: EUT TEST CONDITIONS

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

Equipment Description (Including Brand Name)	Cable Description
SmartKit II System & Cash-to-Card System	1. DC power

EUT Description	: SmartKit II System & Cash-to-Card System
Model No	: RMVD-U4 (SmartKit II) & CCRV-U4 (Cash-to-Card)
Serial No	: none

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

Test	Description Of Operation
	The EUT was set to enter test mode automatically when powered.



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APPENDIX B: EXTERNAL PHOTOS

See Attachment



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APPENDIX C: CIRCUIT/BLOCK DIAGRAMS

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APPENDIX D: INTERNAL PHOTOS

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APPENDIX E: PRODUCT DESCRIPTION

Detail description of this product is shown in the User's Guide.



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APPENDIX F: FCC LABEL LOCATION

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APPENDIX G: USER MANUAL

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