



TEST REPORT FROM RFI GLOBAL SERVICES LTD

Test of: Paxton Access Ltd Net2 Access Control System Compact Access Control System

To: FCC Parts 15.109, 15.207, 15.209, 2.1049

Test Report Serial No: RFI/RPTE2/RP49217JD01A

Supersedes Test Report Serial No: RFI/RPTE1/RP49217JD01A

This Test Report Is Issued Under The Authority Of Michael Derby, Wireless Radio Performance Group Leader: p.p					
Tested By: Petr Hajek	Checked By: Michael Derby				
Mr He	p.p				
Report Copy No: PDF01					
Issue Date: 23 May 2007	Test Dates: 04 May 2007 to 08 May 2007				

This report is issued in Adobe Acrobat portable document format (PDF). It is only a valid copy of the report if it is being viewed in PDF format with the following security options not allowed: Changing the document, Selecting text and graphics, Adding or changing notes and form fields. Furthermore, the date of creation must match the issue date stated above.

This report may be copied in full. The results in this report apply only to the sample(s) tested.

RFI Global Services Ltd

Pavilion A, Ashwood Park, Ashwood Way, Basingstoke, Hampshire RG23 8BG Telephone: +44 (0)1256 312000 Facsimile: +44 (0)1256 312001 Email: info@rfi-global.com Website: www.rfi-global.com

TEST REPORT

S.No. RFI/RPTE2/RP49217JD01A

Page: 2 of 29

Issue Date: 23 May 2007

Test of: Paxton Access Ltd

Net2 Access Control System Compact Access Control System

To: FCC Parts 15.109, 15.207, 15.209, 2.1049

This page has been left intentionally blank.

TEST REPORT

S.No. RFI/RPTE2/RP49217JD01A

Page: 3 of 29

Issue Date: 23 May 2007

Test of: Paxton Access Ltd

Net2 Access Control System
Compact Access Control System

To: FCC Parts 15.109, 15.207, 15.209, 2.1049

Table of Contents

1. Client Information	4
2. Equipment Under Test (EUT)	5
3. Test Specification, Methods and Procedures	10
4. Deviations from the Test Specification	11
5. Operation of the EUT During Testing	12
6. Summary of Test Results	13
7. Measurements, Examinations and Derived Results	14
8. Measurement Uncertainty	22
9. Measurement Methods	23
Appendix 1. Test Equipment Used	26
Appendix 2. Test Configuration Drawings	27

TEST REPORT

S.No. RFI/RPTE2/RP49217JD01A

Page: 4 of 29

Issue Date: 23 May 2007

Test of: Paxton Access Ltd

Net2 Access Control System Compact Access Control System

To: FCC Parts 15.109, 15.207, 15.209, 2.1049

1. Client Information

Company Name:	Paxton Access Ltd		
Address:	Paxton House Home Farm Brighton BN1 9HU UK		
Contact Name:	Mr B Glass		

S.No. RFI/RPTE2/RP49217JD01A

Page: 5 of 29

Issue Date: 23 May 2007

Test of: Paxton Access Ltd

Net2 Access Control System Compact Access Control System

To: FCC Parts 15.109, 15.207, 15.209, 2.1049

2. Equipment Under Test (EUT)

The following information (with the exception of the Date of Receipt) has been supplied by the client:

2.1. Identification of Equipment Under Test (EUT)

Description:	Proximity P200 Reader
Brand Name:	Paxton Access
Model Name or Number:	Z99-ux20
Serial Number:	None stated
Hardware Version Number:	z-px75 Rev.8, ppc-mr75 Rev.B
FCC ID:	USE323110
Country of Manufacture:	UK
Date of Receipt:	04 May 2007

Description:	Proximity KP75 Keypad	
Brand Name:	Paxton Access	
Model Name or Number:	Z99-up75	
Serial Number:	None Stated	
Hardware Version Number:	z-kp75 Rev.5, ppc-mr75 Rev.B	
FCC ID:	USE323110	
Country of Manufacture:	UK	
Date of Receipt:	04 May 2007	

TEST REPORT

S.No. RFI/RPTE2/RP49217JD01A

Page: 6 of 29

Issue Date: 23 May 2007

Test of: Paxton Access Ltd

Net2 Access Control System Compact Access Control System

To: FCC Parts 15.109, 15.207, 15.209, 2.1049

Identification of Equipment Under Test (EUT) (Continued)

Description:	E75 Exit Button
Brand Name:	Paxton Access
Model Name or Number:	Z99-ex75
Serial Number:	None Stated
Hardware Version Number:	z-eb75 Rev.3, ppc-eb75 Rev.C
Country of Manufacture:	UK
Date of Receipt:	04 May 2007

Description:	Net2 1 door ACU with 2A PSU in plastic cabinet	
Brand Name:	Paxton Access	
Model Name or Number:	411-501-US	
Serial Number:	None Stated	
Cable Length and Type:	5m, Reader Signal Cable	
Connected to Port:	ACU Reader Port to Reader	

TEST REPORT

S.No. RFI/RPTE2/RP49217JD01A

Page: 7 of 29

Issue Date: 23 May 2007

Test of: Paxton Access Ltd

Net2 Access Control System Compact Access Control System

To: FCC Parts 15.109, 15.207, 15.209, 2.1049

2.2. Accessories

No accessories were supplied with the EUT.

2.3. Description of EUT

The equipment under test is:

Access Control Equipment.

2.4. Modifications Incorporated in the EUT

During the course of testing the EUT was not modified.

TEST REPORT

S.No. RFI/RPTE2/RP49217JD01A

Page: 8 of 29

Issue Date: 23 May 2007

Test of: Paxton Access Ltd

Net2 Access Control System Compact Access Control System

To: FCC Parts 15.109, 15.207, 15.209, 2.1049

2.5. Additional Information Related to Testing

Power Supply Requirement:	12 V DC		
Intended Operating Environment:	Residential Commercial Light Industry Heavy Industry		
Equipment Category:	Short Range Devi	ce	
Type of Unit:	Base Station (Fixed Use) Transceiver		
Transmit Frequency:	125 kHz		
Transmit Channels Tested:	Channel ID	Channel Number	Channel Frequency (kHz)
	Single Channel	-	125
Receive Frequency:	125 kHz		
Receive Channels Tested:	Channel ID	Channel Number	Channel Frequency (kHz)
	Single Channel	-	125
Highest Unintentionally Generated Frequency:	Not stated		
Highest Fundamental Frequency:	125 kHz		
Occupied Bandwidth:	Not stated		

TEST REPORT

S.No. RFI/RPTE2/RP49217JD01A

Page: 9 of 29

Issue Date: 23 May 2007

Test of: Paxton Access Ltd

Net2 Access Control System Compact Access Control System

To: FCC Parts 15.109, 15.207, 15.209, 2.1049

2.6. Support Equipment

No support equipment was used to exercise the EUT during testing.

TEST REPORT

S.No. RFI/RPTE2/RP49217JD01A

Page: 10 of 29

Issue Date: 23 May 2007

Test of: Paxton Access Ltd

Net2 Access Control System Compact Access Control System

To: FCC Parts 15.109, 15.207, 15.209, 2.1049

3. Test Specification, Methods and Procedures

3.1. Test Specifications

Reference:	FCC Part 15 Subpart B: 2006 (Sections 15.109, 15.207 and 15.209).
Title:	Code of Federal Regulations, Part 15 (47CFR215) Radio Frequency Devices.

3.2. Methods and Procedures

The methods and procedures used were as detailed in:

ANSI C63.2 (1987)

Title: American National Standard for Instrumentation - Electromagnetic noise and field strength.

ANSI C63.4 (2001)

Title: American National Standard Methods of Measurement of Electromagnetic Emissions from Low Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz.

ANSI C63.5 (1988)

Title: American National Standard for the Calibration of antennas used for Radiated Emission measurements in Electromagnetic Interference (EMI) control.

ANSI C63.7 (1988)

Title: American National Standard Guide for Construction of Open Area Test Sites for performing Radiated Emission Measurements.

CISPR 16-1: (1999)

Title: Specification For Radio Disturbance and Immunity Measuring Apparatus and Methods. Part 1: Radio Disturbance and Immunity Measuring Apparatus.

3.3. Definition of Measurement Equipment

The measurement equipment used complied with the requirements of the standards referenced in the Methods & Procedures section above. Appendix 1 contains a list of the test equipment used.

TEST REPORT

S.No. RFI/RPTE2/RP49217JD01A

Page: 11 of 29

Issue Date: 23 May 2007

Test of: Paxton Access Ltd

Net2 Access Control System Compact Access Control System

To: FCC Parts 15.109, 15.207, 15.209, 2.1049

4. Deviations from the Test Specification

There were no deviations from the test specification.

TEST REPORT

S.No. RFI/RPTE2/RP49217JD01A

Page: 12 of 29

Issue Date: 23 May 2007

Test of: Paxton Access Ltd

Net2 Access Control System Compact Access Control System

To: FCC Parts 15.109, 15.207, 15.209, 2.1049

5. Operation of the EUT During Testing

5.1. Operating Modes

The EUT was tested in the following operating mode, unless otherwise stated:

Transmitting 125 kHz field, continuous.

All devices were fully exercised, with buttons and LEDs active.

5.2. Configuration and Peripherals

The EUT was tested in the following configuration:

The EUT was powered by a DC power supply, 12 V DC.

TEST REPORT

S.No. RFI/RPTE2/RP49217JD01A

Page: 13 of 29

Issue Date: 23 May 2007

Test of: Paxton Access Ltd

Net2 Access Control System Compact Access Control System

To: FCC Parts 15.109, 15.207, 15.209, 2.1049

6. Summary of Test Results

Range of Measurements	Section Reference	Port Type	Compliancy Status
Receiver Radiated Spurious Emissions	Section 15.109	Enclosure	Complied
Transmitter AC Mains Conducted Emissions (150 kHz to 30 MHz)	Section 15.207	AC Mains	Complied
Transmitter Radiated Spurious Emissions	Section 15.209	Enclosure	Complied
Transmitter Occupied Bandwidth	Section 2.1049	Antenna	N/A

6.1. Location of Tests

All the measurements described in this report were performed at the premises of RFI Global Services Ltd, Ewhurst Park, Ramsdell, Basingstoke, Hampshire, RG26 5RQ, UK.

TEST REPORT

S.No. RFI/RPTE2/RP49217JD01A

Page: 14 of 29

Issue Date: 23 May 2007

Test of: Paxton Access Ltd

Net2 Access Control System Compact Access Control System

To: FCC Parts 15.109, 15.207, 15.209, 2.1049

7. Measurements, Examinations and Derived Results

7.1. General Comments

- 7.1.1. This section contains test results only.
- 7.1.2. Measurement uncertainties are evaluated in accordance with current best practice. Our reported expanded uncertainties are based on standard uncertainties, which are multiplied by an appropriate coverage factor to provide a statistical confidence level of approximately 95%. Please refer to Section 8 for details of measurement uncertainties.

TEST REPORT

S.No. RFI/RPTE2/RP49217JD01A

Page: 15 of 29

Issue Date: 23 May 2007

Test of: Paxton Access Ltd

Net2 Access Control System Compact Access Control System

To: FCC Parts 15.109, 15.207, 15.209, 2.1049

7.2. Test Results

7.2.1. Receiver Radiated Spurious Emissions: Section 15.109

7.2.2. Electric Field Strength Measurements (Frequency Range: 30 MHz to 1000 MHz)

7.2.2.1. The EUT was configured for radiated emissions testing, as described in Section 9 of this report.

7.2.2.2. Tests were performed to identify the maximum receiver or standby radiated emission levels.

Results:

Frequency (MHz)	Antenna Polarity	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
48.086	Vertical	21.4	40.0	18.6	Complied
125.320	Vertical	30.5	43.5	13.0	Complied
136.182	Horizontal	24.2	43.5	19.3	Complied
265.541	Vertical	25.2	46.0	20.8	Complied

S.No. RFI/RPTE2/RP49217JD01A

Page: 16 of 29

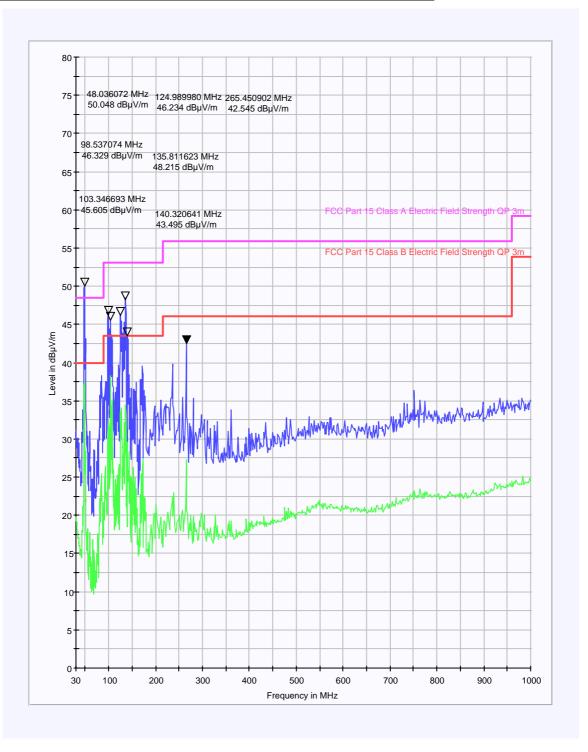
Issue Date: 23 May 2007

Test of: Paxton Access Ltd

Net2 Access Control System Compact Access Control System

To: FCC Parts 15.109, 15.207, 15.209, 2.1049

Receiver Radiated Spurious Emissions: Section 15.109 (Continued)



Note: This plot is a pre-scan and for indication purposes only. For final measurements, see accompanying tables.

S.No. RFI/RPTE2/RP49217JD01A

Page: 17 of 29

Issue Date: 23 May 2007

Test of: Paxton Access Ltd

Net2 Access Control System
Compact Access Control System

To: FCC Parts 15.109, 15.207, 15.209, 2.1049

7.2.3. Transmitter AC Mains Conducted Emissions: Section 15.207

7.2.3.1. The EUT was configured for AC conducted emissions measurements, as described in Section 9 of this report.

7.2.3.2. Tests were performed to identify the maximum emission levels on the AC mains line of the EUT.

Results:

Quasi-Peak Detector Measurements on Live and Neutral Lines

Frequency (MHz)	Line	Level (dBμV)	Limit (dBµV)	Margin (dB)	Result
0.250000	Neutral	45.4	61.8	16.4	Complied
21.626000	Live	43.6	60.0	16.4	Complied
21.874000	Live	44.2	60.0	15.8	Complied
22.126000	Live	45.2	60.0	14.8	Complied
22.374000	Live	45.8	60.0	14.2	Complied
22.626000	Live	46.6	60.0	13.4	Complied
22.874000	Live	47.0	60.0	13.0	Complied
23.126000	Live	46.9	60.0	13.1	Complied
23.374000	Live	46.2	60.0	13.8	Complied
23.626000	Live	45.3	60.0	14.7	Complied

Average Detector Measurements on Live and Neutral Lines

Frequency (MHz)	Line	Level (dBμV)	Limit (dBμV)	Margin (dB)	Result
21.874000	Live	42.1	50.0	7.9	Complied
22.126000	Live	43.1	50.0	6.9	Complied
22.374000	Live	44.2	50.0	5.8	Complied
22.626000	Live	45.0	50.0	5.0	Complied
22.874000	Live	45.3	50.0	4.7	Complied
23.126000	Live	45.1	50.0	4.9	Complied
23.374000	Live	44.5	50.0	5.5	Complied
23.626000	Live	43.5	50.0	6.5	Complied
23.874000	Live	42.3	50.0	7.7	Complied
24.126000	Live	41.2	50.0	8.8	Complied

S.No. RFI/RPTE2/RP49217JD01A

Page: 18 of 29

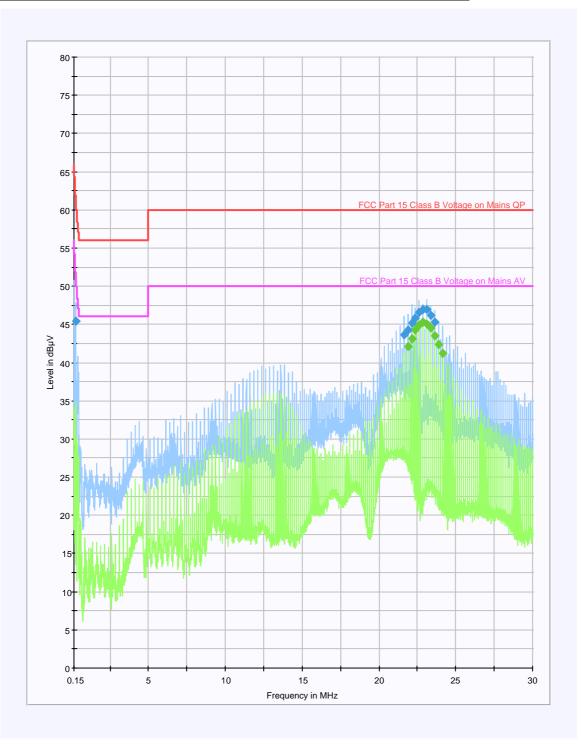
Issue Date: 23 May 2007

Test of: Paxton Access Ltd

Net2 Access Control System Compact Access Control System

To: FCC Parts 15.109, 15.207, 15.209, 2.1049

Transmitter AC Mains Conducted Emissions: Section 15.207 (Continued)



Note: This plot is a pre-scan and for indication purposes only. For final measurements, see accompanying tables.

S.No. RFI/RPTE2/RP49217JD01A

Page: 19 of 29

Issue Date: 23 May 2007

Test of: Paxton Access Ltd

Net2 Access Control System Compact Access Control System

To: FCC Parts 15.109, 15.207, 15.209, 2.1049

7.2.4. Transmitter Radiated Spurious Emissions: Section 15.209

7.2.5. Electric Field Strength Measurements (Frequency Range: 9 kHz to 1000 MHz)

- 7.2.5.1. The EUT was configured for radiated emissions testing, as described in Section 9 of this report.
- 7.2.5.2. Tests were performed to identify the maximum radiated spurious emission levels.

7.2.5.3. Limits below 30 MHz are specified at test distance of 30 metres, whilst below 0.49 MHz they are specified at a test distance of 300 metres. However, as specified by section 15.31 (f)(2), measurements may be performed at a closer distance, and the measured level corrected to the specified measurement distance by using the square of an inverse linear distance extrapolation factor (40 dB/decade).

Results:

Frequency (MHz)	Antenna Polarity	Level (dBμV/m)	Limit (dBμV/m)	Measurement Distance (m)	Margin (dB)	Result
50.255	Vertical	30.5	40.0	3	9.5	Complied
63.035	Horizontal	30.6	40.0	3	9.4	Complied
71.773	Vertical	31.0	40.0	3	9.0	Complied
103.276	Horizontal	30.0	43.5	3	13.5	Complied
128.005	Horizontal	28.2	43.5	3	15.3	Complied
135.160	Horizontal	28.5	43.5	3	15.0	Complied
168.747	Vertical	23.2	43.5	3	20.3	Complied
175.981	Horizontal	33.8	43.5	3	9.7	Complied
207.965	Vertical	27.2	43.5	3	16.3	Complied
240.010	Horizontal	41.9	46.0	3	4.1	Complied
248.046	Horizontal	40.4	46.0	3	5.6	Complied
280.029	Horizontal	32.6	46.0	3	13.4	Complied
304.017	Horizontal	32.7	46.0	3	13.3	Complied

TEST REPORT

S.No. RFI/RPTE2/RP49217JD01A

Page: 20 of 29

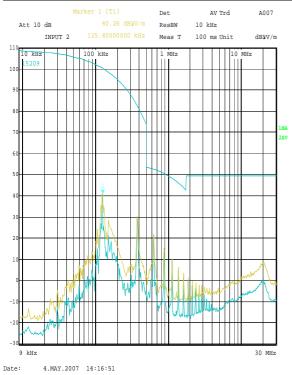
Issue Date: 23 May 2007

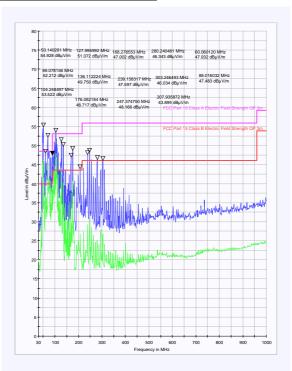
Test of: Paxton Access Ltd

Net2 Access Control System Compact Access Control System

To: FCC Parts 15.109, 15.207, 15.209, 2.1049

Transmitter Radiated Spurious Emissions: Section 15.209 (Continued)





Note: These plots are pre-scans and for indication purposes only. For final measurements, see accompanying tables.

S.No. RFI/RPTE2/RP49217JD01A

Page: 21 of 29

Issue Date: 23 May 2007

Test of: Paxton Access Ltd

Net2 Access Control System Compact Access Control System

To: FCC Parts 15.109, 15.207, 15.209, 2.1049

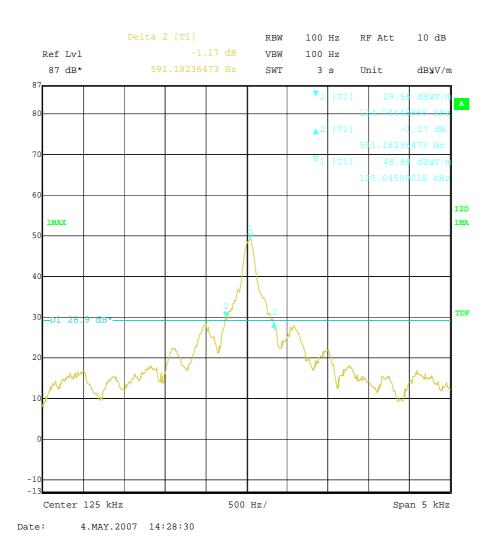
7.2.6. Transmitter 20 dB Bandwidth: Section 2.1049

The EUT was configured for 20 dB bandwidth measurements, as described in section 9 of this report.

Tests were performed to identify the 20 dB bandwidth.

Results:

Transmitter 20 dB Bandwidth (Hz)	Limit (kHz)	
591.182	None specified	



TEST REPORT

S.No. RFI/RPTE2/RP49217JD01A

Page: 22 of 29

Issue Date: 23 May 2007

Test of: Paxton Access Ltd

Net2 Access Control System Compact Access Control System

To: FCC Parts 15.109, 15.207, 15.209, 2.1049

8. Measurement Uncertainty

- 8.1. No measurement or test can ever be perfect and the imperfections give rise to error of measurement in the results. Consequently, the result of a measurement is only an approximation to the value of the measurand (the specific quantity subject to measurement) and is only complete when accompanied by a statement of the uncertainty of the approximation.
- 8.2. The expression of uncertainty of a measurement result allows realistic comparison of results with reference values and limits given in specifications and standards.
- 8.3. The uncertainty of the result may need to be taken into account when interpreting the measurement results.
- 8.4. The reported expanded uncertainties below are based on a standard uncertainty multiplied by an appropriate coverage factor, such that a confidence level of approximately 95% is maintained. For the purposes of this document "approximately" is interpreted as meaning "effectively" or "for most practical purposes".

Measurement Type	Range	Confidence Level (%)	Calculated Uncertainty
AC Conducted Spurious Emissions	0.15 MHz to 30 MHz	95%	+/- 3.25 dB
Radiated Spurious Emissions	9 kHz to 1000 MHz	95%	+/- 5.26 dB

8.5. The methods used to calculate the above uncertainties are in line with those recommended within the various measurement specifications. Where measurement specifications do not include guidelines for the evaluation of measurement uncertainty, the published guidance of the appropriate accreditation body is followed.

S.No. RFI/RPTE2/RP49217JD01A

Page: 23 of 29

Issue Date: 23 May 2007

Test of: Paxton Access Ltd

Net2 Access Control System
Compact Access Control System

To: FCC Parts 15.109, 15.207, 15.209, 2.1049

9. Measurement Methods

9.1. AC Mains Conducted Emissions

AC mains conducted emissions measurements were performed in accordance with the standard, against appropriate limits for each detector function.

The test was performed in a shielded enclosure with the equipment arranged as detailed in the standard on a wooden bench using the floor of the screened enclosure as the ground reference plane. The EUT was powered with 110V 60 Hz AC mains supplied via a Line Impedance Stabilisation Network (LISN).

Initial measurements in the form of swept scans covering the entire measurement band were performed in order to identify frequencies on which the EUT was generating interference. In order to minimise the time taken for these swept measurements, a Peak detector was used in conjunction with the appropriate detector IF measuring bandwidths (see table below). Repetitive scans were performed to allow for emissions with low repetition rates, and the duty cycle of the EUT. The test configuration was the same for the initial scans as for the final measurements.

Following the initial scans, a graph was produced giving an overview of the emissions from the EUT plotted against the appropriate specification limit. A tolerance line was set 6 dB below the specification limit and levels above the tolerance line were re-tested (at individual frequencies) using the appropriate detector function.

The test equipment settings for conducted emissions measurements were as follows:

Receiver Function	Initial Scan	Final Measurements
Detector Type:	Peak	Quasi-Peak (CISPR)/Average
Mode:	Max Hold	Not applicable
Bandwidth:	10 kHz	9 kHz
Amplitude Range:	60 dB	20 dB
Measurement Time:	Not applicable	> 1 s
Observation Time:	Not applicable	> 15 s
Step Size:	Continuous sweep	Not applicable
Sweep Time:	Coupled	Not applicable

S.No. RFI/RPTE2/RP49217JD01A

Page: 24 of 29

Issue Date: 23 May 2007

Test of: Paxton Access Ltd

Net2 Access Control System Compact Access Control System

To: FCC Parts 15.109, 15.207, 15.209, 2.1049

9.2. Receiver Radiated Emissions

Radiated emissions measurements were performed in accordance with the standard, against appropriate limits for each detector function.

Initial pre-scans covering the entire measurement band from the lowest generated frequency declared up to the upper frequency detailed in Section 15.33(b) were performed within a screened chamber in order to identify frequencies on which the EUT was generating interference. This determined the frequencies from the EUT, which required further examination. In order to minimise the time taken for the swept measurements, a peak detector was used in conjunction with the appropriate detector measuring bandwidth (see table below). Repetitive scans were performed to allow for emissions with low repetition rates, and for the duty cycle of the EUT.

The initial scans were performed using an antenna height of 1.5 m and a measurement distance of 3 m. A limit line was set to the specification limit. Levels within 20 dB of this limit were measured where possible, on occasion, the receiver noise floor came within the 20 dB boundary. On these occasions, the system noise floor may have been recorded.

An open area test site using the appropriate test distance and measuring receiver with a Quasi-Peak detector was used for measurements below 1000 MHz, for measurements above 1000 MHz average and peak detectors were used.

For the final measurements the EUT was arranged on a non-conducting turn table on a standard test site compliant with ANSI C63.4 – 2001 Clause 5.4.

On the open area test site, at each frequency where a signal was found, the levels were maximised by initially rotating the turntable through 360° and then varying the antenna height between 1 m and 4 m in the horizontal polarisation. At this point, any signals found to be between the limit and a level 6 dB below it were further maximised by changing the configuration of the EUT, e.g. re-routing cables to peripherals and moving peripherals with respect to the EUT. The procedure was repeated for the vertical polarisation.

The final field strength was determined as the indicated level in dB_µV plus cable loss and antenna factor.

The test equipment settings for radiated emissions measurements were as follows:

Receiver Function	Initial Scan	Final Measurements Below 1 GHz	Final Measurements Above 1 GHz
Detector Type:	Peak	Quasi-Peak (CISPR)	Peak/Average
Mode:	Max Hold	Not applicable	Not applicable
Bandwidth:	(120 kHz < 1 GHz) (1 MHz > 1 GHz)	120 kHz	1 MHz
Amplitude Range:	100 dB	100 dB	100 dB
Step Size:	Continuous sweep	Not applicable	Not applicable
Sweep Time:	Coupled	Not applicable	Not applicable

TEST REPORT

S.No. RFI/RPTE2/RP49217JD01A

Page: 25 of 29

Issue Date: 23 May 2007

Test of: Paxton Access Ltd

Net2 Access Control System Compact Access Control System

To: FCC Parts 15.109, 15.207, 15.209, 2.1049

9.3. Transmitter 20 dB Bandwidth

To determine the occupied bandwidth, a resolution bandwidth of 100 Hz was used, which is greater than 1% of the 20 dB bandwidth. A video bandwidth of, at least, the same value was used.

The analyser was set for a maximum hold scan to capture the profile of the signal. The peak level was then determined, and a reference line was drawn 20 dB below the peak level.

The bandwidth was determined at the points where the 20 dB reference line intercepted the power envelope of the emission.

TEST REPORT

S.No. RFI/RPTE2/RP49217JD01A

Page: 26 of 29

Issue Date: 23 May 2007

Test of: Paxton Access Ltd

Net2 Access Control System Compact Access Control System

To: FCC Parts 15.109, 15.207, 15.209, 2.1049

Appendix 1. Test Equipment Used

RFI No.	Instrument	Manufacturer	Type No.	Serial No.	Date Last Calibrated	Cal. Interval
A1037	Green Bilog Antenna	Chase EMC Ltd	CBL6112B	2413	20 Sep 2006	12
A1069	Single Phase LISN	Rohde & Schwarz	ESH3-Z5	837469/012	09 Feb 2007	12
A1830	N-Type Pulse Limiter	Rhode & Schwarz	ESH3-Z2	100668	Cal before use	-
A553	Bi-log Antenna	Chase	CBL6111A	1593	01 Nov 2006	12
C1268	7.5m BNC Coaxial Cable	Rosenberger	FA210A007500 8080	49356-1	Cal before use	-
C151	Cable	Rosenberger	UFA210A-1- 1181-70x70	None	Cal before use	-
C160	Cables	Rosenberger	UFA210A-1- 1181-70x70	None	Cal before use	-
C341	3m cable	Andrews	None	None	Cal before use	-
C348	Cable	Rosenberger	UFA210A-1- 1181-70x70	2993	Cal before use	-
C363	3m cable	Rosenberger	RG142	None	Cal before use	-
M023	ESVP Receiver	Rohde & Schwarz	ESVP	872 991/027	24 Apr 2007	12
M024	EZM Spectrum Monitor	Rohde & Schwarz	EZM	873 952/006	Not calibrated	-
M1263	EMI Test Receiver	Rohde & Schwarz	ESIB7	100265	25 Jan 2007	12
S201	3m & 10m OATS	RFI	1		18 Jul 2006	12
S212	Emissions Screened Room	RFI	12		Not calibrated	-

NB In accordance with UKAS requirements, all the measurement equipment is on a calibration schedule.

TEST REPORT

S.No. RFI/RPTE2/RP49217JD01A

Page: 27 of 29

Issue Date: 23 May 2007

Test of: Paxton Access Ltd

Net2 Access Control System Compact Access Control System

To: FCC Parts 15.109, 15.207, 15.209, 2.1049

Appendix 2. Test Configuration Drawings

This appendix contains the following drawings:

Drawing Reference Number	Title
DRG\49217JD01A\EMICON	Test configuration for measurement of conducted emissions.
DRG\49217JD01A\EMIRAD	Test configuration for measurement of radiated emissions.

TEST REPORT

S.No. RFI/RPTE2/RP49217JD01A

Page: 28 of 29

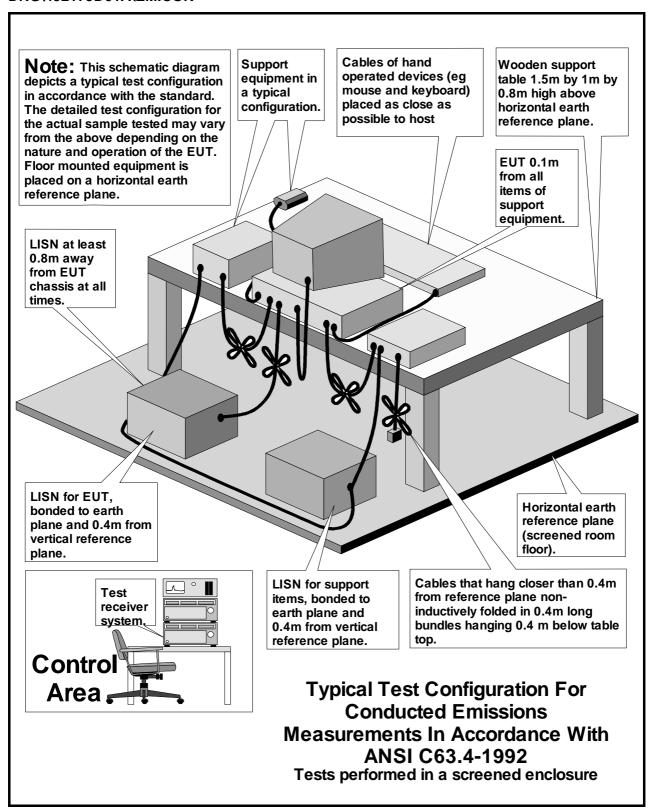
Issue Date: 23 May 2007

Test of: Paxton Access Ltd

Net2 Access Control System Compact Access Control System

To: FCC Parts 15.109, 15.207, 15.209, 2.1049

DRG\49217JD01A\EMICON



TEST REPORT

S.No. RFI/RPTE2/RP49217JD01A

Page: 29 of 29

Issue Date: 23 May 2007

Test of: Paxton Access Ltd

Net2 Access Control System Compact Access Control System

To: FCC Parts 15.109, 15.207, 15.209, 2.1049

DRG\49217JD01A\EMIRAD

