FCC and Industry Canada Testing of the Paxton Access Ltd Access control unit, Model: Net2 Entry Touchpanel In accordance with FCC 47 CFR Part 15C, Industry Canada RSS-310 and Industry Canada RSS-GEN

Prepared for: Paxton Access Ltd Paxton House Home Farm Road Brighton BN1 9HU United Kingdom

FCC ID: USE337620 IC: 10217A-337620

COMMERCIAL-IN-CONFIDENCE

Date: January 2017 Document Number: 75935869-04 | Issue: 02

| RESPONSIBLE FOR | NAME | DATE | SIGNATURE |
|----------------------|---------------|-----------------|-----------|
| Authorised Signatory | Simon Bennett | 27 January 2017 | Menneg |

Signatures in this approval box have checked this document in line with the requirements of TÜV SÜD Product Service document control rules.

ENGINEERING STATEMENT

The measurements shown in this report were made in accordance with the procedures described on test pages. All reported testing was carried out on a sample equipment to demonstrate limited compliance with FCC 47 CFR Part 15C and Industry Canada RSS-310 and Industry Canada RSS-GEN. The sample tested was found to comply with the requirements defined in the applied rules.

| RESPONSIBLE FOR | NAME | DATE | SIGNATURE |
|-------------------|---------------|------------------|-------------|
| Testing | Dan Ralley | 27 January 2017 | N. Ralley |
| Testing | Graeme Lawler | 27 January 2017 | Chillawter. |
| Testing | Jack Tuckwell | 27 January 2017 | zha |
| FCC Accreditation | Industry Cana | da Accreditation | • |

PCC Accreditation 90987 Octagon House, Fareham Test Laboratory

EXECUTIVE SUMMARY

A sample of this product was tested and found to be in compliance with FCC 47 CFR Part 15C: 2015, Industry Canada RSS-310: Issue 03 (2012-12) and Industry Canada RSS-GEN: Issue 04 (2014-11).



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IC2932B-1 Octagon House, Fareham Test Laboratory

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Contents

| 1 | Report Summary | 2 |
|-----|--|----|
| 1.1 | Report Modification Record | 2 |
| 1.2 | Introduction | 2 |
| 1.3 | Brief Summary of Besults | 3 |
| 1.4 | Brief Summary of Results Application Form | |
| 1.5 | Product Information | |
| 1.6 | Deviations from the Standard | |
| 1.7 | EUT Modification Record | |
| 1.8 | Test Location | |
| 2 | Test Details | 8 |
| 2.1 | Occupied Bandwidth | |
| 2.2 | Transmitter Frequency Stability | |
| 2.3 | Transmitter Output Power | |
| 2.4 | Transmitter Unwanted Emissions | 14 |
| 3 | Measurement Uncertainty | 19 |



1 Report Summary

1.1 Report Modification Record

Alterations and additions to this report will be issued to the holders of each copy in the form of a complete document.

| Issue | Description of Change | Date of Issue |
|-------|-----------------------------|-----------------|
| 1 | First Issue | 23 January 2017 |
| 2 | Inclusion of FCC references | 27 January 2017 |

Table 1

1.2 Introduction

| Applicant | Paxton Access Ltd |
|-------------------------------|--|
| Manufacturer | Paxton Access Ltd |
| Model Number(s) | Net2 Entry Touchpanel |
| Serial Number(s) | 4532447 and Not serialised (75935869-TSR0007) |
| Hardware Version(s) | z-n2tp ppc-n2tp |
| Software Version(s) | 2.16 5523 |
| Number of Samples Tested | 2 |
| Test Specification/Issue/Date | FCC 47 CFR Part 15C (2015) Industry Canada RSS-310: Issue 03 (2012-12) Industry Canada RSS-GEN: Issue 04 (2014-11) |
| Order Number Date | 158355 01-August-2016 |
| Date of Receipt of EUT | 07-November-2016 |
| Start of Test | 16-December-2016 |
| Finish of Test | 17-January-2017 |
| Name of Engineer(s) | Dan Ralley, Graeme Lawler and Jack Tuckwell |
| Related Document(s) | ANSI C63.10 (2013) |



1.3 Brief Summary of Results

A brief summary of the tests carried out in accordance with FCC 47 CFR Part 15C, Industry Canada RSS-310, Industry Canada RSS-GEN is shown below.

| Section | Specification Clause | | e | Test Description | Result | Comments/Base Standard |
|---|--------------------------|-----|---------|---------------------------------|--------|------------------------|
| | Part 15C RSS-310 RSS-GEN | | RSS-GEN | | | |
| Configuration: HiTag - 125 kHz RFID Transceiver | | | · | | | |
| 2.1 | - | 3.1 | 6.6 | Occupied Bandwidth | Pass | |
| 2.2 | - | 3.1 | 6.11 | Transmitter Frequency Stability | Pass | |
| 2.3 | - | 3.1 | 6.12 | Transmitter Output Power | Pass | |
| 2.4 | 15.209 | 3.1 | 6.13 | Transmitter Unwanted Emissions | Pass | |

Table 2



1.4 Application Form

| EQUIPMENT DESCRIPTION | | | | |
|--|-----------------|--|--|--|
| Model Name/Number | Net2 Entry | Touchpanel 125KHz | | |
| Part Number | 337-620 | | | |
| Hardware Version | z-n2tp ppc-n2tp | | | |
| Software Version | 2.16 5523 | | | |
| FCC ID (if applicable) | | USE337620 | | |
| Industry Canada ID (if applicable) | | 10217A-337620 | | |
| Technical Description (Please provid description of the intended use of the equ | | The Net2 Entry Touchpanel will be the first point of contact for a visitor to a premises or entranceway allowing them to gain communication with the occupant so that they may then be allowed entrance. | | |

| | POWER SOURCE | | | | | |
|-------------|---|-------|-------------------------------|--|--|--|
| | AC mains | State | voltage | | | |
| AC supp | ply frequency (Hz) | | | | | |
| | VAC | | | | | |
| | Max Current | | | | | |
| | Hz | | | | | |
| | Single phase | | Three phase | | | |
| And / O | r | | | | | |
| \boxtimes | External DC supply | | | | | |
| | Nominal voltage | 48 V | Max Current 1.25 A | | | |
| | Extreme upper voltage | | V | | | |
| | Extreme lower voltage | | V | | | |
| Battery | | | | | | |
| | Nickel Cadmium | | Lead acid (Vehicle regulated) | | | |
| | Alkaline | | Leclanche | | | |
| | Lithium | | Other Details : | | | |
| | Volts nominal. | | | | | |
| End poi | int voltage as quoted by equipment manufacturer | | V | | | |

| FREQUENCY INFORMATION | | | | | |
|--|----------------|-----|--------------------------------|--|--|
| Frequency Range | 125kHzto | MHz | | | |
| Channel Spacing (where applicable) | Single Channel | | | | |
| Receiver Frequency Range (if different) | to | MHz | | | |
| Channel Spacing (if different) | | | | | |
| Test Frequencies* | Bottom | MHz | Channel Number (if applicable) | | |
| | Middle | MHz | Channel Number (if applicable) | | |
| | Тор | MHz | Channel Number (if applicable) | | |
| Intermediate Frequencies | | MHz | | | |
| Highest Internally Generated Frequence | y: | MHz | | | |



| | POWER CHARACTERISTICS | | | | | | | | |
|----------------------|--|------------|--------------------|---|--|-------------|-------|-----|------|
| Maxi | mum TX power | <11 | mW W | | | | | | |
| | num TX power | | W (if varial | ole) | | | | | |
| | ansmitter intended for : | | × × | , | | | | | |
| Cont | inuous duty | | | | | \boxtimes | Yes | | No |
| Inter | mittent duty | | | | | | Yes | | No |
| | ermittent state DUTY CYCLE | | | | | | | | |
| Tran | smitter ON | | seconds | | | | | | |
| Tran | smitter OFF | | seconds | | | | | | |
| | | | | | | | | | |
| | | | ANTENNA CH | ARACT | ERISTICS | | | | |
| | Antenna connector | | | S | itate impedance | Ohm | | | |
| | Temporary antenna connector | | | S | itate impedance | Ohm | | | |
| \boxtimes | Integral antenna | Туре | Loop Coil | S | itate gain | dBi | | | |
| | External antenna | Туре | • | S | tate gain | dBi | | | |
| | | | MODULATION C | HARAG | CTERISTICS | | | | |
| \boxtimes | Amplitude | | | | Frequency | | | | |
| | Phase | | | | Other (please provide detai | ls). | | | |
| | the transmitter operate un-modu | lated? | | | | ю,. Г |] Yes | ; [|] No |
| Jun | | atoa | | | | | | , _ | |
| | | | CLASS OF E | MISSIC | N USED | | | | |
| | | | ITU designation of | r Class | of Emission: | | | | |
| | | | 1 | Non | XX | | | | |
| | | | (if applicable) 2 | | | | | | |
| | | | (if applicable) 3 | | | | | | |
| lf mo | ore than three classes of emission | n, list se | eparately: | | | | | | |
| | | | | | | | | | |
| | | | BATTERY PO | | ע וממווי | | | | |
| <u> </u> | | | | _ | | | | | |
| Mode | el name/number | | | _ | ification/Part number | | | | |
| | el name/number ufacturer | | | Ident | | | | | |
| | | | | ldent Cour | ification/Part number | | | | |
| Man | ufacturer | | ANCILLARIE | Ident Cour S (If ap | ification/Part number htry of Origin plicable) | | | | |
| Man | ufacturer el name/number | | ANCILLARIE | Ident Cour S (If ap | ification/Part number ntry of Origin plicable) ification/Part number | | | | |
| Man | ufacturer | | ANCILLARIE | Ident Cour S (If ap | ification/Part number htry of Origin plicable) | | | | |
| Man | ufacturer el name/number | | | Ident Cour S (If ap Ident Cour | ification/Part number ntry of Origin plicable) ification/Part number ntry of Origin | | | | |
| Mani Mode Mani | ufacturer el name/number ufacturer | | ANCILLARIE | Ident Cour S (If ap Ident Cour | ification/Part number htry of Origin plicable) ification/Part number htry of Origin TIONS | | | | |
| Mani Mode Mani | ufacturer el name/number | | EXTREME | Ident Cour S (If ap Ident Cour CONDI | ification/Part number ntry of Origin plicable) ification/Part number ntry of Origin | | 25 | V | |



I hereby declare that the information supplied is correct and complete.

Name: Walter Riche Date: 11/08/2016 Position held:

Compliance Engineer



1.5 Product Information

1.5.1 Technical Description

The Net2 Entry Touchpanel will be the first point of contact for a visitor to a premises or entrance way allowing them to gain communication with the occupant so that they may then be allowed entrance.

1.6 Deviations from the Standard

No deviations from the applicable test standard were made during testing.

1.7 EUT Modification Record

The table below details modifications made to the EUT during the test programme. The modifications incorporated during each test are recorded on the appropriate test pages.

| Modification State | Description of Modification still fitted to EUT | Modification Fitted By | Date Modification Fitted | | |
|--|---|------------------------|-----------------------------|--|--|
| Serial Number: 4532447 | | | | | |
| 0 | As supplied by the customer | Not Applicable | Not Applicable | | |
| Serial Number: Not serialised (75935869-TSR0007) | | | | | |
| 0 | As supplied by the customer | Not Applicable | Not Applicable | | |

Table 3

1.8 Test Location

TÜV SÜD Product Service conducted the following tests at our Fareham Test Laboratory.

| Test Name | Name of Engineer(s) | Accreditation |
|--|---------------------------------|---------------|
| Configuration and Mode: HiTag - 125 kHz RFID Trans | ceiver | |
| Occupied Bandwidth | Dan Ralley | UKAS |
| Transmitter Frequency Stability | Matthew Russell | UKAS |
| Transmitter Output Power | Graeme Lawler | UKAS |
| Transmitter Unwanted Emissions | Graeme Lawler and Jack Tuckwell | UKAS |

Table 4

Office Address:

Octagon House Concorde Way Segensworth North Fareham Hampshire PO15 5RL United Kingdom



2 Test Details

2.1 Occupied Bandwidth

2.1.1 Specification Reference

Industry Canada RSS-310, Clause 3.1 Industry Canada RSS-GEN, Clause 6.6

2.1.2 Equipment Under Test and Modification State

Net2 Entry Touchpanel, S/N: TSR0007 - Modification State 0

2.1.3 Date of Test

10-January-2017

2.1.4 Test Method

This test was performed in accordance with Industry Canada RSS-GEN, clause 6.6.

2.1.5 Environmental Conditions

Ambient Temperature21.3 °CRelative Humidity34.4 %

2.1.6 Test Results

HiTag - 125 kHz RFID Transceiver

| Frequency (MHz) | Occupied Bandwidth (kHz) |
|-----------------|--------------------------|
| 0.12556 | 0.961 |

Table 5



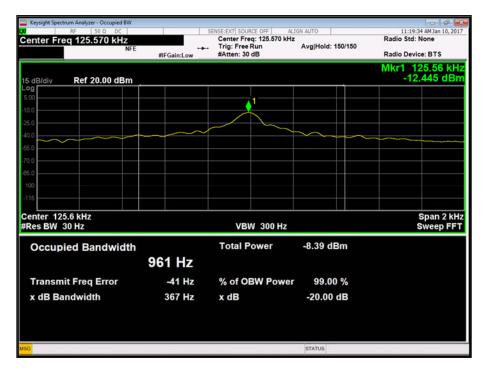


Figure 1 - 99% Occupied Bandwidth

Industry Canada RSS-310 and Industry Canada RSS-GEN, Limit Clause

None specified.

2.1.7 Test Location and Test Equipment Used

This test was carried out in RF Laboratory 1.

| Instrument | Manufacturer | Туре No | TE No | Calibration Period (months) | Calibration Due |
|---------------------|-------------------------|--------------------------------|-------|-----------------------------------|-----------------|
| RF Coupler | TUV SUD Product Service | RFC1 | 414 | - | TU |
| Rubidium Standard | Rohde & Schwarz | XSRM | 1316 | 6 | 5-Mar-2017 |
| Spectrum Analyser | Rohde & Schwarz | FSU26 | 2747 | 12 | 29-Jan-2017 |
| Hygrometer | Rotronic | I-1000 | 3220 | 12 | 23-Aug-2017 |
| Frequency Standard | Spectracom | Secure Sync 1200- 0408-0601 | 4393 | 6 | 5-Mar-2017 |
| PXA Signal Analyser | Keysight Technologies | N9030A | 4654 | 12 | 6-Oct-2017 |



TU - Traceability Unscheduled



2.2 Transmitter Frequency Stability

2.2.1 Specification Reference

Industry Canada RSS-310 and Industry Canada RSS-GEN, Clause 6.11 (RSS-Gen)

2.2.2 Equipment Under Test and Modification State

Net II Entry Touch Panel, S/N: 4532447 - Modification State 0

2.2.3 Date of Test

16-December-2016 to 17-December-2016

2.2.4 Test Method

This test was performed in accordance with Industry Canada RSS-Gen clause 6.11.

2.2.5 Environmental Conditions

Ambient Temperature23.6 °CRelative Humidity48.7 %

2.2.6 Test Results

HiTag - 125 kHz RFID Transceiver

| Test Co | nditions | 125. | 0 kHz |
|-------------|-----------|-----------------------|--------------------------|
| Temperature | Voltage | Frequency Error (kHz) | Measured Frequency (kHz) |
| -30°C | 48.0 V DC | -1.0192 | 123.9807 |
| +20°C | 44.5 V DC | -0.2404 | 124.7596 |
| +20°C | 48.0 V DC | -0.2414 | 124.7586 |
| +20°C | 55.2 V DC | -0.2372 | 124.7628 |
| +50°C | 48.0 V DC | 0.0224 | 125.0224 |

Table 7

Note: Measurements were made at the minimum possible operating voltage. At -15 %, the EUT does not operate.

Industry Canada RSS-Gen, Limit Clause 8.11

Transmitter frequency stability for licence-exempt radio apparatus shall be measured in accordance with Section 6.11. For licence-exempt radio apparatus, the frequency stability shall be measured at temperatures of -20°C (-4°F), +20°C (+68°F) and +50°C (+122°F) instead of at the temperatures specified in Section 6.11.

If the frequency stability of the licence-exempt radio apparatus is not specified in the applicable standard (RSS), measurement of the frequency stability is not required provided that the occupied bandwidth of the licence-exempt radio apparatus lies entirely outside the restricted bands and the prohibited TV bands of 54-72 MHz, 76-88 MHz, 174-216 MHz, 470-608 MHz and 614-806 MHz.

Industry Canada RSS-310 Limit Clause

None specified.



2.2.7 Test Location and Test Equipment Used

This test was carried out in RF Laboratory 1.

| Instrument | Manufacturer | Туре No | TE No | Calibration Period (months) | Calibration Due |
|----------------------------------|-----------------|--------------------------------|-------|-----------------------------------|-----------------|
| Multimeter | Fluke | 75 Mk3 | 455 | 12 | 14-Sep-2017 |
| Temperature Chamber | Montford | 2F3 | 467 | - | O/P Mon |
| Rubidium Standard | Rohde & Schwarz | XSRM | 1316 | 6 | 05-Mar-2017 |
| Digital Temperature Indicator | Fluke | 51 | 1385 | 12 | 13-Oct-2017 |
| Spectrum Analyser | Rohde & Schwarz | FSU26 | 2747 | 12 | 29-Jan-2017 |
| Hygrometer | Rotronic | I-1000 | 3220 | 12 | 23-Aug-2017 |
| Frequency Standard | Spectracom | Secure Sync 1200- 0408-0601 | 4393 | 6 | 05-Mar-2017 |
| 4 Channel PSU | Rohde & Schwarz | HMP4040 | 4736 | - | O/P Mon |

Table 8

O/P Mon - Output Monitored using calibrated equipment



2.3 Transmitter Output Power

2.3.1 Specification Reference

Industry Canada RSS-310, Clause 3.1 Industry Canada RSS-GEN, Clause 6.12

2.3.2 Equipment Under Test and Modification State

Net2 Entry Touchpanel, S/N: Not serialised (75935869-TSR0007) - Modification State 0

2.3.3 Date of Test

17-January-2017

2.3.4 Test Method

This test was performed in accordance with Industry Canada RSS-GEN, clause 6.12.

2.3.5 Environmental Conditions

Ambient Temperature19.1 °CRelative Humidity30.0 %

2.3.6 Test Results

HiTag - 125 kHz RFID Transceiver

| Frequency (kHz) | Transmitter Output Power (dBµV/m) |
|-----------------|-----------------------------------|
| 124.82 | 70.53 |

Table 9

Industry Canada RSS-Gen and Industry Canada RSS-310 Limit Clause

None specified.



2.3.7 Test Location and Test Equipment Used

This test was carried out in EMC Chamber 5.

| Instrument | Manufacturer | Type No | TE No | Calibration Period (months) | Calibration Due |
|---|-----------------|-------------|-------|-----------------------------------|-----------------|
| Antenna (Active Loop, 9kHz-30MHz) | Rohde & Schwarz | HFH2-Z2 | 333 | 24 | 9-Dec-2018 |
| Antenna (Dish/Tripod/Adaptor, 1GHz-18GHz) | Rohde & Schwarz | AC-008 | 334 | - | TU |
| Screened Room (5) | Rainford | Rainford | 1545 | 36 | 20-Dec-2017 |
| Turntable Controller | Inn-Co GmbH | CO 1000 | 1606 | - | TU |
| Hygrometer | Rotronic | HYGROPALM 1 | 2338 | 12 | 21-Sep-2017 |
| EMI Test Receiver | Rohde & Schwarz | ESU40 | 3506 | 12 | 12-Nov-2017 |

Table 10

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2.4 Transmitter Unwanted Emissions

2.4.1 Specification Reference

FCC CFR 47 Part 15C, Clause 15.209 Industry Canada RSS-310, Clause 3.1 Industry Canada RSS-GEN, Clause 6.13

2.4.2 Equipment Under Test and Modification State

Net2 Entry Touchpanel, S/N: 4532447 - Modification State 0

2.4.3 Date of Test

06-January-2017

2.4.4 Test Method

This test was performed in accordance with Industry Canada RSS-GEN, clause 6.13.

Measurements were made at a distance of 3 m. The limit lines shown on the plot were extrapolated from either 300 m or 30 m to the measurement distance of 3 m in accordance with ANSI C63.10, Clause 6.4.4.2.

2.4.5 Environmental Conditions

| Ambient Temperature | 19.1 °C |
|---------------------|---------|
| Relative Humidity | 30.0 % |

2.4.6 Test Results

HiTag - 125 kHz RFID Transceiver

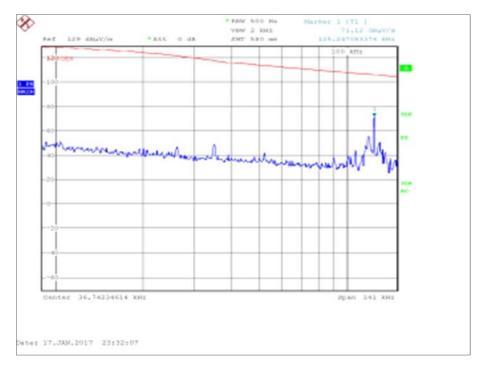
Transmit Mode, 9 kHz to 30 MHz

| Frequency (MHz) | Quasi-Peak Level (µV/m) at 3m | Quasi-Peak Level (µV/m) at 30m |
|-----------------|-------------------------------|--------------------------------|
| * | | |

Table 11

*No emissions were detected within 20 dB of the limit.





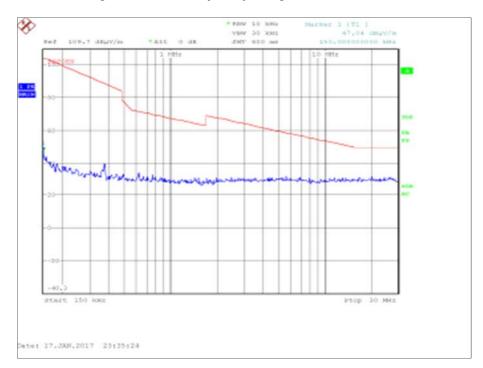


Figure 2 - Test Frequency Range 9 kHz to 150 kHz

Figure 3 - Test Frequency Range 150 kHz to 30 MHz



Persone
<t

Transmit Mode, 30 MHz to 1 GHz



| Frequency (MHz) | QP Level (dBμV/m) | QP Limit (dBµV/m) | QP Margin (dBµV/m) | Angle(Deg) | Height(m) | Polarity |
|--------------------|----------------------|----------------------|-----------------------|------------|-----------|------------|
| 31.359 | 29.7 | 40.0 | -10.3 | 103 | 1.00 | Horizontal |
| 58.513 | 26.2 | 40.0 | -13.8 | 87 | 1.00 | Vertical |
| 77.987 | 28.9 | 40.0 | -11.1 | 168 | 1.00 | Vertical |
| 390.009 | 40.4 | 46.0 | -5.6 | 353 | 1.28 | Vertical |
| 429.016 | 37.5 | 46.0 | -8.5 | 0 | 1.00 | Vertical |
| 500.070 | 36.3 | 46.0 | -9.7 | 183 | 1.00 | Vertical |
| 750.284 | 32.6 | 46.0 | -13.4 | 16 | 1.00 | Horizontal |
| 875.175 | 38.4 | 46.0 | -7.6 | 121 | 1.00 | Horizontal |

Table 12



Industry Canada RSS-310, Limit Clause

None specified.

Industry Canada RSS-GEN, Limit Clause 8.9

| Frequency (kHz) | Electric Field Strength (µV/m) | Magnetic Field Strength (H-Field) (µA/m) | Measurement Distance (metres) |
|-----------------|-----------------------------------|---|----------------------------------|
| 9 to 490 | 2400/F (F in kHz) | 2400/377F (F in kHz) | 300 |
| 490 to 1705 | 24000/F (F in kHz) | 24000/377F (F in kHz) | 30 |
| 1705 to 30000 | 30 | N/A | 30 |

| Frequency (MHz) | Field Strength (μ V/m at 3 metres) |
|-----------------|---|
| 30 to 88 | 100 |
| 88 to 216 | 150 |
| 216 to 960 | 200 |
| Above 960 | 500 |

FCC 47 CFR Part 15C, Clause 15.209

| Frequency (MHz) | Field Strength (µV/m) | Measurement Distance (metres) |
|-----------------|-----------------------|-------------------------------|
| 9 to 490 | 2400/F(kHz) | 300 |
| 490 to 1705 | 24000/F(kHz) | 30 |
| 1705 to 30000 | 30 | 30 |
| 30 to 88 | 100 | 3 |
| 88 to 216 | 150 | 3 |
| 216 to 960 | 200 | 3 |
| Above 960 | 500 | 3 |



2.4.7 Test Location and Test Equipment Used

This test was carried out in EMC Chamber 5.

| Instrument | Manufacturer | Type No | TE No | Calibration Period (months) | Calibration Due |
|---|-----------------|-------------|-------|-----------------------------------|-----------------|
| Antenna (Bilog) | Chase | CBL6143 | 2904 | 24 | 11-Jun-2017 |
| Antenna (Active Loop, 9kHz-30MHz) | Rohde & Schwarz | HFH2-Z2 | 333 | 24 | 9-Dec-2018 |
| Antenna (Dish/Tripod/Adaptor, 1GHz-18GHz) | Rohde & Schwarz | AC-008 | 334 | - | TU |
| Screened Room (5) | Rainford | Rainford | 1545 | 36 | 20-Dec-2017 |
| Hygrometer | Rotronic | HYGROPALM 1 | 2338 | 12 | 21-Sep-2017 |
| Turntable Controller | Inn-Co GmbH | CO 1000 | 1606 | - | TU |
| EMI Test Receiver | Rohde & Schwarz | ESU40 | 3506 | 12 | 12-Nov-2017 |

Table 13

TU - Traceability Unscheduled



3 Measurement Uncertainty

For a 95% confidence level, the measurement uncertainties for defined systems are:

| Test Name | Measurement Uncertainty | | |
|---------------------------------|---|--|--|
| Occupied Bandwidth | TBC by Lab | | |
| Transmitter Frequency Stability | TBC by Lab | | |
| Transmitter Output Power | Radiated: ± 5.1 dB Conducted: ± 0.96 dB | | |
| Transmitter Unwanted Emissions | 9 kHz to 30 MHz: ± 3.4 dB 30 MHz to 1 GHz: ± 5.1 dB 1GHz to 40GHz: ± 6.3 dB | | |

Table 14