



# TEST REPORT FROM RFI GLOBAL SERVICES LTD

Test of: eqo

To: FCC Part 15.249: 2009 Subpart C

#### Test Report Serial No: RFI-RPT-RP77750JD01B V2.0

#### **Version 2.0 Supersedes All Previous Versions**

| This Test Report Is Issued Under The Authority Of Brian Watson, Operations Director: | Mainin.       |
|--|---------------|
| Checked By:  | Nigel Davison |
| Signature:   | Maurin.       |
| Date of Issue:   | 20 May 2010   |

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# 1. Customer Information

| Company Name: | Smiths Detection Ireland Ltd |  |
|---------------|------------------------------|--|
| Address:      | Link Road                    |  |
|               | Ballincollig                 |  |
|               | Co. Cork                     |  |
|               | Ireland                      |  |

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## 2. Summary of Testing

#### 2.1. General Information

| Specification Reference: | 47CFR15.249  |
|--------------------------|--|
| Specification Title:     | Code of Federal Regulations Volume 47 (Telecommunications) 2009:<br>Part 15 Subpart C (Radio Frequency Devices) - Section 15.249 |
| Site Registration:       | FCC: 209735  |
| Location of Testing:     | RFI Global Services Ltd, Wade Road, Basingstoke, Hampshire, RG24 8AH.  |
| Test Dates:              | 06 May 2010 to 07 May 2010   |

#### 2.2. Summary of Test Results

| FCC Reference<br>(47CFR)     | Measurement                              | Result   |
|------------------------------|--|----------|
| FCC 15.107                   | Idle Mode AC Conducted Emissions         | <b>②</b> |
| FCC 15.109                   | Idle Mode Radiated Spurious Emissions    | <b>②</b> |
| FCC 15.207                   | Transmitter Mode AC Conducted Emissions  | <b>②</b> |
| FCC 15.249(a)                | Transmitter Fundamental Field Strength   | <b>Ø</b> |
| FCC 2.1049                   | Transmitter 20 dB Bandwidth              | <b>Ø</b> |
| FCC 15.249(a)(d)(e) & 15.209 | Transmitter Radiated Spurious Emissions  | •        |
| FCC 15.249(d)<br>& 15.209    | Transmitter Band Edge Radiated Emissions | <b>②</b> |
| Key to Results               | •  | ·        |
|                              | ot comply                                |          |

## 2.3. Methods and Procedures

| Reference: | ANSI C63.4 (2003)  |
|------------|--|
| 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. |

#### 2.4. Deviations from the Test Specification

For the measurements contained within this test report, there were no deviations from, additions to, or exclusions from the test specification identified above.

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## 3. Equipment Under Test (EUT)

#### 3.1. Identification of Equipment Under Test (EUT)

| Brand Name:              | eqo          |
|--------------------------|--------------|
| Model Name or Number:    | eqo          |
| Serial Number:           | 82471        |
| Hardware Version Number: | None Stated  |
| Software Version Number: | None Stated  |
| FCC ID Number:           | XM7-SD-E0002 |

#### 3.2. Description of EUT

The equipment under test was a full body scanner used for security screening to detect weapons, explosive, or contraband hidden under clothing using millimetre-wave technology.

#### 3.3. Modifications Incorporated in the EUT

No modifications were applied to the EUT during testing.

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## 3.4. Additional Information Related to Testing

| Category of Equipment:          | Short Range Device (SRD) |                |                               |  |  |
|---------------------------------|--------------------------|----------------|-------------------------------|--|--|
| Type of Equipment               | Transceiver              |                |                               |  |  |
| Intended Operating Environment: | Commercial               |                |                               |  |  |
| Modulation Type:                | Continuous Wave (C       | W)             |                               |  |  |
| Duty Cycle                      | 100%                     |                |                               |  |  |
| Channel Spacing:                | 40 MHz                   |                |                               |  |  |
| Antenna Connection Type:        | Integral                 |                |                               |  |  |
| Power Supply Requirement:       | 120VAC Nominal           |                |                               |  |  |
| Transmit Frequency Range:       | 24.00 GHz to 24.25 GHz   |                |                               |  |  |
| Transmit Channels Tested:       | Channel ID               | Channel Number | Channel<br>Frequency<br>(GHz) |  |  |
|                                 | Bottom                   | 1              | 24.080                        |  |  |
|                                 | Middle 3 24              |                | 24.160                        |  |  |
|                                 | Top 5 24.240             |                |                               |  |  |
| Receive Frequency Range:        | 24.00 GHz to 24.25 GHz   |                |                               |  |  |
| Receive Channels Tested:        | Channel ID               | Channel Number | Channel<br>Frequency<br>(GHz) |  |  |
|                                 | Bottom                   | 1              | 24.080                        |  |  |
|                                 | Middle                   | 3              | 24.160                        |  |  |
|                                 | Top 5 24.240             |                |                               |  |  |

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## 4. Operation and Monitoring of the EUT during Testing

#### 4.1. Operating Modes

The EUT was tested in the following operating mode(s):

- Continuous transmit at maximum output power at bottom, middle, top as required.
- Idle mode

#### 4.2. Configuration and Peripherals

The EUT was tested in the following configuration(s):

• For all tests, the EUT was tested standalone. A test mode was enabled on the EUT to allow continuous transmissions or continuous idle mode.

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## 5. Measurements, Examinations and Derived Results

#### **5.1. General Comments**

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 6. Measurement Uncertainty for details.

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ISSUE DATE: 20 MAY 2010

### 5.2. Test Results

### 5.2.1. Idle Mode AC Conducted Spurious Emissions

#### **Test Summary:**

| FCC Part:         | 15.107   |  |
|-------------------|--|--|
| Test Method Used: | As detailed in ANSI C63.4 Section 7 and relevant annexes |  |

#### **Environmental Conditions:**

| Temperature Range (°C):      | 22 |
|------------------------------|----|
| Relative Humidity Range (%): | 31 |

#### **Results: Quasi Peak Detector Measurements**

| Frequency<br>(MHz) | Line | Quasi Peak<br>Level<br>(dBμV) | Limit<br>(dΒμV) | Margin<br>(dB) | Result |
|--------------------|------|-------------------------------|-----------------|----------------|--------|
| See Note Below     |      |                               |                 |                |        |

#### **Results: Average Detector Measurements**

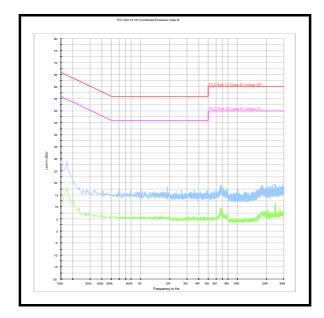
| Frequency<br>(MHz) | Line | Average Level<br>(dB <sub>µ</sub> V) | Limit<br>(dB <sub>µ</sub> V) | Margin<br>(dB) | Result |
|--------------------|------|--------------------------------------|------------------------------|----------------|--------|
| See Note Below     |      |                                      |                              |                |        |

#### Note(s):

1. All emissions were investigated and found to be at least 20 dB below the specified limit.

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## **Idle Mode AC Conducted Spurious Emissions (continued)**



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

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ISSUE DATE: 20 MAY 2010

## 5.2.2. Idle Mode Radiated Spurious Emissions

#### **Test Summary:**

| FCC Part:         | 15.109   |
|-------------------|--|
| Test Method Used: | As detailed in ANSI C63.4 Section 8 and relevant annexes |
| Frequency Range:  | 30 MHz to 1000 MHz                                       |

#### **Environmental Conditions:**

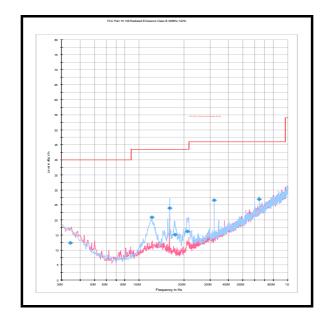
| Temperature Range (°C):      | 23 |
|------------------------------|----|
| Relative Humidity Range (%): | 31 |

#### Results:

| Frequency<br>(MHz) | Antenna<br>Polarity | Level<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) | Result   |
|--------------------|---------------------|-------------------|-------------------|----------------|----------|
| 160.003            | Horizontal          | 23.9              | 43.5              | 19.6           | Complied |
| 320.009            | Horizontal          | 26.6              | 46.0              | 19.4           | Complied |
| 640.001            | Horizontal          | 26.9              | 46.0              | 19.1           | Complied |

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## **Idle Mode Radiated Spurious Emissions (continued)**



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

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#### **Idle Mode Radiated Spurious Emissions (continued)**

#### **Test Summary:**

| FCC Part:         | 15.109   |
|-------------------|--|
| Test Method Used: | As detailed in ANSI C63.4 Section 8 and relevant annexes |
| Frequency Range:  | 1 GHz to 40 GHz  |

#### **Environmental Conditions:**

| Temperature Range (°C):      | 24 |
|------------------------------|----|
| Relative Humidity Range (%): | 25 |

#### **Results: Peak**

| Frequency | Antenna    | Level    | Limit    | Margin | Result   |
|-----------|------------|----------|----------|--------|----------|
| (MHz)     | Polarity   | (dBμV/m) | (dBμV/m) | (dB)   |          |
| 25984.880 | Horizontal | 64.7     | 80.0     | 15.3   | Complied |

#### **Results: Average**

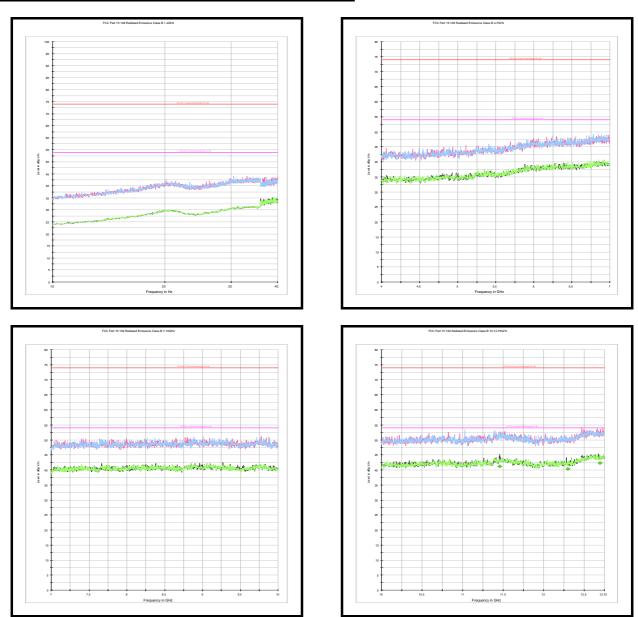
| Frequency<br>(MHz) | Antenna<br>Polarity | Level<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) | Result   |
|--------------------|---------------------|-------------------|-------------------|----------------|----------|
| 25984.880          | Horizontal          | 56.4              | 60.0              | 3.6            | Complied |

#### Note(s):

- 1. No spurious emissions were detected above the noise floor of the measuring receiver; therefore, the highest peak noise floor reading of the measuring receiver was recorded as shown in the table above.
- 2. Pre-scans for measurements made in the range of 12.75 GHz to 26.5 GHz were performed at 1.5 meter measurement distance instead of 3 meters. The limit has been corrected for measurements at this frequency range.

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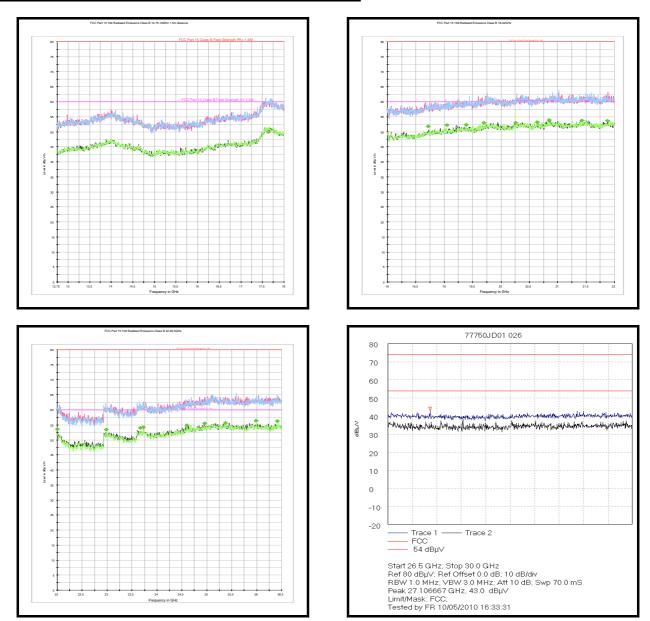
## **Idle Mode Radiated Spurious Emissions (continued)**



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

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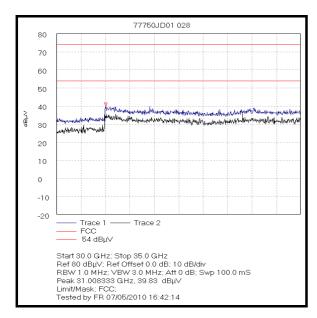
### **Idle Mode Radiated Spurious Emissions (continued)**

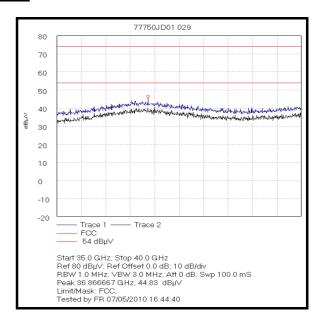


Note: These plots are pre-scans and for indication purposes only. For final measurements, see accompanying table.

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### **Idle Mode Radiated Spurious Emissions (continued)**





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

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#### 5.2.3. Transmitter Mode AC Conducted Spurious Emissions

#### **Test Summary:**

| FCC Part:         | 15.207   |
|-------------------|--|
| Test Method Used: | As detailed in ANSI C63.4 Section 7 and relevant annexes |

#### **Environmental Conditions:**

| Temperature Range (°C):      | 22 |
|------------------------------|----|
| Relative Humidity Range (%): | 31 |

#### **Results: Quasi Peak Detector Measurements**

| Frequency<br>(MHz) | Line | Quasi Peak<br>Level<br>(dBμV) | Limit<br>(dΒμV) | Margin<br>(dB) | Result |
|--------------------|------|-------------------------------|-----------------|----------------|--------|
| See Note Below     |      |                               |                 |                |        |

#### **Results: Average Detector Measurements**

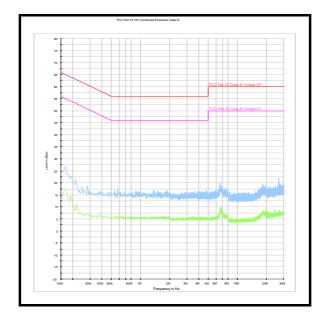
| Frequency<br>(MHz) | Line | Average Level<br>(dBμV) | Limit<br>(dBµV) | Margin<br>(dB) | Result |
|--------------------|------|-------------------------|-----------------|----------------|--------|
| See Note Below     |      |                         |                 |                |        |

#### Note(s):

1. All emissions were investigated and found to be at least 20 dB below the specified limit.

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## **Transmitter Mode AC Conducted Spurious Emissions (continued)**



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

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## 5.2.4. Transmitter Fundamental Field Strength

#### **Test Summary:**

| FCC Part:         | Section 15.249(a)   |
|-------------------|---|
| Test Method Used: | As detailed in ANSI C63.4 Section 8 and relevant annexes. |

#### **Environmental Conditions:**

| Temperature Range (°C):      | 24 |
|------------------------------|----|
| Relative Humidity Range (%): | 25 |

#### **Results: Peak Level**

| Channel | Frequency<br>(MHz) | Antenna<br>Polarity | Level<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) | Result   |
|---------|--------------------|---------------------|-------------------|-------------------|----------------|----------|
| Bottom  | 24080              | Horizontal          | 102.4             | 128.0             | 25.6           | Complied |
| Middle  | 24160              | Horizontal          | 103.3             | 128.0             | 24.7           | Complied |
| Тор     | 24240              | Horizontal          | 100.7             | 128.0             | 27.3           | Complied |

#### **Results: Average Level**

| Channel | Frequency<br>(MHz) | Antenna<br>Polarity | Level<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) | Result   |
|---------|--------------------|---------------------|-------------------|-------------------|----------------|----------|
| Bottom  | 24080              | Horizontal          | 103.3             | 108.0             | 4.7            | Complied |
| Middle  | 24160              | Horizontal          | 103.0             | 108.0             | 5.0            | Complied |
| Тор     | 24240              | Horizontal          | 100.8             | 108.0             | 7.2            | Complied |

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## 5.2.5. Transmitter 20 dB Bandwidth

#### **Test Summary:**

| FCC Part:         | 2.1049  |
|-------------------|---|
| Test Method Used: | As detailed in ANSI C63.4 Section 13.1.7 and relevant annexes |

#### **Environmental Conditions:**

| Temperature (°C):      | 24 |
|------------------------|----|
| Relative Humidity (%): | 25 |

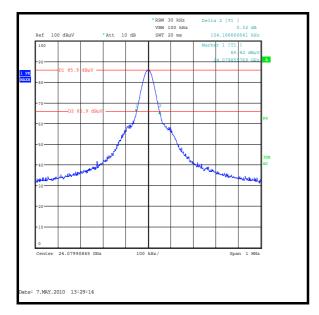
#### Results:

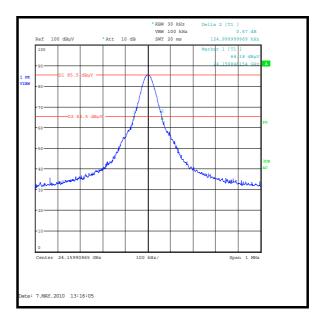
| Channel | 20 dB Bandwidth<br>(MHz) |
|---------|--------------------------|
| Bottom  | 0.104                    |
| Middle  | 0.125                    |
| Тор     | 0.123                    |

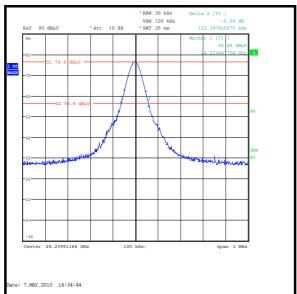
| Designated Frequency Band |                 |  |
|---------------------------|-----------------|--|
| Band (MHz)                | Bandwidth (MHz) |  |
| 24000 to 242500           | 2500.0          |  |

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### **Transmitter 20 dB Bandwidth (continued)**







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

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## 5.2.6. Transmitter Radiated Spurious Emissions

#### **Test Summary:**

| FCC Part:         | 15.249(a)(d)(e) & 15.209                                 |
|-------------------|--|
| Test Method Used: | As detailed in ANSI C63.4 Section 8 and relevant annexes |
| Frequency Range:  | 30 MHz to 1000 MHz                                       |

#### **Environmental Conditions:**

| Temperature (°C):      | 24 |
|------------------------|----|
| Relative Humidity (%): | 25 |

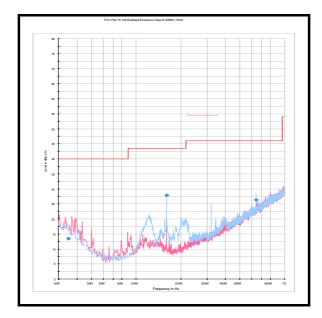
#### Results:

| Frequency<br>(MHz) | Antenna<br>Polarity | Level<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) | Result   |
|--------------------|---------------------|-------------------|-------------------|----------------|----------|
| 159.999            | Horizontal          | 27.9              | 43.5              | 15.6           | Complied |
| 639.990            | Horizontal          | 26.4              | 46.0              | 19.6           | Complied |

#### Note(s):

1. FCC Part 15.209 general limits are shown on the pre-scan plots.

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

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#### **Transmitter Radiated Spurious Emissions (continued)**

#### **Test Summary:**

| FCC Part:         | 15.249(a)(d)(e) & 15.209                                 |
|-------------------|--|
| Test Method Used: | As detailed in ANSI C63.4 Section 8 and relevant annexes |
| Frequency Range:  | 1 GHz to 100 GHz   |

#### **Environmental Conditions:**

| Temperature (°C):      | 24 |
|------------------------|----|
| Relative Humidity (%): | 25 |

#### **Results: Peak Level**

| Frequency |           | Antenna  | Level    | Limit    | Margin | Result   |  |
|-----------|-----------|----------|----------|----------|--------|----------|--|
| (MHz)     |           | Polarity | (dBμV/m) | (dBμV/m) | (dB)   |          |  |
|           | 21298.496 | Vertical | 61.0     | 80.0     | 19.0   | Complied |  |

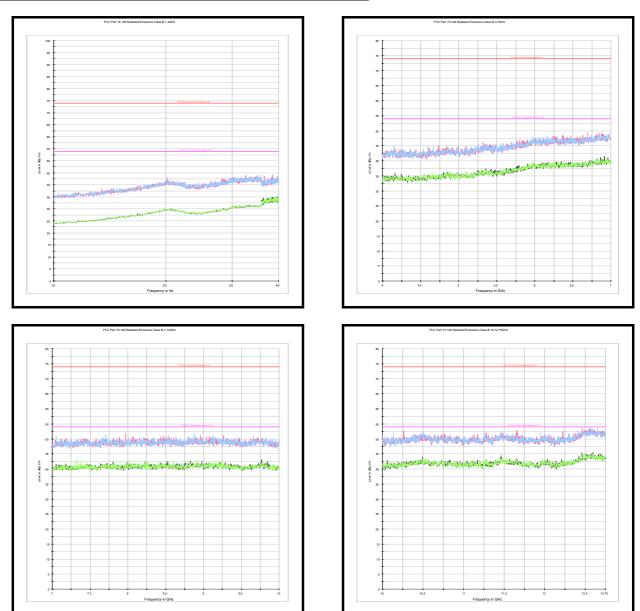
#### **Results: Average Level**

| Frequency |           | Antenna  | Level    | Limit    | Margin | Result   |
|-----------|-----------|----------|----------|----------|--------|----------|
| (MHz)     |           | Polarity | (dBμV/m) | (dBμV/m) | (dB)   |          |
|           | 21298.496 | Vertical | 52.5     | 60.0     | 7.5    | Complied |

#### Note(s):

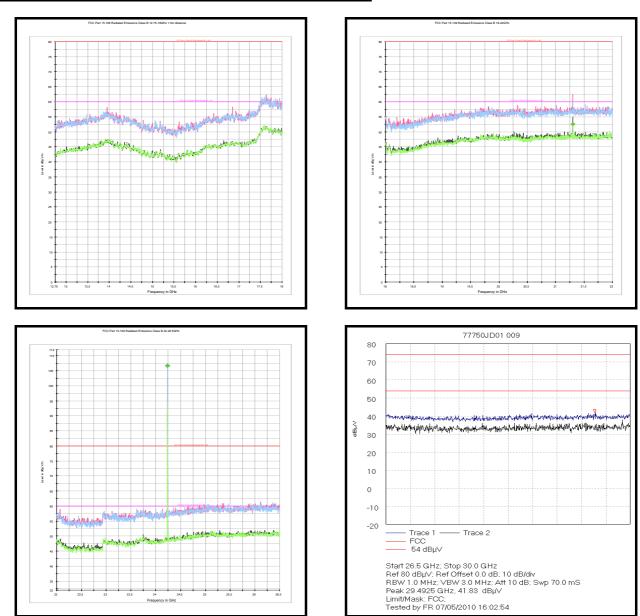
- 1. FCC Part 15.209 general limits are shown on the pre-scan plots.
- 2. Pre-scans for measurements made in the range of 12.75 GHz to 26.5 GHz were performed at 1.5 meter test distance instead of 3 meters. Therefore the limits have been corrected for measurements at this frequency range.
- 3. Emission shown at approximately 24.239 GHz on the 22 GHz to 26.5 GHz plot is the carrier.

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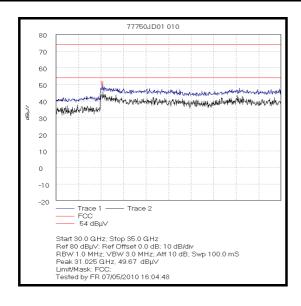
Note: These plots are pre-scans and for indication purposes only. For final measurements, see accompanying tables.

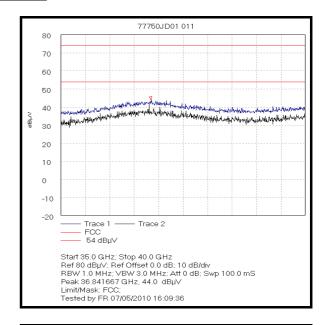
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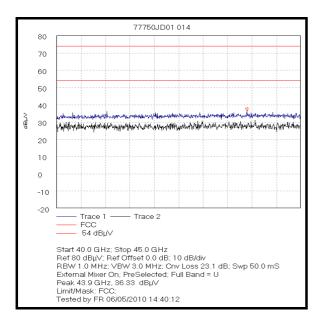


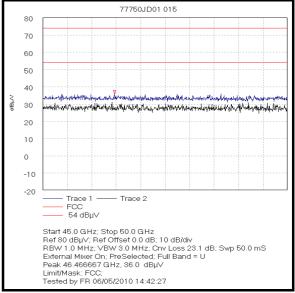
Note: These plots are pre-scans and for indication purposes only. For final measurements, see accompanying tables.

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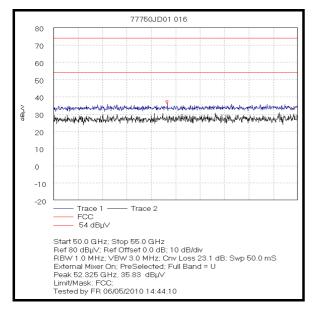
Note: These plots are pre-scans and for indication purposes only. For final measurements, see accompanying table.

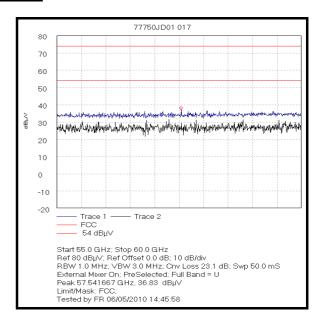
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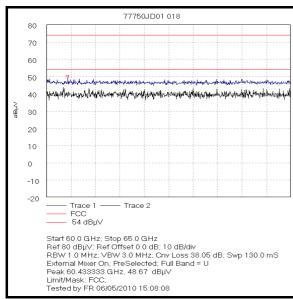
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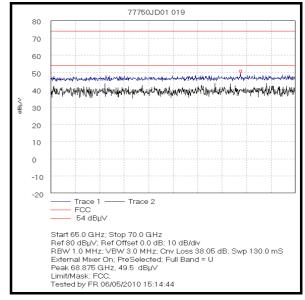
ISSUE DATE: 20 MAY 2010

#### **Transmitter Radiated Spurious Emissions (continued)**



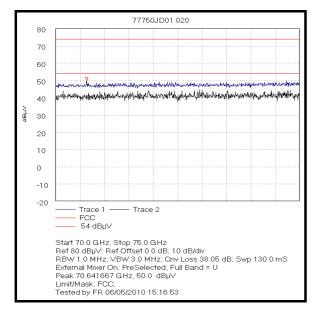


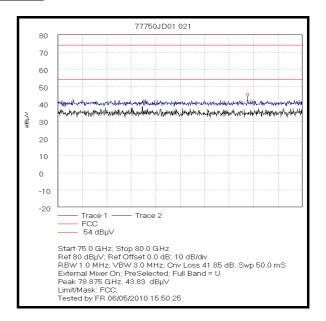


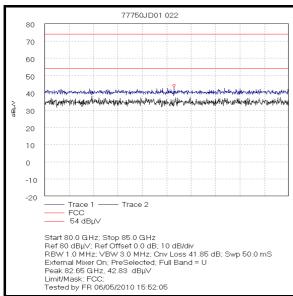


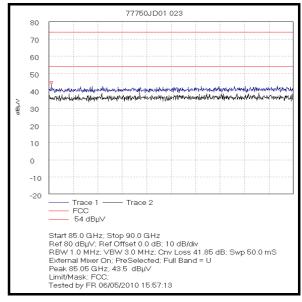
Note: These plots are pre-scans and for indication purposes only. For final measurements, see accompanying table.

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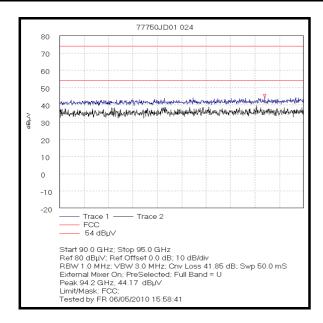


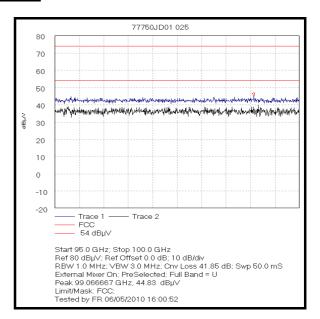


Note: These plots are pre-scans and for indication purposes only. For final measurements, see accompanying table.

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#### **Transmitter Radiated Spurious Emissions (continued)**





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

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#### 5.2.7. Transmitter Radiated Emissions at Band Edges

#### **Test Summary:**

| FCC Part:         | 15.249(d) & 15.209                                       |
|-------------------|--|
| Test Method Used: | As detailed in ANSI C63.4 Section 8 and relevant annexes |

#### **Environmental Conditions:**

| Temperature (°C):      | 23 |
|------------------------|----|
| Relative Humidity (%): | 26 |

#### **Peak Power Level:**

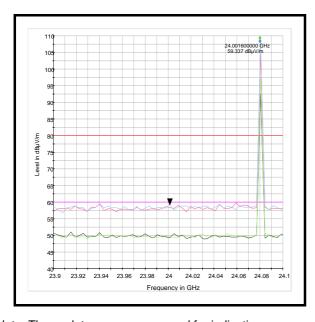
| Frequency<br>(GHz) | Antenna<br>Polarity | Detector<br>Level<br>(dBμV) | Transducer<br>Factor<br>(dB) | Actual<br>Level<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) | Result   |
|--------------------|---------------------|-----------------------------|------------------------------|-----------------------------|-------------------|----------------|----------|
| 24.000             | Horizontal          | 35.9                        | 23.4                         | 59.3                        | 80.0              | 20.7           | Complied |
| 24.250             | Horizontal          | 33.5                        | 23.5                         | 57.0                        | 80.0              | 23.0           | Complied |

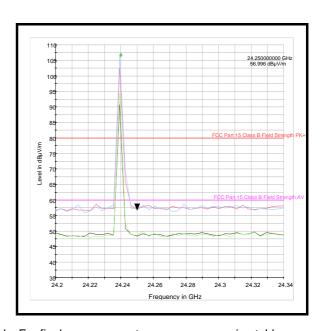
#### **Average Power Level:**

| Frequency<br>(GHz) | Antenna<br>Polarity | Detector<br>Level<br>(dBμV) | Transducer<br>Factor<br>(dB) | Actual<br>Level<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) | Result   |
|--------------------|---------------------|-----------------------------|------------------------------|-----------------------------|-------------------|----------------|----------|
| 24.000             | Horizontal          | 26.4                        | 23.4                         | 49.8                        | 60.0              | 10.2           | Complied |
| 24.250             | Horizontal          | 25.1                        | 23.5                         | 48.6                        | 60.0              | 11.4           | Complied |

#### Note(s):

1. Measurements were made at 1.5 meter test distance instead of 3 meters. Therefore the limits have been corrected for measurements at this test distance.





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

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## **6. Measurement Uncertainty**

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.

The expression of uncertainty of a measurement result allows realistic comparison of results with reference values and limits given in specifications and standards.

The uncertainty of the result may need to be taken into account when interpreting the measurement results.

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<br>Level (%) | Calculated<br>Uncertainty |
|--|--------------------|-------------------------|---------------------------|
| 20 dB Bandwidth                        | N/A                | 95%                     | ±0.92 ppm                 |
| Radiated Spurious Emissions            | 9 kHz to 1000 MHz  | 95%                     | ±3.53 dB                  |
| Radiated Spurious Emissions            | 1 GHz to 40 GHz    | 95%                     | ±2.94 dB                  |
| Transmitter Fundamental Field Strength | 30 MHz to 1000 MHz | 95%                     | ±4.64 dB                  |

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.

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## **Appendix 1. Test Equipment Used**

| RFI<br>No. | Instrument                  | Manufacturer                    | Type No.         | Serial No. | Date Last<br>Calibrated | Cal.<br>Interval<br>(Months) |
|------------|-----------------------------|---------------------------------|------------------|------------|-------------------------|------------------------------|
| A1033      | Harmonic Mixer              | Hewlett<br>Packard              | 11970W           | 2521A01380 | 09 Jun 2009             | 12                           |
| A1245      | Antenna                     | Dorado<br>international<br>corp | GH-10-25         | 200010     | Calibrated before use   | -                            |
| A1534      | Pre Amplifier               | Hewlett<br>Packard              | 8449B<br>OPT H02 | 3008A00405 | Calibrated before use   | -                            |
| A1817      | Antenna                     | EMCO                            | 3115             | 00075694   | 27 Nov 2009             | 12                           |
| A1829      | Pulse Limiter               | Rhode &<br>Schwarz              | ESH3-Z2          | 100671     | 25 Oct 2009             | 12                           |
| A1916      | Waveguide Horn<br>Antenna   | Flann Ltd.                      | 25240-25         | 166399     | 11 May 2010             | 12                           |
| A1970      | Pre-Amp                     | RFI                             | N/A              | N/A        | 26 Apr 2010             | 3                            |
| A203       | Antenna                     | Flann<br>Microwave Ltd          | 22240-20         | 343        | 11 May 2010             | 36                           |
| A360       | Waveguide Transition        | Flann                           | 22093-<br>KF20   | 778        | Calibrated before use   | -                            |
| A425       | Antenna                     | EMCO                            | 3116             | 9611-2330  | 18 Mar 2010             | 36                           |
| A553       | Antenna                     | Chase                           | CBL6111A         | 1593       | 16 Mar 2010             | 12                           |
| A649       | Single Phase LISN           | Rohde &<br>Schwarz              | ESH3-Z5          | 825562/008 | 16 Mar 2010             | 12                           |
| G0543      | Amplifier                   | Sonoma<br>Instrument Co.        | 310N             | 230801     | 04 Jun 2009             | 12                           |
| K0001      | 5m Semi-Anechoic<br>Chamber | Rainford EMC                    | N/A              | N/A        | 25 Apr 2010             | 12                           |
| L1001      | ESU26                       | ROHDE &<br>SCHWARZ              | ESU26            | 100239     | 28 Jan 2010             | 12                           |
| M1253      | Spectrum Analyser           | HP                              | 8564E            | 3442A00262 | 26 Jan 2010             | 12                           |
| M194       | Harmonic Mixer              | Hewlett<br>Packard              | 11970V           | 2521A01005 | 30 Jun 2009             | 12                           |
| M197       | Mixer                       | Hewlett<br>Packard              | 11970U           | 2332A00782 | 13 Jun 2009             | 12                           |

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

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