





TEST REPORT FROM RFI GLOBAL SERVICES LTD

Test of: Torch (EVDO Rev A) DCM300C

FCC ID: JUP-WCDCM300C

To: FCC Parts 15.109, 15.209 and 15.247 (b)(d)

Test Report Serial No: RFI-RPT-RP79038JD03A V5.0

Version 5.0 Supersedes All Previous Versions

This Test Report Is Issued Under The Authority Of Chris Guy, Head of Global Approvals:	1. M. Wester
Checked By:	lan Watch
Signature:	1.M. Wester
Date of Issue:	26 January 2011

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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

SERIAL NO: RFI-RPT-RP79038JD03A V5.0

VERSION 5.0 ISSUE DATE: 26 JANUARY 2011

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1. Customer Information

Company Name:	Trimble Navigation Ltd.
Address:	10355 Westmoor Dr Westminster Colo 80021 United States

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2. Summary of Testing

2.1. General Information

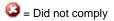
Specification Reference:	47CFR15.247
Specification Title:	Code of Federal Regulations Volume 47 (Telecommunications) 2010: Part 15 Subpart C (Intentional Radiators) - Section 15.247
Specification Reference:	47CFR15.109
Specification Title:	Code of Federal Regulations Volume 47 (Telecommunications) 2010: Part 15 Subpart B (Unintentional Radiators) – Section 15.109
Specification Reference:	47CFR15.209
Specification Title:	Code of Federal Regulations Volume 47 (Telecommunications) 2010: Part 15 Subpart C (Intentional Radiators) - Section 15.209
Site Registration:	209735
Location of Testing:	RFI Global Services Ltd, Wade Road, Basingstoke, Hampshire, RG24 8AH.
Test Dates:	02 December 2010 to 03 December 2010

2.2. Summary of Test Results

FCC Reference (47CFR)	Measurement	Result
Part 15.109	Receiver/Idle Mode Radiated Spurious Emissions	②
Part 15.247(b)(3)	Transmitter Maximum Peak Output Power	②
Part 15.247(d)/15.209(a)	Transmitter Radiated Emissions	②
Part 15.247(d)/15.209(a)	Transmitter Band Edge Radiated Emissions	②

Key to Results





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2.3. Methods and Procedures

Reference:	ANSI C63.4 (2009)
Title:	American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz
Reference:	ANSI C63.10 (2009)
Title:	American National Standard for Testing Unlicensed Wireless Devices

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:	Trimble Navigation DCM300C
Model Name or Number:	Torch / DCM300C
Serial Number:	5042Z00084
Hardware Version Number:	A
Software Version Number:	0.1.5
FCC ID:	JUP-WCDCM300C

3.2. Description of EUT

The equipment under test was a data communications module (DCM) for use in construction vehicles. It contains a Sierra Wireless CDMA module (FCC ID: N7N-MC5728) capable of 1xEV-DO and a Wi2Wi Wi-Fi module (FCC ID: U9R-W2CBW009DI) capable of 802.11b and 802.11g.

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

Technology Tested:	Digital Transmission System		
Type of Unit:	Transceiver		
Modulation:	DSSS and OFDM		
Data Rate:	11 Mbps and 24 Mbps	11 Mbps and 24 Mbps	
Power Supply Requirement(s):	Nominal	13.8 V	
Maximum Peak Output Power:	20.6 dBm	20.6 dBm	
Transmit Frequency Range:	2412 MHz to 2462 MHz	2412 MHz to 2462 MHz	
Transmit Channels Tested:	Channel ID	Channel Number	Channel Frequency (MHz)
	Bottom	1	2412
	Middle	6	2437
	Тор	11	2462
Receive Frequency Range:	2412 MHz to 2462 MHz		
Receive Channels Tested:	Channel ID	Channel Number	Channel Frequency (MHz)
	Bottom	1	2412
	Middle	6	2437
	Тор	11	2462

3.5. Support Equipment

The following support equipment was used to exercise the EUT during testing:

Description:	Laptop
Brand Name:	Dell
Model Name or Number:	Latitude D610
Serial Number:	RFI Asset Number PC 344NT

Description:	DC Power Supply
Brand Name:	TTi
Model Name or Number:	EL301D
Serial Number:	249944

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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):

- All 802.11b and 802.11g modes were initially tested in order to establish which operating modes
 produced the highest EIRP and highest emission levels. 802.11b 11 Mbps and 802.11g 24 Mbps
 modes were found to be worst case modes. Final measurements were performed in these modes.
- Transmitting on bottom, middle and top channels.
- Receiver/Idle Mode.

4.2. Configuration and Peripherals

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

- Mobilemark RM3-2400 Wi-Fi antenna was used during testing.
- · Power was supplied from a bench power supply.
- All cabling present on the wiring harness was correctly terminated when not in use.
- Manufacturing Mode of the software was enabled to allow control of Wi-Fi settings. This was enabled
 and controlled via the serial port of the wiring harness connected to a PC equipped with any generic
 terminal software. It enabled manual setup of the EUT Wi-Fi channel, data rate and power for test
 purposes.

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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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5.2. Test Results

5.2.1. Receiver/Idle Mode Radiated Spurious Emissions

Test Summary:

Test Engineer:	Crawford Lindsay	Test Date:	03 December 2010
Test Sample Serial No:	5042Z00084		

FCC Part:	15.109
Test Method Used:	As detailed in ANSI C63.10 Sections 6.3 and 6.5 referencing ANSI C63.4
Frequency Range:	30 MHz to 1000 MHz

Environmental Conditions:

Temperature (°C):	24
Relative Humidity (%):	20

Results: Quasi Peak

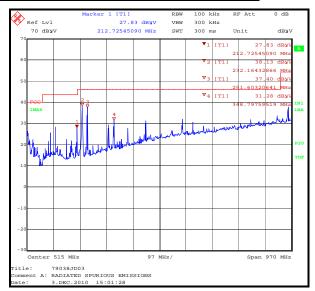
Frequency (MHz)	Antenna Polarity	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
135.325	Vertical	30.7	43.5	12.8	Complied
212.680	Horizontal	31.7	43.5	11.8	Complied
232.049	Horizontal	39.8	46.0	6.2	Complied
251.327	Horizontal	37.1	46.0	8.9	Complied
328.692	Vertical	31.2	46.0	14.8	Complied
348.011	Vertical	39.5	46.0	6.5	Complied
464.023	Horizontal	34.4	46.0	11.6	Complied
599.313	Horizontal	31.8	46.0	14.2	Complied
986.062	Horizontal	42.1	54.0	11.9	Complied

Note(s):

- 1. The final measured value, for the given emission, in the table above incorporates the calibrated antenna factor and cable loss.
- 2. All other emissions shown on the pre-scan plot were investigated and found to be ambient or >20 dB below the applicable limit or below the measurement system noise floor.

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Receiver/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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Receiver/Idle Mode Radiated Spurious Emissions (continued)

Test Summary:

Test Engineer:	Andrew Edwards	Test Date:	03 December 2010
Test Sample Serial No:	5042Z00084		

FCC Part:	15.109
Test Method Used:	As detailed in ANSI C63.10 Sections 6.3 and 6.6 referencing ANSI C63.4
Frequency Range:	1 GHz to 12.5 GHz

Environmental Conditions:

Temperature (°C):	24
Relative Humidity (%):	18

Results:

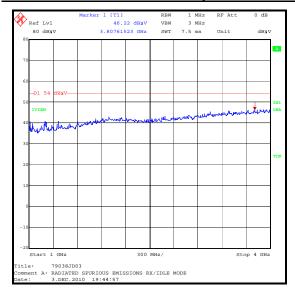
Frequency (MHz)	Antenna Polarity	Peak Level (dBμV/m)	Average Limit (dBμV/m)	Margin (dB)	Result
1204.659	Horizontal	43.6	54.0	10.4	Complied

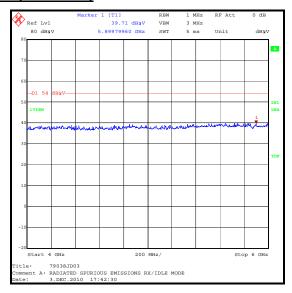
Note(s):

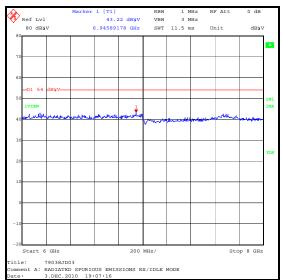
- 1. The final measured value, for the given emission, in the table above incorporates the calibrated antenna factor and cable loss.
- No spurious emissions were detected above the noise floor of the measuring receiver therefore the
 highest peak noise floor reading of the measuring receiver was recorded as shown in the table above.
 The peak level was compared to the average limit as opposed to being compared to the peak limit
 because this is the more onerous limit.

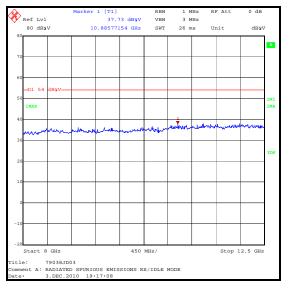
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Receiver/Idle Mode Radiated Spurious Emissions (continued)









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5.2.2. Transmitter Maximum Peak Output Power

Test Summary:

Test Engineer:	Crawford Lindsay	Test Date:	03 December 2010
Test Sample Serial No:	5042Z00084		

FCC Part:	15.247(b)(3)
Test Method Used:	As detailed in ANSI C63.10 Section 6.10.2 and Sections 6.3 and 6.6 referencing ANSI C63.4 (see note below)

Environmental Conditions:

Temperature (°C):	22
Relative Humidity (%):	21

Results: 802.11b / 11 Mbps

Channel	EIRP (dBm)	De Facto EIRP Limit (dBm)	Margin (dB)	Result
Bottom	18.4	36.0	17.6	Complied
Middle	15.0	36.0	21.0	Complied
Тор	14.2	36.0	21.8	Complied

Results: 802.11g / 24 Mbps

Channel	EIRP (dBm)	De Facto EIRP Limit (dBm)	Margin (dB)	Result
Bottom	20.6	36.0	15.4	Complied
Middle	17.6	36.0	18.4	Complied
Тор	17.0	36.0	19.0	Complied

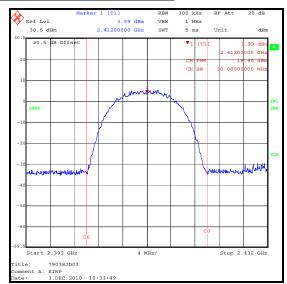
Note(s):

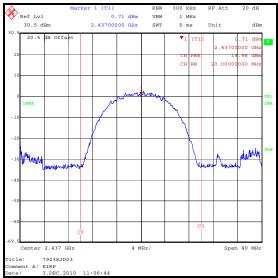
- Tests were performed using a combination of the conducted test method described in ANSI C63.10
 Section 6.10.2 and the test methods for radiated emissions measurements described in Sections 6.3 and
 6.6. The reason for this being that the measurements were performed radiated as the EUT has an
 external antenna and the Customer requested that all measurements were performed with the antenna
 connected.
- 2. EIRP was measured using the channel power function of a spectrum analyser. Measurement bandwidths were set automatically by the spectrum analyser.

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Transmitter Maximum Peak Output Power (continued)

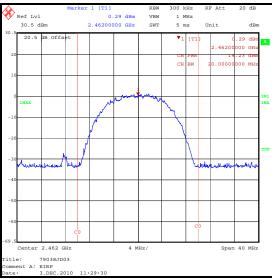
Results: 802.11b / 11 Mbps





Bottom channel





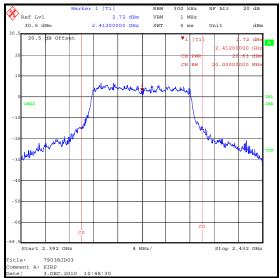
Top channel

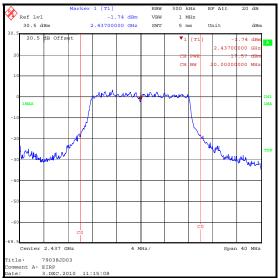
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Transmitter Maximum Peak Output Power (continued)

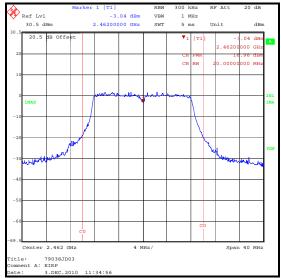
Results: 802.11g / 24 Mbps





Bottom channel





Top channel

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5.2.3. Transmitter Radiated Emissions

Test Summary:

Test Engineer:	Crawford Lindsay	Test Date:	03 December 2010
Test Sample Serial No:	5042Z00084		

FCC Part:	15.247(d) & 15.209(a)
Test Method Used:	As detailed in ANSI C63.10 Sections 6.3 and 6.5 referencing ANSI C63.4
Frequency Range	30 MHz to 1000 MHz

Environmental Conditions:

Temperature (°C):	24
Relative Humidity (%):	20

Results: Quasi Peak / Top Channel

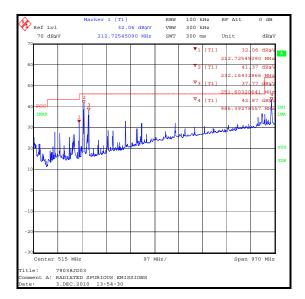
Frequency (MHz)	Antenna Polarity	Level (dBμV/m)	Limit (dB _µ V/m)	Margin (dB)	Result
115.986	Horizontal	27.5	43.5	16.0	Complied
135.335	Vertical	28.3	43.5	15.2	Complied
193.393	Horizontal	24.6	43.5	18.9	Complied
212.695	Horizontal	31.2	43.5	12.3	Complied
231.999	Horizontal	41.5	46.0	4.5	Complied
251.347	Vertical	37.9	46.0	8.1	Complied
328.732	Horizontal	28.6	46.0	17.4	Complied
399.984	Horizontal	33.4	46.0	12.6	Complied
464.063	Vertical	32.2	46.0	13.8	Complied
599.524	Vertical	31.6	46.0	14.4	Complied
985.935	Horizontal	40.4	54.0	13.6	Complied

Note(s):

- 1. The final measured value, for the given emission, in the table above incorporates the calibrated antenna factor and cable loss
- 2. The preliminary scans showed similar emission levels below 1 GHz, for each channel of operation. Therefore final radiated emissions measurements were performed with the EUT set to the top channel only.
- 3. All other emissions were at least 20 dB below the appropriate limit or below the noise floor of the measurement system.
- 4. Transmitter spurious emissions were performed with the EUT transmitting with a data rate of 24 Mbps, as this was seen to have the highest power level and therefore deemed to be worst case

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Transmitter Radiated Emissions (continued)



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

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Transmitter Radiated Emissions (continued)

Test Summary:

Test Engineer:	Andrew Edwards	Test Date:	03 December 2010
Test Sample Serial No:	5042Z00084		

FCC Part:	15.247(d) & 15.209(a)
Test Method Used:	As detailed in ANSI C63.10 Sections 6.3 and 6.6 referencing ANSI C63.4
Frequency Range	1 GHz to 25 GHz

Environmental Conditions:

Temperature (°C):	24
Relative Humidity (%):	18

802.11b / 11 Mbps

Results: Peak Bottom Channel

Frequency (MHz)	Antenna Polarity	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
4823.798	Vertical	42.9	74.0	31.1	Complied

Results: Average Bottom Channel

Frequency (MHz)	Antenna Polarity	Level (dB _μ V/m)	Limit (dBμV/m)	Margin (dB)	Result
4823.798	Vertical	26.9	54.0	27.1	Complied

Results: Peak Middle Channel

Frequency	Antenna	Level	Limit	Margin	Result
(MHz)	Polarity	(dBμV/m)	(dBμV/m)	(dB)	
4873.748	Vertical	49.1	74.0	24.9	Complied

Results: Average Middle Channel

Frequency (MHz)	Antenna Polarity	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
4873.748	Vertical	27.6	54.0	26.4	Complied

Results: Peak Top Channel

Frequency	Antenna	Level	Limit	Margin	Result
(MHz)	Polarity	(dBμV/m)	(dBμV/m)	(dB)	
4924.176	Horizontal	41.1	74.0	32.9	Complied

Results: Average Top Channel

Frequency (MHz)	Antenna Polarity	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
4924.176	Horizontal	26.8	54.0	27.2	Complied

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Transmitter Radiated Emissions (continued)

802.11g: 24 Mbps

Results: Peak Bottom Channel

Frequency	Antenna	Level	Limit	Margin	Result
(MHz)	Polarity	(dBμV/m)	(dBμV/m)	(dB)	
4825.645	Vertical	53.5	74.0	20.5	Complied

Results: Average Bottom Channel

Frequency (MHz)	Antenna Polarity	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
4825.645	Vertical	26.5	54.0	27.5	Complied

Results: Peak Middle Channel

Frequency	Antenna	Level	Limit	Margin	Result
(MHz)	Polarity	(dBμV/m)	(dBμV/m)	(dB)	
4875.783	Vertical	45.0	74.0	29.0	Complied

Results: Average Middle Channel

Frequency (MHz)	Antenna Polarity	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
4875.783	Vertical	26.6	54.0	27.4	Complied

Results: Peak Top Channel

Frequency	Antenna	Level	Limit	Margin	Result
(MHz)	Polarity	(dBμV/m)	(dBμV/m)	(dB)	
4923.785	Vertical	49.6	74.0	24.4	Complied

Results: Average Top Channel

Frequency	Antenna	Level	Limit	Margin	Result
(MHz)	Polarity	(dBμV/m)	(dBμV/m)	(dB)	
4923.785	Vertical	25.9	54.0	28.1	Complied

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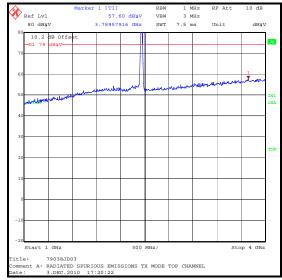
Transmitter Radiated Emissions (continued)

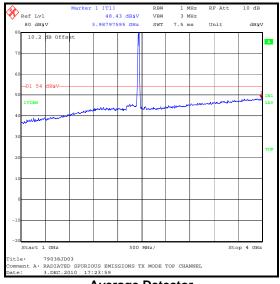
Note(s):

- 1. The final measured value, for the given emission, in the table above incorporates the calibrated antenna factor and cable loss
- 2. All other emissions shown on the pre-scan plot were investigated and found to be ambient or >20 dB below the applicable limit or below the measurement system noise floor.
- 3. The emission shown on the 1 GHz to 4 GHz plot is the EUT fundamental.
- 4. All pre-scans were performed with a peak detector against average limits apart from measurements made in the range 1 to 4 GHz where pre-scans were performed with peak and average detectors and the applicable limit applied. This was due to the noise floor exceeding the average limit when using a peak detector
- 5. Transmitter spurious emissions were performed with the EUT transmitting with a data rate 11 Mbps in 802.11b mode and 24 Mbps in 802.11g mode, as this were seen to have the highest power level and therefore deemed to be worst case
- 6. Final measurements were made using appropriate RF attenuators and RF filters where required.

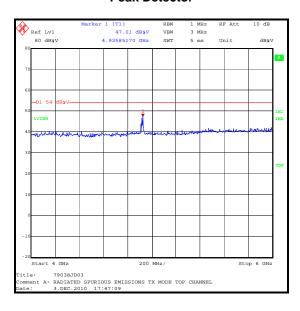
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Transmitter Radiated Emissions (continued)

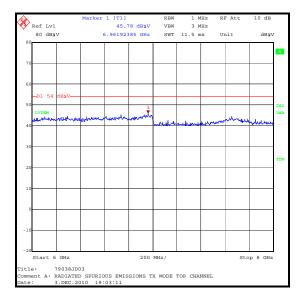




Peak Detector

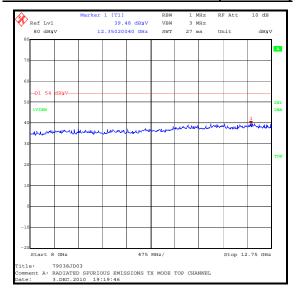


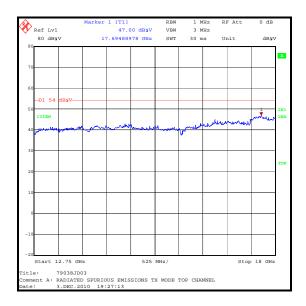
Average Detector

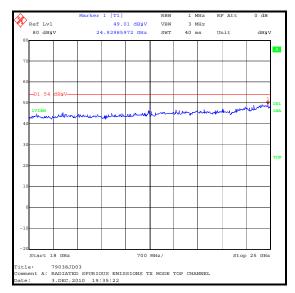


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Transmitter Radiated Emissions (continued)







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

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5.2.4. Transmitter Band Edge Radiated Emissions

Test Summary:

Test Engineer:	Andrew Edwards	Test Date:	03 December 2010
Test Sample Serial No:	5042Z00084		

FCC Part:	15.247(d) & 15.209(a)
Test Method Used:	As detailed in ANSI C63.10 Section 6.9.2

Environmental Conditions:

Temperature (°C):	23
Relative Humidity (%):	18

Results: 802.11b / 11 Mbps Peak

Frequency (MHz)	Level (dBμV/m)	Limit (dΒμV/m)	Margin (dB)	Result
2400	53.5	79.5*	26.0	Complied
2483.5	62.0	74.0	12.0	Complied

Results: 802.11b / 11 Mbps Average

Frequency	Level	Limit	Margin	Result
(MHz)	(dBμV/m)	(dBμV/m)	(dB)	
2483.5	49.1	54.0	4.9	Complied

Results: 802.11g / 24 Mbps Peak

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
2400	74.2	80.5*	6.3	Complied
2483.5	65.8	74.0	8.2	Complied

Results: 802.11g / 24 Mbps Average

Frequency (MHz)	Level (dBμV/m)	Limit (dΒμV/m)	Margin (dB)	Result
2483.5	49.3	54.0	4.7	Complied

Note(s):

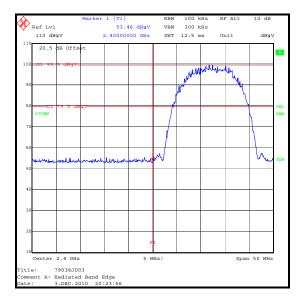
1. The final measured value, for the given emission, in the table above incorporates the calibrated antenna factor and cable loss.

2. * -20 dBc limit.

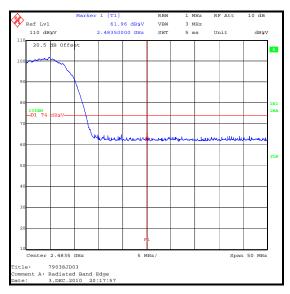
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Transmitter Band Edge Radiated Emissions (continued)

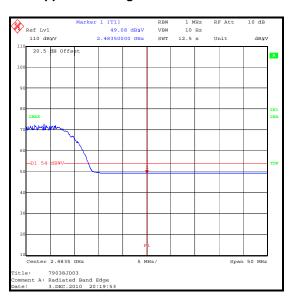
Results: 802.11b / 11 Mbps



Lower Band Edge Peak Measurement



Upper Band Edge Peak Measurement

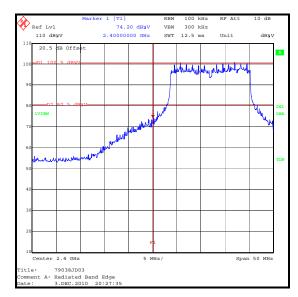


Upper Band Edge Average Measurement

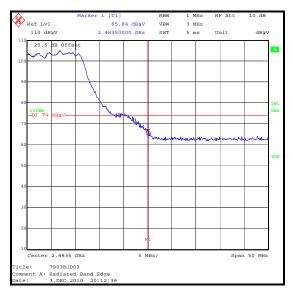
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Transmitter Band Edge Radiated Emissions (continued)

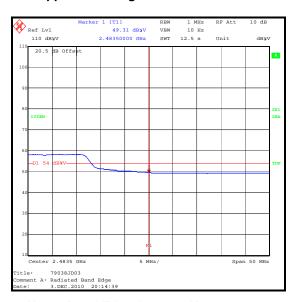
Results: 802.11g / 24 Mbps



Lower Band Edge Peak Measurement



Upper Band Edge Peak Measurement



Upper Band Edge Average Measurement

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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 Level (%)	Calculated Uncertainty	
Radiated Maximum Peak Output Power	2.4 GHz to 2.4835 GHz	95%	±2.94 dB	
Radiated Spurious Emissions	30 MHz to 26.5 GHz	95%	±2.94 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 No.	Instrument	Manufacturer	Type No.	Serial No.	Date Calibration Due	Cal. Interval (Months)
A1393	Attenuator	Huber & Suhner	757456	6820.17.B	06 Jul 2011	12
A1396	Attenuator	Huber & Suhner	757987	6810.17.B	06 Jul 2011	12
A1534	Pre Amplifier	Hewlett Packard	8449B	3008A00405	06 Jun 2011	12
A1818	Antenna	EMCO	3115	00075692	05 Sep 2011	12
A253	Antenna	Flann Microwave	12240-20	128	05 Sep 2011	12
A254	Antenna	Flann Microwave	14240-20	139	05 Sep 2011	12
A255	Antenna	Flann Microwave	16240-20	519	05 Sep 2011	12
A288	Antenna	Chase	CBL6111A	1589	05 Sep 2011	12
A436	Antenna	Flann Microwave	20240-20	330	05 Sep 2011	12
A553	Antenna	Chase	CBL6111A	1593	16 Mar 2011	12
G0543	Amplifier	Sonoma	310N	230801	30 Jun 2011	12
K0001	5m RSE Chamber	Rainford EMC	N/A	N/A	25 Apr 2011	12
K0002	3m RSE Chamber	Rainford EMC	N/A	N/A	05 Sep 2011	12
L1001	ESU26	Rohde & Schwarz	ESU26	100239	28 Jan 2011	12
M1124	Test Receiver	Rohde & Schwarz	ESI26	100046K	22 Apr 2011	12

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

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