



TEST REPORT FROM RFI GLOBAL SERVICES LTD

Test of: Blu+

FCC ID: S5E1106MM1

IC Certification Number: 9086A-BT70212

To: FCC Part 15.249: 2011 Subpart C & Industry Canada RSS-210
Issue 8 December 2010; RSS-Gen Issue 3 December 2010

Test Report Serial No.:
RFI-RPT-RP80655JD12A

This Test Report Is Issued Under The Authority Of John Newell, Group Quality Manager:		 pp
Checked By:	Ian Watch	
Signature:		
Date of Issue:	21 May 2012	

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1. Customer Information

Company Name:	Satellite Tracking of People LLC
Address:	1212 North Post Oak Road Suite 100 Houston Texas 77055

2. Summary of Testing

2.1. General Information

Specification Reference:	47CFR15.249
Specification Title:	Code of Federal Regulations Volume 47 (Telecommunications) 2011: Part 15 Subpart C (Intentional Radiators) - Section 15.249
Specification Reference:	47CFR15.107 and 47CFR15.109
Specification Title:	Code of Federal Regulations Volume 47 (Telecommunications) 2011: Part 15 Subpart B (Unintentional Radiators) - Sections 15.107 and 15.109
Specification Reference:	47CFR15.207 and 47CFR15.209
Specification Title:	Code of Federal Regulations Volume 47 (Telecommunications) 2011: Part 15 Subpart C (Intentional Radiators) - Sections 15.207 and 15.209
Specification Reference:	RSS-Gen Issue 3 December 2010
Specification Title:	General Requirements and Information for the Certification of Radio Apparatus
Specification Reference:	RSS-210 Issue 8 December 2010
Specification Title:	Licence-exempt Radio Apparatus (All Frequency Bands): Category I Equipment.
Site Registration:	FCC: 209735; Industry Canada: 3245B-2
Location of Testing:	RFI Global Services Ltd, Wade Road, Basingstoke, Hampshire, RG24 8AH.
Test Dates:	29 February 2012 to 16 May 2012

2.2. Summary of Test Results

FCC Reference (47CFR)	IC Reference	Measurement	Result
Part 15.107(a)	RSS-Gen 7.2.4	Receiver/Idle Mode AC Conducted Emissions	
Part 15.109	RSS-Gen 4.10/6	Receiver/Idle Mode Radiated Spurious Emissions	
Part 15.207	RSS-Gen 7.2.4	Transmitter AC Conducted Emissions	
Part 15.249(a)	RSS-Gen 4.8 RSS-210 A2.9	Transmitter Fundamental Field Strength	
Part 2.1049	N/A	Transmitter 20 dB Bandwidth	
N/A	RSS-Gen 4.6.1	Transmitter 99% Bandwidth	
Part 15.249(a)(d)(e)/ 15.209(a)	RSS-Gen 4.9 RSS-210 A2.9	Transmitter Radiated Emissions	
Part 15.249(d)/ 15.209(a)	RSS-Gen 4.9 RSS-210 A8.5	Transmitter Band Edge Radiated Emissions	
Key to Results  = Complied  = Did not comply			

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.

3. Equipment Under Test (EUT)

3.1. Identification of Equipment Under Test (EUT)

Brand Name:	Blutag
Model Name or Number:	Blu+
Serial Number:	KQ010A01
Hardware Version Number:	GG79-009
Software Version Number:	V2_01
FCC ID:	S5E1106MM1
IC Certification Number:	9086A-BT70212

Description:	AC Power Supply Charger
Brand Name:	Spry Power Products
Model Name or Number:	PA1015-2HU
Serial Number:	A20100200016532

3.2. Description of EUT

The equipment under test was a body worn tracking device, which incorporated a Low Power 915 MHz single channel transceiver, GSM/GPRS module and GPS receiver. For charging purposes, the EUT is docked into an AC Power Supply Charger.

3.3. Modifications Incorporated in the EUT

No modifications were applied to the EUT during testing.

3.4. Additional Information Related to Testing

Tested Technology:	Low Power Transceiver	
Power Supply Requirement:	Nominal	3.7 VDC
Type of Unit:	Transceiver	
Modulation:	FSK	
Transmit Frequency Range:	902 - 928 MHz band	
Transmit Channels Tested:	Channel Frequency (MHz)	
	915	
Receive Frequency Range:	902 - 928 MHz band	
Receive Channels Tested:	Channel Frequency (MHz)	
	915	

3.5. Support Equipment

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

4. Operation and Monitoring of the EUT during Testing

4.1. Operating Modes

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

- Transmit Mode - continuously transmitting with 100% duty cycle at maximum power and a modulated carrier.
- Receive/Idle mode.

4.2. Configuration and Peripherals

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

- The EUT had test software pre-installed by the Customer, which allowed selection of a continuous transmission at maximum power, with modulation applied.
- The EUT powered up in a standby/receive mode.
- AC conducted tests were performed with the EUT connected to the PA1015-2HU AC charger unit. The PA1015-2HU was connected to 120 VAC 60 Hz single phase supply via a LISN.
- A test SIM was fitted to the EUT for all tests.

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.

5.2. Test Results

5.2.1. Receiver/Idle Mode AC Conducted Spurious Emissions

Test Summary:

Test Engineer:	Nick Steele	Test Date:	01 March 2012
Test Sample Serial No:	KQ010A01		

FCC Part:	15.107
Test Method Used:	As detailed in ANSI C63.10 Section 6.2 referencing ANSI C63.4

Environmental Conditions:

Temperature (°C):	26
Relative Humidity (%):	32

Results: Live / Quasi Peak

Frequency (MHz)	Line	Level (dBμV)	Limit (dBμV)	Margin (dB)	Result
0.150	Live	43.4	66.0	22.6	Complied
0.150	Live	43.5	66.0	22.5	Complied
0.150	Live	43.4	66.0	22.6	Complied
0.200	Live	36.6	63.6	27.0	Complied
0.231	Live	34.6	62.4	27.8	Complied
0.231	Live	34.4	62.4	28.0	Complied
0.375	Live	33.3	58.4	25.1	Complied

Results: Live / Average

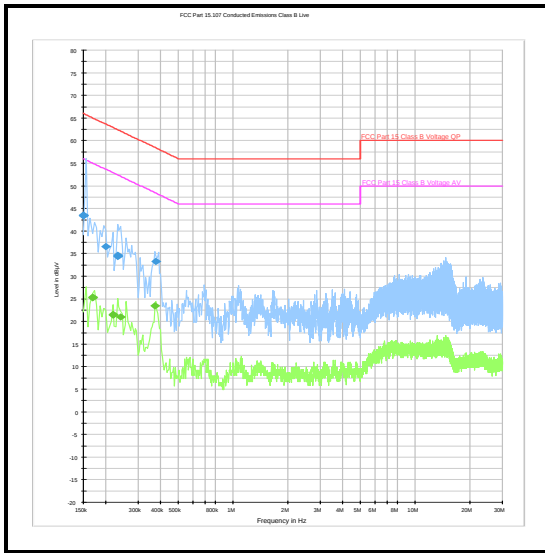
Frequency (MHz)	Line	Level (dBμV)	Limit (dBμV)	Margin (dB)	Result
0.168	Live	25.3	55.1	29.8	Complied
0.168	Live	25.2	55.1	29.9	Complied
0.218	Live	21.4	52.9	31.5	Complied
0.218	Live	21.6	52.9	31.3	Complied
0.240	Live	21.0	52.1	31.1	Complied
0.371	Live	23.5	48.5	25.0	Complied

Receiver/Idle Mode AC Conducted Spurious Emissions (continued)**Results: Neutral / Quasi Peak**

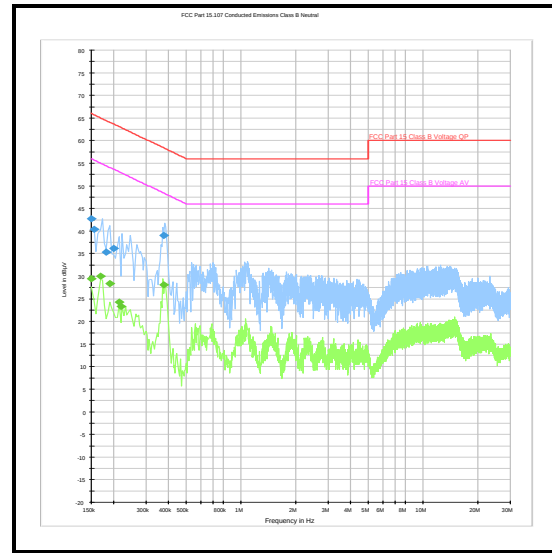
Frequency (MHz)	Line	Level (dB μ V)	Limit (dB μ V)	Margin (dB)	Result
0.150	Neutral	42.8	66.0	23.2	Complied
0.155	Neutral	40.4	65.8	25.4	Complied
0.182	Neutral	35.3	64.4	29.1	Complied
0.200	Neutral	36.2	63.6	27.4	Complied
0.375	Neutral	39.0	58.4	19.4	Complied

Results: Neutral / Average

Frequency (MHz)	Line	Level (dB μ V)	Limit (dB μ V)	Margin (dB)	Result
0.150	Neutral	29.5	56.0	26.5	Complied
0.168	Neutral	30.1	55.1	25.0	Complied
0.191	Neutral	28.3	54.0	25.7	Complied
0.213	Neutral	24.2	53.1	28.9	Complied
0.218	Neutral	23.3	52.9	29.6	Complied
0.375	Neutral	28.0	48.4	20.4	Complied

Receiver/Idle Mode AC Conducted Spurious Emissions (continued)

Live



Neutral

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

5.2.2. Receiver/Idle Mode Radiated Spurious Emissions**Test Summary:**

Test Engineer:	Nick Steele	Test Date:	29 February 2012
Test Sample Serial No:	KQ010A01		

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:

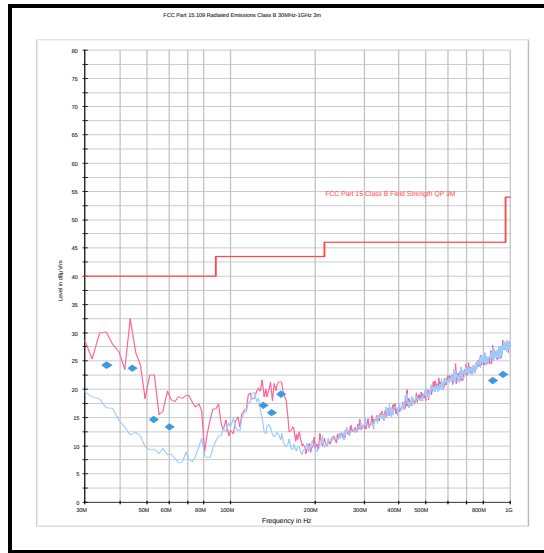
Temperature (°C):	24
Relative Humidity (%):	24

Results: Quasi Peak

Frequency (MHz)	Antenna Polarity	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
35.826	Vertical	24.3	40.0	15.7	Complied
36.087	Vertical	24.3	40.0	15.7	Complied
44.208	Vertical	23.7	40.0	16.3	Complied
52.745	Vertical	14.6	40.0	25.4	Complied
59.990	Vertical	13.4	40.0	26.6	Complied
130.018	Vertical	17.1	43.5	26.4	Complied
139.267	Vertical	15.8	43.5	27.7	Complied
150.430	Vertical	19.1	43.5	24.4	Complied
866.790	Vertical	21.6	46.0	24.4	Complied
942.054	Vertical	22.7	46.0	23.3	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.
3. Measurements below 1 GHz were performed in a semi-anechoic chamber (RFI Asset Number K0001) at a distance of 3 metres. The EUT was placed at a height of 80 cm above the reference ground plane in the centre of the chamber turntable. Maximum emission levels were determined by height searching the measurement antenna over the range 1 metre to 4 metres.

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.

Receiver/Idle Mode Radiated Spurious Emissions (continued)**Test Summary:**

Test Engineer:	Nick Steele	Test Date:	29 February 2012
Test Sample Serial No:	KQ010A01		

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 5 GHz

Environmental Conditions:

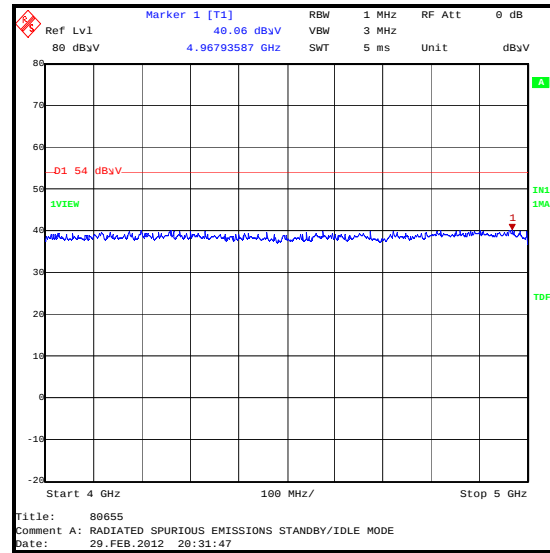
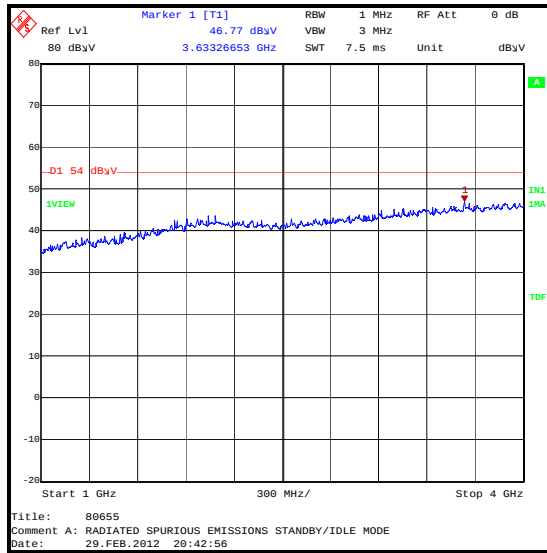
Temperature (°C):	24
Relative Humidity (%):	25

Results:

Frequency (MHz)	Antenna Polarity	Peak Level (dB μ V/m)	Average Limit (dB μ V/m)	Margin (dB)	Result
3633.267	Vertical	46.8	54.0	7.2	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. 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.
3. Pre-scans above 1 GHz were performed in a fully anechoic chamber (RFI Asset Number K0002) at a distance of 3 metres. The EUT was placed at a height of 1.5 metres above the test chamber floor in the centre of the chamber turntable. All measurement antennas were placed at a fixed height of 1.5 metres above the test chamber floor, in line with the EUT. Final measurements above 1 GHz were performed in a semi-anechoic chamber (RFI Asset Number K0001) at a distance of 3 metres. The EUT was placed at a height of 80 cm above the reference ground plane in the centre of the chamber turntable. Maximum emission levels were determined by height searching the measurement antenna over the range 1 metre to 4 metres.

Receiver/Idle Mode Radiated Spurious Emissions (continued)

5.2.3. Transmitter AC Conducted Spurious Emissions**Test Summary:**

Test Engineer:	Nick Steele	Test Date:	01 March 2012
Test Sample Serial No:	KQ010A01		

FCC Part:	15.207
Test Method Used:	As detailed in ANSI C63.10 Section 6.2 referencing ANSI C63.4

Environmental Conditions:

Temperature (°C):	26
Relative Humidity (%):	32

Results: Live / Quasi Peak

Frequency (MHz)	Line	Level (dBμV)	Limit (dBμV)	Margin (dB)	Result
0.164	Live	31.1	65.3	34.2	Complied
0.227	Live	29.9	62.6	32.7	Complied
0.285	Live	21.6	60.7	39.1	Complied
0.321	Live	25.0	59.7	34.7	Complied
14.388	Live	17.4	60.0	42.6	Complied
15.072	Live	17.4	60.0	42.6	Complied
15.536	Live	16.1	60.0	43.9	Complied

Results: Live / Average

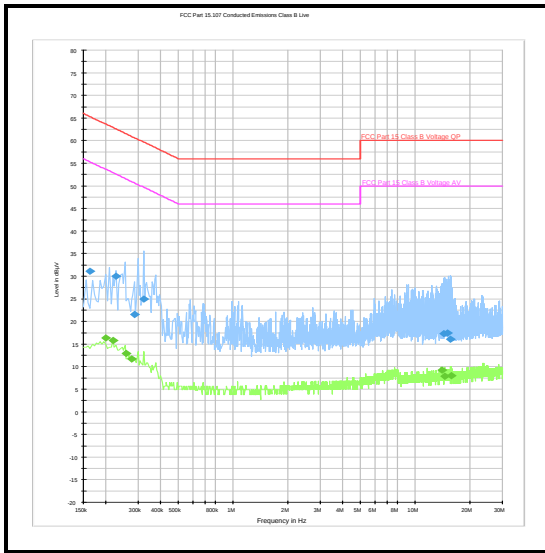
Frequency (MHz)	Line	Level (dBμV)	Limit (dBμV)	Margin (dB)	Result
0.200	Live	16.3	53.6	37.3	Complied
0.218	Live	15.8	52.9	37.1	Complied
0.258	Live	12.9	51.5	38.6	Complied
0.276	Live	11.7	50.9	39.2	Complied
13.916	Live	9.2	50.0	40.8	Complied
14.415	Live	7.8	50.0	42.2	Complied
15.675	Live	8.0	50.0	42.0	Complied

Transmitter AC Conducted Spurious Emissions (continued)**Results: Neutral / Quasi Peak**

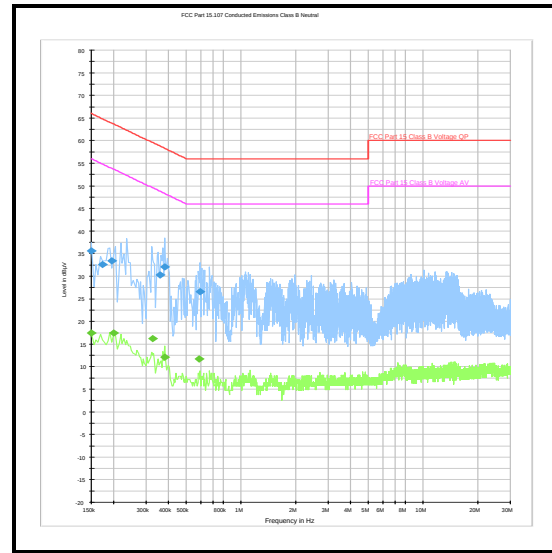
Frequency (MHz)	Line	Level (dB μ V)	Limit (dB μ V)	Margin (dB)	Result
0.150	Neutral	35.6	66.0	30.4	Complied
0.173	Neutral	32.6	64.8	32.2	Complied
0.195	Neutral	33.4	63.8	30.4	Complied
0.357	Neutral	30.3	58.8	28.5	Complied
0.380	Neutral	32.1	58.3	26.2	Complied
0.596	Neutral	26.5	56.0	29.5	Complied

Results: Neutral / Average

Frequency (MHz)	Line	Level (dB μ V)	Limit (dB μ V)	Margin (dB)	Result
0.150	Neutral	17.5	56.0	38.5	Complied
0.200	Neutral	17.4	53.6	36.2	Complied
0.326	Neutral	16.3	49.6	33.3	Complied
0.380	Neutral	12.1	48.3	36.2	Complied
0.587	Neutral	11.7	46.0	34.3	Complied

Transmitter AC Conducted Spurious Emissions (continued)

Live



Neutral

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

5.2.4. Transmitter Fundamental Field Strength**Test Summary:**

Test Engineer:	Nick Steele	Test Date:	29 February 2012
Test Sample Serial No:	KQ010A01		

FCC Part:	15.249(a)
Test Method Used:	As detailed in ANSI C63.10 Section 6.5

Environmental Conditions:

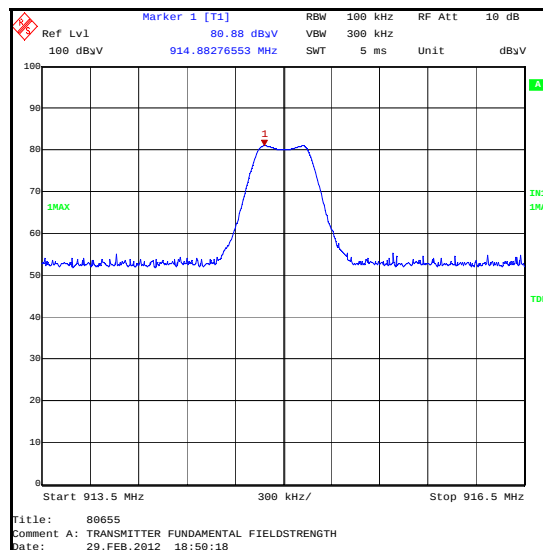
Temperature (°C):	24
Relative Humidity (%):	26

Results: Quasi-Peak

Frequency (MHz)	Antenna Polarity	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
914.876	Horizontal	80.6	94.0	13.4	Complied

Note(s):

1. The final measured value in the table above incorporates the calibrated antenna factor and cable loss
2. The plots of the fundamental shown on the following page were performed using a peak detector with final measurements being made with a quasi-peak detector.



5.2.5. Transmitter 20 dB Bandwidth**Test Summary:**

Test Engineer:	Nick Steele	Test Date:	01 March 2012
Test Sample Serial No:	KQ010A01		

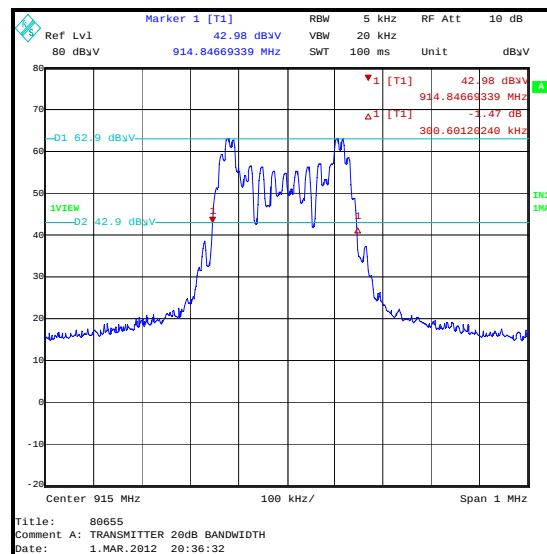
FCC Part:	2.1049
Test Method Used:	As detailed in ANSI C63.10 Section 6.9.1

Environmental Conditions:

Temperature (°C):	26
Relative Humidity (%):	32

Results:

Transmitter Frequency	20 dB Bandwidth (kHz)
915 MHz	300.601



5.2.6. Transmitter 99% Bandwidth

Test Summary:

Test Engineer:	Nick Steele	Test Date:	07 May 2012
Test Sample Serial No:	KQ010A01		

Industry Canada Part:	RSS-Gen 4.6
Test Method Used:	Occupied bandwidth function of a spectrum analyser was configured to measure 99% of the emission bandwidth

Environmental Conditions:

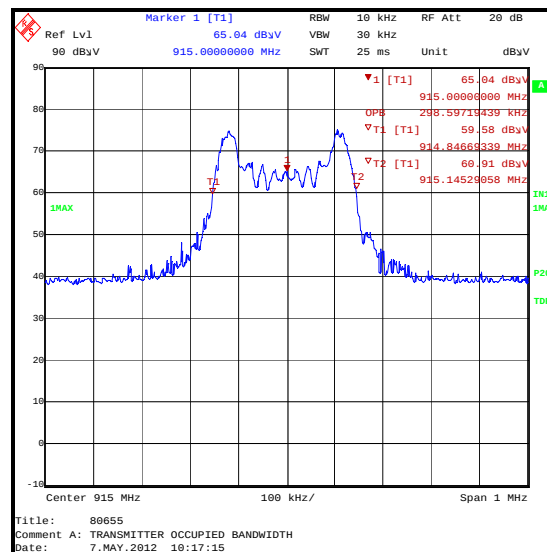
Temperature (°C):	23
Relative Humidity (%):	30

Results:

Transmitter Frequency	99% Bandwidth (kHz)
915 MHz	298.597

Note(s):

1. Measurement bandwidths were set automatically by the spectrum analyser based on the set channel bandwidth of 300 kHz.



5.2.7. Transmitter Radiated Emissions**Test Summary:**

Test Engineer:	Nick Steele	Test Date:	29 February 2012
Test Sample Serial No:	KQ010A01		

FCC Part:	15.249(a)(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:

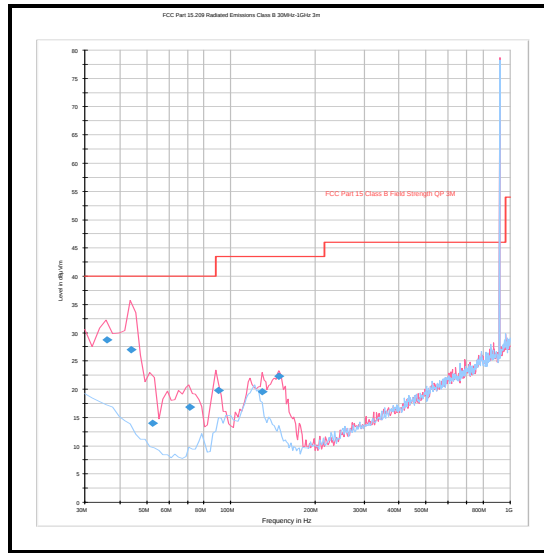
Temperature (°C):	24
Relative Humidity (%):	24

Results: Quasi-Peak

Frequency (MHz)	Antenna Polarity	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
129.913	Vertical	19.5	43.5	24.0	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 emission shown on the 30 MHz to 1 GHz plot is the EUT fundamental at 915 MHz.
3. 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.
4. Measurements below 1 GHz were performed in a semi-anechoic chamber (RFI Asset Number K0001) at a distance of 3 metres. The EUT was placed at a height of 80 cm above the reference ground plane in the centre of the chamber turntable. Maximum emission levels were determined by height searching the measurement antenna over the range 1 metre to 4 metres.

Transmitter Radiated Emissions (continued)

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

Transmitter Radiated Emissions (continued)**Test Summary:**

Test Engineer:	Nick Steele	Test Date:	29 February 2012
Test Sample Serial No:	KQ010A01		

FCC Part:	15.249(a)(d)(e) & 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 9.3 GHz

Environmental Conditions:

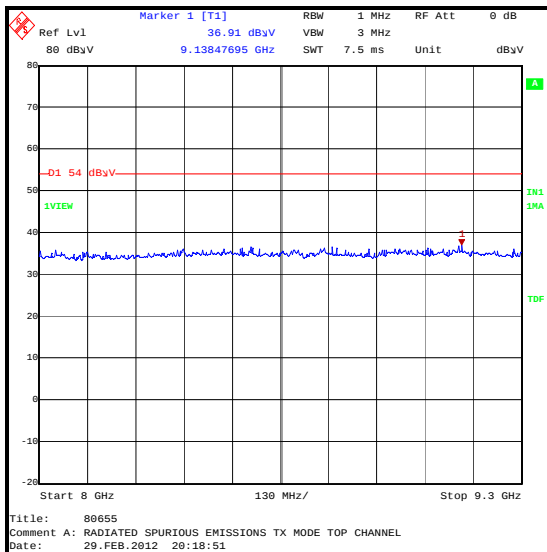
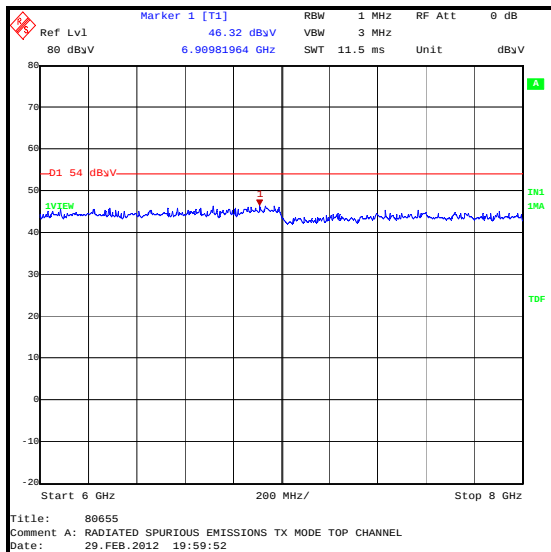
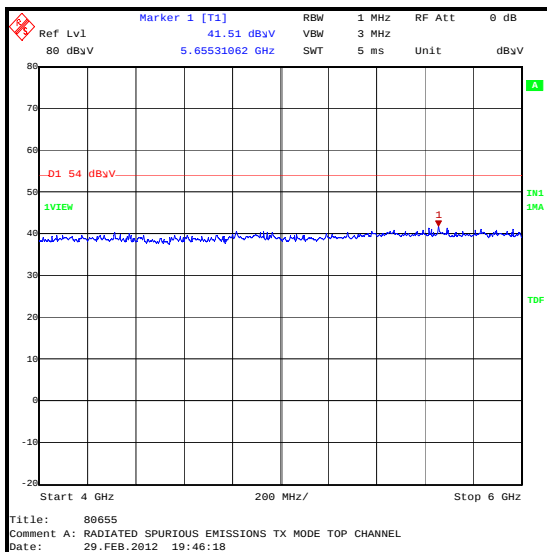
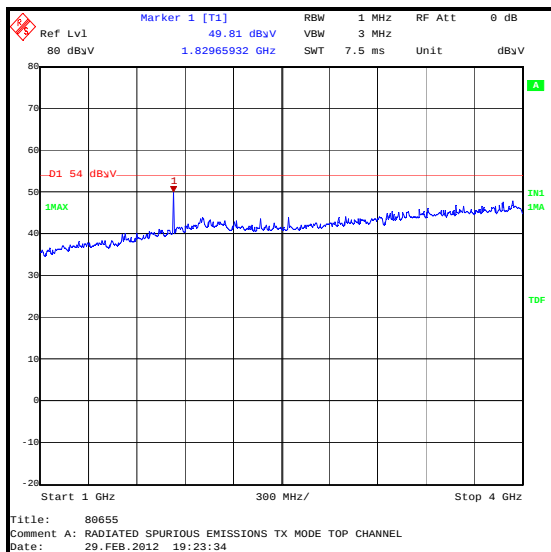
Temperature (°C):	24
Relative Humidity (%):	25

Results: Average

Frequency (MHz)	Antenna Polarity	Peak Level (dB μ V/m)	Average Limit (dB μ V/m)	Margin (dB)	Result
1829.659	Horizontal	50.5	54.0	3.5	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. Part 15.249(a) limit of 54.0 dB has been applied as the emission is the 2nd harmonic. The peak level was compared to the average limit.
3. All other emissions shown on the pre-scan plots were investigated and found to be ambient or >20 dB below the applicable limit or below the measurement system noise floor.
4. Pre-scans above 1 GHz were performed in a fully anechoic chamber (RFI Asset Number K0002) at a distance of 3 metres. The EUT was placed at a height of 1.5 metres above the test chamber floor in the centre of the chamber turntable. All measurement antennas were placed at a fixed height of 1.5 metres above the test chamber floor, in line with the EUT. Final measurements above 1 GHz were performed in a semi-anechoic chamber (RFI Asset Number K0001) at a distance of 3 metres. The EUT was placed at a height of 80 cm above the reference ground plane in the centre of the chamber turntable. Maximum emission levels were determined by height searching the measurement antenna over the range 1 metre to 4 metres.

Transmitter Radiated Emissions (continued)

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

5.2.8. Transmitter Band Edge Radiated Emissions**Test Summary:**

Test Engineer:	Nick Steele	Test Date:	16 May 2012
Test Sample Serial No:	KQ010A01		

FCC Part:	15.249(d) & 15.209
Test Method Used:	As detailed in ANSI C63.10 Section 6.9.2

Environmental Conditions:

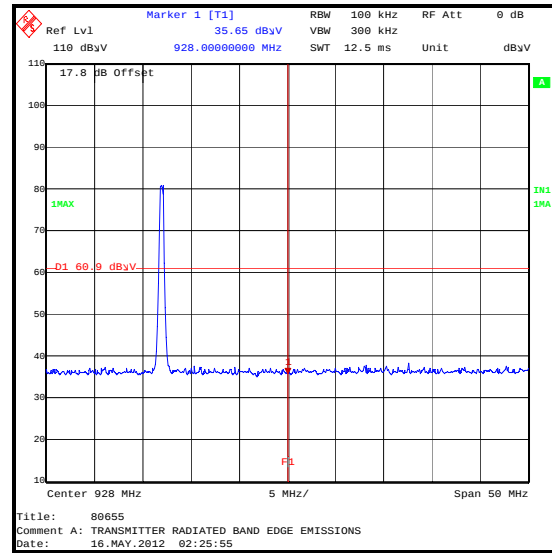
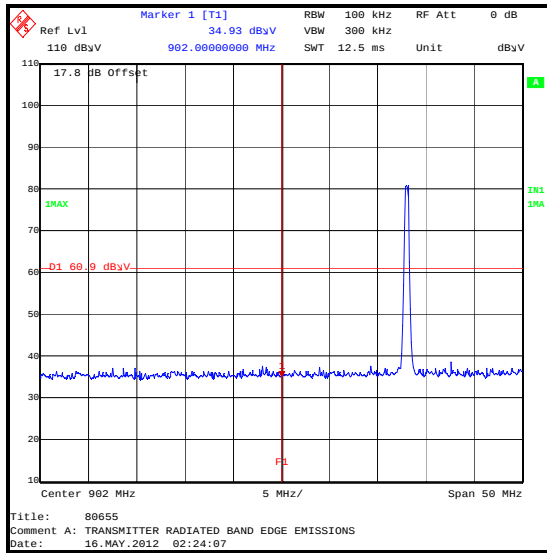
Temperature (°C):	24
Relative Humidity (%):	25

Results: Quasi-Peak

Frequency (MHz)	Antenna Polarity	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
902	Horizontal	30.8	60.9*	30.1	Complied
928	Horizontal	31.9	60.9*	29.0	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 plots shown on the following page were performed using a peak detector with final measurements being made with a quasi-peak detector
3. *20dBc limit applied, as the band edges are adjacent to non-restricted bands.

Transmitter Band Edge Radiated Emissions (continued)

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
AC Conducted Spurious Emissions	0.15 MHz to 30 MHz	95%	±3.25 dB
Fundamental Field Strength	902 MHz to 928 MHz	95%	±2.94 dB
20 dB Bandwidth	902 MHz to 928 MHz	95%	±0.92 ppm
99% Occupied Bandwidth	902 MHz to 928 MHz	95%	±0.92 ppm
Radiated Spurious Emissions	30 MHz to 9.3 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.

Appendix 1. Test Equipment Used

RFI No.	Instrument	Manufacturer	Type No.	Serial No.	Date Calibration Due	Cal. Interval (months)
A004	LISN	Rohde & Schwarz	ESH3-Z5	890604/027	14 Sep 2012	12
A1534	Pre Amplifier	Hewlett Packard	8449B	3008A00405	09 Oct 2012	12
A1818	Antenna	EMCO	3115	00075692	09 Oct 2012	12
A1829	Pulse Limiter	Rhode & Schwarz	ESH3-Z2	100671	31 Jan 2013	12
A1834	Attenuator	Hewlett Packard	8491B	10444	29 Jan 2013	12
A253	Antenna	Flann Microwave	12240-20	128	09 Oct 2012	12
A254	Antenna	Flann Microwave	14240-20	139	09 Oct 2012	12
A255	Antenna	Flann Microwave	16240-20	519	09 Oct 2012	12
A553	Antenna	Chase	CBL6111A	1593	15 Feb 2013	12
A288	Antenna	Chase	CBL6111A	1589	25 Aug 2012	12
G0543	Amplifier	Sonoma	310N	230801	13 Apr 2013	12
K0001	5m RSE Chamber	Rainford EMC	N/A	N/A	29 May 2012	12
K0002	3m RSE Chamber	Rainford EMC	N/A	N/A	09 Oct 2012	12
M1124	Spectrum Analyser	Rohde & Schwarz	ESI26	100046K	29 Jun 2012	12
M1273	Test Receiver	Rohde & Schwarz	ESIB 26	100275	03 Feb 2013	12

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