



# TEST REPORT

**Test Report No. : UL-RPT-RP90385JD18B**

**Manufacturer** : Panasonic Mobile Communications Development of Europe Ltd  
**Model No.** : NTT docomo EB-4063 and Wireless Charger with PSU  
**FCC ID** : UCE312057A  
**Technology** : UMTS850 Band V  
**Test Standard(s)** : FCC Parts 15.109 & 22.917

1. This test report shall not be reproduced in full or partial, without the written approval of RFI Global Services Ltd trading as UL.
2. The results in this report apply only to the sample(s) tested.
3. This sample tested is in compliance with the above standard(s).
4. The test results in this report are traceable to the national or international standards.
5. Version 1.0

**Date of Issue:** 27 November 2012

**Checked by:**

Ian Watch  
WiSE Senior Engineer

**Issued by :**

pp  
John Newell  
Group Quality Manager, WiSE  
Basingstoke,  
UL Verification Services



This laboratory is accredited by UKAS. The tests reported herein have been performed in accordance with its' terms of accreditation.

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**1. Customer Information**






<b>Company Name:</b>	Panasonic Mobile Communications Development of Europe Ltd
<b>Address:</b>	Panasonic House Willoughby Road Bracknell Berkshire RG12 8FP United Kingdom

## 2. Summary of Testing

### 2.1. General Information

<b>Specification Reference:</b>	47CFR22
<b>Specification Title:</b>	Code of Federal Regulations Volume 47 (Telecommunications) 2012: Part 22 Subpart H (Public Mobile Services)
<b>Specification Reference:</b>	47CFR15.109
<b>Specification Title:</b>	Code of Federal Regulations Volume 47 (Telecommunications) 2012: Part 15 Subpart B (Unintentional Radiators) - Section 15.109
<b>Site Registration:</b>	209735
<b>Location of Testing:</b>	RFI Global Services Ltd trading as UL, Wade Road, Basingstoke, Hampshire, RG24 8AH.
<b>Test Dates:</b>	20 November 2012 to 21 November 2012

### 2.2. Summary of Test Results

FCC Reference (47CFR)	Measurement	Result
Part 15.109	Receiver/Idle Mode Radiated Spurious Emissions	
Part 2.1053/22.917	Transmitter Out of Band Radiated Emissions	
Part 2.1053/22.917	Transmitter Band Edge Radiated Emissions	
<b>Key to Results</b>		
 = Complied  = Did not comply		

### 2.3. Methods and Procedures

<b>Reference:</b>	ANSI/TIA-603-C-2004
<b>Title:</b>	Land Mobile Communications Equipment, Measurements and performance Standards
<b>Reference:</b>	ANSI C63.4 (2009)
<b>Title:</b>	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.
<b>Reference:</b>	ANSI C63.10 (2009)
<b>Title:</b>	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)**

<b>Brand Name:</b>	NTT docomo
<b>Model Name or Number:</b>	EB-4063
<b>IMEI:</b>	353740050018443
<b>Hardware Version Number:</b>	Rev C
<b>Software Version Number:</b>	ACPU: rupy-jb-10-0391 CCPU: 101035_DCM_00.13
<b>FCC ID:</b>	UCE312057A

<b>Brand Name:</b>	NTT docomo
<b>Model Name or Number:</b>	Charger Pad Type Number: P02
<b>Serial Number:</b>	No, 1
<b>Hardware Version Number:</b>	Not marked or stated
<b>Software Version Number:</b>	N/A

<b>Brand Name:</b>	NTT docomo
<b>Model Name or Number:</b>	Charger PSU Type Number: P02
<b>Serial Number:</b>	No, 1
<b>Hardware Version Number:</b>	Not marked or stated
<b>Software Version Number:</b>	N/A

<b>Brand Name:</b>	NTT docomo
<b>Description:</b>	Personal Hands-Free
<b>Model Name or Number:</b>	Type 02

#### **3.2. Description of EUT**

The equipment under test was a Multi-Mode LTE/UMTS/GSM Mobile Phone with WLAN, *Bluetooth* and RFID with its associated Wireless Charger.

#### **3.3. Modifications Incorporated in the EUT**

No modifications were applied to the EUT during testing.

**3.4. Additional Information Related to Testing**

<b>Technology Tested:</b>	UMTS850		
<b>Type of Radio Device:</b>	Transceiver		
<b>Mode:</b>	UMTS FDD V and 3GPP Rel. 5 HSDPA / Rel. 6 HSUPA		
<b>Modulation Type:</b>	QPSK / 8PSK		
<b>Channel Spacing:</b>	5 MHz		
<b>Power Supply Requirement(s):</b>	Nominal	3.8 V	
<b>Transmit Frequency Range:</b>	824 to 849 MHz		
<b>Transmit Channels Tested:</b>	<b>Channel ID</b>	<b>Channel Number</b>	<b>Channel Frequency (MHz)</b>
	Bottom	4132	826.4
	Middle	4183	836.6
	Top	4233	846.6
<b>Receive Frequency Range:</b>	869 to 894 MHz		
<b>Receive Channels Tested:</b>	<b>Channel ID</b>	<b>Channel Number</b>	<b>Channel Frequency (MHz)</b>
	Bottom	4357	871.4
	Middle	4407	881.6
	Top	4458	891.6

**3.5. Support Equipment**

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

<b>Brand Name:</b>	Not stated
<b>Description:</b>	2GB Micro SD Card
<b>Model Name or Number:</b>	Not stated

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

### **4.1. Operating Modes**

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

- Receiver/Idle mode.
- Constantly transmitting at full power on bottom, middle and top channels as required.
- Band edge tests were performed with the EUT in Voice (12.2 kbps), HSDPA (Sub-tests 1 to 4) or HSUPA (Sub-tests 1 to 5) modes.
- Transmitter radiated spurious emissions were checked in all modes during pre-scans. Voice (12.2 kbps) was found to be the worst case and all final measurements were performed with the EUT in this mode.

### **4.2. Configuration and Peripherals**

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

- Connected to a Rohde & Schwarz CMU 200 Universal Radio Communications Tester, operating in UMTS Band V mode.
- Receiver/Idle mode and transmit mode radiated spurious emissions tests were performed with the mobile phone handset located in its normal position on the wireless charging pad connected to the PSU (120 VAC 60 Hz AC mains). The micro SD card was fitted during all tests.
- The personal hands-free was connected to the handset socket during 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.

In accordance with UKAS requirements all the measurement equipment is on a calibration schedule. All equipment was within the calibration period on the date of testing.

## 5.2. Test Results

### 5.2.1. Receiver/Idle Mode Radiated Spurious Emissions

#### Test Summary:

Test Engineer:	Nick Steele	Test Date:	21 November 2012
Test Sample IMEI:	353740050018443		

FCC Reference:	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):	22
Relative Humidity (%):	38

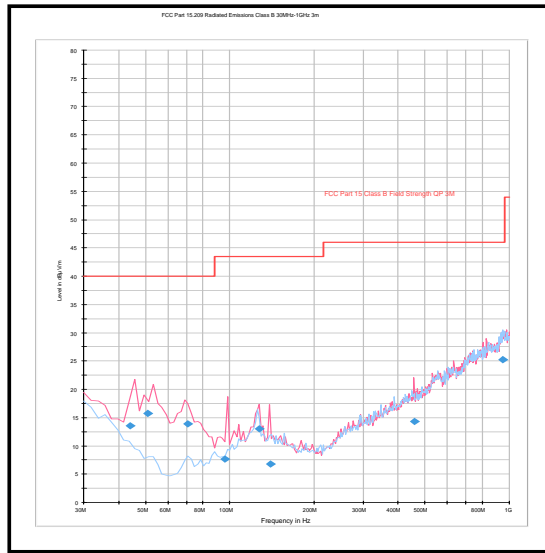
#### Note(s):

1. The final measured value, for the given emission, in the table below 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.

#### Results: Quasi Peak

Frequency (MHz)	Antenna Polarity	Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Result
43.940	Vertical	13.5	40.0	26.5	Complied
50.965	Vertical	15.8	40.0	24.2	Complied
70.816	Vertical	13.9	40.0	26.1	Complied
127.276	Vertical	13.0	43.5	30.5	Complied
457.092	Vertical	14.3	46.0	31.7	Complied
947.943	Horizontal	25.2	46.0	20.8	Complied

**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.*

**Test Equipment Used:**

RFI No.	Instrument	Manufacturer	Type No.	Serial No.	Date Calibration Due	Cal. Interval (Months)
A1834	Attenuator	Hewlett Packard	8491B	10444	29 Jan 2013	12
A553	Antenna	Chase	CBL6111A	1593	15 Feb 2013	12
G0543	Amplifier	Sonoma	310N	230801	02 Jan 2013	3
K0001	5m RSE Chamber	Rainford EMC	N/A	N/A	24 Oct 2013	12
M1273	Test Receiver	Rohde & Schwarz	ESIB 26	100275	03 Feb 2013	12

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

<b>Test Engineer:</b>	Nick Steele	<b>Test Date:</b>	20 November 2012
<b>Test Sample IMEI:</b>	353740050018443		

<b>FCC Reference:</b>	Part 15.109
<b>Test Method Used:</b>	As detailed in ANSI C63.4 Section 8
<b>Frequency Range:</b>	1 GHz to 5 GHz

**Environmental Conditions:**

<b>Temperature (°C):</b>	28
<b>Relative Humidity (%):</b>	39

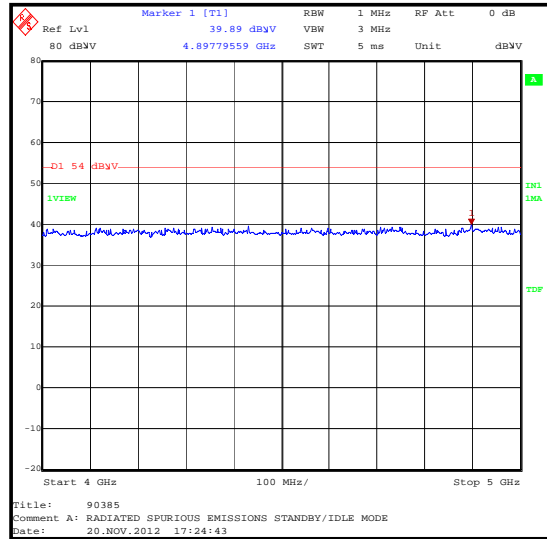
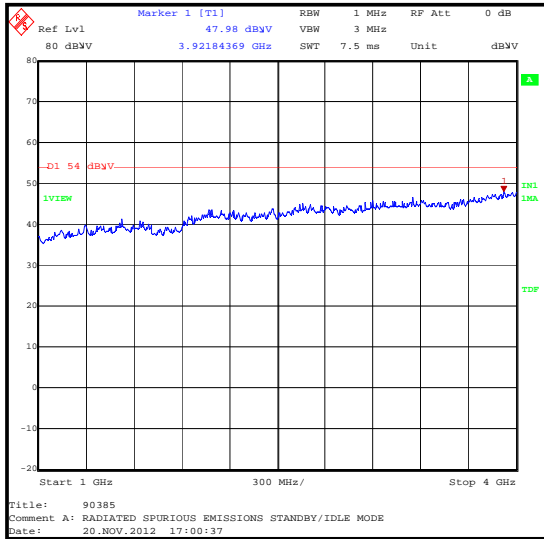
**Note(s):**

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 below. 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.

**Results:**

<b>Frequency (MHz)</b>	<b>Antenna Polarity</b>	<b>Peak Level (dB<math>\mu</math>V/m)</b>	<b>Average Limit (dB<math>\mu</math>V/m)</b>	<b>Margin (dB)</b>	<b>Result</b>
3921.844	Vertical	48.0	54.0	6.0	Complied

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



**Test Equipment Used:**

RFI No.	Instrument	Manufacturer	Type No.	Serial No.	Date Calibration Due	Cal. Interval (Months)
K0002	3m RSE Chamber	Rainford EMC	N/A	N/A	04 Nov 2013	12
M1124	Test Receiver	Rohde & Schwarz	ESIB 26	N/A	14 Aug 2013	12
A1534	Pre Amplifier	Hewlett Packard	8449B	3008A00405	04 Nov 2013	12
A1818	Antenna	EMCO	3115	00075692	04 Nov 2013	12
A253	Antenna	Flann Microwave	12240-20	128	04 Nov 2013	12

**5.2.2. Transmitter Out of Band Radiated Emissions****Test Summary:**

<b>Test Engineer:</b>	Nick Steele	<b>Test Dates:</b>	20 November 2012 & 21 November 2012
<b>Test Sample IMEI:</b>	353740050018443		

<b>FCC Reference:</b>	Parts 2.1053 & 22.917
<b>Test Method Used:</b>	As detailed in ANSI TIA-603-C-2004 Section 2.2.12 referencing FCC CFR Part 2.1053
<b>Frequency Range:</b>	30 MHz to 9 GHz
<b>Configuration:</b>	Voice / 12.2 kbps

**Environmental Conditions:**

<b>Temperature (°C):</b>	22 to 26
<b>Relative Humidity (%):</b>	38 to 39

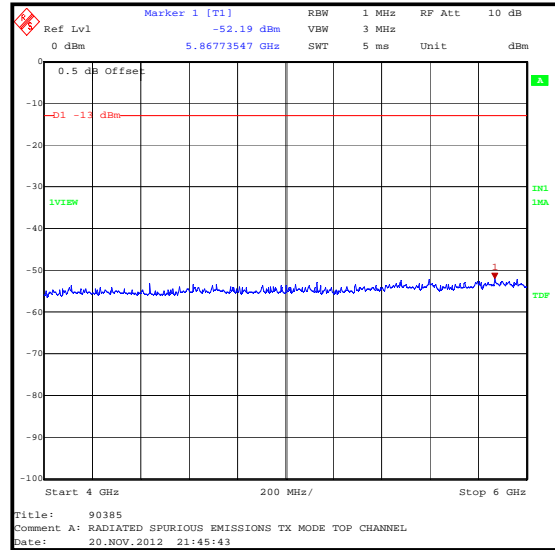
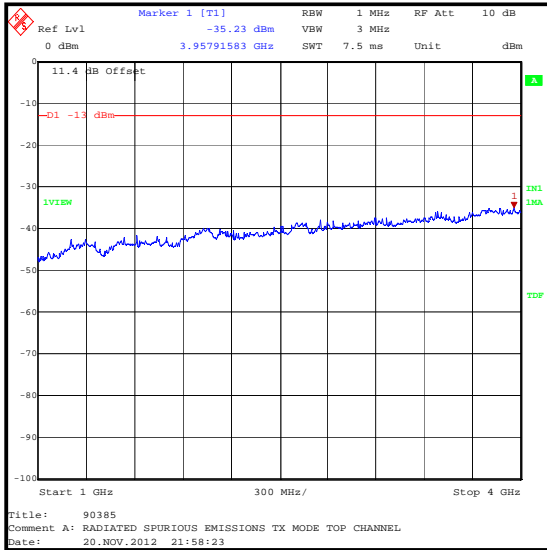
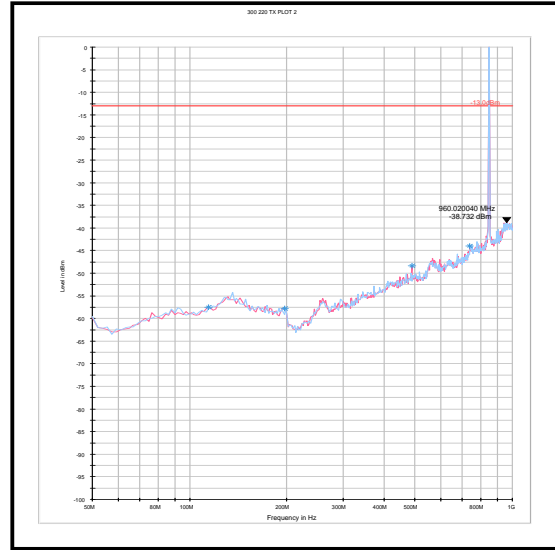
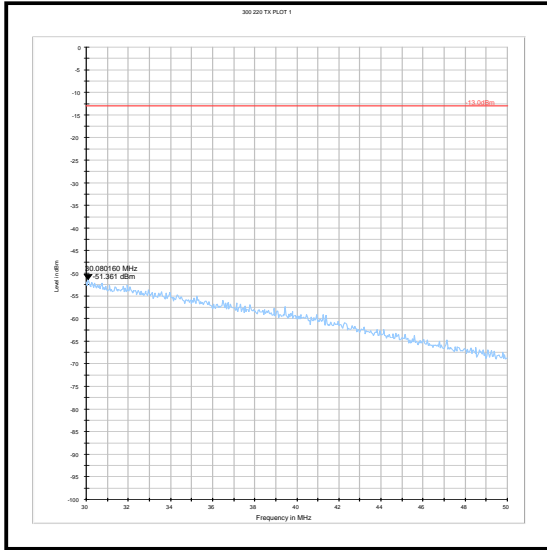
**Note(s):**

1. No spurious emissions were detected above the noise floor of the measuring receiver; the highest peak noise floor reading of the measuring receiver was recorded.
2. The uplink traffic channel is shown on the 30 MHz to 1 GHz plot.
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.
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.

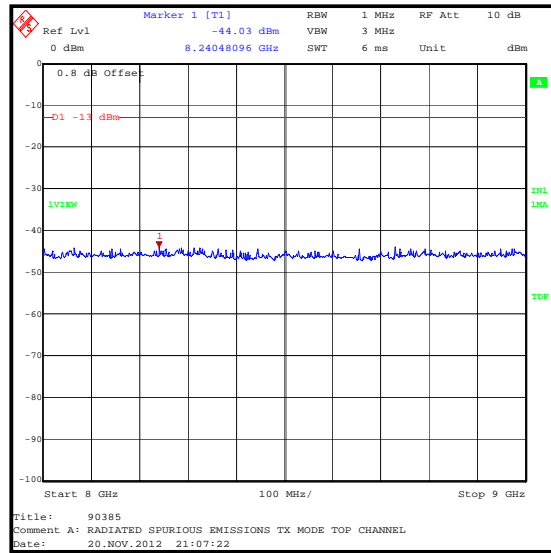
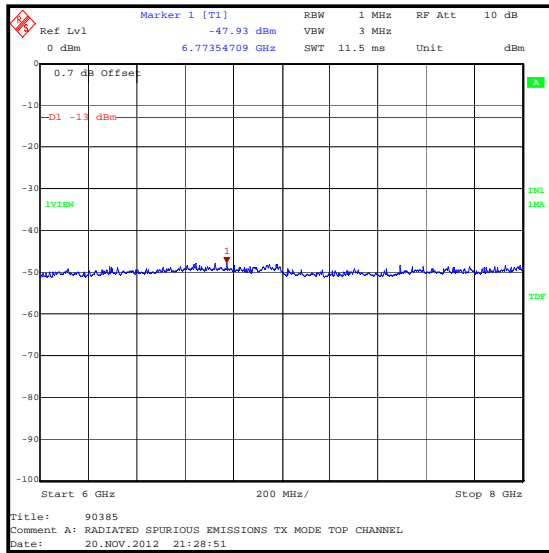
**Results:**

<b>Frequency (MHz)</b>	<b>Peak Level (dBm)</b>	<b>Limit (dBm)</b>	<b>Margin (dB)</b>	<b>Result</b>
3957.916	-35.2	-13.0	22.2	Complied

**Transmitter Out of Band Radiated Emissions (continued)**



**Transmitter Out of Band Radiated Emissions (continued)**



**Test Equipment Used:**

RFI No.	Instrument	Manufacturer	Type No.	Serial No.	Date Calibration Due	Cal. Interval (Months)
A1393	Attenuator	Huber & Suhner	6820.17.B	757456	06 Jul 2013	12
A1834	Attenuator	Hewlett Packard	8491B	10444	29 Jan 2013	12
A553	Antenna	Chase	CBL6111A	1593	15 Feb 2013	12
G0543	Amplifier	Sonoma	310N	230801	02 Jan 2013	3
K0001	5m RSE Chamber	Rainford EMC	N/A	N/A	24 Oct 2013	12
M1273	Test Receiver	Rohde & Schwarz	ESIB 26	100275	03 Feb 2013	12
K0002	3m RSE Chamber	Rainford EMC	N/A	N/A	04 Nov 2013	12
M1124	Test Receiver	Rohde & Schwarz	ESIB 26	N/A	14 Aug 2013	12
A1534	Pre Amplifier	Hewlett Packard	8449B	3008A0040 5	04 Nov 2013	12
A1818	Antenna	EMCO	3115	00075692	04 Nov 2013	12
A253	Antenna	Flann Microwave	12240-20	128	04 Nov 2013	12
A254	Antenna	Flann Microwave	14240-20	139	04 Nov 2013	12
A255	Antenna	Flann Microwave	16240-20	519	04 Nov 2013	12
A1932	High Pass Filter	AtlanTec RF	AFH-02000	20r-JBD04- 002	15 Mar 2013	12
A1975	High Pass Filter	AtlanTec RF	AFH-01000	090000283	15 Mar 2013	12
A1396	Attenuator	Huber & Suhner	6810.17.B	757987	06 July 2013	12



**5.2.3. Transmitter Radiated Emissions at Band Edges**

**Test Summary:**

<b>Test Engineer:</b>	David Doyle	<b>Test Date:</b>	21 November 2012
<b>Test Sample IMEI:</b>	353740050018443		

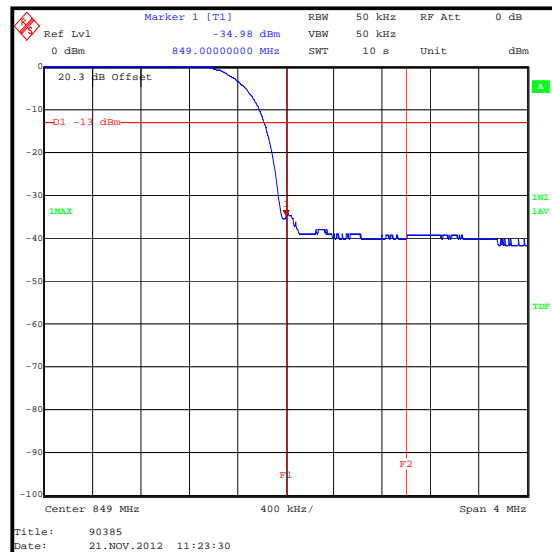
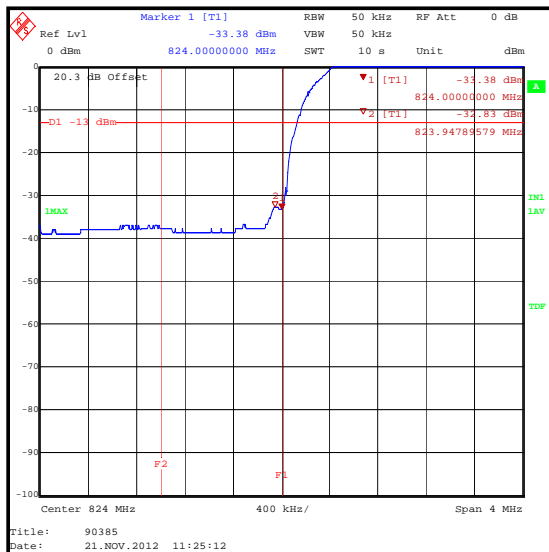
<b>FCC Reference:</b>	Parts 2.1053 & 22.917
<b>Test Method Used:</b>	As detailed in ANSI TIA-603-C-2004 Section 2.2.12 referencing FCC CFR Part 22.917

**Environmental Conditions:**

<b>Temperature (°C):</b>	25
<b>Relative Humidity (%):</b>	40

**Results: Voice / 12.2 kbps**

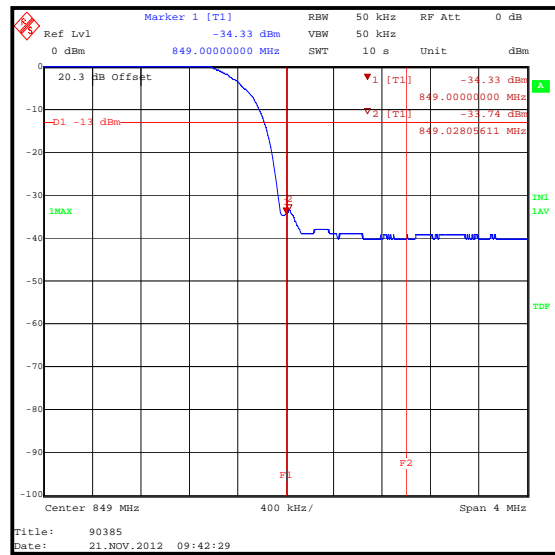
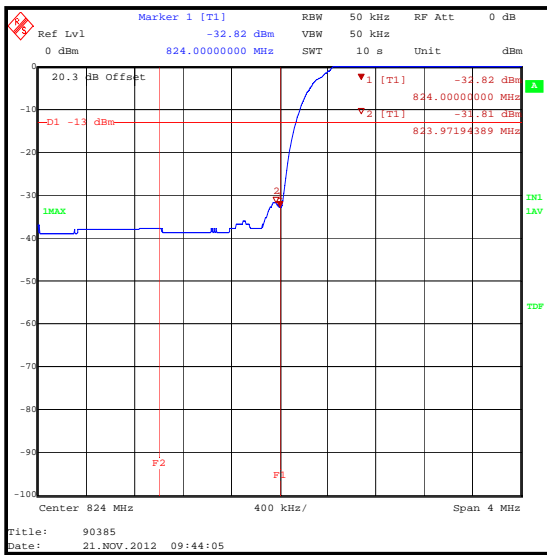
Frequency (MHz)	Peak Level (dBm)	Limit (dBm)	Margin (dB)	Result
823.948	-32.8	-13.0	19.8	Complied
824	-33.4	-13.0	20.4	Complied
849	-35.0	-13.0	22.0	Complied



**Transmitter Radiated Emissions at Band Edges (continued)**

**Results: HSDPA Sub-Test 1**

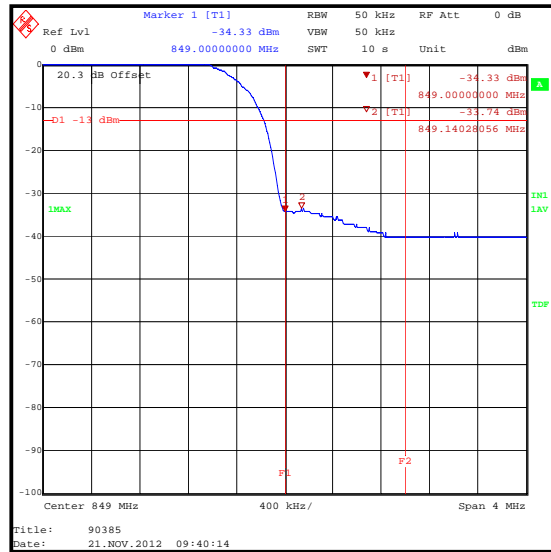
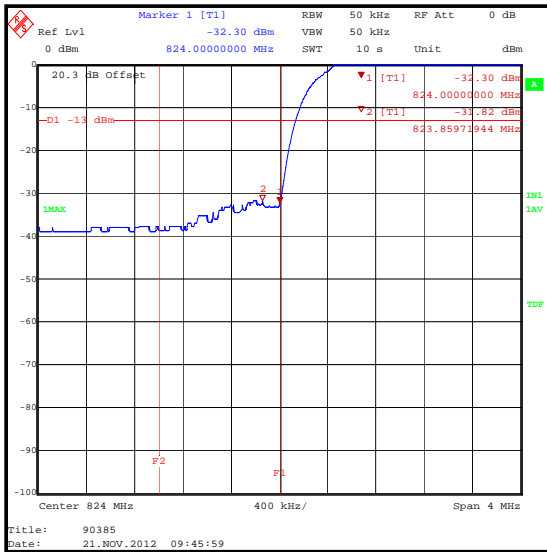
Frequency (MHz)	Peak Level (dBm)	Limit (dBm)	Margin (dB)	Result
823.972	-31.8	-13.0	18.8	Complied
824	-32.8	-13.0	19.8	Complied
849	-34.3	-13.0	21.3	Complied
849.028	-33.7	-13.0	20.7	Complied



**Transmitter Radiated Emissions at Band Edges (continued)**

**Results: HSDPA Sub-Test 2**

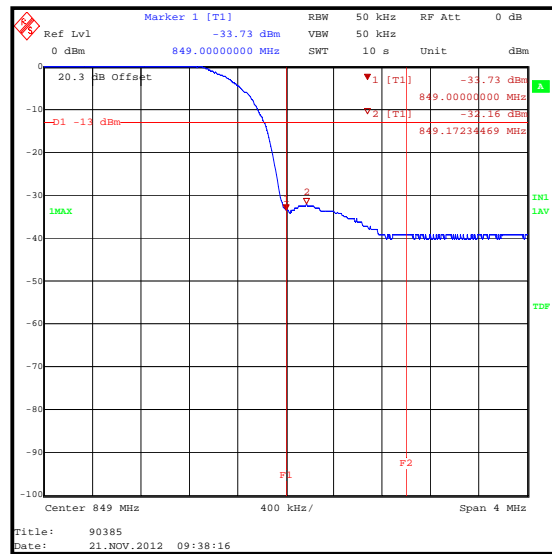
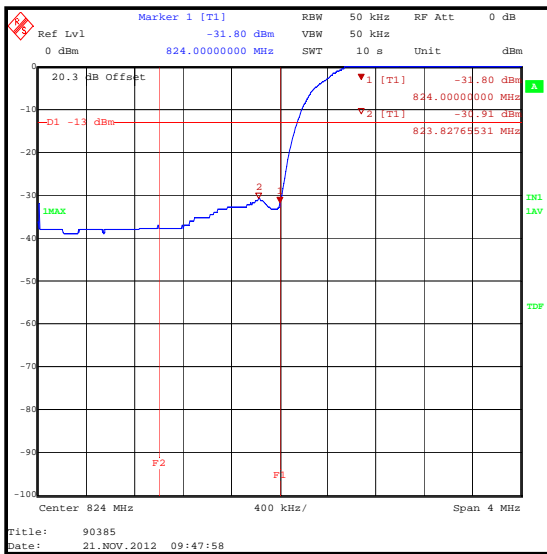
Frequency (MHz)	Peak Level (dBm)	Limit (dBm)	Margin (dB)	Result
823.860	-31.8	-13.0	18.8	Complied
824	-32.3	-13.0	19.3	Complied
849	-34.3	-13.0	21.3	Complied
849.140	-33.7	-13.0	20.7	Complied



**Transmitter Radiated Emissions at Band Edges (continued)**

**Results: HSDPA Sub-Test 3**

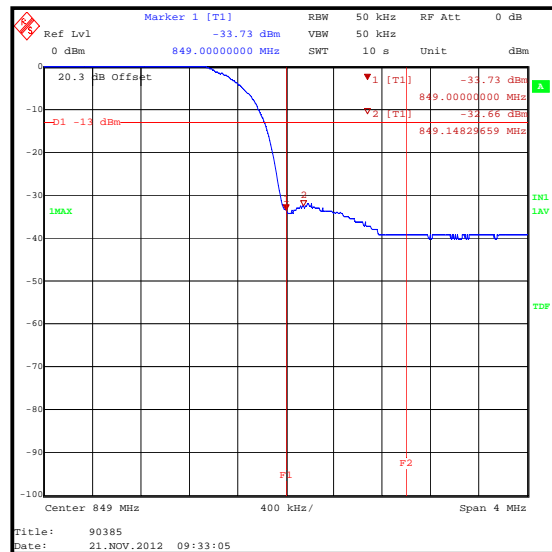
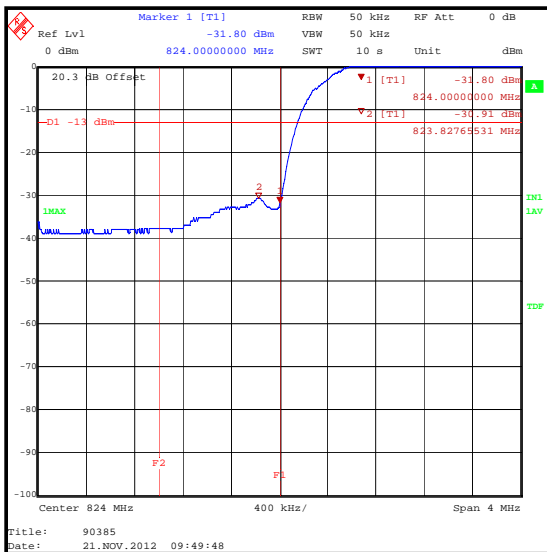
Frequency (MHz)	Peak Level (dBm)	Limit (dBm)	Margin (dB)	Result
823.828	-30.9	-13.0	17.9	Complied
824	-31.8	-13.0	18.8	Complied
849	-33.7	-13.0	20.7	Complied
849.172	-32.2	-13.0	19.2	Complied



**Transmitter Radiated Emissions at Band Edges (continued)**

**Results: HSDPA Sub-Test 4**

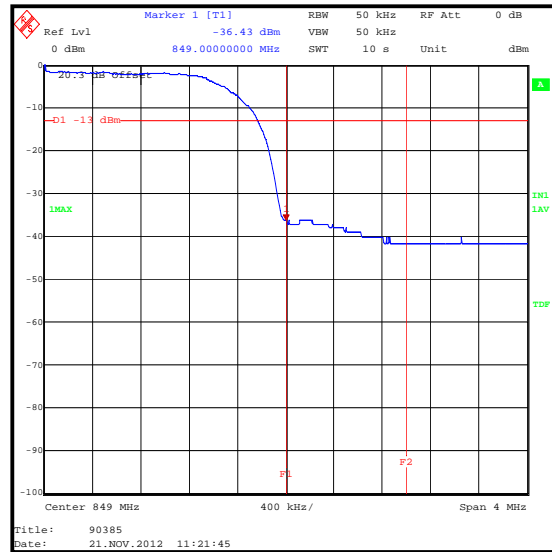
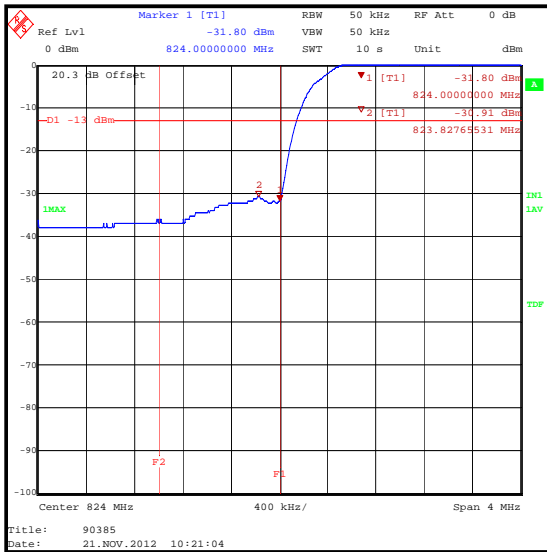
Frequency (MHz)	Peak Level (dBm)	Limit (dBm)	Margin (dB)	Result
823.828	-30.9	-13.0	17.9	Complied
824	-31.8	-13.0	18.8	Complied
849	-33.7	-13.0	20.7	Complied
849.148	-32.7	-13.0	19.7	Complied



**Transmitter Radiated Emissions at Band Edges (continued)**

**Results: HSUPA Sub-Test 1**

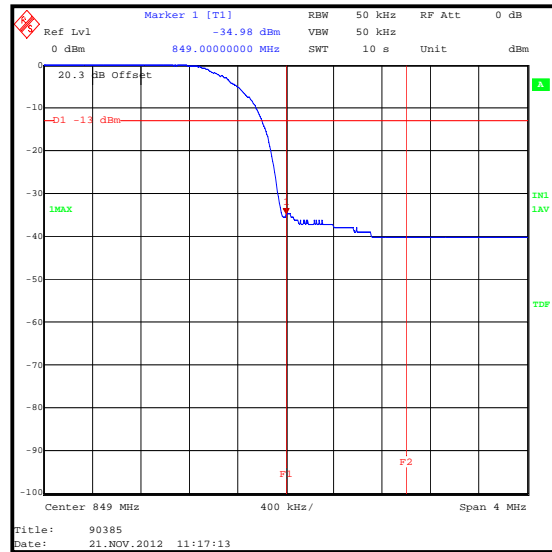
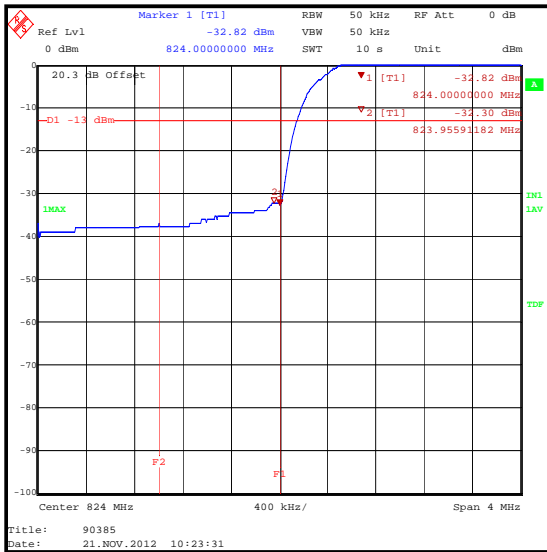
Frequency (MHz)	Peak Level (dBm)	Limit (dBm)	Margin (dB)	Result
823.828	-30.9	-13.0	17.9	Complied
824	-31.8	-13.0	18.8	Complied
849	-36.4	-13.0	23.4	Complied



**Transmitter Radiated Emissions at Band Edges (continued)**

**Results: HSUPA Sub-Test 2**

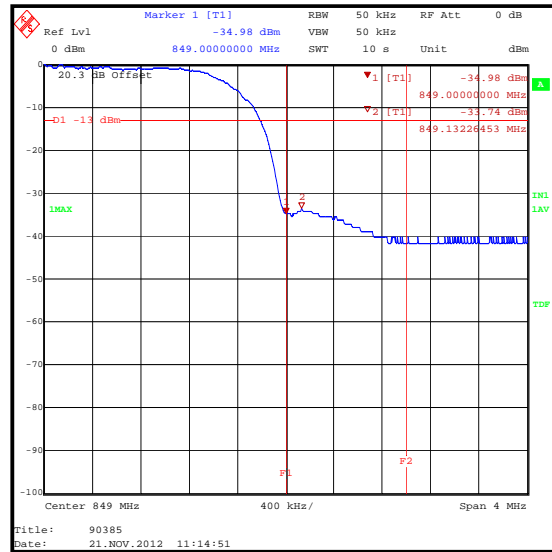
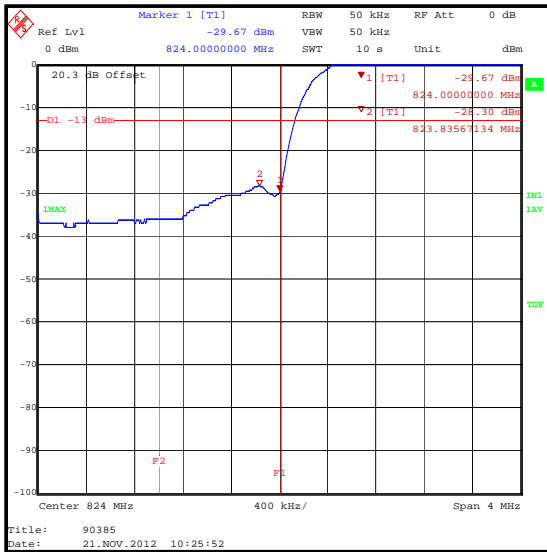
Frequency (MHz)	Peak Level (dBm)	Limit (dBm)	Margin (dB)	Result
823.956	-32.3	-13.0	19.3	Complied
824	-32.8	-13.0	19.8	Complied
849	-35.0	-13.0	22.0	Complied



**Transmitter Radiated Emissions at Band Edges (continued)**

**Results: HSUPA Sub-Test 3**

Frequency (MHz)	Peak Level (dBm)	Limit (dBm)	Margin (dB)	Result
823.836	-28.3	-13.0	15.3	Complied
824	-29.7	-13.0	16.7	Complied
849	-35.0	-13.0	22.0	Complied
849.132	-33.7	-13.0	20.7	Complied

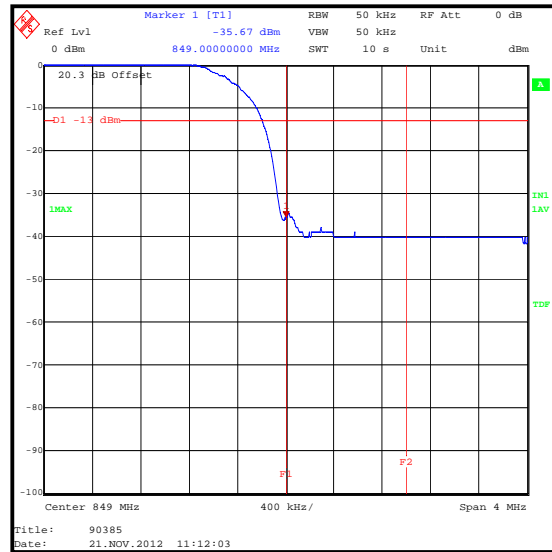
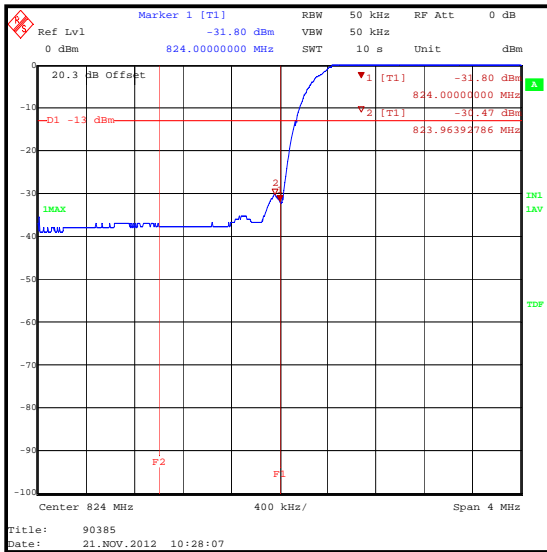




**Transmitter Radiated Emissions at Band Edges (continued)**

**Results: HSUPA Sub-Test 4**

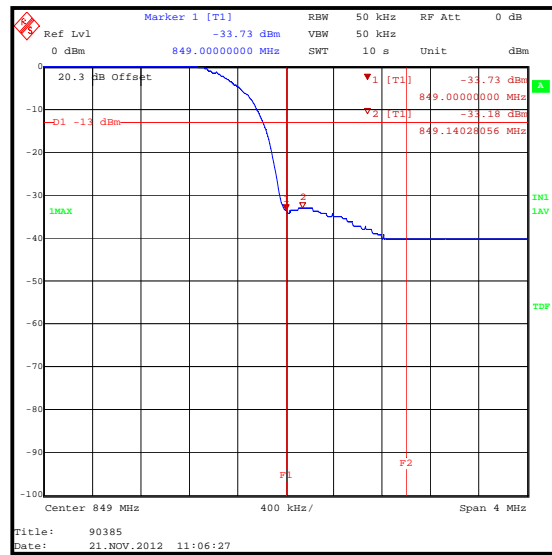
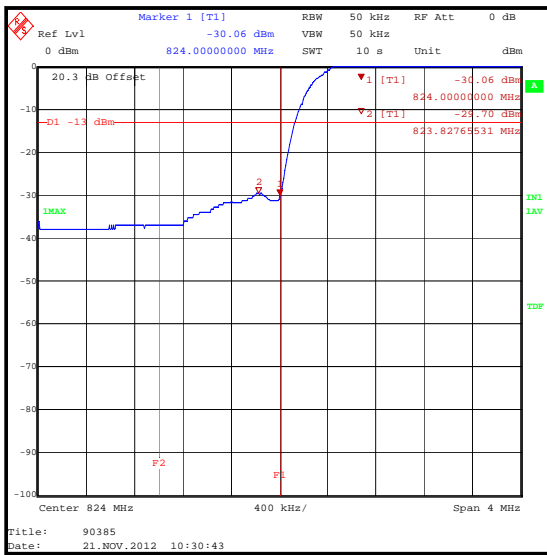
Frequency (MHz)	Peak Level (dBm)	Limit (dBm)	Margin (dB)	Result
823.964	-30.5	-13.0	17.5	Complied
824	-31.8	-13.0	18.8	Complied
849	-35.7	-13.0	22.7	Complied



**Transmitter Radiated Emissions at Band Edges (continued)**

**Results: HSUPA Sub-Test 5**

Frequency (MHz)	Peak Level (dBm)	Limit (dBm)	Margin (dB)	Result
823.828	-29.7	-13.0	16.7	Complied
824	-30.1	-13.0	17.1	Complied
849	-33.7	-13.0	20.7	Complied
849.140	-33.2	-13.0	20.2	Complied



**Test Equipment Used:**

RFI No.	Instrument	Manufacturer	Type No.	Serial No.	Date Calibration Due	Cal. Interval (Months)
K0002	3m RSE Chamber	Rainford EMC	N/A	N/A	04 Nov 2013	12
M1124	Test Receiver	Rohde & Schwarz	ESIB 26	N/A	14 Aug 2013	12
A1534	Pre Amplifier	Hewlett Packard	8449B	3008A00405	04 Nov 2013	12
A288	Antenna	Chase	CBL6111A	1589	15 Aug 2013	12
A1393	Attenuator	Huber & Suhner	6820.17.B	757456	06 July 2013	12

## **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".

<b>Measurement Type</b>	<b>Range</b>	<b>Confidence Level (%)</b>	<b>Calculated Uncertainty</b>
Radiated Spurious Emissions	30 MHz to 9 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.

## **7. Report Revision History**

Version Number	Revision Details		
	Page No(s)	Clause	Details
1.0	-	-	Initial Version